FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Valero Refining-Texas, L.P.

AUTHORIZING THE OPERATION OF
Valero Houston Refinery
Petroleum Refineries

LOCATED AT
Harris County, Texas
Latitude 29° 43' 24" Longitude 95° 15' 11"
Regulated Entity Number: RN100219310

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: O1381 Issuance Date: _____

_____
For the Commission

Table of Contents

Section **Page**

General Terms and Conditions 1

Special Terms and Conditions: 1
- Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting 1
- Additional Monitoring Requirements 13
- New Source Review Authorization Requirements 14
- Compliance Requirements 14
- Risk Management Plan 16
- Protection of Stratospheric Ozone 16
- Alternative Requirements 16
- Permit Location 17
- Permit Shield (30 TAC § 122.148) 17

Attachments 18
- Applicable Requirements Summary 19
- Additional Monitoring Requirements 163
- Permit Shield 194
- New Source Review Authorization References 209
- Alternative Requirement 230

Appendix A 241
- Acronym List 242

Appendix B 243

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, Subpart Y as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.300 which incorporates the 40 CFR Part 63 Subpart by reference.

F. Emission units subject to 40 CFR Part 63, Subpart CC as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.340 which incorporates the 40 CFR Part 63 Subpart by reference.

G. Emission units subject to 40 CFR Part 63, Subpart UUU as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.780 which incorporates the 40 CFR Part 63 Subpart by reference.

H. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.

I. Emission units subject to 40 CFR Part 63, Subpart DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1130 which incorporates the 40 CFR Part 63 Subpart by reference.

J. Emission units subject to 40 CFR Part 63, Subpart GGGGG as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1160 which incorporates the 40 CFR Part 63 Subpart by reference.

K. For the purpose of generating emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 1 (Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 101.302 (relating to General Provisions)

(ii) Title 30 TAC § 101.303 (relating to Emission Reduction Credit Generation Certification)

(iii) Title 30 TAC § 101.304 (relating to Mobile Emission Reduction Credit Generation and Certification)

(iv) Title 30 TAC § 101.309 (relating to Emission Credit Banking and Trading)

(v) The terms and conditions by which the emission limits are established to generate the reduction credit are applicable requirements of this permit

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

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

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

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

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

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

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

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

M. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 101.372 (relating to General Provisions)

(ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)

(iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)

(iv) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)

(v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit

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

(i) Title 30 TAC § 101.393 (relating to General Provisions)

(ii) Title 30 TAC § 101.394 (relating to Allocation of Allowances)

(iii) Title 30 TAC § 101.396 (relating to Allowance Deductions)

(iv) Title 30 TAC § 101.399 (relating to Allowance Banking and Trading)

(v) Title 30 TAC § 101.400 (relating to Reporting)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(ii) Title 30 TAC § 111.111(a)(1)(E)

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

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

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

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

(3) Records of all observations shall be maintained.

(4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

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

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

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

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

(i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)

(iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC

§ 122.145(2). The opacity test must be performed by a certified opacity reader.

C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)

(iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is

determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

D. 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.

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

F. Permit holders for sites that have materials handling, construction, roads, streets, alleys, and parking lots shall comply with the following requirements:

(i) Title 30 TAC § 111.143 (relating to Materials Handling)

(ii) Title 30 TAC § 111.145 (relating to Construction and Demolition)

(iii) Title 30 TAC § 111.147 (relating to Roads, Streets, and Alleys)

(iv) Title 30 TAC § 111.149 (relating to Parking Lots)

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

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

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

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

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

5. For industrial wastewater specified in 30 TAC Chapter 115, Subchapter B, the permit holder shall comply with the following requirements for wastewater drains, junction boxes, lift stations and weirs:

A. Title 30 TAC § 115.142(1)(E) and (F) (relating to Control Requirements)

B. Title 30 TAC § 115.145 (relating to Approved Test Methods)

C. Title 30 TAC § 115.146 (relating to Recordkeeping Requirements)

D. Title 30 TAC § 115.147(2) (relating to Exemptions), for streams with an annual VOC loading of 10 megagrams (11.03 tons) or less

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

F. Title 30 TAC § 115.148 (relating to Determination of Wastewater Characteristics)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

8. The permit holder shall comply with the following requirements of 30 TAC Chapter 115, Subchapter H, Division 1 for pressure relief devices not controlled by a flare:

A. Title 30 TAC § 115.725(c)

B. Title 30 TAC § 115.725(c)(1), (c)(1)(A) - (C)

C. Title 30 TAC § 115.725(c)(2)

D. Title 30 TAC § 115.725(c)(3), (c)(3)(A) - (E)

E. Title 30 TAC § 115.725(c)(4)

F. Title 30 TAC § 115.725(l)

G. Title 30 TAC § 115.726(c), (c)(1) - (4)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

C. Title 40 CFR § 60.692-2(d) (relating to Standards: Individual Drain Systems)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

14. For facilities where total annual benzene quantity from waste is greater than or equal to 1 megagram per year and less than 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 § 61.355(a)(1)(iii), (a)(2), (a)(4)(i) - (ii), (a)(6), (b), and (c)(1) - (3) (relating to Test Methods, Procedures, and Compliance Provisions), for calculation procedures

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

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

D. Title 40 CFR § 61.357(a), and (c) (relating to Reporting Requirements)

15. 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.

16. 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

17. 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).

18. For site remediation projects subject to 40 CFR Part 63, Subpart GGGGG that will remove remediation material containing less than 1 megagram per year of the HAP listed in Table 1 to Subpart GGGGG, the permit holder shall comply with 40 CFR § 63.7881(c)(1) - (3) (Title 30 TAC Chapter 113, Subchapter C, § 113.1160 incorporated by reference).

19. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

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

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

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

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

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

    E. The permit holder shall comply with 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.

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

New Source Review Authorization Requirements

22. 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

23. 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.

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

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

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

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

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

    D. Boiler Standard Permit

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

Compliance Requirements

26. 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.

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

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

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

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

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

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

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

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

(i) Title 30 TAC Chapter 115

(ii) Title 30 TAC Chapter 117

(iii) Offsets for Title 30 TAC Chapter 116

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

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

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

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

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

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

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

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

(i) Title 30 TAC Chapter 115

(ii) Title 30 TAC Chapter 117

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

(iv) Temporarily exceed state NSR permit allowables

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

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

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

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

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

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

Risk Management Plan

30. 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

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

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

Alternative Requirements

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

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

Permit Location

33. 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)

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

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Alternative Requirement

Applicable Requirements Summary

Unit Summary **20**

Applicable Requirements Summary **47**

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
17H01	PROCESS HEATERS/FURNACES	N/A	R7300-7	30 TAC Chapter 117, Subchapter B	No changing attributes.
17H01	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-3	40 CFR Part 60, Subpart Ja	No changing attributes.
17H01	PROCESS HEATERS/FURNACES	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
22AVENT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-3	30 TAC Chapter 111, Visible Emissions	No changing attributes.
22AVENT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
22EG400	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-3	30 TAC Chapter 111, Visible Emissions	No changing attributes.
22EG400	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
22FA225	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-3	30 TAC Chapter 111, Visible Emissions	No changing attributes.
22FA225	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
22FB748	STORAGE TANKS/VESSELS	N/A	R5112-2	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
22FB749	STORAGE TANKS/VESSELS	N/A	R5112-2	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
23BA301	PROCESS HEATERS/FURNACES	N/A	R7300-3	30 TAC Chapter 117, Subchapter B	No changing attributes.
23BA301	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-2	40 CFR Part 60, Subpart Ja	No changing attributes.
23BA302	PROCESS HEATERS/FURNACES	N/A	R7300-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
23BA302	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-2	40 CFR Part 60, Subpart Ja	No changing attributes.
23BA302	PROCESS HEATERS/FURNACES	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
23BC201	PROCESS HEATERS/FURNACES	N/A	R7300-5	30 TAC Chapter 117, Subchapter B	No changing attributes.
23BC201	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-2	40 CFR Part 60, Subpart Ja	No changing attributes.
27ENG2	SRIC ENGINES	N/A	R7300-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
27ENG2	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
27ENG2	SRIC ENGINES	N/A	63ZZZZ-0	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
29BA1300	PROCESS HEATERS/FURNACES	N/A	R7300-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
29BA1300	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60J-2	40 CFR Part 60, Subpart A	No changing attributes.
29BA1300	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS	N/A	60Ja-2	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
	SRU				
30FL1	FLARES	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
30FL1	FLARES	N/A	R5720-1	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
30FL1	FLARES	N/A	60A-1	40 CFR Part 60, Subpart A	No changing attributes.
30FL1	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-1	40 CFR Part 60, Subpart Ja	No changing attributes.
30FL1	FLARES	N/A	63A-0	40 CFR Part 63, Subpart A	No changing attributes.
30FL6	FLARES	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
30FL6	FLARES	N/A	R5720-1	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
30FL6	FLARES	N/A	60A-1	40 CFR Part 60, Subpart A	No changing attributes.
30FL6	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-1	40 CFR Part 60, Subpart Ja	No changing attributes.
30FL6	FLARES	N/A	63A-0	40 CFR Part 63, Subpart A	No changing attributes.
30GG1822	SRIC ENGINES	N/A	R7300-0	30 TAC Chapter 117, Subchapter B	No changing attributes.
30GG1822	SRIC ENGINES	N/A	63ZZZZ-0	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
39CB2001	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JTGI-1	40 CFR Part 60, Subpart J	No changing attributes.
39CB2001	FCCU CAT REGEN/FUEL	N/A	63UUU-1	40 CFR Part 63, Subpart	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	GAS COMBUSTION/CLAUS SRU			UUU	
39FA1006	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JSP-1B	40 CFR Part 60, Subpart J	No changing attributes.
39FA1006	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JSP-1C	40 CFR Part 60, Subpart J	No changing attributes.
39FA1006	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-1	40 CFR Part 63, Subpart UUU	No changing attributes.
39FB1001	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JSP-1B	40 CFR Part 60, Subpart J	No changing attributes.
39FB1001	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JSP-1C	40 CFR Part 60, Subpart J	No changing attributes.
39FB1001	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-1	40 CFR Part 63, Subpart UUU	No changing attributes.
39LO1001	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JSP-1B	40 CFR Part 60, Subpart J	No changing attributes.
39LO1001	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JSP-1C	40 CFR Part 60, Subpart J	No changing attributes.
39LO1001	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-1	40 CFR Part 63, Subpart UUU	No changing attributes.
39RX2001	GAS	N/A	R2SRU-1B	30 TAC Chapter 112, Sulfur	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	SWEETENING/SULFUR RECOVERY UNITS			Compounds	
39RX2001	GAS SWEETENING/SULFUR RECOVERY UNITS	N/A	R2SRU-1C	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
39RX2001	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JSRU-1B	40 CFR Part 60, Subpart J	No changing attributes.
39RX2001	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JSRU-1C	40 CFR Part 60, Subpart J	No changing attributes.
39RX2001	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-1	40 CFR Part 63, Subpart UUU	No changing attributes.
40CWT11	INDUSTRIAL PROCESS COOLING TOWERS	N/A	63CC-6	40 CFR Part 63, Subpart CC	No changing attributes.
42BC2001	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-3	40 CFR Part 60, Subpart Ja	No changing attributes.
42BC2001	PROCESS HEATERS/FURNACES	N/A	63DDDDD-2	40 CFR Part 63, Subpart DDDDD	No changing attributes.
42CB2201	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
42CB2201	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60J-3	40 CFR Part 60, Subpart J	No changing attributes.
42CB2201	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-3	40 CFR Part 63, Subpart UUU	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
42FB2802	STORAGE TANKS/VESSELS	N/A	R5117-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
42FB2802	STORAGE TANKS/VESSELS	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
42GG1730	SRIC ENGINES	N/A	R7300-0	30 TAC Chapter 117, Subchapter B	No changing attributes.
42GG1730	SRIC ENGINES	N/A	63ZZZZ-0	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
44BA3001	PROCESS HEATERS/FURNACES	N/A	R7300-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
44BA3001	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-2	40 CFR Part 60, Subpart Ja	No changing attributes.
44BA3001	PROCESS HEATERS/FURNACES	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
44BA3002	PROCESS HEATERS/FURNACES	N/A	R7300-3	30 TAC Chapter 117, Subchapter B	No changing attributes.
44BA3002	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Dc-1	40 CFR Part 60, Subpart Dc	No changing attributes.
44BA3002	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-2	40 CFR Part 60, Subpart Ja	No changing attributes.
44BA3002	PROCESS HEATERS/FURNACES	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
44BA3005	PROCESS HEATERS/FURNACES	N/A	R7300-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
44BA3005	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS	N/A	60Ja-2	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
	SRU				
44BA3005	PROCESS HEATERS/FURNACES	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
45FB6001	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
45FB6002	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
45FB6360	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
45FB7401	STORAGE TANKS/VESSELS	N/A	R5112-3	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
45FB7401	STORAGE TANKS/VESSELS	N/A	60K-3	40 CFR Part 60, Subpart K	No changing attributes.
45FB7402	STORAGE TANKS/VESSELS	N/A	R5112-3	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
45FB7402	STORAGE TANKS/VESSELS	N/A	60Kb-3	40 CFR Part 60, Subpart Kb	No changing attributes.
45FB7403	STORAGE TANKS/VESSELS	N/A	R5112-3	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
45FB7403	STORAGE TANKS/VESSELS	N/A	60Kb-3	40 CFR Part 60, Subpart Kb	No changing attributes.
45FB7403	STORAGE TANKS/VESSELS	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
46AD6202	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JSP-1B	40 CFR Part 60, Subpart J	No changing attributes.
46AD6202	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS	N/A	60JSP-1C	40 CFR Part 60, Subpart J	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	SRU				
46AD6202	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-1	40 CFR Part 63, Subpart UUU	No changing attributes.
46BC6302	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JSP-1B	40 CFR Part 60, Subpart J	No changing attributes.
46BC6302	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-1	40 CFR Part 63, Subpart UUU	No changing attributes.
46CB6301	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JTGI-1	40 CFR Part 60, Subpart J	No changing attributes.
46CB6301	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-1	40 CFR Part 63, Subpart UUU	No changing attributes.
46FB6301	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
46LO6201	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JSP-1B	40 CFR Part 60, Subpart J	No changing attributes.
46LO6201	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JSP-1C	40 CFR Part 60, Subpart J	No changing attributes.
46LO6201	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-1	40 CFR Part 63, Subpart UUU	No changing attributes.
46RX6206	GAS SWEETENING/SULFUR RECOVERY UNITS	N/A	R2SRU-1B	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
46RX6206	GAS SWEETENING/SULFUR RECOVERY UNITS	N/A	R2SRU-1C	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
46RX6206	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JSRU-1B	40 CFR Part 60, Subpart J	No changing attributes.
46RX6206	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60JSRU-1C	40 CFR Part 60, Subpart J	No changing attributes.
46RX6206	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63UUU-1	40 CFR Part 63, Subpart UUU	No changing attributes.
47FA2	STORAGE TANKS/VESSELS	N/A	R5117-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
47FB321	STORAGE TANKS/VESSELS	N/A	R5112-8	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
47FB321	STORAGE TANKS/VESSELS	N/A	60Kb-9	40 CFR Part 60, Subpart Kb	No changing attributes.
47FB321	STORAGE TANKS/VESSELS	N/A	60QQQ-1	40 CFR Part 60, Subpart QQQ	No changing attributes.
47FB321	STORAGE TANKS/VESSELS	N/A	63GGGGG-1	40 CFR Part 63, Subpart GGGGG	No changing attributes.
47FB323	STORAGE TANKS/VESSELS	N/A	R5112-8	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
47FB323	STORAGE TANKS/VESSELS	N/A	60Kb-9	40 CFR Part 60, Subpart Kb	No changing attributes.
47FB323	STORAGE TANKS/VESSELS	N/A	60QQQ-1	40 CFR Part 60, Subpart QQQ	No changing attributes.
47FB323	STORAGE	N/A	63GGGGG-1	40 CFR Part 63, Subpart	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	TANKS/VESSELS			GGGGG	
47FB503	STORAGE TANKS/VESSELS	N/A	R5112-2	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
47FB503	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	R5132-1	30 TAC Chapter 115, Water Separation	No changing attributes.
47FB503	STORAGE TANKS/VESSELS	N/A	60Kb-1	40 CFR Part 60, Subpart Kb	No changing attributes.
47FB504	STORAGE TANKS/VESSELS	N/A	R5112-2	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
47FB504	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	R5132-1	30 TAC Chapter 115, Water Separation	No changing attributes.
47FB504	STORAGE TANKS/VESSELS	N/A	60Kb-1	40 CFR Part 60, Subpart Kb	No changing attributes.
47FB509	STORAGE TANKS/VESSELS	N/A	R5112-2	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
47FB509	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	R5132-1	30 TAC Chapter 115, Water Separation	No changing attributes.
47GF5401	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	R5132-1	30 TAC Chapter 115, Water Separation	No changing attributes.
47GF5401	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	60QQQ-1	40 CFR Part 60, Subpart QQQ	No changing attributes.
47GF5401	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	63GGGGG-1	40 CFR Part 63, Subpart GGGGG	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
47GG1523	SRIC ENGINES	N/A	R7300-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
47GG1523	SRIC ENGINES	N/A	63ZZZZ-0	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
50BF02	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R7300-6	30 TAC Chapter 117, Subchapter B	No changing attributes.
50BF02	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Db-1	40 CFR Part 60, Subpart Db	No changing attributes.
50BF02	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-2	40 CFR Part 60, Subpart Ja	No changing attributes.
50BF02	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
50BF03	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R7300-6	30 TAC Chapter 117, Subchapter B	No changing attributes.
50BF03	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Db-1	40 CFR Part 60, Subpart Db	No changing attributes.
50BF03	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-2	40 CFR Part 60, Subpart Ja	No changing attributes.
50BF03	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
50BF04	BOILERS/STEAM GENERATORS/STEAM	N/A	R7300-6	30 TAC Chapter 117, Subchapter B	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	GENERATING UNITS				
50BF04	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Db-1	40 CFR Part 60, Subpart Db	No changing attributes.
50BF04	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	63Ja-3	40 CFR Part 60, Subpart Ja	No changing attributes.
5GCVS	CLOSED VENT SYSTEM AND CONTROL DEVICE	N/A	63GGGGG-1	40 CFR Part 63, Subpart GGGGG	No changing attributes.
5GFUG	FUGITIVE EMISSION UNITS	N/A	63GGGGG-1	40 CFR Part 63, Subpart GGGGG	No changing attributes.
5GTRANSFER	TRANSFER SYSTEM	N/A	63GGGGG-1	40 CFR Part 63, Subpart GGGGG	No changing attributes.
81BF01	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R7300-6	30 TAC Chapter 117, Subchapter B	No changing attributes.
81BF01	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Db-1	40 CFR Part 60, Subpart Db	No changing attributes.
81BF01	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-2	40 CFR Part 60, Subpart Ja	No changing attributes.
81BF01	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
81ENG1	SRIC ENGINES	N/A	R7300-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
81ENG1	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
81ENG1	SRIC ENGINES	N/A	63ZZZZ-0	40 CFR Part 63, Subpart	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
				ZZZZ	
81GEN001	SRIC ENGINES	N/A	R7300-0	30 TAC Chapter 117, Subchapter B	No changing attributes.
81GEN001	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
81GEN001	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
81SKD5602	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-2	40 CFR Part 60, Subpart Ja	No changing attributes.
81SKD5602	CLOSED VENT SYSTEM AND CONTROL DEVICE	N/A	63GGGGG-1	40 CFR Part 63, Subpart GGGGG	No changing attributes.
81SKD5603	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	N/A	60Ja-2	40 CFR Part 60, Subpart Ja	No changing attributes.
81SKD5603	CLOSED VENT SYSTEM AND CONTROL DEVICE	N/A	63GGGGG-1	40 CFR Part 63, Subpart GGGGG	No changing attributes.
9058LOAD	LOADING/UNLOADING OPERATIONS	N/A	R5217-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
9059LOAD	LOADING/UNLOADING OPERATIONS	N/A	R5217-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
90DOCK1	LOADING/UNLOADING OPERATIONS	N/A	REGV-LOAD1	30 TAC Chapter 115, Loading and Unloading of VOC	Marine Terminal Exemptions = The marine terminal is not claiming one or more of the exemptions in 30 TAC § 115.217(a)(5)(B)., Product Transferred = Gasoline, True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Daily Throughput = Daily throughput

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals., Chapter 115 Control Device Type = Vapor control system with a vapor combustor., Control Options = Vapor control system that maintains a control efficiency of at least 90%., Vapor Tight = Not all liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
90DOCK1	LOADING/UNLOADING OPERATIONS	N/A	REGV-LOAD2	30 TAC Chapter 115, Loading and Unloading of VOC	Marine Terminal Exemptions = The marine terminal is not claiming one or more of the exemptions in 30 TAC § 115.217(a)(5)(B)., Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline., True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals., Chapter 115 Control Device Type = Vapor control system with a vapor combustor., Control Options = Vapor control system that maintains a control efficiency of at least 90%., Vapor Tight = Not all liquid and vapor lines

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
90DOCK1	LOADING/UNLOADING OPERATIONS	N/A	REGV-LOAD3	30 TAC Chapter 115, Loading and Unloading of VOC	Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline., True Vapor Pressure = True vapor pressure less than 0.5 psia.
90DOCK1	LOADING/UNLOADING OPERATIONS	N/A	REGV-LOAD4	30 TAC Chapter 115, Loading and Unloading of VOC	Product Transferred = Liquefied petroleum gas (LPG)
90DOCK1	LOADING/UNLOADING OPERATIONS	N/A	MACTCC-LOAD1	40 CFR Part 63, Subpart CC	No changing attributes.
90DOCK1	LOADING/UNLOADING OPERATIONS	N/A	MACTY-LOAD1	40 CFR Part 63, Subpart Y	Material Loaded = Gasoline., Throughput = Source with throughput less than 10 M barrels and 200 M barrels.
90DOCK1	LOADING/UNLOADING OPERATIONS	N/A	MACTY-LOAD2	40 CFR Part 63, Subpart Y	Material Loaded = Material other than crude oil or gasoline.
90DOCK2	LOADING/UNLOADING OPERATIONS	N/A	REGV-LOAD3	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
90FB735	STORAGE TANKS/VESSELS	N/A	R5112-2	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
90FB735	STORAGE TANKS/VESSELS	N/A	60Kb-1	40 CFR Part 60, Subpart Kb	No changing attributes.
90FB735	STORAGE TANKS/VESSELS	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
90GG2245	SRIC ENGINES	N/A	R7300-0	30 TAC Chapter 117, Subchapter B	No changing attributes.
90GG2245	SRIC ENGINES	N/A	63ZZZZ-0	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
9155LOAD	LOADING/UNLOADING OPERATIONS	N/A	R5217-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
9157LOAD	LOADING/UNLOADING OPERATIONS	N/A	R5217-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
9160LOAD	LOADING/UNLOADING OPERATIONS	N/A	R5217-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
91FB922	STORAGE TANKS/VESSELS	N/A	R5112-2	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
91FB922	STORAGE TANKS/VESSELS	N/A	60Kb-1	40 CFR Part 60, Subpart Kb	No changing attributes.
91FB922	STORAGE TANKS/VESSELS	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
91FB924	STORAGE TANKS/VESSELS	N/A	R5112-2	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
91FB924	STORAGE TANKS/VESSELS	N/A	60Kb-1	40 CFR Part 60, Subpart Kb	No changing attributes.
91FB924	STORAGE TANKS/VESSELS	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
91FB931	STORAGE TANKS/VESSELS	N/A	R5112-2	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
91FB931	STORAGE TANKS/VESSELS	N/A	60Kb-1	40 CFR Part 60, Subpart Kb	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
91FB931	STORAGE TANKS/VESSELS	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
92FA4001	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
92FA4002	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
96GENC20D6	SRIC ENGINES	N/A	R7300-0	30 TAC Chapter 117, Subchapter B	No changing attributes.
96GENC20D6	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
96GENC20D6	SRIC ENGINES	N/A	63ZZZZ-0	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
97GE2999	SRIC ENGINES	N/A	R7300-0	30 TAC Chapter 117, Subchapter B	No changing attributes.
97GE2999	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
97GE2999	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
DG-AGIT	SOLVENT DEGREASING MACHINES	N/A	R5412-1	30 TAC Chapter 115, Degreasing Processes	No changing attributes.
DG-AGIT2	SOLVENT DEGREASING MACHINES	N/A	R5412-1	30 TAC Chapter 115, Degreasing Processes	No changing attributes.
EJECTORS	VACUUM PRODUCING SYSTEMS	23EA301, 23FA206	R5311	30 TAC Chapter 115, Unit Turn & Vac System-Pet Ref	No changing attributes.
GRP-CWT	INDUSTRIAL PROCESS COOLING TOWERS	22CWT3, 23CWT7, 27CWT2, 32CWT12, 42CWT10, 44CWT9	R5760-1	30 TAC Chapter 115, HRVOC Cooling Towers	No changing attributes.
GRP-CWT	INDUSTRIAL PROCESS COOLING TOWERS	22CWT3, 23CWT7, 27CWT2, 32CWT12, 42CWT10, 44CWT9	63CC-6	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-DISTILL	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	40DA1101, 40DA1102, 40DA1103, 40DA1201, 40DA1202, 40DA1203, 40DA1204, 40DA1205, 40DA1206, 40DA1207	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-ENG	SRIC ENGINES	42GG1848, 42GG1849	R7300-0	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRP-ENG	SRIC ENGINES	42GG1848, 42GG1849	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
GRP-ENG	SRIC ENGINES	42GG1848, 42GG1849	63ZZZZ-0	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-ENGEMERG	SRIC ENGINES	30PU2991, 30PU2992, 30PU2993	R7300-0	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRP-ENGEMERG	SRIC ENGINES	30PU2991, 30PU2992, 30PU2993	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
GRP-ENGEMERG	SRIC ENGINES	30PU2991, 30PU2992, 30PU2993	63ZZZZ-0	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-FUG	FUGITIVE EMISSION UNITS	21FUG, 22AFUG, 22BFUG, 22FUG, 23FUG, 27AFUG, 27FUG, 28FUG, 29FUG, 30FUG, 32FUG, 39FUG,	R5780-FUG	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		40FUG, 41FUG, 42AFUG, 42BFUG, 42CFUG, 42FUG, 43AFUG, 43FUG, 44AFUG, 44FUG, 45AFUG, 45FUG, 46FUG, 47FUG, 50FUG, 81FUG, 90AFUG, 90BFUG, 90CFUG, 90FUG, 91BFUG, 91FUG, 96FUG, FUG			
GRP-FUG	FUGITIVE EMISSION UNITS	21FUG, 22AFUG, 22BFUG, 22FUG, 23FUG, 27AFUG, 27FUG, 28FUG, 29FUG, 30FUG, 32FUG, 39FUG, 40FUG, 41FUG, 42AFUG, 42BFUG, 42CFUG, 42FUG, 43AFUG, 43FUG, 44AFUG, 44FUG, 45AFUG, 45FUG, 46FUG, 47FUG, 50FUG, 81FUG, 90AFUG, 90BFUG, 90CFUG, 90FUG, 91BFUG, 91FUG, 96FUG, FUG	R5352-FUG	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
GRP-FUG	FUGITIVE EMISSION UNITS	21FUG, 22AFUG, 22BFUG, 22FUG, 23FUG, 27AFUG, 27FUG, 28FUG,	60GGG-FUG	40 CFR Part 60, Subpart GGG	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		29FUG, 30FUG, 32FUG, 39FUG, 40FUG, 41FUG, 42AFUG, 42BFUG, 42CFUG, 42FUG, 43AFUG, 43FUG, 44AFUG, 44FUG, 45AFUG, 45FUG, 46FUG, 47FUG, 50FUG, 81FUG, 90AFUG, 90BFUG, 90CFUG, 90FUG, 91BFUG, 91FUG, 96FUG, FUG			
GRP-FUG	FUGITIVE EMISSION UNITS	21FUG, 22AFUG, 22BFUG, 22FUG, 23FUG, 27AFUG, 27FUG, 28FUG, 29FUG, 30FUG, 32FUG, 39FUG, 40FUG, 41FUG, 42AFUG, 42BFUG, 42CFUG, 42FUG, 43AFUG, 43FUG, 44AFUG, 44FUG, 45AFUG, 45FUG, 46FUG, 47FUG, 50FUG, 81FUG, 90AFUG, 90BFUG, 90CFUG, 90FUG, 91BFUG, 91FUG, 96FUG, FUG	60GGGa-FUG	40 CFR Part 60, Subpart GGGa	No changing attributes.
GRP-FUG	FUGITIVE EMISSION UNITS	21FUG, 22AFUG, 22BFUG, 22FUG,	63CC-FUG	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
		23FUG, 27AFUG, 27FUG, 28FUG, 29FUG, 30FUG, 32FUG, 39FUG, 40FUG, 41FUG, 42AFUG, 42BFUG, 42CFUG, 42FUG, 43AFUG, 43FUG, 44AFUG, 44FUG, 45AFUG, 45FUG, 46FUG, 47FUG, 50FUG, 81FUG, 90AFUG, 90BFUG, 90CFUG, 90FUG, 91BFUG, 91FUG, 96FUG, FUG			
GRP-HEAT1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	27BA1000, 28BA1200, 29BA1300, 41BA101, 41BA102, 81BA25	R1111-0	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-HEAT1	PROCESS HEATERS/FURNACES	27BA1000, 28BA1200, 41BA101, 41BA102, 81BA25	R7300-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRP-HEAT1	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	27BA1000, 28BA1200, 41BA101, 41BA102, 81BA25	60Ja-2	40 CFR Part 60, Subpart Ja	No changing attributes.
GRP-HEAT1	PROCESS HEATERS/FURNACES	27BA1000, 28BA1200, 41BA101, 41BA102, 81BA25	60DDDDD-1	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-HEATER	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	40BA1001, 40BA1002, 40BA1101	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-HEATER	PROCESS HEATERS/FURNACES	40BA1001, 40BA1002, 40BA1101	R2112-001	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
GRP-HEATER	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	40BA1001, 40BA1002, 40BA1101	R5725-001	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
GRP-HEATER	PROCESS HEATERS/FURNACES	40BA1001, 40BA1002, 40BA1101	R7300-2NG	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRP-HEATER	FCCU CAT REGEN/FUEL GAS COMBUSTION/CLAUS SRU	40BA1001, 40BA1002, 40BA1101	60Ja-2	40 CFR Part 60, Subpart Ja	No changing attributes.
GRP-HEATER	PROCESS HEATERS/FURNACES	40BA1001, 40BA1002, 40BA1101	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
GRP-LABVENT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	92EF1A, 92EF1B, 92EF1C, 92EF2, 92EF3, 92EF4, 92EF5	R1111-3	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-LABVENT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	92EF1A, 92EF1B, 92EF1C, 92EF2, 92EF3, 92EF4, 92EF5	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-MARINE	LOADING/UNLOADING OPERATIONS	9130LOAD	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	Marine Terminal Exemptions = The marine terminal is claiming one or more of the exemptions in 30 TAC § 115.217(a)(5)(B)., Product Transferred = Volatile organic

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					compounds other than liquefied petroleum gas and gasoline., True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals., Chapter 115 Control Device Type = Vapor control system with a vapor combustor., Uncontrolled VOC Emissions = Uncontrolled VOC emissions are less than 100 tpy., VOC Flash Point = Flash point less than 150° F., Control Options = Vapor control system that maintains a control efficiency of at least 90%., Vapor Tight = Not all liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
GRP-MARINE	LOADING/UNLOADING OPERATIONS	9130LOAD	R5211-2	30 TAC Chapter 115, Loading and Unloading of VOC	Vapor Space Holding Tank = the gasoline terminal does not have a variable vapor space holding tank design that can process vapors independent of transport vessel loading or chooses compliance with 30 TAC 115.212(a)(4)(C)., Marine Terminal Exemptions = The marine terminal is claiming one or more of the exemptions in 30 TAC § 115.217(a)(5)(B)., Product

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline., True Vapor Pressure = True vapor pressure less than 0.5 psia., Chapter 115 Control Device Type = Vapor control system with a vapor combustor., Uncontrolled VOC Emissions = Uncontrolled VOC emissions are less than 100 tpy., VOC Flash Point = Flash point less than 150° F., Vapor Tight = Not all liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
GRP-MARINE	LOADING/UNLOADING OPERATIONS	9130LOAD	R5211-3	30 TAC Chapter 115, Loading and Unloading of VOC	Product Transferred = Liquefied petroleum gas (LPG), True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals., Control Options = Pressurized loading system.
GRP-MARINE	LOADING/UNLOADING OPERATIONS	9130LOAD	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-MARINE	LOADING/UNLOADING OPERATIONS	9130LOAD	63Y-1	40 CFR Part 63, Subpart Y	No changing attributes.
GRP-PRV	EMISSION POINTS/STATIONARY	90FB831, 90FB832, 90FB833, 90FB834,	R1111-3	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	VENTS/PROCESS VENTS	90FB835, 90FB844, 90FB845, 90FB847			
GRP-PRV	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	90FB831, 90FB832, 90FB833, 90FB834, 90FB835, 90FB844, 90FB845, 90FB847	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-REG1VENT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	17H01, 23BA302, 27ENG1, 27ENG2, 30GG1822, 30PU2991, 30PU2992, 30PU2993, 39CB2001, 42GG1730, 42GG1848, 42GG1849, 44BA3001, 44BA3002, 44BA3005, 46CB6301, 47GG1523, 50BF02, 50BF03, 50BF04, 81BF01, 81BF05, 81BF06, 81ENG1, 81GEN001, 81SKD5602, 81SKD5603, 90CB5601, 90GG2245, 96GENC20D6, 97GE2999, CCRGEN	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-REG1VENT	SRIC ENGINES	27ENG1, CCRGEN	R7300-1	30 TAC Chapter 117,	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
				Subchapter B	
GRP-REG1VENT	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	81BF05, 81BF06	R7300-3	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRP-REG1VENT	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	81BF05, 81BF06	60Dc-1	40 CFR Part 60, Subpart Dc	No changing attributes.
GRP-REG1VENT	SRIC ENGINES	27ENG1, CCRGEN	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
GRP-REG1VENT	SRIC ENGINES	27ENG1, CCRGEN	63ZZZZ-0	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-TK1	STORAGE TANKS/VESSELS	90FB722, 90FB723	R5112-2	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP-TK1	STORAGE TANKS/VESSELS	90FB722, 90FB723	60Kb-1	40 CFR Part 60, Subpart Kb	No changing attributes.
90FB213	STORAGE TANKS/VESSELS	N/A	R5117-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
90FB213	STORAGE TANKS/VESSELS	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-TK6	STORAGE TANKS/VESSELS	23FB4501V, 23FB4503V, 42FB2097V, 42FB2099V, 42FB2499, 42FB2699	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
91FB911	STORAGE TANKS/VESSELS	N/A	R5112-2	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
91FB911	STORAGE TANKS/VESSELS	N/A	63CC-1	40 CFR Part 63, Subpart CC	No changing attributes.
GRP-VENTLUBE	EMISSION	22VENT, 45AVENT,	R1111-3	30 TAC Chapter 111, Visible	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	POINTS/STATIONARY VENTS/PROCESS VENTS	45VENT, 46VENT		Emissions	
GRP-VENTLUBE	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	22VENT, 45AVENT, 45VENT, 46VENT	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
PROCVENT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-3	30 TAC Chapter 111, Visible Emissions	No changing attributes.
PROCVENT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
17H01	EU	R7300-7	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)
17H01	EU	R7300-7	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A)	CO emissions must not exceed 400 ppmv at 3.0% O	[G]§ 117.335(a)(1) § 117.335(a)(4)	§ 117.345(a) § 117.345(f)	§ 117.335(b) § 117.335(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)
					§ 117.310(c)(3) § 117.340(f)(1)	2, dry basis.	§ 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A)	§ 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	[G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)
17H01	EU	R7300-7	NH_3	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(2) § 117.310(c)(2)(A)	For process heaters that inject urea or ammonia into the exhaust stream for NO_x control, ammonia emissions	§ 117.335(a)(2) § 117.335(a)(4) § 117.335(b) § 117.335(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(11) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						must not exceed 10 ppmv at 3.0% O_2, dry.	§ 117.335(e) § 117.335(g) § 117.340(b)(1) § 117.340(b)(3) § 117.340(d) § 117.8000(b) § 117.8000(c) § 117.8000(c)(3) § 117.8000(c)(4) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8130 § 117.8130(3)		§ 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
17H01	EU	60Ja-3	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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 ** See Alternative Monitoring	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
17H01	EU	63DDDDD-1	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
22AVENT	EP	R1111-3	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	Visible emissions from any stationary vent shall not exceed an opacity of 20%	None	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)
						averaged over a six-minute period for any source on which construction was begun after January 31, 1972. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.			
22AVENT	EP	R5127-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
22EG400	EP	R1111-3	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	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. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not	None	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)
						capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.			
22EG400	EP	R5127-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
22FA225	EP	R1111-3	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	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. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None
22FA225	EP	R5127-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						requirements of § 115.121(a)(1).			
22FB748	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
22FB749	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
23BA301	EU	R7300-3	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
23BA301	EU	R7300-3	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b)	§ 117.345(a) § 117.345(f) § 117.345(f)(1)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B)	§ 117.345(f)(9)	[G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
23BA301	EU	60Ja-2	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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
23BA302	EU	R7300-2	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)		§ 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
23BA302	EU	R7300-2	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
23BA302	EU	60Ja-2	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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
23BA302	EU	63DDDDD -1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with	The permit holder shall comply with the applicable requirements of 40 CFR	The permit holder shall comply with the applicable	The permit holder shall comply with the applicable	The permit holder shall comply with the applicable reporting

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	Part 63, Subpart DDDDD	monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	requirements of 40 CFR Part 63, Subpart DDDDD
23BC201	EU	R7300-5	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							[G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)		
23BC201	EU	R7300-5	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8120 § 117.8120(1) § 117.8120(1)(A)		
23BC201	EU	60Ja-2	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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
27ENG2	EU	R7300-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(9)(E)(vi)(III) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) [G]§ 117.310(f) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(C) § 117.340(h) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8140(a) § 117.8140(a)(1)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) § 117.345(f)(3) § 117.345(f)(3)(B) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)		
27ENG2	EU	R7300-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B)	CO emissions must not exceed 3.0 g/hp-hr for stationary internal combustion engines.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(C) § 117.340(h) § 117.345(f)(3) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
27ENG2	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than	None	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)
					§ 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.			
27ENG2	EU	60IIII-1	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 75 KW but less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 - 2013 model year must comply with an NMHC+NOx emission limit of 4.0 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102.	None	None	None
27ENG2	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2011 model year and later must comply with a PM emission limit of 0.02 g/KW-	None	None	[G]§ 60.4214(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)
						hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.			
27ENG2	EU	63ZZZZ-0	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
29BA1300	EU	R7300-2	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						specified in § 117.9800 to comply with § 117.320.	§ 117.8000(c)(6) [G]§ 117.8000(d)		
29BA1300	EU	R7300-2	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
29BA1300	EU	60J-2	Hydrogen Sulfide	40 CFR Part 60, Subpart A	§ 60.1(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart A	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart A	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart A	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart A	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart A
29BA1300	EU	60Ja-2	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40	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

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					CFR Part 60, Subpart Ja				
30FL1	EU	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset 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
30FL1	EP	R5720-1	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(d) § 115.722(d)(1) § 115.722(d)(2) § 115.725(f)(1) § 115.725(f)(2) § 115.725(f)(3) § 115.725(f)(4) § 115.725(f)(5) § 115.725(f)(6) [G]§ 115.725(l)	All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare.	§ 115.725(f)(1) § 115.725(f)(2) § 115.725(f)(3) § 115.725(f)(4) § 115.725(f)(4)(B) § 115.725(f)(5) § 115.725(f)(6) [G]§ 115.725(l) § 115.725(n)	§ 115.726(d)(1) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) [G]§ 115.726(d)(6) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	§ 115.725(n)
30FL1	CD	60A-1	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None
30FL1	EU	60Ja-1	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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 ** See Alternative Monitoring	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

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
30FL1	CD	63A-0	112(B) HAPS	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
30FL6	EU	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset 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
30FL6	EP	R5720-1	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(d) § 115.722(d)(1) § 115.722(d)(2) [G]§ 115.725(d)(1) § 115.725(f)(1) § 115.725(f)(2) § 115.725(f)(3) § 115.725(f)(4) § 115.725(f)(5) § 115.725(f)(6) [G]§ 115.725(l)	All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare.	[G]§ 115.725(d)(1) § 115.725(f)(1) § 115.725(f)(2) § 115.725(f)(3) § 115.725(f)(4) § 115.725(f)(4)(A) § 115.725(f)(5) § 115.725(f)(6) [G]§ 115.725(l) § 115.725(n)	§ 115.726(d)(1) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) [G]§ 115.726(d)(6) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	§ 115.725(n)
30FL6	CD	60A-1	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None
30FL6	EU	60Ja-1	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) The permit holder shall comply with	The permit holder shall comply with the applicable requirements of 40 CFR	The permit holder shall comply with the applicable	The permit holder shall comply with the applicable	The permit holder shall comply with the applicable reporting

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Ja	Part 60, Subpart Ja	monitoring and testing requirements of 40 CFR Part 60, Subpart Ja ** See Alternative Monitoring	recordkeeping requirements of 40 CFR Part 60, Subpart Ja	requirements of 40 CFR Part 60, Subpart Ja
30FL6	CD	63A-0	112(B) HAPS	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
30GG1822	EU	R7300-0	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	None	§ 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
30GG1822	EU	63ZZZZ-0	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-	§ 63.6625(i) § 63.6655(d) § 63.6655(e) § 63.6655(f)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6660(a) § 63.6660(b) § 63.6660(c)	
39CB2001	EU	60JTGI-1	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
39CB2001	EU	63UUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUU
39FA1006	EU	60JSP-1B	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						zero percent excess air.			
39FA1006	EU	60JSP-1C	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
39FA1006	EU	63UUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUU
39FB1001	EU	60JSP-1B	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
39FB1001	EU	60JSP-1C	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.			
39FB1001	EU	63UUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUU
39LO1001	EU	60JSP-1B	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
39LO1001	EU	60JSP-1C	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
39LO1001	EU	63UUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUU
39RX2001	EU	R2SRU-1B	SO_2	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)
39RX2001	EU	R2SRU-1C	SO_2	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)
39RX2001	EU	60JSRU-1B	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
39RX2001	EU	60JSRU-1C	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.			
39RX2001	EU	63UUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUU
40CWT11	EU	63CC-6	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
42BC2001	EU	60Ja-3	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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
42BC2001	EU	63DDDDD -2	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder	The permit holder shall comply with the applicable	The permit holder shall comply with	The permit holder shall comply with the	The permit holder shall comply with the

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	requirements of 40 CFR Part 63, Subpart DDDDD	the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
42CB2201	EP	R1111-2	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E) § 111.111(a)(3)	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
42CB2201	EU	60J-3	SO_2	40 CFR Part 60, Subpart J	§ 60.104(b)(1) § 60.104(c) § 60.104(d)	For each affected fluid catalytic cracking unit catalyst regenerator with an add-on control device, reduce sulfur dioxide emissions to the atmosphere by 90 percent or maintain sulfur dioxide emissions to the atmosphere less than or equal to 50 ppm by volume, whichever is less stringent.	§ 60.105(a)(10) § 60.105(a)(11) [G]§ 60.105(a)(12) [G]§ 60.105(a)(13) [G]§ 60.105(a)(8) [G]§ 60.105(a)(9) § 60.106(a) § 60.106(g) [G]§ 60.106(h) [G]§ 60.106(k) § 60.108(a) § 60.108(c) § 60.108(d) § 60.108(e) ** See Alternative Monitoring	§ 60.105(a)(10) § 60.105(a)(11) [G]§ 60.105(a)(12) [G]§ 60.105(a)(13) [G]§ 60.105(a)(8) [G]§ 60.105(a)(9) [G]§ 60.107(b)(1) § 60.107(b)(4)	§ 60.107(a) § 60.107(c) [G]§ 60.107(c)(1) § 60.107(c)(2) [G]§ 60.107(c)(3) [G]§ 60.107(c)(4) § 60.107(d) § 60.107(f) § 60.107(g) § 60.108(e)
42CB2201	EU	60J-3	CO	40 CFR Part 60, Subpart J	§ 60.103(a) § 60.105(a)(2)	No owner or operator shall discharge or cause the discharge into the atmosphere from any fluid catalytic cracking unit catalyst regenerator any	§ 60.105(a)(2) § 60.105(a)(2)(i) § 60.106(a) § 60.106(d) ** See Alternative Monitoring	§ 60.105(a)(2) § 60.105(c)	§ 60.105(e)(2) § 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)
						gases that contain carbon monoxide (CO) in excess of 500 ppm by volume (dry basis).			
42CB2201	EU	60J-3	PM	40 CFR Part 60, Subpart J	§ 60.102(a)(1)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any fluid catalytic cracking unit catalyst regenerator particulate matter in excess of 1.0 kg/Mg (2.0 lb/ton) of coke burn-off in the catalyst regenerator.	§ 60.106(a) § 60.106(b) § 60.106(b)(1) § 60.106(b)(2) [G]§ 60.106(b)(3) ** See Alternative Monitoring	§ 60.105(c)	§ 60.107(f) § 60.107(g)
42CB2201	EU	60J-3	PM (Opacity)	40 CFR Part 60, Subpart J	§ 60.102(a)(2)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any fluid catalytic cracking unit catalyst regenerator gases exhibiting greater than 30 percent opacity, except for one six-minute average opacity reading in any one hour period.	§ 60.105(a)(1) § 60.106(a) § 60.106(b) § 60.106(b)(4) ** See Alternative Monitoring	§ 60.105(a)(1) § 60.105(c)	§ 60.105(e)(1) § 60.107(f) § 60.107(g)
42CB2201	EU	63UUU-3	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUU ** See Alternative Monitoring	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUU

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
42FB2802	EU	R5117-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
42FB2802	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
42GG1730	EU	R7300-0	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	None	§ 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
42GG1730	EU	63ZZZZ-0	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-	§ 63.6625(i) § 63.6655(d) § 63.6655(e) § 63.6655(f)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6660(a) § 63.6660(b) § 63.6660(c)	
44BA3001	EU	R7300-2	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
44BA3001	EU	R7300-2	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B)		§ 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
44BA3001	EU	60Ja-2	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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
44BA3001	EU	63DDDDD-1	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
44BA3002	EU	R7300-3	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3,	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)		§ 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
44BA3002	EU	R7300-3	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
44BA3002	EU	60Dc-1	SO_2	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
44BA3002	EU	60Dc-1	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed,	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3)	[G]§ 60.48c(a) § 60.48c(j)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).		§ 60.48c(i)	
44BA3002	EU	60Dc-1	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
44BA3002	EU	60Ja-2	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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
44BA3002	EU	63DDDDD -1	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
44BA3005	EU	R7300-2	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)		[G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
44BA3005	EU	R7300-2	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
44BA3005	EU	60Ja-2	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) The permit holder shall comply with the applicable limitation, standard and/or equipment	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Ja	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60,	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

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					specification requirements of 40 CFR Part 60, Subpart Ja		Subpart Ja		
44BA3005	EU	63DDDDD-1	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
45FB6001	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
45FB6002	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
45FB6360	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
45FB7401	EU	R5112-3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(3) § 115.112(e)(3)(A) §	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining	§ 115.115(a) § 115.115(a)(1) § 115.116(a)(1) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(A) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					115.112(e)(3)(A)(i) § 115.112(e)(3)(A)(ii)	working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.			
45FB7401	EU	60K-3	VOC	40 CFR Part 60, Subpart K	§ 60.112(a)(1)	Storage vessels holding petroleum liquids with a true vapor pressure of 78 mm Hg (1.5 psia) or greater but not greater than 570 mm Hg (11.1 psia) shall have a floating roof, a vapor recovery system, or their equivalents.	§ 60.113(a) § 60.113(b) ** See Periodic Monitoring Summary	§ 60.113(a)	None
45FB7402	EU	R5112-3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(3) § 115.112(e)(3)(A) § 115.112(e)(3)(A)(i) § 115.112(e)(3)(A)(ii)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.115(a) § 115.115(a)(1) § 115.116(a)(1) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(A) § 115.118(a)(5) § 115.118(a)(7)	None
45FB7402	EU	60Kb-3	VOC	40 CFR Part 60,	[G]§ 60.112b(a)(3)	Storage vessels specified in	[G]§ 60.113b(c)(1)	§ 60.115b	[G]§ 60.113b(c)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Subpart Kb		§60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).	§ 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary	[G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	§ 60.115b
45FB7403	EU	R5112-3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B) § 115.118(a)(3)
45FB7403	EU	60Kb-3	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)
45FB7403	EU	63CC-1	112(B)	40 CFR Part 63,	§ 63.640(a)	The permit holder shall	The permit holder	The permit holder shall	The permit holder shall

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
			HAPS	Subpart CC	The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	comply with the applicable requirements of 40 CFR Part 63, Subpart CC	shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
46AD6202	EU	60JSP-1B	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
46AD6202	EU	60JSP-1C	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
46AD6202	EU	63UUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and testing requirements	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUU

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							of 40 CFR Part 63, Subpart UUU	Part 63, Subpart UUU	
46BC6302	EU	60JSP-1B	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
46BC6302	EU	63UUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUU
46CB6301	EU	60JTGI-1	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
46CB6301	EU	63UUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and	The permit holder shall comply with the applicable recordkeeping	The permit holder shall comply with the applicable reporting requirements of 40 CFR

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							testing requirements of 40 CFR Part 63, Subpart UUU	requirements of 40 CFR Part 63, Subpart UUU	Part 63, Subpart UUU
46FB6301	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
46LO6201	EU	60JSP-1B	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
46LO6201	EU	60JSP-1C	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
46LO6201	EU	63UUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and	The permit holder shall comply with the applicable recordkeeping	The permit holder shall comply with the applicable reporting requirements of 40 CFR

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							testing requirements of 40 CFR Part 63, Subpart UUU	requirements of 40 CFR Part 63, Subpart UUU	Part 63, Subpart UUU
46RX6206	EU	R2SRU-1B	SO_2	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)
46RX6206	EU	R2SRU-1C	SO_2	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)
46RX6206	EU	60JSRU-1B	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)
46RX6206	EU	60JSRU-1C	SO_2	40 CFR Part 60, Subpart J	§ 60.104(a)(2)(i)	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any Claus sulfur recovery plant with a reduction control system followed by	[G]§ 60.105(a)(5) § 60.106(a) [G]§ 60.106(f)	[G]§ 60.105(a)(5)	§ 60.105(e)(4)(i) § 60.107(d) § 60.107(f) § 60.107(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						incineration any gases containing in excess of 250 ppm by volume of SO2 at zero percent excess air.			
46RX6206	EU	63UUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUU	§ 63.1560	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUU
47FA2	EU	R5117-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
47FB321	EU	R5112-8	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	[G]§ 115.117 ** See Periodic Monitoring Summary	§ 115.118(a)(5) § 115.118(a)(7)	None
47FB321	EU	60Kb-9	VOC	40 CFR Part 60, Subpart Kb	§ 60.110b(a)	Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d)	§ 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.116b(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						(19,800 gal) used to store VOLs for which construction/reconstruction/ modification began after 7/23/84.	§ 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)		
47FB321	EU	60QQQ-1	VOC	40 CFR Part 60, Subpart QQQ	§ 60.692-3(a) § 60.692-1(a) § 60.692-3(a)(1) § 60.692-3(a)(2) § 60.692-3(a)(3) § 60.692-3(a)(5) § 60.692-3(e) § 60.692-3(f) § 60.692-6(a) § 60.692-6(b) § 60.692-7(b)	Except as noted, each oil-water separator tank, slop oil tank, storage vessel, or other auxiliary equipment shall be equipped with fixed roof, meeting following specifications:	§ 60.692-3(a)(4) § 60.696(a)	§ 60.697(a) § 60.697(c) [G]§ 60.697(e) § 60.697(f)(1) [G]§ 60.697(f)(2)	§ 60.698(b)(1) § 60.698(e)
47FB321	EU	63GGGGG-1	112(B) HAPS	40 CFR Part 63, Subpart GGGGG	§ 63.7886(b)(1)(i) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart GGGGG
47FB323	EU	R5112-8	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil	[G]§ 115.117 ** See Periodic Monitoring Summary	§ 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.			
47FB323	EU	60Kb-9	VOC	40 CFR Part 60, Subpart Kb	§ 60.110b(a)	Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOLs for which construction/reconstruction/ modification began after 7/23/84.	§ 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.116b(d)
47FB323	EU	60QQQ-1	VOC	40 CFR Part 60, Subpart QQQ	§ 60.692-3(a) § 60.692-1(a) § 60.692-3(a)(1) § 60.692-3(a)(2) § 60.692-3(a)(3) § 60.692-3(a)(5) § 60.692-3(e) § 60.692-3(f) § 60.692-6(a) § 60.692-6(b) § 60.692-7(b)	Except as noted, each oil-water separator tank, slop oil tank, storage vessel, or other auxiliary equipment shall be equipped with fixed roof, meeting following specifications:	§ 60.692-3(a)(4) § 60.696(a)	§ 60.697(a) § 60.697(c) [G]§ 60.697(e) § 60.697(f)(1) [G]§ 60.697(f)(2)	§ 60.698(b)(1) § 60.698(e)
47FB323	EU	63GGGGG-1	112(B) HAPS	40 CFR Part 63, Subpart GGGGG	§ 63.7886(b)(1)(i) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart GGGGG
47FB503	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4)	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(7)	
47FB503	EU	R5132-1	VOC	30 TAC Chapter 115, Water Separation	§ 115.132(a)(2)	VOC water separator compartments must have a floating roof or internal-floating cover resting on the surface with closure seals. Gauging and sampling devices shall be vapor-tight except during use.	[G]§ 115.135(a) § 115.136(a)(3) § 115.136(a)(4) ** See Periodic Monitoring Summary	§ 115.136(a)(3) § 115.136(a)(4)	None
47FB503	EU	60Kb-1	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)	§ 60.115b [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)
							[G]§ 60.116b(e)(3)		
47FB504	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
47FB504	EU	R5132-1	VOC	30 TAC Chapter 115, Water Separation	§ 115.132(a)(2)	VOC water separator compartments must have a floating roof or internal-floating cover resting on the surface with closure seals. Gauging and sampling devices shall be vapor-tight except during use.	[G]§ 115.135(a) § 115.136(a)(3) § 115.136(a)(4) ** See Periodic Monitoring Summary	§ 115.136(a)(3) § 115.136(a)(4)	None
47FB504	EU	60Kb-1	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)	§ 60.115b [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)
							§ 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)		
47FB509	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
47FB509	EU	R5132-1	VOC	30 TAC Chapter 115, Water Separation	§ 115.132(a)(2)	VOC water separator compartments must have a floating roof or internal-floating cover resting on the surface with closure seals. Gauging and sampling devices shall be vapor-tight except during use.	[G]§ 115.135(a) § 115.136(a)(3) § 115.136(a)(4) ** See Periodic Monitoring Summary	§ 115.136(a)(3) § 115.136(a)(4)	None
47GF5401	EU	R5132-1	VOC	30 TAC Chapter 115, Water Separation	§ 115.132(a)(2)	VOC water separator compartments must have a floating roof or internal-floating cover resting on the surface with closure seals. Gauging and sampling devices shall be vapor-tight except during use.	[G]§ 115.135(a) § 115.136(a)(3) § 115.136(a)(4) ** See Periodic Monitoring Summary	§ 115.136(a)(3) § 115.136(a)(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
47GF5401	EU	60QQQ-1	VOC	40 CFR Part 60, Subpart QQQ	§ 60.693-2(a) § 60.692-1(a) § 60.692-6(a) § 60.692-6(b) § 60.692-7(b) § 60.693-2(a)(1) § 60.693-2(a)(1)(i) § 60.693-2(a)(1)(i)(B) § 60.693-2(a)(1)(i)(C) [G]§ 60.693-2(a)(1)(ii) § 60.693-2(a)(1)(iii) § 60.693-2(a)(1)(iv) § 60.693-2(a)(2) § 60.693-2(a)(3) § 60.693-2(a)(4) § 60.693-2(a)(5)(ii) § 60.693-2(c)	May elect to install a floating roof on an oil-water separator tank, slop oil tank or other auxiliary equipment subject to this subpart which meets the following specifications:	§ 60.693-2(a)(1)(iii)(A) § 60.693-2(a)(1)(iii)(B) § 60.693-2(a)(5)(i) § 60.696(a) [G]§ 60.696(d)	§ 60.697(a) § 60.697(c) [G]§ 60.697(e) § 60.697(f)(1) [G]§ 60.697(f)(2) [G]§ 60.697(k)	§ 60.693-2(b) § 60.698(a) § 60.698(b)(1) § 60.698(e)
47GF5401	EU	63GGGGG-1	112(B) HAPS	40 CFR Part 63, Subpart GGGGG	§ 63.7886(b)(1)(iv) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart GGGGG
47GG1523	EU	R7300-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(9)(D) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(C) § 117.340(h)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) § 117.345(f)(3) § 117.345(f)(3)(B) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 117.310(f) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)		§ 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
47GG1523	EU	R7300-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B)	CO emissions must not exceed 3.0 g/hp-hr for stationary internal combustion engines.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(C) § 117.340(h) § 117.345(f)(3) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							[G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)		
47GG1523	EU	63ZZZZ-0	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
50BF02	EU	R7300-6	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(A) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(1) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)		§ 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)
50BF02	EU	R7300-6	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1) § 117.8120	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120(1) § 117.8120(1)(A)		[G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)
50BF02	EU	R7300-6	NH_3	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(2) § 117.310(c)(2)(A)	For boilers that inject urea or ammonia into the exhaust stream for NO_x control, ammonia emissions must not exceed 10 ppmv at 3.0% O_2, dry.	§ 117.335(a)(2) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(b)(1) § 117.340(b)(3) § 117.340(d) § 117.8000(b) § 117.8000(c) § 117.8000(c)(3) § 117.8000(c)(4) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8130 § 117.8130(3)	§ 117.345(a) § 117.345(f) § 117.345(f)(11) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
50BF02	EU	60Db-1	SO_2	40 CFR Part 60, Subpart Db	§ 60.104(a)(1) § 60.104	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)(4)	§ 60.105(e) § 60.105(e)(3)(ii) § 60.107(e) § 60.107(f)
50BF02	EU	60Db-1	PM	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)
50BF02	EU	60Db-1	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)
50BF02	EU	60Db-1	NO_X	40 CFR Part 60, Subpart Db	§ 60.44b(l)(1) § 60.44b(h) § 60.44b(i) § 60.46b(a)	Affected facilities combusting coal, oil, or natural gas, or a mixture of these fuels, or any other fuels: a limit of 86 ng/JI (0.20 lb/million Btu) heat input unless the affected	§ 60.46b(c) § 60.46b(e) § 60.46b(e)(1) § 60.46b(e)(3) [G]§ 60.48b(b) § 60.48b(c) § 60.48b(d)	[G]§ 60.48b(b) § 60.48b(c) [G]§ 60.49b(d) [G]§ 60.49b(g) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b) § 60.49b(h) § 60.49b(i) § 60.49b(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)
						facility meets the specified requirements.	§ 60.48b(e) [G]§ 60.48b(e)(2) § 60.48b(e)(3) § 60.48b(f)		§ 60.49b(w)
50BF02	EU	60Ja-2	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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
50BF02	EU	63DDDDD-1	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
50BF03	EU	R7300-6	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(A) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(1) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)		§ 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)
50BF03	EU	R7300-6	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1) § 117.8120	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120(1) § 117.8120(1)(A)		[G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)
50BF03	EU	R7300-6	NH_3	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(2) § 117.310(c)(2)(A)	For boilers that inject urea or ammonia into the exhaust stream for NO_x control, ammonia emissions must not exceed 10 ppmv at 3.0% O_2, dry.	§ 117.335(a)(2) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(b)(1) § 117.340(b)(3) § 117.340(d) § 117.8000(b) § 117.8000(c) § 117.8000(c)(3) § 117.8000(c)(4) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8130 § 117.8130(3)	§ 117.345(a) § 117.345(f) § 117.345(f)(11) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
50BF03	EU	60Db-1	SO_2	40 CFR Part 60, Subpart Db	§ 60.104(a)(1) § 60.104	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)(4)	§ 60.105(e) § 60.105(e)(3)(ii) § 60.107(e) § 60.107(f)
50BF03	EU	60Db-1	PM	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)
50BF03	EU	60Db-1	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)
50BF03	EU	60Db-1	NO_X	40 CFR Part 60, Subpart Db	§ 60.44b(l)(1) § 60.44b(h) § 60.44b(i) § 60.46b(a)	Affected facilities combusting coal, oil, or natural gas, or a mixture of these fuels, or any other fuels: a limit of 86 ng/JI (0.20 lb/million Btu) heat input unless the affected	§ 60.46b(c) § 60.46b(e) § 60.46b(e)(1) § 60.46b(e)(3) [G]§ 60.48b(b) § 60.48b(c) § 60.48b(d)	[G]§ 60.48b(b) § 60.48b(c) [G]§ 60.49b(d) [G]§ 60.49b(g) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b) § 60.49b(h) § 60.49b(i) § 60.49b(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)
						facility meets the specified requirements.	§ 60.48b(e) [G]§ 60.48b(e)(2) § 60.48b(e)(3) § 60.48b(f)		§ 60.49b(w)
50BF03	EU	60Ja-2	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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
50BF03	EU	63DDDDD-1	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
50BF04	EU	R7300-6	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(A) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)		§ 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)
50BF04	EU	R7300-6	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1) § 117.8120	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120(1) § 117.8120(1)(A)		[G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)
50BF04	EU	R7300-6	NH_3	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(2) § 117.310(c)(2)(A)	For boilers that inject urea or ammonia into the exhaust stream for NO_x control, ammonia emissions must not exceed 10 ppmv at 3.0% O_2, dry.	§ 117.335(a)(2) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(b)(1) § 117.340(b)(3) § 117.340(d) § 117.8000(b) § 117.8000(c) § 117.8000(c)(3) § 117.8000(c)(4) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8130 § 117.8130(3)	§ 117.345(a) § 117.345(f) § 117.345(f)(11) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
50BF04	EU	60Db-1	SO_2	40 CFR Part 60, Subpart Db	§ 60.104(a)(1) § 60.104	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)(4)	§ 60.105(e) § 60.105(e)(3)(ii) § 60.107(e) § 60.107(f)
50BF04	EU	60Db-1	PM	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)
50BF04	EU	60Db-1	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)
50BF04	EU	60Db-1	NO_X	40 CFR Part 60, Subpart Db	§ 60.44b(l)(1) § 60.44b(h) § 60.44b(i) § 60.46b(a)	Affected facilities combusting coal, oil, or natural gas, or a mixture of these fuels, or any other fuels: a limit of 86 ng/JI (0.20 lb/million Btu) heat input unless the affected	§ 60.46b(c) § 60.46b(e) § 60.46b(e)(1) § 60.46b(e)(3) [G]§ 60.48b(b) § 60.48b(c) § 60.48b(d)	[G]§ 60.48b(b) § 60.48b(c) [G]§ 60.49b(d) [G]§ 60.49b(g) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b) § 60.49b(h) § 60.49b(i) § 60.49b(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)
						facility meets the specified requirements.	§ 60.48b(e) [G]§ 60.48b(e)(2) § 60.48b(e)(3) § 60.48b(f)		§ 60.49b(w)
50BF04	EU	63Ja-3	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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
5GCVS	EU	63GGGGG-1	112(B) HAPS	40 CFR Part 63, Subpart GGGGG	§ 63.7886(b)(1)(ii) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart GGGGG
5GFUG	EU	63GGGGG-1	112(B) HAPS	40 CFR Part 63, Subpart GGGGG	§ 63.7887 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart GGGGG
5GTRANSFER	EU	63GGGGG-1	112(B) HAPS	40 CFR Part 63, Subpart GGGGG	§ 63.7886(b)(1)(v) The permit holder shall comply with	The permit holder shall comply with the applicable requirements of 40 CFR	The permit holder shall comply with the applicable	The permit holder shall comply with the applicable	The permit holder shall comply with the applicable reporting

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart GGGGG	Part 63, Subpart GGGGG	monitoring and testing requirements of 40 CFR Part 63, Subpart GGGGG	recordkeeping requirements of 40 CFR Part 63, Subpart GGGGG	requirements of 40 CFR Part 63, Subpart GGGGG
81BF01	EU	R7300-6	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(A) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(1) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							[G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)		
81BF01	EU	R7300-6	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1) § 117.8120	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8120(1) § 117.8120(1)(A)		
81BF01	EU	R7300-6	NH_3	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(2) § 117.310(c)(2)(A)	For boilers that inject urea or ammonia into the exhaust stream for NO_x control, ammonia emissions must not exceed 10 ppmv at 3.0% O_2, dry.	§ 117.335(a)(2) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(b)(1) § 117.340(b)(3) § 117.340(d) § 117.8000(b) § 117.8000(c) § 117.8000(c)(3) § 117.8000(c)(4) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8130 § 117.8130(3)	§ 117.345(a) § 117.345(f) § 117.345(f)(11) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
81BF01	EU	60Db-1	SO_2	40 CFR Part 60, Subpart Db	§ 60.104(a)(1) § 60.104	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)(4)	§ 60.105(e) § 60.105(e)(3)(ii) § 60.107(e) § 60.107(f)
81BF01	EU	60Db-1	PM	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or	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)
						reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).			
81BF01	EU	60Db-1	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)
81BF01	EU	60Db-1	NO_X	40 CFR Part 60, Subpart Db	§ 60.44b(l)(1) § 60.44b(h) § 60.44b(i) § 60.46b(a)	Affected facilities combusting coal, oil, or natural gas, or a mixture of these fuels, or any other fuels: a limit of 86 ng/JI (0.20 lb/million Btu) heat input unless the affected facility meets the specified requirements.	§ 60.46b(c) § 60.46b(e) § 60.46b(e)(1) § 60.46b(e)(3) [G]§ 60.48b(b) § 60.48b(c) § 60.48b(d) § 60.48b(e) [G]§ 60.48b(e)(2) § 60.48b(e)(3) § 60.48b(f)	[G]§ 60.48b(b) § 60.48b(c) [G]§ 60.49b(d) [G]§ 60.49b(g) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b) § 60.49b(h) § 60.49b(i) § 60.49b(v) § 60.49b(w)
81BF01	EU	60Ja-2	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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
81BF01	EU	63DDDDD -1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with	The permit holder shall comply with the applicable requirements of 40 CFR	The permit holder shall comply with the applicable	The permit holder shall comply with the applicable	The permit holder shall comply with the applicable reporting

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	Part 63, Subpart DDDDD	monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	requirements of 40 CFR Part 63, Subpart DDDDD
81ENG1	EU	R7300-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(9)(E)(iv)(III) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) [G]§ 117.310(f) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(C) § 117.340(h) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) § 117.345(f)(3) § 117.345(f)(3)(B) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
81ENG1	EU	R7300-1	CO	30 TAC Chapter	§ 117.310(c)(1)	CO emissions must not	[G]§ 117.335(a)(1)	§ 117.345(a)	§ 117.335(b)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				117, Subchapter B	§ 117.310(c)(1)(B)	exceed 3.0 g/hp-hr for stationary internal combustion engines.	§ 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(C) § 117.340(h) § 117.345(f)(3) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)	§ 117.345(f) [G]§ 117.345(f)(10) § 117.345(f)(9)	§ 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
81ENG1	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 37 KW and less than 130 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 5.0 g/KW-	None	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)
						hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.			
81ENG1	EU	60IIII-1	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 37 KW but less than 56 KW and a displacement of less than 10 liters per cylinder and is a 2008 model year and later must comply with an NMHC+NOx emission limit of 4.7 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
81ENG1	EU	60IIII-1	PM (Opacity)	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.105(b)(1) § 1039.105(b)(2) § 1039.105(b)(3) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder and is not a constant-speed engine and is a 2007 model year and later must comply with the following opacity emission limits: 20% during the acceleration mode, 15% during the lugging mode, and 50% during the peaks in either the acceleration or lugging modes as stated in 40 CFR 60.4201(a)-(c) and 40 CFR 89.113(a)(1)-(3)	None	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)
						and 40 CFR 1039.105(b)(1)-(3).			
81ENG1	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 19 KW and less than 56 KW and a displacement of less than 10 liters per cylinder and is a 2008 - 2012 model year must comply with a PM emission limit of 0.30 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102.	None	None	None
81ENG1	EU	63ZZZZ-0	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
81GEN001	EU	R7300-0	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and	None	§ 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)			
81GEN001	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(a)-Table 1 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 8 KW and less than 19 KW and a displacement of less than 10 liters per cylinder and is a pre-2007 model year must comply with a CO emission limit of 6.6 g/KW-hr, as listed in Table 1 to this subpart.	None	None	[G]§ 60.4214(d)
81GEN001	EU	60IIII-1	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(a)-Table 1 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 8 KW and less than 37 KW and a displacement of less than 10 liters per cylinder and is a pre-2007 model year must comply with an NMHC+NOx	None	None	[G]§ 60.4214(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)
						emission limit of 9.5 g/KW-hr, as listed in Table 1 to this subpart.			
81GEN001	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(a)-Table 1 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 8 KW and less than 37 KW and a displacement of less than 10 liters per cylinder and is a pre-2007 model year must comply with a PM emission limit of 0.80 g/KW-hr, as listed in Table 1 to this subpart.	None	None	[G]§ 60.4214(d)
81GEN001	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
81SKD5602	EU	60Ja-2	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) The permit holder shall comply with the applicable limitation, standard	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	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Ja

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					and/or equipment specification requirements of 40 CFR Part 60, Subpart Ja		of 40 CFR Part 60, Subpart Ja	Part 60, Subpart Ja	
81SKD5602	EU	63GGGGG-1	112(B) HAPS	40 CFR Part 63, Subpart GGGGG	§ 63.7886(b)(1)(ii) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart GGGGG
81SKD5603	EU	60Ja-2	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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
81SKD5603	EU	63GGGGG-1	112(B) HAPS	40 CFR Part 63, Subpart GGGGG	§ 63.7886(b)(1)(ii) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart GGGGG	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart GGGGG
9058LOAD	EU	R5217-1	VOC	30 TAC Chapter 115, Loading and	§ 115.217(a)(1) § 115.214(a)(1)(B)	Vapor pressure (at land-based operations). All land-	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i)	§ 115.216 § 115.216(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Unloading of VOC	§ 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.215 § 115.215(4)	§ 115.216(3)(B)	
9059LOAD	EU	R5217-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(3) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Liquefied petroleum gas. All loading and unloading of liquefied petroleum gas is exempt from the requirements of this division, except for the specified requirements.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i)	§ 115.216 § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	None
90DOCK1	EU	REGV-LOAD1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(6)(A) § 115.212(a)(6)(B) [G]§ 115.212(a)(6)(C) § 115.212(a)(6)(D) [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(C) § 115.214(a)(3)(D) § 115.214(a)(3)(E)	Emissions shall not exceed 0.09lb/1,000gal loaded, or the vapor control system shall maintain a control efficiency of at least 90%, or a vapor balance system or pressurized loading may be used.	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.214(a)(3)(B)(ii) § 115.214(a)(3)(B)(iii) § 115.214(a)(3)(D) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(5) § 115.215(7) § 115.215(8) § 115.215(9) § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv)	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(D) § 115.216 § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv) § 115.216(2) [G]§ 115.216(4)	None
90DOCK1	EU	REGV-LOAD2	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(6)(A) § 115.212(a)(6)(B) [G]§ 115.212(a)(6)(C)	Emissions shall not exceed 0.09lb/1,000gal loaded, or the vapor control system shall maintain a control	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i)	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(D) § 115.216 § 115.216(1)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.212(a)(6)(D) [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(C) § 115.214(a)(3)(D) § 115.214(a)(3)(E)	efficiency of at least 90%, or a vapor balance system or pressurized loading may be used.	§ 115.214(a)(3)(B)(ii) § 115.214(a)(3)(B)(iii) § 115.214(a)(3)(D) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(5) § 115.215(7) § 115.215(8) § 115.215(9) § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv)	§ 115.216(1)(A) § 115.216(1)(A)(iv) § 115.216(2) [G]§ 115.216(4)	
90DOCK1	EU	REGV-LOAD3	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(5)(B) § 115.212(a)(6)(D) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(iii)	The marine vessel transfer operations specified in § 115.217(a)(5)(B)(i)-(iv) are exempt from the requirements of §§ 115.212(a), 115.214(a), and 115.216 of this title, except as noted.	§ 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2)	None
90DOCK1	EU	REGV-LOAD3	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(5)(B) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(i)	The marine vessel transfer operations specified in § 115.217(a)(5)(B)(i)-(iv) are exempt from the requirements of §§ 115.212(a), 115.214(a), and 115.216 of this title, except as noted.	§ 115.214(a)(3)(B) § 115.214(a)(3)(B)(i)	§ 115.216 § 115.216(2)	None
90DOCK1	EU	REGV-LOAD4	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(3) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Liquefied petroleum gas. All loading and unloading of liquefied petroleum gas is exempt from the requirements of this division,	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i)	§ 115.216 § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						except for the specified requirements.		§ 115.216(3)(B)	
90DOCK1	EU	REGV-LOAD4	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(5)(B) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(i)	The marine vessel transfer operations specified in § 115.217(a)(5)(B)(i)-(iv) are exempt from the requirements of §§ 115.212(a), 115.214(a), and 115.216 of this title, except as noted.	§ 115.214(a)(3)(B) § 115.214(a)(3)(B)(i)	§ 115.216 § 115.216(2)	None
90DOCK1	EU	MACTCC-LOAD1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
90DOCK1	EU	MACTY-LOAD1	Exempt	40 CFR Part 63, Subpart Y	§ 63.560(a)(2) § 153.282 § 63.560(a)(4)	Existing sources with emissions less than 10 and 25 tons must meet the submerged fill standards of 46 CFR 153.282. This submerged fill requirement does not apply to petroleum refineries.	§ 63.565(l)	§ 63.567(j)(4)	None
90DOCK1	EU	MACTY-LOAD2	Exempt	40 CFR Part 63, Subpart Y	§ 63.560(a)(2) § 153.282 § 63.560(a)(4)	Existing sources with emissions less than 10 and 25 tons must meet the submerged fill standards of 46 CFR 153.282. This submerged fill requirement does not apply to petroleum refineries.	§ 63.565(l)	§ 63.567(j)(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
90DOCK2	EU	REGV-LOAD3	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(5)(B) § 115.212(a)(6)(D) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(iii)	The marine vessel transfer operations specified in § 115.217(a)(5)(B)(i)-(iv) are exempt from the requirements of §§ 115.212(a), 115.214(a), and 115.216 of this title, except as noted.	§ 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2)	None
90DOCK2	EU	REGV-LOAD3	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(5)(B) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(i)	The marine vessel transfer operations specified in § 115.217(a)(5)(B)(i)-(iv) are exempt from the requirements of §§ 115.212(a), 115.214(a), and 115.216 of this title, except as noted.	§ 115.214(a)(3)(B) § 115.214(a)(3)(B)(i)	§ 115.216 § 115.216(2)	None
90FB735	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B) § 115.118(a)(3)
90FB735	EU	60Kb-1	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)	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	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b)	§ 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)
					§ 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)	§60.112b(a)(1)(i)-(ix).	§ 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)		
90FB735	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
90GG2245	EU	R7300-0	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	None	§ 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
90GG2245	EU	63ZZZZ-0	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i	§ 63.6625(i) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6640(a)-Table6.9.a.ii	§ 63.6660(b) § 63.6660(c)	
9155LOAD	EU	R5217-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
9157LOAD	EU	R5217-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
9160LOAD	EU	R5217-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
91FB922	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B) § 115.118(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.			
91FB922	EU	60Kb-1	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4)
91FB922	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
91FB924	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B) § 115.118(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.			
91FB924	EU	60Kb-1	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)
91FB924	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
91FB931	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.			
91FB931	EU	60Kb-1	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)
91FB931	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
92FA4001	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(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)
				VOCs		storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.		§ 115.118(a)(7)	
92FA4002	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	[G]§ 115.117 ** See Periodic Monitoring Summary	§ 115.118(a)(5) § 115.118(a)(7)	None
96GENC20D6	EU	R7300-0	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified.	None	§ 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						§117.303(a)(11)(A)-(B)			
96GENC20D6	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(1)(ii) § 60.4202(a)(1)(ii)-Table 2 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 19 KW and less than 37 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 5.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(1)(i)-(ii) and 40 CFR 89.112(a) and Table 2 to this subpart.	None	None	[G]§ 60.4214(d)
96GENC20D6	EU	60IIII-1	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(1)(ii) § 60.4202(a)(1)(ii)-Table 2 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power less than 37 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NOx emission limit of 7.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(1)(i)-(ii) and 40 CFR 89.112(a) and Table 2 to this subpart.	None	None	[G]§ 60.4214(d)
96GENC20D6	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(1)(ii) § 60.4202(a)(1)(ii)-Table 2 § 60.4206 § 60.4207(b)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 19 KW and less	None	None	[G]§ 60.4214(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)
					[G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	than 37 KW and a displacement of less than 10 liters per cylinder and is a 2008 model year and later must comply with a PM emission limit of 0.30 g/KW-hr, as stated in 40 CFR 60.4202(a)(1)(ii) and Table 2 to this subpart.			
96GENC20D6	EU	63ZZZZ-0	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
97GE2999	EU	R7300-0	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a	None	§ 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)			
97GE2999	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(a)-Table 1 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and a displacement of less than 10 liters per cylinder and is a pre-2007 model year must comply with a CO emission limit of 11.4 g/KW-hr, as listed in Table 1 to this subpart.	None	None	[G]§ 60.4214(d)
97GE2999	EU	60IIII-1	Hydrocarbons	40 CFR Part 60, Subpart IIII	§ 60.4205(a)-Table 1 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and a displacement of less than 10 liters per cylinder and is a pre-2007 model year must comply with an HC emission limit of 1.3 g/KW-hr, as listed in Table 1 to this subpart.	None	None	[G]§ 60.4214(d)
97GE2999	EU	60IIII-1	NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(a)-Table 1 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 37 KW and a	None	None	[G]§ 60.4214(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)
					[G]§ 60.4211(f) § 60.4218	displacement of less than 10 liters per cylinder and is a pre-2007 model year must comply with a NOx emission limit of 9.2 g/KW-hr, as listed in Table 1 to this subpart.			
97GE2999	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(a)-Table 1 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and a displacement of less than 10 liters per cylinder and is a pre-2007 model year must comply with a PM emission limit of 0.54 g/KW-hr, as listed in Table 1 to this subpart.	None	None	None
97GE2999	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
DG-AGIT	EU	R5412-1	VOC	30 TAC Chapter 115, Degreasing	§ 115.412(1) § 115.411(1)	No person shall own or operate a system utilizing a	[G]§ 115.415(1) § 115.415(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)
				Processes	§ 115.411(2) [G]§ 115.412(1)(A) § 115.412(1)(C) § 115.412(1)(D) [G]§ 115.412(1)(F)	VOC for the cold solvent cleaning of objects without the controls listed in §115.412(1)(A)-(F), except as exempted in §115.411.	** See Periodic Monitoring Summary		
DG-AGIT2	EU	R5412-1	VOC	30 TAC Chapter 115, Degreasing Processes	§ 115.412(1) § 115.411(1) § 115.411(2) [G]§ 115.412(1)(A) § 115.412(1)(C) § 115.412(1)(D) [G]§ 115.412(1)(F)	No person shall own or operate a system utilizing a VOC for the cold solvent cleaning of objects without the controls listed in §115.412(1)(A)-(F), except as exempted in §115.411.	[G]§ 115.415(1) § 115.415(3) ** See Periodic Monitoring Summary	None	None
EJECTORS	EU	R5311	VOC	30 TAC Chapter 115, Unit Turn & Vac System-Pet Ref	§ 115.311(a)(1) § 115.312(a)(2) § 115.312(a)(2)(B)	No emission of VOC from steam ejector or mechanical vacuum pump in a petroleum refinery unless vent stream is burned in accordance with §115.312(a) of this title.	[G]§ 115.315(a) ** See Periodic Monitoring Summary	§ 115.316(a)(3) § 115.316(a)(4)	None
GRP-CWT	EU	R5760-1	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Cooling Towers	§ 115.761(c)(1) § 115.761(c)(3) § 115.764(a)(1) § 115.766(i)	HRVOC emissions at each site located in Harris County that is subject to this division or Division 1 of this subchapter must not exceed 1,200 pounds of HRVOCs per one-hour block period from any flare, vent, pressure relief valve, cooling tower, or any combination.	§ 115.764(a)(1) § 115.764(a)(3) [G]§ 115.764(a)(6) § 115.764(c)	§ 115.766(a)(1) § 115.766(a)(2) § 115.766(a)(3) § 115.766(a)(5) § 115.766(a)(6) § 115.766(c) [G]§ 115.766(g) [G]§ 115.766(h) § 115.766(i)(1)	§ 115.766(i)(2)
GRP-CWT	EU	63CC-6	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					CFR Part 63, Subpart CC				
GRP-DISTILL	EP	R5127-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-DISTILL	EP	R5127-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-ENG	EU	R7300-0	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	None	§ 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
GRP-ENG	EU	60IIII-1	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b)	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power	None	None	[G]§ 60.4214(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)
					[G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with an NMHC+NOx emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart.			
GRP-ENG	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart.	None	None	[G]§ 60.4214(d)
GRP-ENG	EU	63ZZZZ-0	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
GRP-ENGEMERG	EU	R7300-0	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division	None	§ 117.340(j) [G]§ 117.345(f)(10)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)		[G]§ 117.345(f)(6)	
GRP-ENGEMERG	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2008 model year or earlier must comply with a CO emission limit of 3.5 g/KW-hr, as listed in Table 4 to this subpart.	None	None	[G]§ 60.4214(d)
GRP-ENGEMERG	EU	60IIII-1	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f)	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a	None	None	[G]§ 60.4214(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)
					§ 60.4218	displacement of less than 30 liters per cylinder and is a 2008 model year or earlier must comply with an NMHC+NOx emission limit of 10.5 g/KW-hr, as listed in Table 4 to this subpart.			
GRP-ENGEMERG	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2008 model year or earlier must comply with a PM emission limit of 0.54 g/KW-hr, as listed in Table 4 to this subpart.	None	None	[G]§ 60.4214(d)
GRP-ENGEMERG	EU	63ZZZZ-0	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
GRP-FUG	EU	R5780-	Highly	30 TAC Chapter	§ 115.787(d)	All pumps that are equipped	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i)	[G]§ 115.782(c)(1)(B)(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)
		FUG	Reactive VOC	115, HRVOC Fugitive Emissions	§ 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.		[G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	§ 115.783(3)(C) [G]§ 115.786(c)
GRP-FUG	EU	R5780-FUG	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

Applicable Requirements Summary

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

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.		§ 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	
GRP-FUG	EU	R5780-FUG	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this	None	§ 115.786(e) § 115.786(g)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						title (relating to Record keeping Requirements).			
GRP-FUG	EU	R5352-FUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
GRP-FUG	EU	R5352-FUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
GRP-FUG	EU	R5352-FUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-FUG	EU	R5352-FUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
GRP-FUG	EU	R5352-FUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
GRP-FUG	EU	R5352-FUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
GRP-FUG	EU	R5352-FUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355 § 115.357(1)	§ 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	
GRP-FUG	EU	R5352-FUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
GRP-FUG	EU	R5352-FUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
GRP-FUG	EU	R5352-FUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.357(1)	§ 115.356(5)	
GRP-FUG	EU	R5352-FUG	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
GRP-FUG	EU	60GGG-FUG	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)
GRP-FUG	EU	60GGG-FUG	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)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.592(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 60.592(d)	[G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j) § 60.592(e)	
GRP-FUG	EU	60GGG-FUG	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)
GRP-FUG	EU	60GGG-FUG	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)
GRP-FUG	EU	60GGG-FUG	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)
GRP-FUG	EU	60GGG-FUG	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 pumps in heavy-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-FUG	EU	60GGG-FUG	VOC	40 CFR Part 60, Subpart GGG	§ 60.592(a) § 60.482-1(a)	Comply with the requirements in as stated in	[G]§ 60.482-10(f) § 60.482-10(i)	[G]§ 60.482-10(j) [G]§ 60.482-10(k)	§ 60.487(a) [G]§ 60.487(b)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-1(b) § 60.482-10(e) [G]§ 60.482-10(g) § 60.482-10(h) § 60.482-10(m)	§60.482-10 for closed-vent systems.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) § 60.592(d)	[G]§ 60.482-10(l) [G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 60.592(e)	[G]§ 60.487(c) § 60.487(e) § 60.592(e)
GRP-FUG	EU	60GGG-FUG	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 valves in heavy-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-FUG	EU	60GGG-FUG	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)
GRP-FUG	EU	60GGG-FUG	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-FUG	EU	60GGGa-FUG	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

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual 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-FUG	EU	63CC-FUG	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
GRP-HEAT1	EP	R1111-0	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
GRP-HEAT1	EU	R7300-2	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
GRP-HEAT1	EU	R7300-2	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b)	§ 117.345(a) § 117.345(f) § 117.345(f)(1)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B)	§ 117.345(f)(9)	[G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
GRP-HEAT1	EU	60Ja-2	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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
GRP-HEAT1	EU	60DDDDD-1	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-HEATER	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20%	[G]§ 111.111(a)(1)(F) ** See Periodic	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)
						averaged over a six minute period for any source on which construction was begun after January 31, 1972.	Monitoring Summary		
GRP-HEATER	EU	R2112-001	SO_2	30 TAC Chapter 112, Sulfur Compounds	§ 112.9(c) § 112.9(b)	No person shall use liquid fuel with a sulfur content greater than 0.3% by weight, or allow emissions of SO2 to exceed 150 ppmv, based on 20% excess air, averaged over a 3-hour period.	§ 112.2(a)	§ 112.2(c)	§ 112.2(b)
GRP-HEATER	EP	R5725-001	Highly Reactive VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(c)(1) § 115.722(c)(3) § 115.725(a)(2)(A) § 115.725(a)(2)(B) § 115.725(a)(2)(C) § 115.725(a)(2)(D) § 115.725(a)(3) [G]§ 115.725(a)(4) [G]§ 115.725(l) [G]§ 115.726(a)(2)	HRVOC emissions at each site located in Harris County that is subject to this division or Division 2 of this subchapter must not exceed 1,200 pounds of HRVOC per one-hour block period from any flare, vent, pressure relief valve, cooling tower, or any combination.	§ 115.725(a) § 115.725(a)(2)(A) § 115.725(a)(2)(B) § 115.725(a)(2)(C) § 115.725(a)(2)(D) § 115.725(a)(3) § 115.725(a)(3)(A) [G]§ 115.725(a)(4) § 115.725(a)(5) [G]§ 115.725(l) § 115.725(n)	§ 115.726(b)(1) § 115.726(b)(2) § 115.726(b)(3) [G]§ 115.726(g) [G]§ 115.726(h) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	[G]§ 115.725(a)(4) § 115.725(a)(5) § 115.725(n) [G]§ 115.726(a)(2)
GRP-HEATER	EU	R7300-2NG	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)		[G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
GRP-HEATER	EU	R7300-2NG	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
GRP-HEATER	EU	60Ja-2	§111 Pollutant	40 CFR Part 60, Subpart Ja	§ 60.100a(a) 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
GRP-HEATER	EU	63DDDDD-1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable	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	The permit holder shall comply with the applicable recordkeeping	The permit holder shall comply with the applicable reporting requirements of 40 CFR

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD		testing requirements of 40 CFR Part 63, Subpart DDDDD	requirements of 40 CFR Part 63, Subpart DDDDD	Part 63, Subpart DDDDD
GRP-LABVENT	EP	R1111-3	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	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. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None
GRP-LABVENT	EP	R5127-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-MARINE	EU	R5211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(5)(B) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i)	The marine vessel transfer operations specified in § 115.217(a)(5)(B)(i)-(iv) are exempt from the requirements of §§	§ 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.215 § 115.215(1) [G]§ 115.215(2)	§ 115.216 § 115.216(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.217(a)(5)(B)(ii)	115.212(a), 115.214(a), and 115.216 of this title, except as noted.			
GRP-MARINE	EU	R5211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(5)(B) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(i)	The marine vessel transfer operations specified in § 115.217(a)(5)(B)(i)-(iv) are exempt from the requirements of §§ 115.212(a), 115.214(a), and 115.216 of this title, except as noted.	§ 115.214(a)(3)(B) § 115.214(a)(3)(B)(i)	§ 115.216 § 115.216(2)	None
GRP-MARINE	EU	R5211-2	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(5)(B) § 115.212(a)(6)(D) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(iii)	The marine vessel transfer operations specified in § 115.217(a)(5)(B)(i)-(iv) are exempt from the requirements of §§ 115.212(a), 115.214(a), and 115.216 of this title, except as noted.	§ 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2)	None
GRP-MARINE	EU	R5211-2	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(5)(B) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(ii)	The marine vessel transfer operations specified in § 115.217(a)(5)(B)(i)-(iv) are exempt from the requirements of §§ 115.212(a), 115.214(a), and 115.216 of this title, except as noted.	§ 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.215 § 115.215(1) [G]§ 115.215(2)	§ 115.216 § 115.216(2)	None
GRP-MARINE	EU	R5211-2	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(5)(B) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(i)	The marine vessel transfer operations specified in § 115.217(a)(5)(B)(i)-(iv) are exempt from the requirements of §§ 115.212(a), 115.214(a), and 115.216 of this title, except as noted.	§ 115.214(a)(3)(B) § 115.214(a)(3)(B)(i)	§ 115.216 § 115.216(2)	None
GRP-	EU	R5211-3	VOC	30 TAC Chapter	§ 115.217(a)(3)	Liquefied petroleum gas. All	§ 115.214(a)(1)(A)	§ 115.216	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
MARINE				115, Loading and Unloading of VOC	§ 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	loading and unloading of liquefied petroleum gas is exempt from the requirements of this division, except for the specified requirements.	§ 115.214(a)(1)(A)(i)	§ 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	
GRP-MARINE	EU	R5211-3	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(5)(B) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(i)	The marine vessel transfer operations specified in § 115.217(a)(5)(B)(i)-(iv) are exempt from the requirements of §§ 115.212(a), 115.214(a), and 115.216 of this title, except as noted.	§ 115.214(a)(3)(B) § 115.214(a)(3)(B)(i)	§ 115.216 § 115.216(2)	None
GRP-MARINE	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
GRP-MARINE	EU	63Y-1	Exempt	40 CFR Part 63, Subpart Y	§ 63.560(a)(2) § 153.282 § 63.560(a)(4)	Existing sources with emissions less than 10 and 25 tons must meet the submerged fill standards of 46 CFR 153.282. This submerged fill requirement does not apply to petroleum refineries.	§ 63.565(l)	§ 63.567(j)(4)	None
GRP-PRV	EP	R1111-3	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on	None	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)
						which construction was begun after January 31, 1972. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.			
GRP-PRV	EP	R5127-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-REG1VENT	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRP-REG1VENT	EU	R7300-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(9)(E)(vi)(III) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(C) § 117.340(h)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) § 117.345(f)(3) § 117.345(f)(3)(B) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 117.310(e)(3) § 117.310(e)(4) [G]§ 117.310(f) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)		§ 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
GRP-REG1VENT	EU	R7300-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B)	CO emissions must not exceed 3.0 g/hp-hr for stationary internal combustion engines.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(C) § 117.340(h) § 117.345(f)(3) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							[G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)		
GRP-REG1VENT	EU	R7300-3	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(B) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)		
GRP-REG1VENT	EU	R7300-3	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1) § 117.8120	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(a)(6) § 117.8120(1) § 117.8120(1)(A)		
GRP-REG1VENT	EU	R7300-3	NH_3	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(2) § 117.310(c)(2)(A)	For boilers that inject urea or ammonia into the exhaust stream for NO_x control, ammonia emissions must not exceed 10 ppmv at 3.0% O_2, dry.	§ 117.335(a)(2) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(d) § 117.8000(b) § 117.8000(c) § 117.8000(c)(3) § 117.8000(c)(4) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8130 § 117.8130(3)	§ 117.345(a) § 117.345(f) § 117.345(f)(11) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
GRP-REG1VENT	EU	60Dc-1	SO_2	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
GRP-REG1VENT	EU	60Dc-1	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
GRP-REG1VENT	EU	60Dc-1	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						that has a maximum design heat input capacity of 2.9-29 megawatts (MW).			
GRP-REG1VENT	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
GRP-REG1VENT	EU	60IIII-1	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 75 KW but less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 - 2013 model year must comply with an NMHC+NOx emission limit of 4.0 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102.	None	None	None
GRP-REG1VENT	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than	None	None	[G]§ 60.4214(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)
					§ 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	or equal to 130 KW and less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2011 model year and later must comply with a PM emission limit of 0.02 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.			
GRP-REG1VENT	EU	63ZZZZ-0	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
GRP-TK1	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B) § 115.118(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.			
GRP-TK1	EU	60Kb-1	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)
90FB213	EU	R5117-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
90FB213	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
GRP-TK6	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						requirements of this division.			
91FB911	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(E) § 115.112(e)(2)(F) § 115.112(e)(2)(G) [G]§ 115.112(e)(2)(H) [G]§ 115.112(e)(2)(I) § 115.114(a)(2)(A) § 115.114(a)(4)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(2) § 115.114(a)(3) § 115.114(a)(4) § 115.114(a)(4)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(2)(B) § 115.114(a)(4)(B) § 115.118(a)(3)
91FB911	EU	63CC-1	112(B) HAPS	40 CFR Part 63, Subpart CC	§ 63.640(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart CC	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart CC
GRP-VENTLUBE	EP	R1111-3	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	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. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that	None	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)
						are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.			
GRP-VENTLUBE	EP	R5127-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
PROCVENT	EP	R1111-3	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	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. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None
PROCVENT	EP	R5127-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC)	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						< 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).			

Additional Monitoring Requirements

Compliance Assurance Monitoring Summary **164**

Periodic Monitoring Summary **172**

CAM Summary

Unit/Group/Process Information	
ID No.: 39RX2001	
Control Device ID No.: 46CB6301	Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R2SRU-1B
Pollutant: SO_2	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 1,200 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.: 39RX2001	
Control Device ID No.: 46CB6301	Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R2SRU-1B
Pollutant: SO_2	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: The maximum SO2 mass emission rate is 852 lb/hr, as calculated per equation in §112.7(a).	
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.: 39RX2001	
Control Device ID No.: 39CB2001	Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R2SRU-1C
Pollutant: SO_2	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 1,200 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.: 39RX2001	
Control Device ID No.: 39CB2001	Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R2SRU-1C
Pollutant: SO_2	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: The maximum SO2 mass emission rate is 677 lb/hr, as calculated per equation in §112.7(a).	
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.: 46RX6206	
Control Device ID No.: 46CB6301	Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R2SRU-1B
Pollutant: SO_2	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 1,200 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.: 46RX6206	
Control Device ID No.: 46CB6301	Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R2SRU-1B
Pollutant: SO_2	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: The maximum SO2 mass emission rate is 852 lb/hr, as calculated per equation in §112.7(a).	
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.: 46RX6206	
Control Device ID No.: 39CB2001	Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R2SRU-1C
Pollutant: SO_2	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 1,200 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.: 46RX6206	
Control Device ID No.: 39CB2001	Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R2SRU-1C
Pollutant: SO_2	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: The maximum SO2 mass emission rate is 677 lb/hr, as calculated per equation in §112.7(a).	
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.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 42CB2201	
Control Device ID No.: 42CB2201	Control Device Type: Wet Scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-2
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Liquid Supply Pressure	
Minimum Frequency: once per week	
Averaging Period: n/a	
Deviation Limit: 46.8 psig (quench/spray tower) and 100.9 psig (filtering modules)	
Periodic Monitoring Text: Measure and record the liquid supply pressure. The monitoring instrumentation shall be calibrated, maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 42CB2201	
Control Device ID No.: 42CB2201	Control Device Type: Wet Scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-2
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Liquid Flow Rate and Gas Flow Rate	
Minimum Frequency: once per week	
Averaging Period: n/a	
Deviation Limit: 59 gpm/Mscfm	
Periodic Monitoring Text: Measure and record the liquid flow rate and gas flow rate. The monitoring instrumentation shall be calibrated, maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 45FB7401	
Control Device ID No.: 46CB6301	Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart K	SOP Index No.: 60K-3
Pollutant: VOC	Main Standard: § 60.112(a)(1)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: Any temperature less than 1070 F	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 45FB7402	
Control Device ID No.: 46CB6301	Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-3
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: Any temperature less than 1070 F	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 45FB7402	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-3
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: VOC Concentration	
Minimum Frequency: Once per year	
Averaging Period: n/a	
Deviation Limit: Failure to measure and record fugitive emissions from the vapor collection system	
Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 45FB7402	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-3
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Once per year	
Averaging Period: n/a	
Deviation Limit: Failure to visually inspect all components of the vapor collection system for defects	
Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 47FB321	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-8
Pollutant: VOC	Main Standard: § 115.112(e)(1)
Monitoring Information	
Indicator: Structural Integrity of the Pipe	
Minimum Frequency: Emptied and degassed	
Averaging Period: n/a	
Deviation Limit: Non-repair of fill pipe which shows questionable structural integrity prior to refilling.	
Periodic Monitoring Text: Inspect to determine the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed to ensure that it continues to meet the specifications in the above requirement. If the structural integrity of the fill pipe is in question, repairs shall be made before the storage vessel is refilled. It shall be considered and reported as a deviation if the repairs are not completed prior to refilling the storage vessel.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 47FB321	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-8
Pollutant: VOC	Main Standard: § 115.112(e)(1)
Monitoring Information	
Indicator: Record of Tank Construction Specifications	
Minimum Frequency: n/a	
Averaging Period: n/a	
Deviation Limit: No record of tank construction specifications that show a fill pipe.	
Periodic Monitoring Text: Keep a record of tank construction specifications (e.g. engineering drawings) that show a fill pipe that extends from the top of a tank to have a maximum clearance of six inches (15.2 centimeters) from the bottom or, when the tank is loaded from the side, a discharge opening entirely submerged when the pipe used to withdraw liquid from the tank can no longer withdraw liquid in normal operation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 47FB323	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-8
Pollutant: VOC	Main Standard: § 115.112(e)(1)
Monitoring Information	
Indicator: Structural Integrity of the Pipe	
Minimum Frequency: Emptied and degassed	
Averaging Period: n/a	
Deviation Limit: Non-repair of fill pipe which shows questionable structural integrity prior to refilling.	
Periodic Monitoring Text: Inspect to determine the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed to ensure that it continues to meet the specifications in the above requirement. If the structural integrity of the fill pipe is in question, repairs shall be made before the storage vessel is refilled. It shall be considered and reported as a deviation if the repairs are not completed prior to refilling the storage vessel.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 47FB323	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-8
Pollutant: VOC	Main Standard: § 115.112(e)(1)
Monitoring Information	
Indicator: Record of Tank Construction Specifications	
Minimum Frequency: n/a	
Averaging Period: n/a	
Deviation Limit: No record of tank construction specifications that show a fill pipe.	
Periodic Monitoring Text: Keep a record of tank construction specifications (e.g. engineering drawings) that show a fill pipe that extends from the top of a tank to have a maximum clearance of six inches (15.2 centimeters) from the bottom or, when the tank is loaded from the side, a discharge opening entirely submerged when the pipe used to withdraw liquid from the tank can no longer withdraw liquid in normal operation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 47FB503	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Water Separation	SOP Index No.: R5132-1
Pollutant: VOC	Main Standard: § 115.132(a)(2)
Monitoring Information	
Indicator: External Floating Roof	
Minimum Frequency: annually	
Averaging Period: N/A	
Deviation Limit: Roof not floating on surface of VOC, liquid accumulation on roof, detached seals, or holes/tears in seals	
Periodic Monitoring Text: Visually inspect and record the inspection of the external floating roof to ensure: the roof is floating on the surface of the VOC and not on the leg supports, liquid has not accumulated on the external floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. If there is any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the external floating roof, the seals are detached, or if there are holes or tears in the seal fabric, the owner or operator shall repair the items or remove the equipment from service within 45 days. If the equipment cannot be removed from service within 45 days, a 30-day extension may be requested from the Executive Director. Failure to repair the items or to remove the equipment from service within the specified time period shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 47FB504	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Water Separation	SOP Index No.: R5132-1
Pollutant: VOC	Main Standard: § 115.132(a)(2)
Monitoring Information	
Indicator: External Floating Roof	
Minimum Frequency: annually	
Averaging Period: N/A	
Deviation Limit: Roof not floating on surface of VOC, liquid accumulation on roof, detached seals, or holes/tears in seals	
Periodic Monitoring Text: Visually inspect and record the inspection of the external floating roof to ensure: the roof is floating on the surface of the VOC and not on the leg supports, liquid has not accumulated on the external floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. If there is any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the external floating roof, the seals are detached, or if there are holes or tears in the seal fabric, the owner or operator shall repair the items or remove the equipment from service within 45 days. If the equipment cannot be removed from service within 45 days, a 30-day extension may be requested from the Executive Director. Failure to repair the items or to remove the equipment from service within the specified time period shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 47FB509	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Water Separation	SOP Index No.: R5132-1
Pollutant: VOC	Main Standard: § 115.132(a)(2)
Monitoring Information	
Indicator: External Floating Roof	
Minimum Frequency: annually	
Averaging Period: N/A	
Deviation Limit: Roof not floating on surface of VOC, liquid accumulation on roof, detached seals, or holes/tears in seals	
Periodic Monitoring Text: Visually inspect and record the inspection of the external floating roof to ensure: the roof is floating on the surface of the VOC and not on the leg supports, liquid has not accumulated on the external floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. If there is any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the external floating roof, the seals are detached, or if there are holes or tears in the seal fabric, the owner or operator shall repair the items or remove the equipment from service within 45 days. If the equipment cannot be removed from service within 45 days, a 30-day extension may be requested from the Executive Director. Failure to repair the items or to remove the equipment from service within the specified time period shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 47GF5401	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Water Separation	SOP Index No.: R5132-1
Pollutant: VOC	Main Standard: § 115.132(a)(2)
Monitoring Information	
Indicator: External Floating Roof	
Minimum Frequency: annually	
Averaging Period: N/A	
Deviation Limit: Roof not floating on surface of VOC, liquid accumulation on roof, detached seals, or holes/tears in seals	
Periodic Monitoring Text: Visually inspect and record the inspection of the external floating roof to ensure: the roof is floating on the surface of the VOC and not on the leg supports, liquid has not accumulated on the external floating roof, the seals are not detached, and there are no holes or tears in the seal fabric. If there is any monitoring data in which the roof is not floating on the surface of the VOC, if liquid has accumulated on the external floating roof, the seals are detached, or if there are holes or tears in the seal fabric, the owner or operator shall repair the items or remove the equipment from service within 45 days. If the equipment cannot be removed from service within 45 days, a 30-day extension may be requested from the Executive Director. Failure to repair the items or to remove the equipment from service within the specified time period shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 92FA4002	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-1
Pollutant: VOC	Main Standard: § 115.112(e)(1)
Monitoring Information	
Indicator: Structural Integrity of the Pipe	
Minimum Frequency: Emptied and degassed	
Averaging Period: n/a	
Deviation Limit: Non-repair of fill pipe which shows questionable structural integrity prior to refilling	
Periodic Monitoring Text: Inspect to determine the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed to ensure that it continues to meet the specifications in the above requirement. If the structural integrity of the fill pipe is in question, repairs shall be made before the storage vessel is refilled. It shall be considered and reported as a deviation if the repairs are not completed prior to refilling the storage vessel.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 92FA4002	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-1
Pollutant: VOC	Main Standard: § 115.112(e)(1)
Monitoring Information	
Indicator: Record of Tank Construction Specifications	
Minimum Frequency: n/a	
Averaging Period: n/a	
Deviation Limit: No record of tank construction specifications that show a fill pipe	
Periodic Monitoring Text: Keep a record of tank construction specifications (e.g. engineering drawings) that show a fill pipe that extends from the top of a tank to have a maximum clearance of six inches (15.2 centimeters) from the bottom or, when the tank is loaded from the side, a discharge opening entirely submerged when the pipe used to withdraw liquid from the tank can no longer withdraw liquid in normal operation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: DG-AGIT	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Degreasing Processes	SOP Index No.: R5412-1
Pollutant: VOC	Main Standard: § 115.412(1)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Monthly	
Averaging Period: n/a	
Deviation Limit: Monitoring results that indicate non-compliance with any applicable requirements in § 115.412(1)(A)-(F)	
Periodic Monitoring Text: Inspect equipment and record data monthly to ensure compliance with any applicable requirements in § 115.412(1)(A)-(F). Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of § 115.412(1)(A)-(F) shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: DG-AGIT2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Degreasing Processes	SOP Index No.: R5412-1
Pollutant: VOC	Main Standard: § 115.412(1)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Monthly	
Averaging Period: n/a	
Deviation Limit: Monitoring results that indicate non-compliance with any applicable requirements in § 115.412(1)(A)-(F)	
Periodic Monitoring Text: Inspect equipment and record data monthly to ensure compliance with any applicable requirements in § 115.412(1)(A)-(F). Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of § 115.412(1)(A)-(F) shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: EJECTORS	
Control Device ID No.: 30FL1	Control Device Type: Flare
Control Device ID No.: 30FL2	Control Device Type: Flare
Control Device ID No.: 30FL5	Control Device Type: Flare
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Unit Turn & Vac System-Pet Ref	SOP Index No.: R5311
Pollutant: VOC	Main Standard: § 115.311(a)(1)
Monitoring Information	
Indicator: Pilot Flame	
Minimum Frequency: Once per hour	
Averaging Period: n/a	
Deviation Limit: Monitoring data that indicates the lack of a pilot flame	
Periodic Monitoring Text: Measure and record the presence of the pilot flame or maintain records of alarm events and duration of alarm events. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data which indicates the lack of a pilot flame shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-HEAT1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-0
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: n/a	
Deviation Limit: 30% Opacity	
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-HEATER	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: n/a	
Deviation Limit: 20% Opacity	
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-REG1VENT	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: n/a	
Deviation Limit: 20% Opacity	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Permit Shield

Permit Shield **195**

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		
22AVENT	N/A	40 CFR Part 63, Subpart CC	Process vents do not contain greater than 20 ppmv organic HAP.
22CO517	N/A	40 CFR Part 60, Subpart GGG	The Alky Unit Kellogg Compressor was originally constructed prior to January 4, 1983. It is an affected facility constructed prior to the applicability date of NSPS GGG.
22CO517	N/A	40 CFR Part 63, Subpart CC	Does not meet the definition of a miscellaneous process vent because it is not periodically or continuously discharged during normal operation.
22FA225	N/A	40 CFR Part 63, Subpart CC	Process vents do not contain greater than 20 ppmv organic HAP.
22FB747	N/A	30 TAC Chapter 115, Storage of VOCs	Tank stores other than crude oil, condensate, or VOC.
22FB747	N/A	40 CFR Part 60, Subpart Kb	Stored product other than volatile organic liquid or petroleum liquid
22FB747	N/A	40 CFR Part 63, Subpart CC	Tank does not store one or more of the hazardous air pollutants listed in table 1 of this subpart.
22FB748	N/A	40 CFR Part 60, Subpart Kb	Vessel stores a VOL with a maximum true vapor pressure less than 0.5 psia.
22FB749	N/A	40 CFR Part 60, Subpart Kb	Tank does not store VOL.
22SKD4202	N/A	30 TAC Chapter 117, Subchapter B	Equipment is a thermal oxidizer (incinerator) rated at less than 40 MMBtu/hr.
30GG1822	N/A	40 CFR Part 60, Subpart J	Source does not burn fuel gas

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		
30LOAD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Refueling equipment is a motor vehicle dispensing facility as defined at 101.1(58).
30LOAD	N/A	40 CFR Part 60, Subpart XX	Refueling equipment does not deliver liquid product into gasoline tank trucks as defined by 60.501
30LOAD	N/A	40 CFR Part 61, Subpart BB	Refueling equipment does not load benzene.
30LOAD	N/A	40 CFR Part 63, Subpart CC	Refueling equipment is not a gasoline loading rack by definition.
30LOAD	N/A	40 CFR Part 63, Subpart F	Refueling equipment is not a “loading rack” associated with a chemical manufacturing process.
30LOAD	N/A	40 CFR Part 63, Subpart G	Subpart G is not applicable because Subpart F is not applicable.
30LOAD	N/A	40 CFR Part 63, Subpart R	Refueling equipment is not a gasoline distribution facility.
30LOAD	N/A	40 CFR Part 63, Subpart Y	Refueling equipment is not a marine tank vessel loading operation.
39FB1001	N/A	30 TAC Chapter 115, Storage of VOCs	Tank does not store VOC.
39FB1001	N/A	40 CFR Part 60, Subpart Kb	Tank does not store VOL.
40CWT11	N/A	30 TAC Chapter 115, HRVOC Cooling Towers	Cooling tower heat exchange system does not have the potential to emit HRVOCs.
40CWT11	N/A	40 CFR Part 63, Subpart Q	Chromium compounds are not used in the cooling tower.
42EG7901	N/A	30 TAC Chapter 115, Vent Gas Controls	The vent stream does not contain any VOC

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		
42FA2099V	N/A	40 CFR Part 60, Subpart Kb	capacity < 10,600 gallons
42FA2099V	N/A	40 CFR Part 63, Subpart CC	Does not meet the definition of a storage vessel since the capacity is less than 40 cubic meters.
42FB2801	N/A	30 TAC Chapter 115, Storage of VOCs	Tank does not store volatile organic compounds as defined in 30 TAC §101.1(116).
42FB2801	N/A	40 CFR Part 60, Subpart Kb	Tank does not store VOL.
42FB2801	N/A	40 CFR Part 63, Subpart CC	Tank does not emit hazardous air pollutants.
42FB2802	N/A	40 CFR Part 60, Subpart K	capacity < 40,000 gallons
44BA3002	N/A	40 CFR Part 60, Subpart D	Unit is < 250MMBtu/hr.
44BA3002	N/A	40 CFR Part 60, Subpart Db	Not subject to NSPS Db since it was built prior to 6/19/84.
44CO1418	N/A	40 CFR Part 60, Subpart GGG	The ROSE Solvent Compressor was originally constructed in 1975 and was not modified as part of the ROSE Unit modification. Therefore, the compressor is not subject to NSPS GGG.
44FA3007	N/A	40 CFR Part 63, Subpart CC	Does not meet the definition of a miscellaneous process vent because the gas stream does not contain greater than 20 PPM organic HAPs by volume.
44FB3001	N/A	30 TAC Chapter 115, Storage of VOCs	Tank does not store VOC.
44FB3001	N/A	40 CFR Part 60, Subpart Kb	Tank does not store VOL.
45FB6001	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,813 gallons).

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
45FB6002	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,813 gallons).
45FB6360	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,813 gallons).
45FB7401	N/A	40 CFR Part 60, Subpart QQQ	Tank is subject to 60.112 of NSPS K.
45FB7401	N/A	40 CFR Part 63, Subpart CC	Group 2 wastewater streams are not required to comply with the requirements of 61.340 through 61.355 from the definition of Group 2 wastewater stream in 63.641.
45FB7402	N/A	40 CFR Part 60, Subpart QQQ	Tank is subject to 60.112b of NSPS Kb.
45FB7402	N/A	40 CFR Part 63, Subpart CC	Group 2 wastewater streams are not required to comply with the requirements of 61.340 through 61.355 from the definition of Group 2 wastewater stream in 63.641.
46BC6325	N/A	30 TAC Chapter 117, Commercial	Excluded as a burner for an SRU.
46BC6325	N/A	40 CFR Part 60, Subpart J	Not a fuel gas combustion device.
46FB6301	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,813 gallons).
47AD5409	N/A	30 TAC Chapter 115, Water Separation	Does not meet the definition of a VOC water separator.
47EC5401	N/A	30 TAC Chapter 115, HRVOC Cooling Towers	Cooling tower heat exchange system does not have the potential to emit HRVOCs.
47EC5401	N/A	40 CFR Part 63, Subpart CC	Cooling tower heat exchange system does not contact HAPs.

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		
47EC5401	N/A	40 CFR Part 63, Subpart Q	Chromium compounds are not used in the cooling tower.
47FA2	N/A	40 CFR Part 60, Subpart Kb	Vessel stores a VOL with a maximum true vapor pressure less than 0.5 psia.
47FA2	N/A	40 CFR Part 63, Subpart CC	Group 2 wastewater streams are not required to comply with the requirements of 61.340 through 61.355 from the definition of Group 2 wastewater stream in 63.641.
47FB321	N/A	40 CFR Part 60, Subpart Ka	capacity < 40,000 gallons
47FB503	N/A	40 CFR Part 60, Subpart QQQ	Storage vessels subject to any requirements under NSPS subpart K series are exempt from the requirements under NSPS subpart QQQ.
47FB503	N/A	40 CFR Part 63, Subpart CC	Group 2 wastewater streams are not required to comply with the requirements of 61.340 through 61.355 from the definition of Group 2 wastewater stream in 63.641.
47FB504	N/A	40 CFR Part 60, Subpart QQQ	Storage vessels subject to any requirements under NSPS Subpart K series are exempt from the requirements under NSPS QQQ.
47FB504	N/A	40 CFR Part 63, Subpart CC	Group 2 wastewater streams are not required to comply with the requirements of 61.340 through 61.355 from the definition of Group 2 wastewater stream in 63.641.
47FB509	N/A	40 CFR Part 60, Subpart Ka	Does not store petroleum liquids. Stores wastewater.
47FB509	N/A	40 CFR Part 60, Subpart QQQ	There has been no construction, modification,

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		
			or reconstruction after May 4, 1987.
47FB509	N/A	40 CFR Part 63, Subpart CC	Group 2 wastewater streams are not required to comply with the requirements of 61.340 through 61.355 from the definition of Group 2 wastewater stream in 63.641.
47GF5401	N/A	40 CFR Part 63, Subpart CC	Group 2 wastewater streams are not required to comply with the requirements of 61.340 through 61.355 from the definition of Group 2 wastewater stream in 63.641.
47GF5401	N/A	40 CFR Part 63, Subpart G	The API Separator does not receive wastewater from sources subject to MACT Subpart F.
47GG1523	N/A	40 CFR Part 60, Subpart J	Source does not burn fuel gas.
50FA6	N/A	30 TAC Chapter 115, Storage of VOCs	Tank does not store VOC
50FA6	N/A	40 CFR Part 60, Subpart Kb	Tank does not store volatile organic liquids (VOL).
50FA6	N/A	40 CFR Part 63, Subpart CC	Tank does not store HAPs
9058LOAD	N/A	40 CFR Part 63, Subpart CC	Not subject to the provisions of this subpart because the equipment does not contact one or more HAP in Table 1.
9059LOAD	N/A	40 CFR Part 63, Subpart CC	Not subject to the provisions of this subpart because the equipment does not contact one or more HAP in Table 1.
90FB735	N/A	40 CFR Part 60, Subpart QQQ	Storage vessels subject to any requirements under NSPS subpart K series are exempt from

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		
			the requirements under NSPS subpart QQQ.
9155LOAD	N/A	40 CFR Part 63, Subpart CC	Not subject to the provisions of this subpart because the equipment does not contact one or more HAP in Table 1.
9157LOAD	N/A	40 CFR Part 63, Subpart CC	Not subject to the provisions of this subpart because the equipment does not contact one or more HAP in Table 1.
9160LOAD	N/A	40 CFR Part 63, Subpart CC	Not subject to the provisions of this subpart because the equipment does not contact one or more HAP in Table 1.
91FB922	N/A	40 CFR Part 60, Subpart QQQ	Storage vessels subject to any requirements under NSPS subpart K series are exempt from the requirements under NSPS subpart QQQ.
91FB924	N/A	40 CFR Part 60, Subpart QQQ	Storage vessels subject to any requirements under NSPS subpart K series are exempt from the requirements under NSPS subpart QQQ.
92FA4001	N/A	40 CFR Part 60, Subpart Kb	capacity < 10,600 gallons
92FA4001	N/A	40 CFR Part 63, Subpart CC	Group 2 wastewater streams are not required to comply with the requirements of 61.340 through 61.355 from the definition of Group 2 wastewater stream in 63.641.
92FA4002	N/A	40 CFR Part 60, Subpart Kb	capacity < 10,600 gallons
92FA4002	N/A	40 CFR Part 63, Subpart CC	Does not meet the definition of a storage vessel since the capacity is less than 40 cubic meters.

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		
96FB500	N/A	30 TAC Chapter 115, Storage of VOCs	Located in BPA, DFW, El Paso, or HGA and in a motor vehicle fuel dispensing service and has a nominal capacity < 25,000 gallons.
96FB500	N/A	40 CFR Part 60, Subpart Kb	capacity < 10,600 gallons
96FB500	N/A	40 CFR Part 63, Subpart CC	Does not meet the definition of a storage vessel since the capacity is less than 40 cubic meters.
DG-AGIT	N/A	40 CFR Part 63, Subpart T	Is not a solvent cleaning machine that uses any solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, or chloroform, or any combination >5% weight as a cleaning and/or drying agent.
DG-AGIT2	N/A	40 CFR Part 63, Subpart T	Is not a solvent cleaning machine that uses any solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, or chloroform, or any combination >5% weight as a cleaning and/or drying agent.
DG-ALKY	N/A	30 TAC Chapter 115, Degreasing Processes	Remote reservoir cold cleaner with TVP <= 0.6 psia @ 100F with a drain area < 16 sq. inches and waste solvent is disposed of in enclosed containers.
DG-ALKY	N/A	40 CFR Part 63, Subpart T	Is not a solvent cleaning machine that uses any solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, or chloroform, or any combination >5% weight as

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		
			a cleaning and/or drying agent.
DG-SHOP	N/A	30 TAC Chapter 115, Degreasing Processes	Remote reservoir cold cleaner with TVP <= 0.6 psia @ 100F with a drain area < 16 sq. inches and waste solvent is disposed of in enclosed containers.
DG-SHOP	N/A	40 CFR Part 63, Subpart T	Is not a solvent cleaning machine that uses any solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, or chloroform, or any combination >5% weight as a cleaning and/or drying agent.
DG-UNIF	N/A	30 TAC Chapter 115, Degreasing Processes	Remote reservoir cold cleaner with TVP <= 0.6 psia @ 100F with a drain area < 16 sq. inches and waste solvent is disposed of in enclosed containers.
DG-UNIF	N/A	40 CFR Part 63, Subpart T	Is not a solvent cleaning machine that uses any solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, or chloroform, or any combination >5% weight as a cleaning and/or drying agent.
GRP-CWT	22CWT3, 23CWT7, 27CWT2, 32CWT12, 42CWT10, 44CWT9	40 CFR Part 63, Subpart Q	Cooling tower has not used chromium-based water treatment chemicals after 9/8/94.
GRP-HEAT1	27BA1000, 28BA1200, 29BA1300, 41BA101, 41BA102, 81BA25	40 CFR Part 63, Subpart CC	Does not meet the definition of a miscellaneous process vent because it is not periodically or continuously discharged during normal operation.

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		
GRP-HEATER	40BA1001, 40BA1002, 40BA1101	40 CFR Part 63, Subpart CC	Process vents do not contain greater than 20 ppmv organic HAP; hence, they are not MACT CC miscellaneous process vents.
GRP-MARINE	9130LOAD	40 CFR Part 60, Subpart XX	Marine terminal not subject to NSPS Subpart XX since it is not a bulk gasoline terminal which delivers liquid products into gasoline tank trucks.
GRP-MARINE	9130LOAD	40 CFR Part 61, Subpart BB	Marine terminal does not load benzene.
GRP-REG1VENT	81BF05, 81BF06	40 CFR Part 60, Subpart Ja	Fuel gas combusted in boiler is natural gas, which does not meet the definition of fuel gas at 40 CFR §60.101a.
GRP-SEP4	90CPI2001, 90CPI8301, 91CPI0301, 91CPI0401, 91CPI901	30 TAC Chapter 115, Water Separation	Any single or multiple compartment VOC water separator which is designed solely to capture stormwater, spills, or exterior surface cleanup waters is exempt from this div. (relating to Water Separation), provided that the separator is fully covered.
GRP-SEP4	90CPI2001, 90CPI8301, 91CPI0301, 91CPI0401, 91CPI901	40 CFR Part 60, Subpart QQQ	Manages storm water
GRP-SEP4	90CPI2001, 90CPI8301, 91CPI0301, 91CPI0401, 91CPI901	40 CFR Part 63, Subpart CC	Affected sources subject to this subpart does not include stormwater from segregated stormwater sewers.
GRP-TK1	90FB722, 90FB723	40 CFR Part 60, Subpart QQQ	Storage vessels subject to any requirements under NSPS subpart K series are exempt from the requirements under NSPS subpart 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		
GRP-TK1	90FB722, 90FB723	40 CFR Part 63, Subpart CC	Group 2 wastewater streams are not required to comply with the requirements of 61.340 through 61.355 from the definition of Group 2 wastewater stream in 63.641.
90FB213	N/A	40 CFR Part 60, Subpart K	Capacity > 65,000 gallons and constructed prior to 6/11/73.
GRP-TK4	27TANK2, 41TANK1, 42TANK1, 42TANK2, 42TANK3, 42TANK4, 42TANK5, 44FA3095, 44FA3099, 44FB3097, 44FB3098, 45FB7499V, 45TANK1, 46FA6299V, 47FA5412, 47FA5493, 47FA5494, 91FA9001, 91FA9002, 91FA9003	30 TAC Chapter 115, Storage of VOCs	Tank less than 1,000 gallons
GRP-TK4	27TANK2, 41TANK1, 42TANK1, 42TANK2, 42TANK3, 42TANK4, 42TANK5, 44FA3095, 44FA3099, 44FB3097, 44FB3098, 45FB7499V, 45TANK1, 46FA6299V, 47FA5412, 47FA5493, 47FA5494, 91FA9001, 91FA9002, 91FA9003	40 CFR Part 60, Subpart Kb	capacity < 10,600 gallons
GRP-TK4	27TANK2, 41TANK1, 42TANK1, 42TANK2, 42TANK3, 42TANK4,	40 CFR Part 63, Subpart CC	Does not meet the definition of a storage vessel since the capacity is less than 40 cubic meters.

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		
	42TANK5, 44FA3095, 44FA3099, 44FB3097, 44FB3098, 45FB7499V, 45TANK1, 46FA6299V, 47FA5412, 47FA5493, 47FA5494, 91FA9001, 91FA9002, 91FA9003		
GRP-TK6	23FB4501V, 23FB4503V, 42FB2097V, 42FB2099V, 42FB2499, 42FB2699	40 CFR Part 60, Subpart Kb	capacity < 10,600 gallons
GRP-TK6	23FB4501V, 23FB4503V, 42FB2097V, 42FB2099V, 42FB2499, 42FB2699	40 CFR Part 63, Subpart CC	Does not meet the definition of a storage vessel since the capacity is less than 40 cubic meters.
91FB911	N/A	40 CFR Part 60, Subpart K	Capacity > 65,000 gallons and constructed prior to 6/11/73.
GRP-VENTLUBE	22VENT, 45AVENT, 45VENT, 46VENT	40 CFR Part 63, Subpart CC	Process vents do not contain greater than 20 ppmv organic HAP.
GRP-VNT2	21FA103, 21FA18, 22CO2039, 22DA301, 22DA558, 22DA559, 22EA200A, 22EA200B, 22EA200C, 22EA202, 22EA4605, 22EA4606, 22FA201, 22FA202, 22FA223, 22FA300, 22FA301, 22FA302, 22FA4601, 22FA4602, 22PU1116, 22PU1526, 22PU1724, 22PU1725, 22PU1728, 22PU1729,	40 CFR Part 63, Subpart CC	Does not meet the definition of a miscellaneous process vent because it is not periodically or continuously discharged during normal operation.

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		
	22PU2040, 22PU2041, 22PU2042, 22PU2044, 22PU2045, 22PU2046, 22PU2048, 22PU2099, 22PU2099A, 22PU2113, 22PU2114, 22PU2115, 22PU2116, 22PU2117, 22PU2118, 22PU2119, 22PU500, 22PU501, 22PU803, 22PU862, 22RX225, 22RX226, 23CO2028, 23DA101, 23DA102, 23DA201, 23DA405, 23EA310, 23EC205A-J, 23FA101, 23FA102, 23FA201, 23FA405, 23FA406, 23FA650, 23FA652, 23FA653, 23FA655, 23FA656, 23FA658, 24EA2402A, 27DA1101, 27DA1102, 27FA001, 27FA002, 27FA003, 27FA004, 27FA1000, 27FA1001, 27FA1101, 27FA1102, 28FA1202, 29DA1300, 29FA1300, 41DA102, 41FA104, 42DA2001, 42DA2403, 42DA2404, 42DA2405, 42EA2401B, 42EA2410A, 42EA2410C, 42EA2411A, 42EA2411B, 42EA2412B, 42EA2413A, 42EA2413B, 42FA2001, 42FA2401, 42FA2402,		

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		
	42FA2403, 42FA2452AX, 42FA2452BX, 42RX2101, 43DA4501, 43DA4502, 43EA4503A, 43EA4503B, 43EA4503C, 43EA4503D, 43EA4504A, 43EA4504B, 44DA3001, 44DA3002, 44DA3003, 44DA3004, 44DA3010, 44DA3011, 44FA3001, 44FA3002, 44FA3004A, 44FA3004B, 44FA3005, 45DA3002, 45DA7401, 45FA6001, 45FA6003, 45FA6004, 45FA6006, 45FA6008, 45FA7403, 46FA6201, 46FA6202		
GRP-VNT6	21DA1104, 22DA107, 22DA1802	30 TAC Chapter 115, Vent Gas Controls	Does not meet the definition of vent as defined in 115.10
GRP-VNT6	21DA1104, 22DA107, 22DA1802	40 CFR Part 63, Subpart CC	Does not meet the definition of a miscellaneous process vent because it is not periodically or continuously discharged during normal operation.

New Source Review Authorization References

New Source Review Authorization References 210

New Source Review Authorization References by Emission Unit 212

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.: PSDTX767M2	Issuance Date: 01/18/2019
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 101541	Issuance Date: 04/12/2012
Authorization No.: 124424	Issuance Date: 05/13/2016
Authorization No.: 133453	Issuance Date: 07/23/2015
Authorization No.: 2501A	Issuance Date: 01/18/2019
Authorization No.: 88508	Issuance Date: 06/02/2009
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.122	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 03/14/1997
Number: 106.261	Version No./Date: 12/24/1998
Number: 106.261	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 12/24/1998
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 03/14/1997
Number: 106.264	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.412	Version No./Date: 03/14/1997
Number: 106.433	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 03/14/1997
Number: 106.454	Version No./Date: 07/08/1998
Number: 106.472	Version No./Date: 03/14/1997
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 03/14/1997
Number: 106.478	Version No./Date: 03/14/1997
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: 09/04/2000

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Number: 106.533	Version No./Date: 07/04/2004
Number: 5	Version No./Date: 09/12/1989
Number: 5	Version No./Date: 07/20/1992
Number: 6	Version No./Date: 05/12/1981
Number: 6	Version No./Date: 08/11/1989
Number: 6	Version No./Date: 09/12/1989
Number: 51	Version No./Date: 07/20/1992
Number: 51	Version No./Date: 04/05/1995
Number: 51	Version No./Date: 06/07/1996
Number: 53	Version No./Date: 10/04/1995
Number: 79	Version No./Date: 05/12/1981
Number: 86	Version No./Date: 08/30/1988
Number: 86	Version No./Date: 09/12/1989
Number: 86	Version No./Date: 05/04/1994
Number: 86	Version No./Date: 04/05/1995
Number: 86	Version No./Date: 06/07/1996
Number: 102	Version No./Date: 01/08/1980
Number: 111	Version No./Date: 09/12/1989
Number: 111	Version No./Date: 06/07/1996
Number: 118	Version No./Date: 09/12/1989

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
17H01	PROCESS HEATER	2501A, PSDTX767M2
21DA1104	DEPENTANIZER	2501A, PSDTX767M2
21FA103	41FA103 - COMPRESSOR KNOCKOUT DRUM	2501A, PSDTX767M2
21FA18	FLARE KNOCKOUT DRUM	2501A, PSDTX767M2
21FUG	ISOOCTENE UNIT FUGITIVES	106.261/11/01/2003
22AFUG	BHT FUGITIVES	106.261/11/01/2003
22AVENT	BHT CATALYST REGENERATION	2501A, PSDTX767M2
22BFUG	O2 GAS PLANT FUGITIVES	106.261/11/01/2003
22CO2039	REFRIGERATION COMPRESSOR	2501A, PSDTX767M2
22CO517	ALKY UNIT KELLOGG COMPRESSOR	2501A, PSDTX767M2
22CWT3	#3 COOLING TOWER	2501A, PSDTX767M2
22DA107	DEISOBUTANIZER	2501A, PSDTX767M2
22DA1802	DEBUTANIZER	2501A, PSDTX767M2
22DA301	VACUUM TOWER	2501A, PSDTX767M2
22DA558	BAUXITE TOWER, WEST	2501A, PSDTX767M2
22DA559	BAUXITE TOWER, EAST	2501A, PSDTX767M2
22EA200A	REFRIGERANT CONDENSER	2501A, PSDTX767M2
22EA200B	REFRIGERANT CONDENSER	2501A, PSDTX767M2
22EA200C	REFRIGERANT ACCUMULATOR	2501A, PSDTX767M2
22EA202	DEISOBUTANIZER REBOILER	2501A, PSDTX767M2
22EA4605	HYDROTREATER EFFLUENT COOLER	2501A, PSDTX767M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
22EA4606	HYDROTREATER RUN DOWN COOLER	2501A, PSDTX767M2
22EG400	BARGE LOADING SCRUBBER	101541
22FA201	COMPRESSOR DRY DRUM	2501A, PSDTX767M2
22FA202	COMPRESSOR CONDENSATE DRUM	2501A, PSDTX767M2
22FA223	ACID CATCH DRUM	2501A, PSDTX767M2
22FA225	ALKY UNIT BAUXITE TOWER WASHING	2501A, PSDTX767M2
22FA300	ACID SETTLER	2501A, PSDTX767M2
22FA301	STRATCO COMPRESSOR KNOCKOUT DRUM	2501A, PSDTX767M2
22FA302	REFRIGERANT ACCUMULATOR	2501A, PSDTX767M2
22FA4601	HIGH PRESSURE FLASH DRUM	2501A, PSDTX767M2
22FA4602	LP FLASH DRUM	2501A, PSDTX767M2
22FB747	STORAGE TANK 22FB747	2501A, PSDTX767M2
22FB748	STORAGE TANK 22FB748	2501A
22FB749	FRESH ACID TANK	2501A, PSDTX767M2
22FUG	ALKYLATION UNIT	106.261/11/01/2003
22PU1116	REACTOR EFFLUENT PUMP	2501A, PSDTX767M2
22PU1526	REACTOR EFFLUENT PUMP	2501A, PSDTX767M2
22PU1724	BHT CHARGE PUMP	2501A, PSDTX767M2
22PU1725	BHT CHARGE PUMP	2501A, PSDTX767M2
22PU1728	BHT RUNDOWN PUMP	2501A, PSDTX767M2
22PU1729	BHT RUNDOWN PUMP	2501A, PSDTX767M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
22PU2040	PROPANE PURGE PUMP	2501A, PSDTX767M2
22PU2041	EFFLUENT PUMP	2501A, PSDTX767M2
22PU2042	REFRIG. RECYCLE PUMP	2501A, PSDTX767M2
22PU2044	ACID CIRC. PUMP	2501A, PSDTX767M2
22PU2045	ISOBUTANE MAKEUP PUMP	2501A, PSDTX767M2
22PU2046	ALKY FEED PUMP	2501A, PSDTX767M2
22PU2048	ISOBUTANE RECYCLE BOOSTER PUMP	2501A, PSDTX767M2
22PU2099A	PROPANE PURGE PUMP	2501A, PSDTX767M2
22PU2099	PROPANE PURGE PUMP	2501A, PSDTX767M2
22PU2113	PROPANE PURGE PUMP	2501A, PSDTX767M2
22PU2114	EFFLUENT PUMP	2501A, PSDTX767M2
22PU2115	REFRIG. RECYCLE PUMP	2501A, PSDTX767M2
22PU2116	ACID CIRC. PUMP	2501A, PSDTX767M2
22PU2117	ACID CIRC. PUMP	2501A, PSDTX767M2
22PU2118	ALKY FEED PUMP	2501A, PSDTX767M2
22PU2119	ISOBUTANE RECYCLE BOOSTER PUMP	2501A, PSDTX767M2
22PU500	DEBUTANIZER REFLUX PUMPS	2501A, PSDTX767M2
22PU501	DEBUTANIZER REFLUX PUMPS	2501A, PSDTX767M2
22PU803	DEBUTANIZER OH PUMP	2501A, PSDTX767M2
22PU862	DEBUTANIZER OH PUMP	2501A, PSDTX767M2
22RX225	STRATCO REACTOR	2501A, PSDTX767M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
22RX226	STRATCO REACTOR	2501A, PSDTX767M2
22SKD4201	ACID VAPOR SCRUBBER	88508
22SKD4202	THERMAL OXIDIZER	88508
22VENT	ALKY UNIT LUBE OIL MIST SYSTEM VENTS	106.261/11/01/2003
23BA301	VACUUM TOWER FURNACE (WEST)	2501A, PSDTX767M2
23BA302	VACUUM TOWER HTR. (EAST)	2501A, PSDTX767M2
23BC201	ATMOS. TOWER FURNACE	2501A, PSDTX767M2
23CO2028	SAT. COMBO OFF GAS COMPRESSOR	111/09/12/1989
23CWT7	COOLING TOWER NO. 7	106.371/09/04/2000
23DA101	STABILIZER TOWER	2501A, PSDTX767M2
23DA102	DEBUTANIZER	2501A, PSDTX767M2
23DA201	ATMOSPHERIC TOWER	2501A, PSDTX767M2
23DA405	COMBO SOUR WATER STRIPPER	2501A, PSDTX767M2
23EA301	#3 VACUUM JET CONDENSER	2501A, PSDTX767M2
23EA310	#3 VACUUM JET CONDENSER	2501A, PSDTX767M2
23EC205A-J	FRACTIONATOR OH CONDENSER	2501A, PSDTX767M2
23FA101	STABILIZER OVERHEAD RECEIVER	2501A, PSDTX767M2
23FA102	DEBUTANIZER OVERHEAD ACCUMULATOR	2501A, PSDTX767M2
23FA201	ATMOSPHERIC TOWER OVERHEAD RECEIVER	2501A, PSDTX767M2
23FA206	VACUUM SEAL DRUM	2501A, PSDTX767M2
23FA405	COMBO SWS OVERHEAD ACCUMULATOR	2501A, PSDTX767M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
23FA406	COMBO SWS OIL/WATER ACCUMULATOR	2501A, PSDTX767M2
23FA650	SGC 1ST STAGE SUCTION DRUM	2501A, PSDTX767M2
23FA652	SAT. GAS COMPRESSOR 1ST STAGE DISCHARGE BOTTLE	2501A, PSDTX767M2
23FA653	SGC 2ND STAGE SUCTION	2501A, PSDTX767M2
23FA655	SAT. GAS COMPRESSOR 2ND STAGE DISCHARGE BOTTLE	2501A, PSDTX767M2
23FA656	SGC 3RD STAGE SUCTION	2501A, PSDTX767M2
23FA658	SAT. GAS COMPRESSOR 3RD STAGE DISCHARGE BOTTLE	2501A, PSDTX767M2
23FB4501V	DM 9942	106.472/03/14/1997
23FB4503V	EMBREAK 2W151	106.472/03/14/1997
23FUG	CRUDE UNIT FUGITIVES	106.261/11/01/2003
24EA2402A	HP RECEIVER TRIM COOLER	2501A, PSDTX767M2
27AFUG	“C” UNIFIER FUGITIVES	106.261/11/01/2003
27BA1000	C UNIFINER RX. FURNACE	2501A, PSDTX767M2
27CWT2	COOLING TOWER NO. 2	2501A, PSDTX767M2
27DA1101	STABILIZER	2501A, PSDTX767M2
27DA1102	RERUN TOWER	2501A, PSDTX767M2
27ENG1	PLATFORMER AIR COMPRESSOR ENGINE NO. 1	6/08/11/1989, 106.511/09/04/2000
27ENG2	PLATFORMER AIR COMPRESSOR ENGINE NO. 2	6/09/12/1989, 106.511/09/04/2000
27FA001	#1 COMPRESSOR KNOCKOUT POT	2501A, PSDTX767M2
27FA002	#2 COMPRESSOR KNOCKOUT POT	2501A, PSDTX767M2
27FA003	#3 COMPRESSOR KNOCKOUT POT	2501A, PSDTX767M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
27FA004	#4 COMPRESSOR KNOCKOUT POT	2501A, PSDTX767M2
27FA1000	HP PRODUCT SEPARATOR	2501A, PSDTX767M2
27FA1001	LP PRODUCT SEPARATOR	2501A, PSDTX767M2
27FA1101	PRODUCT SEPARATOR	2501A, PSDTX767M2
27FA1102	STABILIZER RECEIVER	2501A, PSDTX767M2
27FUG	PLATFORMER FUGITIVES	2501A, PSDTX767M2
27TANK2	NO. 2 OIL	106.472/03/14/1997
28BA1200	A UNIFINER RX. FURNACE	2501A, PSDTX767M2
28FA1202	A UNIFINER STRIPPER ACCUMULATOR	2501A, PSDTX767M2
28FUG	“A” UNIFIER FUGITIVES	106.261/11/01/2003
29BA1300	B UNIFINER RX. FURNACE	2501A, PSDTX767M2
29DA1300	B UNIFINER STRIPPER TOWER	2501A, PSDTX767M2
29FA1300	B UNIFINER STRIPPER RECEIVER	2501A, PSDTX767M2
29FUG	“B” UNIFIER FUGITIVES	106.261/11/01/2003
30FL1	MAIN REFINERY FLARE	2501A, PSDTX767M2
30FL6	ULSD FLARE	2501A, PSDTX767M2
30FUG	REFINERY FLARE AND FL GAS RECOVERY UNIT FUG	106.261/11/01/2003
30GG1822	CFU EMERGENCY GENERATOR	106.511/09/04/2000
30LOAD	PLANT GASOLINE REFUELING	106.473/03/14/1997
30PU2991	DIESEL FIRE WATER PUMP ENGINE 1	106.511/09/04/2000
30PU2992	DIESEL FIRE WATER PUMP ENGINE 2	106.511/09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
30PU2993	DIESEL FIRE WATER PUMP ENGINE 3	106.511/09/04/2000
32CWT12	COOLING TOWER NO. 12	124424
32FUG	ALKYLATION UNIT NO. 2 FUGITIVE COMPONENTS	124424
39CB2001	TAIL GAS INCINERATOR UNIT 39 SRU	2501A, 106.261/11/01/2003, PSDTX767M2
39FA1006	SRU C SULFUR COLLECTION HEADER	2501A, PSDTX767M2
39FB1001	SULFUR TANK 39FB1001	106.472/09/04/2000
39FUG	UNIT 39 SRU FUGITIVES	106.261/11/01/2003, 106.262/11/01/2003
39LO1001	SRU C SULFUR LOADING	2501A, PSDTX767M2
39RX2001	C TRAIN SRU	2501A, PSDTX767M2
40BA1001	LCO COMBINED FEED HEATER	2501A, PSDTX767M2
40BA1002	DIESEL COMBINED FEED HEATER	2501A, PSDTX767M2
40BA1101	PRODUCT FRACTIONATOR REBOILER HEATER	2501A, PSDTX767M2
40CWT11	#11 COOLING TOWER	2501A, PSDTX767M2
40DA1101	H2S STRIPPER	2501A, PSDTX767M2
40DA1102	PRODUCT FRACTIONATOR	2501A, PSDTX767M2
40DA1103	HEAVY NAPHTHA STRIPPER	2501A, PSDTX767M2
40DA1201	DEETHANIZER	2501A, PSDTX767M2
40DA1202	SPONGE OIL ABSORBER	2501A, PSDTX767M2
40DA1203	DEBUTANIZER	2501A, PSDTX767M2
40DA1204	DEPROPANIZER	2501A, PSDTX767M2
40DA1205	DEISOBUTANIZER	2501A, PSDTX767M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
40DA1206	FUEL GAS AMINE ABSORBER	2501A, PSDTX767M2
40DA1207	LIQUID AMINE ABSORBER	2501A, PSDTX767M2
40FUG	ULSD UNIT FUGITIVES	106.261/11/01/2003
41BA101	D UNIFINER RX. FURNACE	2501A, PSDTX767M2
41BA102	D UNIFINER REBOILER	2501A, PSDTX767M2
41DA102	RERUN TOWER	2501A, PSDTX767M2
41FA104	41FA104 - COMPRESSOR KNOCKOUT DRUM	2501A, PSDTX767M2
41FUG	“D” UNIFIER FUGITIVES	106.261/11/01/2003
41TANK1	SS-99	106.472/03/14/1997
42AFUG	FCC UNIT FUGITIVES	106.261/11/01/2003
42BC2001	PEABODY AIR HEATER	2501A, PSDTX767M2
42BFUG	FCC CAT CON UNIT FUGITIVES	106.261/11/01/2003
42CB2201	FCC REGENERATOR	2501A, PSDTX767M2
42CFUG	FCC DEPENTANIZER UNIT FUGITIVES	106.261/11/01/2003
42CWT10	#10 COOLING TOWER	2501A, PSDTX767M2
42DA2001	MAIN COLUMN	2501A, PSDTX767M2
42DA2403	GASOLINE STRIPPER	2501A, PSDTX767M2
42DA2404	DEBUTANIZER	2501A, PSDTX767M2
42DA2405	DEPENTANIZER	2501A, PSDTX767M2
42EA2401B	INTERSTAGE COOLER	2501A, PSDTX767M2
42EA2410A	DEBUTANIZER OH CONDENSER	2501A, PSDTX767M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
42EA2410C	DEBUTANIZER OH CONDENSER	2501A, PSDTX767M2
42EA2411A	DEBUTANIZER REBOILER	2501A, PSDTX767M2
42EA2411B	DEBUTANIZER REBOILER	2501A, PSDTX767M2
42EA2412B	GAS PRODUCTS TRIM COOLER	2501A, PSDTX767M2
42EA2413A	S INTERSTAGE COOLER	2501A, PSDTX767M2
42EA2413B	S INTERSTAGE COOLER	2501A, PSDTX767M2
42EG7901	DEAERATOR	2501A, PSDTX767M2
42FA2001	MAIN COLUMN OVERHEAD ACCUMULATOR	2501A, PSDTX767M2
42FA2099V	DEGREASER STORAGE	106.472/03/14/1997
42FA2401	WGC 1ST STAGE SUCTION DRUM	2501A, PSDTX767M2
42FA2402	WGC INTERSTAGE DRUM	2501A, PSDTX767M2
42FA2403	WGC HIGH STAGE DRUM	2501A, PSDTX767M2
42FA2452AX	SEAL OIL TRAP	2501A, PSDTX767M2
42FA2452BX	SEAL OIL TRAP	2501A, PSDTX767M2
42FB2097V	STABILIZER STORAGE	51/07/20/1992
42FB2099V	NICKEL PASSIVATOR STORAGE	51/07/20/1992
42FB2499	COMPRESSOR INHIBITOR	51/07/20/1992
42FB2699	DEMULSIFIER STORAGE	51/07/20/1992
42FB2801	STORAGE TANK 42FB2801	106.472/09/04/2000
42FB2802	CORROSION INHIBITOR	2501A, PSDTX767M2
42FUG	FCC CAT GAS UNIT FUGITIVES	2501A, 106.261/11/01/2003, PSDTX767M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
42GG1730	FCC EMERGENCY ENGINE	106.511/09/04/2000
42GG1848	CIWA FIREWATER PUMP ENGINE NO. 1	106.511/09/04/2000
42GG1849	CIWA FIREWATER PUMP ENGINE NO. 2	106.511/09/04/2000
42RX2101	FCC REACTOR	2501A, PSDTX767M2
42TANK1	DEGREASER STORAGE	106.472/03/14/1997
42TANK2	DEGREASER STORAGE	106.472/03/14/1997
42TANK3	DEGREASER STORAGE	106.472/03/14/1997
42TANK4	DEGREASER STORAGE	106.472/03/14/1997
42TANK5	DEGREASER STORAGE	106.472/03/14/1997
43AFUG	FCC PROPYLENE UNIT FUGITIVES	106.261/11/01/2003
43DA4501	PROPYLENE SPLITTER	2501A, PSDTX767M2
43DA4502	DEPROPANIZER	2501A, PSDTX767M2
43EA4503A	PROPYLENE SPLITTER OH CONDENSER	2501A, PSDTX767M2
43EA4503B	PROPYLENE SPLITTER OH CONDENSER	2501A, PSDTX767M2
43EA4503C	PROPYLENE SPLITTER OH CONDENSER	2501A, PSDTX767M2
43EA4503D	PROPYLENE SPLITTER OH CONDENSER	2501A, PSDTX767M2
43EA4504A	DEPROPANIZER OH CONDENSER	2501A, PSDTX767M2
43EA4504B	DEPROPANIZER OH CONDENSER	2501A, PSDTX767M2
43FUG	FCC MEROX UNIT FUGITIVES	106.261/11/01/2003
44AFUG	SATS GAS FUGITIVES	106.261/11/01/2003
44BA3001	ROSE DAO FURNACE	2501A, PSDTX767M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
44BA3002	ROSE HOT OIL HTR.	2501A, PSDTX767M2
44BA3005	ROSE ASPHALT FURNACE	2501A, PSDTX767M2
44CO1418	ROSE UNIT SOLVENT COMPRESSOR	2501A, PSDTX767M2
44CWT9	#9 COOLING TOWER	2501A, PSDTX767M2
44DA3001	ASPHALTENE SEPARATOR	2501A, PSDTX767M2
44DA3002	DAO STRIPPER	2501A, PSDTX767M2
44DA3003	ASPHALT STRIPPER	2501A, PSDTX767M2
44DA3004	LOW PRESSURE FLASH DRUM	2501A, PSDTX767M2
44DA3010	DAO STRIPPER	2501A, PSDTX767M2
44DA3011	HOT OIL DRUM	2501A, PSDTX767M2
44FA3001	ASPHALT MIX FLASH DRUM	2501A, PSDTX767M2
44FA3002	SOLVENT ACCUMULATOR	2501A, PSDTX767M2
44FA3004A	COMPRESSOR KNOCKOUT DRUM	2501A, PSDTX767M2
44FA3004B	COMPRESSOR KNOCKOUT DRUM	2501A, PSDTX767M2
44FA3005	HIGH PRESSURE FLASH DRUM	2501A, PSDTX767M2
44FA3007	FEED SURGE DRUM	2501A, PSDTX767M2
44FA3095	DEGREASER STORAGE	106.473/03/14/1997
44FA3099	DEGREASER STORAGE	106.472/03/14/1997
44FB3001	TEMPERED WATER TANK	2501A, PSDTX767M2
44FB3097	DEGREASER STORAGE	106.472/03/14/1997
44FB3098	DEGREASER STORAGE	106.472/03/14/1997

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
44FUG	ROSE FUGITIVES	106.261/11/01/2003
45AFUG	SWS UNIT FUGITIVES	106.261/11/01/2003
45AVENT	AMINE UNIT LUBE OIL MIST SYSTEM VENTS	106.261/11/01/2003
45DA3002	MEA REGENERATOR	2501A, PSDTX767M2
45DA7401	SOUR WATER STRIPPER	2501A, PSDTX767M2
45FA6001	SOUR GAS KNOCKOUT DRUM	2501A, PSDTX767M2
45FA6003	AMINE REGENERATOR OH ACCUMULATOR	2501A, PSDTX767M2
45FA6004	MEA RECLAIMER	2501A, PSDTX767M2
45FA6006	MOBIL COMPRESSOR DISCHARGE DRUM	2501A, PSDTX767M2
45FA6008	MOBIL COMPRESSOR SUCTION DRUM	2501A, PSDTX767M2
45FA7403	SOUR WATER STRIPPER OVERHEAD ACCUMULATOR	2501A, PSDTX767M2
45FB6001	FRESH MEA TANK	2501A, PSDTX767M2
45FB6002	ORGANIC TANK	2501A, PSDTX767M2
45FB6360	MDEA STORAGE TANK	2501A, PSDTX767M2
45FB7401	SOUR WATER STORAGE	2501A, PSDTX767M2
45FB7402	SOUR WATER STORAGE	2501A, PSDTX767M2
45FB7403	SOUR WATER TANK	2501A, PSDTX767M2
45FB7499V	CHEMICAL INHIBITION STORAGE	106.472/03/14/1997
45FUG	AMINE UNIT FUGITIVES	106.261/11/01/2003
45TANK1	DEGREASER STORAGE	106.472/03/14/1997
45VENT	SWS UNIT LUBE OIL MIST SYSTEM VENTS	106.261/11/01/2003

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
46AD6202	SRU B SULFUR PIT	2501A, PSDTX767M2
46BC6302	TAIL GAS INCINERATOR BURNER	2501A, PSDTX767M2
46BC6325	REDUCING GAS GENERATOR	2501A, PSDTX767M2
46CB6301	TAIL GAS INCINERATOR	2501A, 106.261/11/01/2003, PSDTX767M2
46FA6201	MEA GAS KNOCKOUT DRUM	2501A, PSDTX767M2
46FA6202	SOUR WATER STRIPPER KNOCKOUT DRUM	2501A, PSDTX767M2
46FA6299V	DEGREASER STORAGE	106.472/03/14/1997
46FB6301	SOLVENT STORAGE TANK	2501A, PSDTX767M2
46FUG	UNIT 46 SRU FUGITIVES	106.261/11/01/2003, 106.262/11/01/2003
46LO6201	SRU B SULFUR LOADING	2501A, PSDTX767M2
46RX6206	B TRAIN SRU	2501A, PSDTX767M2
46VENT	UNIT 46 SRU LUBE OIL MIST SYSTEM VENTS	106.261/11/01/2003
47AD5409	DAF UNIT	2501A, PSDTX767M2
47EC5401	WET SURFACE AIR COOLER	106.261/11/01/2003
47FA2	DAF FLOAT TANK	106.264/03/14/1997
47FA5412	DIESEL STORAGE TANK	106.472/03/14/1997
47FA5493	DIESEL STORAGE TANK	106.472/03/14/1997
47FA5494	DEGREASER STORAGE	106.472/03/14/1997
47FB321	API SEPARATOR RECOVERED OIL TANK	79/05/12/1981
47FB323	API SEPARATOR RECOVERED OIL TANK	106.264/03/14/1997
47FB503	TANK 47FB503	86/04/05/1995

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
47FB504	TANK 47FB504	86/06/07/1996, 86/09/12/1989, 118/09/12/1989
47FB509	TANK 47FB509	102/01/08/1980, 106.478/03/14/1997
47FUG	WASTEWATER TREATER FUGITIVES	106.261/11/01/2003, 106.262/11/01/2003
47GF5401	API SEPARATOR	2501A, PSDTX767M2
47GG1523	PUMP ENGINE AT WWT	5/09/12/1989, 106.511/09/04/2000
50BF02	BOILER NO. 2	2501A, PSDTX767M2
50BF03	BOILER NO. 3	2501A, PSDTX767M2
50BF04	BOILER NO. 4	124424
50FA6	STORAGE TANK 50FA6	106.472/09/04/2000
50FUG	BOILERS NO. 2 AND NO. 3 FUGITIVES	106.261/11/01/2003
5GCVS	GW RECOVERY CVS	106.533/07/04/2004
5GFUG	GW RECOVERY FUGITIVES	106.533/07/04/2004
5GTRANSFER	MACT 5G TRANSFER SYSTEMS	106.533/07/04/2004
81BA25	BOILER HOUSE HOT OIL HTR.	2501A, PSDTX767M2
81BF01	BOILER NO. 1	2501A, PSDTX767M2
81BF05	BOILER NO. 5	124424, 133453
81BF06	BOILER NO. 6	124424, 133453
81ENG1	BOILER HOUSE BACK-UP AIR COMPRESSOR 1	106.511/09/04/2000
81FUG	BOILERHOUSE UNIT FUGITIVES	106.261/11/01/2003
81GEN001	BOILER HOUSE DIESEL EMERGENCY GENERATOR	106.511/09/04/2000
81SKD5602	GROUNDWATER RECOVERY THERMAL OXIDIZER (PHASE II)	106.533/07/04/2004

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
81SKD5603	GROUNDWATER RECOVERY THERMAL OXIDIZER (PHASE II)	106.533/07/04/2004
9058LOAD	A PUMP TRUCK RACK	2501A, PSDTX767M2
9059LOAD	A PUMP RAIL RACK	2501A, PSDTX767M2
90AFUG	CRUDE TANK FARM FUGITIVES	106.261/11/01/2003
90BFUG	16-ACRE TANK FARM FUGITIVES	106.261/11/01/2003
90CB5601	MARINE LOADING DOCK NO. 1 THERMAL OXIDIZER	106.492/09/04/2000
90CFUG	REFRIGERATED STORAGE FUGITIVES	106.261/11/01/2003
90CPI2001	OUTFALL 007 CPI	2501A, PSDTX767M2
90CPI8301	OUTFALL 003 CPI	2501A, PSDTX767M2
90DOCK1	MARINE LOADING DOCK NO. 1	106.261/11/01/2003, 106.262/11/01/2003, 106.492/09/04/2000
90DOCK2	SIMS BAYOU DOCK #2	106.261/12/24/1998
90FB213	TANK 90FB213	2501A, PSDTX767M2
90FB722	TANK 90FB722	106.261/03/14/1997, 106.478/03/14/1997, 106.478/09/04/2000
90FB723	TANK 90FB723	86/06/07/1996, 106.478/09/04/2000
90FB735	TANK 90FB735	2501A, PSDTX767M2
90FB831	PRESSURIZED TANK 90FB831	2501A, PSDTX767M2
90FB832	PRESSURIZED TANK 90FB832	2501A, PSDTX767M2
90FB833	PRESSURIZED TANK 90FB833	2501A, PSDTX767M2
90FB834	PRESSURIZED TANK 90FB834	2501A, PSDTX767M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
90FB835	PRESSURIZED TANK 90FB835	2501A, PSDTX767M2
90FB844	PRESSURIZED TANK 90FB844	2501A, PSDTX767M2
90FB845	PRESSURIZED TANK 90FB845	2501A, PSDTX767M2
90FB847	PRESSURIZED TANK 90FB847	2501A, PSDTX767M2
90FUG	“A” TANK FARM FUGITIVES	106.261/11/01/2003, 106.492/09/04/2000
90GG2245	SIMS BAYOU FIREWATER PUMP ENGINE	106.511/09/04/2000
9130LOAD	NO. 3 DOCK	111/06/07/1996
9155LOAD	CHEMICAL TRUCK RACK	106.472/03/14/1997
9157LOAD	B PUMP RAIL RACK	2501A, PSDTX767M2
9160LOAD	B PUMP TRUCK RACK	2501A, PSDTX767M2
91BFUG	900-GROUP TANK FARM FUGITIVES	106.261/11/01/2003
91CPI0301	300 TANK FARM CPI	2501A, PSDTX767M2
91CPI0401	400 TANK FARM CPI	2501A, PSDTX767M2
91CPI901	900 TANK FARM CPI	2501A, PSDTX767M2
91FA9001	CONTRACTOR REFUELING - DIESEL	106.412/03/14/1997
91FA9002	CONTRACTOR REFUELING - GASOLINE	106.412/03/14/1997
91FA9003	CONTRACTOR REFUELING - DIESEL	106.412/03/14/1997
91FB911	TANK 91FB911	106.261/12/24/1998
91FB922	TANK 91FB922	86/09/12/1989
91FB924	TANK 91FB924	86/06/07/1996
91FB931	TANK 91FB931	106.478/03/14/1997

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
91FUG	300-GROUP TANK FARM FUGITIVES	106.261/11/01/2003
92EF1A	LABORATORY VENT	106.122/09/04/2000
92EF1B	LABORATORY VENT	106.122/09/04/2000
92EF1C	LABORATORY VENT	106.122/09/04/2000
92EF2	LABORATORY VENT	106.122/09/04/2000
92EF3	LABORATORY VENT	106.122/09/04/2000
92EF4	LABORATORY VENT	106.122/09/04/2000
92EF5	LABORATORY VENT	106.122/09/04/2000
92FA4001	RECOVERED OIL	51/06/07/1996
92FA4002	OILY WATER	53/10/04/1995
96FB500	PLANT GASOLINE REFUELING TANK	106.264/03/14/1997
96FUG	RECOVERY WELL SYSTEM FUGITIVES	106.533/07/04/2004
96GENC20D6	EMERGENCY DIESEL GENERATOR 96GENC20D6	106.511/09/04/2000
97GE2999	DIESEL GENERATOR (IS BACKUP)	106.511/09/04/2000
CCRGEN	CENTRAL CONTROL ROOM EMERGENCY GENERATOR	106.511/09/04/2000
DG-AGIT2	MAINTENANCE SHOP PARTS WASHER, WEST	106.454/07/08/1998
DG-AGIT	SHOP AGITATED DEGREASER	106.454/07/08/1998
DG-ALKY	ALKY DEGREASER	106.454/03/14/1997
DG-SHOP	SHOP DEGREASER	106.454/03/14/1997
DG-UNIF	UNIFINER DEGREASER	106.454/03/14/1997
FUG	FUGITIVES	2501A, PSDTX767M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
PROCVENT	PROCESS ANALYZER VENTS	106.261/11/01/2003

Alternative Requirement

Alternative Requirement..... 231

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

September 6, 2018

Matthew Lindquist
Environmental Engineering Manager
Valero Refining – Texas, L.P.
Houston Refinery
9701 Manchester Street
Houston, TX 77012-2408

Re: Alternative Monitoring Plan (AMP) – Inherently Low Sulfur Vent Gas Stream – Light Naphtha Merox Unit Disulfide Separator Combusted at Crude Topper Heater - New Source Performance Standards (NSPS) for Petroleum Refineries, 40 Code of Federal Regulations (CFR) Part 60 Subpart Ja – Valero Refining – Houston, Texas Refinery (Valero Houston)

Dear Mr. Lindquist:

This letter is in response to your AMP request dated July 20, 2017, concerning a fuel gas stream you have identified as low in sulfur content under NSPS Subpart Ja. In the AMP request, you verified that the Merox Disulfide Separator vent gas stream is not excluded from the definition of refinery fuel gas under 40 Code of Federal Regulation (CFR) 60.101a. The information furnished in the AMP is consistent with the information now required for exemption applications under 40 CFR 60.107a(b). Therefore, the United States Environmental Protection Agency (EPA) has evaluated your request in light of changes made to NSPS Subpart Ja on June 24, 2008 (73 Federal Register 35867), and finds that your AMP request meets the exemption criteria of 60.107a(a)(3)(iv), for fuel gas streams that are low-sulfur, as explained in the Enclosure attached to this letter.

Specifically, Valero Houston combusts vapors from a combined fuel gas vent stream that originates in the Liquefied Petroleum Gas (LPG) Light Naphtha Merox Unit Disulfide Separator. The Disulfide Separator receives LPG feed from the Ultra Low Sulfur Diesel (ULSD) Unit, and light naphtha feed from the Crude Topper Unit at the refinery. The combined fuel gas vent stream exits the Disulfide Separator and is directed to a Vent Tank, which separates liquid carryover from the vent gas, and then directs the gas to Crude Topper Heater 17H01 for combustion. Valero Houston monitored hydrogen sulfide (H_2S) concentrations for twenty-three (23) days using a gas chromatograph fitted with a chemiluminescence detector for H_2S measurement. The detector has a 0.5 part per million by weight (ppmw) detection limit, which is directly comparable to the prescribed length-of-stain tube type measurement specified in NSPS Ja.

Based upon the information provided, the combined vent gas stream from the Disulfide Separator is less than 0.5 ppmw H_2S; therefore, the fuel gas vent stream meets the exemption of 40 CFR 60.107a(a)(3)(iv), and the Crude Topper Heater 17H01 does not need to meet the continuous monitoring requirements of either 40 CFR 60.107a (a)(1) or (2). If refinery

Recycled/Recyclable • *Printed with Vegetable Oil Based Inks on 100% Recycled Paper (40% Postconsumer)*

operations change so that any of the specified streams have an increase in sulfur content or if any of the product specifications are modified so that an exempted stream is no longer considered low in sulfur content as specified in the rule, then Valero Houston must document the change(s) and determine if the stream remains exempt, in accordance with 40 CFR 60.107a(b)(3)(i)-(iii). According to 40 CFR 60.107a(b)(2), the effective date of the exemption is the date of submission of the information in paragraph (b)(1) of this section, i.e. July 20, 2017.

This exemption approval should also be referenced and attached to the facility's new source review (NSR) and Title V permits for federal enforceability. If you have any questions or concerns about this determination, please feel free to contact Diana L. Lundelius of my staff at (214) 665-7468 or Lundelius.Diana@epa.gov.

Sincerely,

Steve Thompson
Chief
Air Enforcement Branch

Enclosure

cc: Michael De La Cruz, Texas Commission on Environmental Quality, MC-219, P.O. Box 13087, Austin, TX 78711-3087

ENCLOSURE

New Source Performance Standards (NSPS) Subpart Ja
Valero Refining - Houston, TX
Light Naphtha Merox Unit Disulfide Separator
Combined Vent Gas Stream Combusted at Crude Topper Heater 17H01

Valero Houston combusts the combined fuel gas vent stream from the LPG Light Naphtha Merox Unit Disulfide Separator in a Crude Topper Heater at the refinery. The fuel gas stream is not excluded from the definition of fuel gas under 60.101a. Therefore, EPA reviewed Valero Houston's AMP dated July 20, 2017, as an exemption application in accordance with the provisions of 40 CFR 40 CFR 60.107a(b).

The vent gas stream described above originates from the Disulfide Separator, which collects and combines residual H_2S from two portions of the Merox process. H_2S and other sulfur compounds are removed upstream of the separator. The first portion removes residual H_2S entering the Merox Unit from the LPG feed of the ULSD Unit. The resultant mercaptide-rich caustic solution is sent to the Merox caustic regeneration section, where it passes through the Disulfide Separator. The second stream entering the Merox Unit contains Light Naphtha feed from the Crude Topper Unit. This stream is also treated with lean caustic solution to remove mercaptan compounds. This mercaptide-rich caustic solution is also sent to the Merox caustic regeneration section, along with mercaptide-rich caustic solutions from the LPG Extractor and the Depentanizer Sidedraw Extractor. The combined spent caustic solution is heated and oxidized using compressed air to produce regenerated caustic and disulfides, which are sent to the Disulfide Separator and washed with ULSD oil. Disulfide compounds are entrained in the wash oil and sent to either the ULSD Unit or the Fluidized Catalytic Cracking Unit. The vapor stream from the Disulfide Separator is usually free of sulfur compounds and is directed from the separator stack to the Vent Tank, where any condensed liquids in the vapor are removed from the remaining gaseous stream. The Separator and Vent Tank ensure that there are very low amounts of sulfur in the fuel gas stream going to the Crude Topper Heater 17H01 for combustion.

In the AMP submission, Valero Houston furnished detailed process descriptions that include the steps in each portion of the contributing processes, as well as process and instrumentation drawings (P&IDs) that show the sampling point for the H_2S monitoring, and trace the LPG, ULSD and Merox caustic treating and regeneration sections from vent gas stream origins to the crude topper heater. The P&IDs showed that no tie-ins/crossover streams are present that could potentially allow the entry of sour gas to the vent lines leading to the crude topper heater. There are several potential bypass points where fuel gas could be vented directly to atmosphere; however, these are valves are closed during normal operations, and are only used when a vessel must be taken out of service for maintenance or repair. The other potential bypasses are pressure (safety) relief valves which would open only if the line pressure exceeds specified safety limits.

Valero Houston provided three weeks (23 samples) of monitoring data for the combined fuel gas vent stream from the sample point after the Disulfide Separator prior to the Vent Tank. The samples were obtained prior to mixing with other vent gas streams at the crude topper heater, and showed H_2S concentrations less than 0.5 ppmw. Valero Houston conducted H_2S monitoring using a gas chromatograph fitted with a chemiluminescence detector for H_2S measurement. The detector has a 0.5 part per million by weight (ppmw) detection limit, which is directly comparable to the prescribed length-of-stain tube measurement specified in NSPS Ja[1], as summarized in the AMP request.

The monitoring data submitted were representative of typical operating conditions. Therefore, the chemiluminescence gas chromatograph testing performed, and other representations made in the company's AMP request, serve as the bases for demonstration that the vent streams meet the exemption of 40 CFR 60.107a(a)(3)(iv).

[1] "Gas Processors Association Standard 2377-86, Test for Hydrogen Sulfide and Carbon Dioxide in Natural Gas Using Length of Stain Tubes," 1986. The length of stain H2S detector tubes typically have a range of 1-10/0-300 parts per million (ppm), N=100/1, and have relative standard deviations of less than or equal to 12%, depending on the measured range for each tube type.

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 24, 2016

MR MATTHEW LINDQUIST
MANAGER ENVIRONMENTAL ENGINEERING
VALERO PARTNERS HOUSTON
9701 MANCHESTER ST.
HOUSTON, TEXAS 77012-2408

Re: Alternative Method of Compliance (AMOC) #57
Alternative Monitoring Plan (AMP) for Hydrogen Sulfide (H2S) Continuous Emissions Monitor (CEMs) Relative Accuracy Test Analysis (RATA)
Regulated Entity Number: 100219310
Customer Reference Number: 600127468
Affected Permits: 2501A and O1381

Dear Mr. Lindquist:

This correspondence is in response to Valero Partners Houston's (Valero's) request dated November 10, 2015 requesting an alternative monitoring plan (AMP) for compliance with 40 CFR 60, Subpart Ja, Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007 (NSPS Ja). Specifically, the hydrogen sulfide (H2S) being controlled by flares must have continuous emission monitors (CEMs) and the relative accuracy testing analysis (RATA) of the monitors must be performed periodically in accordance with §60.107a(a)(2)(ii).

We understand two flares at the refinery (Main Refinery Flare EPN 30FL1 and ULSD Flare EPN 30FL6) operate with a flare gas recovery (FGR) system, and do not have routine streams sent to the them for control. When the FGR system is down for maintenance (up to 1% of any given year), waste streams are controlled by the flares, but the duration may be so short that traditional RATA cannot be reasonably performed. To comply with the NSPS Ja RATA requirements, Valero would be required to purposefully send waste streams to the flares, instead of recovering these streams for other purposes. Valero Houston Refinery is requesting to use an alternative RATA method. Specifically, Vaelro is requesting an Alternate Monitoring Plan (AMP) to use the RATA method for emergency flares in NSPS Ja (§60.107a(e)(2)(ii)) which relies on cylinder gas audits (CGAs).

The TCEQ Executive Director has reviewed your supporting documentation and made a final decision to approve your request to perform cylinder gas audits (CGAs) following §60.107a(e)(2)(ii) as an alternate RATA method for the Main Refinery Flare (EPN 30FL1) and ULSD Flare (EPN 30FL6) when the FGR is down for maintenance. You are reminded that the monitored data must demonstrate compliance with the NSPS Ja standard of 162 ppmv H2S.

The Texas Commission on Environmental Quality (TCEQ) has been delegated authority to enforce the above cited standards in 40 CFR 60 and is authorized to approve this AMOC method.

This AMOC approval may supersede certain requirements or representations in Permit No. 2501A. To ensure effective and consistent enforceability, we request that Valero incorporate this AMOC into the permit through submittal of an alteration no later than 90 days after this approval.

This approval may also change applicable requirements for the site, including existing testing and monitoring requirements which are identified in the SOP O1381. The TCEQ recommends the submittal of complete SOP administrative revisions if any changes are necessary. Changes meeting the criteria for an administrative revision can be operated before issuance of the revision if a complete application is submitted to the TCEQ and this information is maintained with the SOP records at the site.

This action is taken under authority delegated by the Executive Director of the TCEQ. If you have any questions, please call Anne Inman, P.E. at (512) 239-1276, or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,

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

cc: Mr. Mark Hansen, Acting Associate Director Air Programs, U.S. EPA Region 6, Dallas, TX
Mr. Bob Allen, Director, Harris County Pollution Control Services Dept., Pasadena, TX
Bureau Chief, Pollution Control and Prevention, Environmental Health Division, City of Houston, Houston, TX

Project No.: 252854

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS TX 75202-2733

VALERO REFINING - TEXAS L.P.
RECEIVED

MAR 11 2016

ENVIRONMENTAL & SAFETY AFFAIRS
HOUSTON REFINERY

March 4, 2016

Matt Lindquist
Environmental Manager, Houston Refinery
Valero Refining Company
9701 Manchester
Houston, Texas 77012

Re: Alternative Monitoring Plan (AMP) – Wet Gas Scrubber (WGS) Parametric Monitoring in lieu of Continuous Opacity Monitoring System (COMS) required for Fluid Catalytic Cracking Unit (FCCU) Catalyst Regenerator (Regenerator) under New Source Performance Standards (NSPS) Part 60 Subpart J and also under National Emission Standards for Hazardous Air Pollutants (NESHAP) Part 63, Subpart UUU; Valero refinery located in Houston, Texas (Houston Refinery), TCEQ Permit No. O-01381.

Dear Mr. Lindquist:

This letter is in response to your AMP request dated August 14, 2008, for your FCCU WGS that serves exhaust gases from your FCCU Regenerator. Your request updated your prior AMP request submittal dated October 4, 2005, involving parametric monitoring of the WGS unit in lieu of monitoring opacity via COMS, due to moisture interference on opacity readings in the stack. Additionally, on August 15, 2014, you provided to my staff test results from that testing conducted on December 17, 2013, and also June 3 - 5, 2014, as well as calculations demonstrating use of some of the alternative monitoring parameters. Based upon the design of your WGS unit and the process-specific information provided in your updated request and subsequent information submitted on August 15, 2014, the Environmental Protection Agency (EPA) hereby approves your AMP as outlined within this letter.

Your AMP request is specific to your FCCU WGS, a Belco Technology EDV® design. As part of our review effort, we have identified the following key operating parameter limits (OPLs) that will ensure that the WGS functions as intended and that emissions from the corresponding FCCU Regenerator will meet regulatory requirements:

1. Minimum Liquid-to-Gas Ratio (L/G): defined as total liquid flowrate (L) divided by total gas flowrate (G) in the WGS, not to exceed 59.0 gallons per minute (gpm) per thousand standard cubic feet per minute (Mscfm), as reported at 42BELCOL/G on an hourly rolling average period (HRA)[a].

[a] All OPLs are set on an hourly rolling average basis (HRA), determined upon evaluation of data from three one-hour test runs.

2. Minimum WGS Recirculation Pump Discharge Header Pressure (P_{RPDH}): measured in pounds per square inch gauge pressure (psig), not to exceed 46.8 psig as reported at 42PT2703 on an HRA.

3. Minimum Pressure Drop across the Agglo Filtering Modules (ΔP_{FM}): not to exceed 100.9 psig as reported at 42PT2715 on an HRA.

The following conditions were met as part of the performance testing conducted by Valero in determining the values for the above listed OPLs:

1. A performance test was conducted at representative operating conditions for the FCCU Regenerators, CO Boilers, and corresponding WGS, whereby worst-case emissions were anticipated.

2. Parameters measured in the performance test included, but were not limited to, those OPLs listed above for the FCCU WGS as well as those operating parameters and/or emission monitoring parameters required for demonstrating compliance with the emission standards for the FCCU Regenerators.

3. Calculations for surrogate parameters (e.g., L via pump curves, G via hourly average flow rates calculated in accordance with 40 CFR §63.1573(a)(2), Eq 2) were also provided for the same testing period in order to demonstrate correlations for final AMP evaluation.

If the mode of operations changes, new performance testing may be necessary in order to refine the OPL values state above for the established parameters of this AMP. You must ensure that the terms of this AMP approval are incorporated into the facility's New Source Review and Title V permits for federal enforceability.

If you have any questions or concerns about this approval, please do not hesitate to contact Ms. Cynthia Kaleri of my staff at (214) 665-6772.

Sincerely yours,

Margaret Osborne

for Steve Thompson
Branch Chief
Air Enforcement Branch
Compliance Assurance and
Enforcement Division

cc: Michael Del La Cruz (TCEQ)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS TX 75202-2733

April 6, 2016

VALERO REFINING - TEXAS L.P.
RECEIVED

APR 15 2016

ENVIRONMENTAL & SAFETY AFFAIRS
HOUSTON REFINERY

Matt Lindquist
Environmental Manager, Houston Refinery
Valero Refining Company
9701 Manchester
Houston, Texas 77012

Re: Revised Alternative Monitoring Plan (AMP) – Wet Gas Scrubber (WGS) Parametric Monitoring in lieu of Continuous Opacity Monitoring System (COMS) required for Fluid Catalytic Cracking Unit (FCCU) Catalyst Regenerator (Regenerator); Valero refinery located in Houston, Texas (Houston Refinery), TCEQ Permit No. O-01381.

Dear Mr. Lindquist:

This letter is in response to your recent communication with my staff (e-mail dated April 02, 2016), regarding our recent AMP approval (letter dated March 4, 2016) for Valero's FCCU WGS that serves exhaust gases from your FCCU Regenerator. Due to a nomenclature error in one of the operating parameter limits (OPLs) established in our approval, the Environmental Protection Agency (EPA) hereby revises only the one parameter of our former AMP approval dated March 4, 2016, as follows:

Original Approved OPL Number 3:

3. Minimum Pressure Drop across the Agglo Filtering Modules (ΔP_{FM}): not to exceed 100.9 psig as reported at 42PT2715 on an HRA.

Revised Approved OPL Number 3:

3. Minimum Agglo Filtering Modules Pump Discharge Pressure (P_{AFMD}): not to exceed 100.9 psig as reported at 42PT2715 on an HRA.

We apologize for this error, and also understand that your facility has only one FCCU Regenerator and no CO Boilers that were tested for setting the values of the OPLs approved.

Internet Address (URL) • http://www.epa.gov/region6
Recycled/Recyclable • Printed with Vegetable Oil Based Inks on 100% Recycled Paper, Process Chlorine Free

Please understand that the rest of our prior approval stands as issued on March 4, 2016. If the mode of operations changes, new performance testing may be necessary in order to refine the approved OPL values for the three established parameters of your AMP. If you have any questions or concerns about this approval, please do not hesitate to contact Ms. Cynthia Kaleri of my staff at (214) 665-6772.

Sincerely yours,

Steve Thompson
Chief
Air Enforcement Branch
Compliance Assurance and
Enforcement Division

cc: Michael Del La Cruz (TCEQ)

Appendix A

Acronym List 242

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM ..... actual cubic feet per minute
AMOC ..... alternate means of control
ARP ..... Acid Rain Program
ASTM ..... American Society of Testing and Materials
B/PA ..... Beaumont/Port Arthur (nonattainment area)
CAM ..... Compliance Assurance Monitoring
CD ..... control device
CEMS ..... continuous emissions monitoring system
CFR ..... Code of Federal Regulations
COMS ..... continuous opacity monitoring system
CVS ..... closed vent system
D/FW ..... Dallas/Fort Worth (nonattainment area)
EP ..... emission point
EPA ..... U.S. Environmental Protection Agency
EU ..... emission unit
FCAA Amendments ..... Federal Clean Air Act Amendments
FOP ..... federal operating permit
gr/100 scf ..... grains per 100 standard cubic feet
HAP ..... hazardous air pollutant
H/G/B ..... Houston/Galveston/Brazoria (nonattainment area)
H_2S ..... hydrogen sulfide
ID No. ..... identification number
lb/hr ..... pound(s) per hour
MACT ..... Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr ..... Million British thermal units per hour
NA ..... nonattainment
N/A ..... not applicable
NADB ..... National Allowance Data Base
NESHAP ..... National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standard (40 CFR Part 60)
NSR ..... New Source Review
ORIS ..... Office of Regulatory Information Systems
Pb ..... lead
PBR ..... Permit By Rule
PEMS ..... predictive emissions monitoring system
PM ..... particulate matter
ppmv ..... parts per million by volume
PRO ..... process unit
PSD ..... prevention of significant deterioration
psia ..... pounds per square inch absolute
SIP ..... state implementation plan
SO_2 ..... sulfur dioxide
TCEQ ..... Texas Commission on Environmental Quality
TSP ..... total suspended particulate
TVP ..... true vapor pressure
U.S.C. ..... United States Code
VOC ..... volatile organic compound

Appendix B

Major NSR Summary Table 244

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
Boilers and Heaters							
23BA301	Heater 23BA301	NO_x	7.00		3, 4, 5, 7	3, 4, 5, 7	3, 4, 5, 64
		SO_2	1.40				
		H_2S	0.01				
		CO	1.80				
		PM_{10}	0.10				
		$PM_{2.5}$	0.10				
		VOC	0.10				
23BA302	Heater 23BA302	NO_x	3.20		3, 4, 5, 7	3, 4, 5, 7	3, 4, 5, 64
		SO_2	0.80				
		H_2S	0.01				
		CO	1.10				

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM_{10}	0.10				
		$PM_{2.5}$	0.10				
		VOC	0.10				

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
23BA301 and 23BA302	Heaters 23BA301 and 23BA302	NO_x		44.60	3, 4, 5, 7	3, 4, 5, 7	3, 4, 5, 64
		SO_2		9.50			
		H_2S		0.04			
		CO		12.30			
		PM_{10}		0.90			
		$PM_{2.5}$		0.90			
		VOC		1.00			
23BC201	Atmospheric Tower Heater	NO_x	14.28	62.55	3, 4, 5, 7, 59	3, 4, 5 ,7, 59, 60, 62	3, 4, 5, 59, 64
		CO	14.28	62.55			
		VOC	1.93	8.43			
		SO_2	9.52	20.85			
		H_2S	0.03	0.13			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM_{10}	2.66	11.65			
		$PM_{2.5}$	2.66	11.65			
27BA1000	"C" Unifiner Reactor Charge Heater	NO_x	3.82	13.31	3, 4, 5, 7	3, 4, 5, 7	3, 4, 5, 64
		CO	3.21	11.18			
		VOC	0.21	0.73			
		SO_2	1.04	1.10			
		H_2S	<0.01	0.01			
		PM_{10}	0.29	1.01			
		$PM_{2.5}$	0.29	1.01			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
28BA1200	"A" Unifiner Reactor Charge Heater	NO_x	2.75	12.02	3, 4, 5, 7	3, 4, 5, 7	3, 4, 5, 64
		CO	2.31	10.10			
		VOC	0.15	0.66			
		SO_2	0.75	0.88			
		H_2S	<0.01	0.01			
		PM_{10}	0.21	0.91			
		$PM_{2.5}$	0.21	0.91			
29BA1300	"B" Unifiner Reactor Charge Heater	NO_x	3.03	13.27	3, 4, 5, 7	3, 4, 5, 7	3, 4, 5, 64
		CO	2.47	10.82			
		VOC	0.16	0.71			
		SO_2	0.80	0.92			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		H_2S	<0.01	0.01			
		PM_{10}	0.22	0.98			
		$PM_{2.5}$	0.22	0.98			
40BA1001	Combined Heaters (LCO Charge Heater, Diesel Charge Heater, and Fractionation Reboiler Heater)	NO_x	4.39	16.10	3, 4, 5, 7,9, 56	3, 4, 5, 7,9,56	3, 4, 5, 56, 64
		CO	7.56	33.13			
		VOC	0.62	2.72			
		SO_2	3.09	13.53			
		H_2S	0.01	0.06			
		PM_{10}	0.86	3.76			
		$PM_{2.5}$	0.86	3.76			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
41BA101	"D" Unifiner Reactor Charge Heater	NO_x	1.96	8.59	3, 4, 5, 7	3, 4, 5, 7	3, 4, 5, 64
		CO	1.65	7.21			
		VOC	0.11	0.47			
		SO_2	0.53	0.61			
		H_2S	<0.01	0.01			
		PM_{10}	0.15	0.65			
		$PM_{2.5}$	0.15	0.65			
41BA102	"D" Unifiner Rerun Tower Reboiler	NO_x	2.65	11.59	3, 4, 5, 7	3, 4, 5, 7	3, 4, 5, 64
		CO	2.22	9.74			
		VOC	0.15	0.64			
		H_2S	<0.01	0.01			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		SO_2	0.72	0.79			
		PM_{10}	0.20	0.88			
		$PM_{2.5}$	0.20	0.88			
44BA3001	BA-3001 DAO Mix Heater	CO	1.53	6.71	3, 4, 5, 7	3, 4, 5, 7	3, 4, 5, 64
		NO_x	1.80	7.90			
		PM_{10}	0.14	0.62			
		$PM_{2.5}$	0.14	0.62			
		SO_2	0.49	2.15			
		H_2S	<0.01	0.01			
		VOC	0.10	0.44			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
44BA3002	BA-3002 Hot Oil Heater	CO	5.36	21.51	3, 4, 5, 7	3, 4, 5, 7	3, 4, 5, 64
		NO_x	5.70	22.87			
		PM_{10}	0.49	1.98			
		$PM_{2.5}$	0.49	1.98			
		SO_2	1.73	6.93			
		H_2S	<0.01	0.01			
		VOC	0.36	1.45			
44BA3005	BA-3005 Asphalt Heater	CO	2.72	11.92	3, 4, 5, 7	3, 4, 5, 7	3, 4, 5, 64
		NO_x	3.24	14.20			
		PM_{10}	0.25	1.10			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.25	1.10			
		SO_2	0.87	3.82			
		H_2S	<0.01	0.01			
		VOC	0.18	0.79			
17H01	Crude Heater	NO_x	7.77	8.76	3, 4, 5, 7, 57, 58, 59	3, 4, 5, 7, 57, 58, 59, 60, 62	3, 4, 5, 57, 59, 64
		CO	16.09	28.18			
		VOC	1.35	4.72			
		SO_2	6.46	8.75			
		H_2S	0.02	0.07			
		PM_{10}	1.86	6.53			
		$PM_{2.5}$	1.86	6.53			
		NH_3	1.14	4.00			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
81BA25	Boilerhouse Hot Oil Heater	NO_x	1.96	8.59	3, 4, 5, 7	3, 4, 5, 7	3, 4, 5, 64
		CO	1.65	7.21			
		VOC	0.11	0.47			
		SO_2	0.53	0.61			
		H_2S	<0.01	0.01			
		PM_{10}	0.15	0.65			
		$PM_{2.5}$	0.15	0.65			
81BF01	Package Boiler No. 1	NO_x	3.95		3, 4, 5, 7, 53, 58, 59, 65	3, 4, 5, 7, 53, 58, 59, 60, 62, 65	3, 4, 5, 53, 59, 64, 65
		CO	13.63				
		VOC	1.83				
		PM_{10}	3.66				
		$PM_{2.5}$	3.66				

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		SO_2	9.10				
		H_2S	0.03				
		NH_3	1.83				
50BF02	Package Boiler No. 2	NO_x	3.95		3, 4, 5, 7, 53, 58, 59, 65	3, 4, 5,7, 53, 58, 59, 60, 62, 65	3, 4, 5, 53, 59, 64, 65
		CO	13.63				
		VOC	1.83				
		PM_{10}	3.66				
		$PM_{2.5}$	3.66				
		SO_2	9.10				
		H_2S	0.03				
		NH_3	1.83				
50BF03	Package Boiler No. 3	NO_x	3.95		3, 4, 5, 7, 53, 58, 59,	3, 4, 5, 7, 53, 58, 59,	3, 4, 5, 53, 59, 64, 65

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		CO	13.63		65	60, 62, 65	
		VOC	1.83				
		PM_{10}	3.66				
		$PM_{2.5}$	3.66				
		SO_2	9.10				
		H_2S	0.03				
		NH_3	1.83				
81BF01, 50BF02, 50BF03	Package Boilers (Nos. 1, 2, and 3)	NO_x		35.50	3, 4, 5, 7, 53, 58, 59, 65	3, 4, 5,7, 53, 58, 59, 60, 62, 65	3, 4, 5, 53, 59, 64, 65
		CO		131.50			
		VOC		20.40			
		PM_{10}		26.00			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$		26.00			
		SO_2		43.90			
		H_2S		0.30			
		NH_3		16.00			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
FCCU							
42CB2201	FCC Unit Stack	NO_X	270.00	172.00	3, 4, 5,10, 11, 12, 13, 14, 15, 38, 55, 59, 65	3, 4, 5,14, 51, 55, 59, 60, 62, 65	3, 4, 5,55, 59, 64, 65
		CO	269.00	198.00			
		VOC	13.00	37.00			
		SO_2	29.65	129.89			
		PM_{10}	75.50	240.00			
		$PM_{2.5}$	75.50	240.00			
		H_2SO_4	1.58	6.90			
		Filterable PM	32.50	142.35			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
SRU							
39CB2001	Tail Gas Incinerator Unit 39 SRU	VOC	0.21		3, 4, 5,16, 17, 18, 20, 21, 22, 23, 25, 26, 27, 38, 54, 59, 65	3, 4, 5, 21, 25, 26, 27, 51, 54, 59, 60, 62, 65	3, 4, 5, 54, 59, 64, 65
		CO	10.16				
		H_2S	0.48				
		NH_3	0.01				
		NO_x	5.51				
		SO_2	93.95				
		PM_{10}	0.20				
		$PM_{2.5}$	0.20				

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
46CB6301	Tail Gas Incinerator Unit 46 SRU	VOC	0.32		3, 4, 5,16, 17, 18, 20, 21, 22, 23, 25, 26, 27, 38, 54, 59, 65	3, 4, 5, 21, 25, 26, 27, 51, 54, 59, 60, 62, 65	3, 4, 5, 54, 59, 64, 65
		CO	9.26				
		H_2S	0.44				
		NH_3	0.01				
		NO_x	5.01				
		SO_2	85.15				
		PM_{10}	0.18				
		$PM_{2.5}$	0.18				
39CB2001, 46CB6301	Combined Annual Cap for both TGIs	VOC		0.53	3, 4, 5,16, 17, 18, 20, 21, 22, 23, 25, 26, 27, 38, 54, 59, 65	3, 4, 5, 21, 25, 26, 27, 51, 54, 59, 60, 62, 65	3, 4, 5, 54, 59, 64, 65
		CO		38.66			
		H_2S		1.84			
		NH_3		0.01			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		NO_x		20.94			
		SO_2		354.28			
		PM_{10}		0.55			
		$PM_{2.5}$		0.55			
Cooling Towers							
27CWT2	Cooling Tower No. 2 (5)	VOC	6.24	2.87	3, 4, 5, 28	3, 4, 5, 28	3, 4, 5, 28
		PM_{10}	14.05	61.54			
		$PM_{2.5}$	0.16	0.68			
22CWT3	Cooling Tower No. 3 (5)	VOC	12.01	5.50	3, 4, 5, 28	3, 4, 5, 28	3, 4, 5, 28
		PM_{10}	0.54	2.37			
		$PM_{2.5}$	0.01	0.03			
23CWT7	Cooling Tower No. 7 (5)	VOC	4.52	2.08	3,4,5,28	3,4,5,28	3,4,5,28

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM_{10}	10.18	44.58			
		$PM_{2.5}$	0.11	0.50			
44CWT9	Cooling Tower No. 9 (5)	VOC	3.00	1.38	3, 4, 5, 28	3, 4, 5, 28	3, 4, 5, 28
		PM_{10}	0.14	0.59			
		$PM_{2.5}$	<0.01	0.01			
42CWT10	Cooling Tower No. 10 (5)	VOC	16.01	7.36	3, 4, 5, 28	3, 4, 5, 28	3, 4, 5, 28
		PM_{10}	0.72	3.16			
		$PM_{2.5}$	0.01	0.04			
40CWT11	Cooling Tower No. 11 (5)	VOC	7.6	3.31	3, 4, 5, 28	3, 4, 5, 28	3, 4, 5, 28
		PM_{10}	0.34	1.50			
		$PM_{2.5}$	<0.01	0.02			
Storage Tanks							

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
22FB747	Storage Tank 22FB747	H_2SO_4	0.06	0.01	3, 4, 5, 29, 30	3, 4, 5, 29, 46, 47, 60	3, 4, 5
42FB2802	Storage Tank 42FB2802	VOC	0.10	0.01	3, 4, 5, 29, 30	3, 4, 5, 29, 46, 47, 60	3, 4, 5
44FB3002	ROSE Flush Oil Tank	VOC	0.01	0.01	3, 4, 5, 29, 30	3, 4, 5, 29, 46, 47, 60	3, 4, 5
45FB6001	Storage Tank 45FB6001	VOC	0.01	0.01	3, 4, 5, 29, 30	3, 4, 5, 29, 46, 47, 60	3, 4, 5
45FB6002	Storage Tank 45FB6002	VOC	0.01	0.01	3, 4, 5, 29, 30	3, 4, 5, 29, 46, 47, 60	3, 4, 5
45FB7403	Storage Tank 45FB7403	VOC	0.21	0.86	3, 4, 5, 29, 30	3, 4, 5, 29, 46, 60	3, 4, 5
		NH_3	<0.01	<0.01			
		H_2S	0.01	0.03			
46FB6301	Storage Tank 46FB6301	VOC	0.01	0.01	3, 4, 5, 29, 30	3, 4, 5, 29, 46, 47, 60	3, 4, 5
90FB807	Storage Tank 90FB807	VOC	0.01	0.01	3, 4, 5, 29, 30	3, 4, 5, 29, 46, 60	3, 4, 5
91FB922	Storage Tank 91FB922	VOC	0.45	0.43	3, 4, 5, 29, 30	3, 4, 5, 29, 46, 60	3, 4, 5
90FB735	Storage Tank 90FB735	VOC	0.12	0.37	3, 4, 5, 29, 30	3, 4, 5, 29, 46, 60	3, 4, 5

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
Loading							
9058LOAD	"A" Pump Rail Loading	VOC	0.01	0.01	31, 32, 34	31,	
9059LOAD	B. B. Rack-Truck Loading	VOC	0.01	0.01	31, 32, 34	31,	
9157LOAD	"B" Pump Railcar Rack	VOC	5.16	0.07	31, 32, 34	31,	
9160LOAD	"B" Pump Truck Rack	VOC	5.16	0.09	31, 32, 34	31,	
Wastewater							
47AD5401	API Separator Diversion Sump	VOC	0.01	0.01	3, 4, 5, 36	3, 4, 5, 36	3, 4, 5, 36
47AD5402	API Oil Pit	VOC	2.00	0.14	3, 4 , 5, 36	3, 4, 5, 36	3, 4, 5, 36
47AD5405	API Muck Pit	VOC	2.00	0.18	3, 4, 5, 36	3, 4, 5, 36	3, 4, 5, 36
47AD5407	Lift Station	VOC	0.04	0.19	36	36	36
		H_2S	0.02	0.07			
47AD5409	DAF Unit	VOC	5.51	24.15	3, 4, 5, 36	3, 4, 5, 36	3, 4, 5, 36

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		H_2S	0.02	0.07			
47FA5	Equalization Tank	VOC	0.01	0.01	36	36	36
47GF5401	API Separator	VOC	0.14	0.62	3, 4, 5, 36	3, 4, 5, 36	3, 4, 5, 36
		H_2S	0.02	0.07			
90CPI2001	Outfall 007 CPI Separator	VOC	0.25	1.12	3, 4, 5	3, 4, 5	3, 4, 5
90CPI8301	Outfall 003 CPI Separator	VOC	0.27	1.18	3, 4, 5	3, 4, 5	3, 4, 5
91CPI0301	300-Tank Farm CPI Separator	VOC	0.14	0.61	3, 4, 5	3, 4, 5	3, 4, 5
91CPI0401	400-Tank Farm CPI Separator	VOC	0.08	0.35	3, 4, 5	3, 4, 5	3, 4, 5
91CPI901	900-Tank Farm CPI Separator	VOC	0.14	0.61	3, 4, 5	3, 4, 5	3, 4, 5

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
30FL1 and 30FL6	Main Refinery Flare and ULSD Flare Combined Emissions	NO_x	12.00	19.30	3, 4, 5, 6, 37, 38	3, 4, 5, 6, 37, 42	3, 4, 5, 64
		CO	86.50	139.50			
		VOC	255.00	393.30			
		SO_2	1,402.00	115.60			
		H_2S	14.20	1.20			
FUG	Fugitives (5)	VOC	88.09	385.63	3, 4, 5, 39, 40, 45	2, 3, 4, 5, 39, 40, 45, 60	3, 4, 5, 39, 64
		Benzene	0.13	0.58			
		H_2S	0.21	0.91			
		NH_3	0.05	0.16			
22AVENT	BHT Catalyst Regeneration	VOC	5.00	0.06			
22FA225	Alky Unit Bauxite Tower Washing	VOC	1.00	0.03			
Maintenance, Startup and Shutdown (MSS)							

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
EXCH-MSS	Heat Exchanger MSS Emissions	VOC	17.35	1.81	43,	42, 43, 61	
		Benzene	0.10	0.01			
SMALL-MSS	Small Equipment MSS Emissions	VOC	2.08	1.56	43	42, 43, 61	
		Benzene	0.01	0.01			
VAC-MSS	Vacuum Truck MSS Emissions	VOC	1.37	0.51	43, 48	42, 43, 48, 61	
		Benzene	0.02	0.01			
		NH_3	0.01	0.01			
		H_2S	0.01	0.01			
FRAC-MSS	Frac Tank MSS Emissions	VOC	0.88	5.36	43, 49	42, 43, 49, 61	
		Benzene	0.01	0.07			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
VACFR-MSS	Vacuum Truck/Frac Tank Cleaning MSS Emissions	VOC	2.93	0.11	43, 48, 49	42, 43, 48, 49, 61,	
		Benzene	0.05	0.01			
		NH_3	0.01	0.01			
WW-MSS	Wastewater Treatment Plant MSS Activities	VOC	0.14	0.01	43	42, 43, 61	
		Benzene	0.98	0.02			
		NH_3	0.05	0.01			
		H_2S	0.01	0.01			
TANK-MSS	Tank MSS Activities	VOC	529.27	(6)	43	42, 43, 61	
		Benzene	8.07	(6)			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
47FB7403-MSS	Storage Tank 45FB7403 MSS	VOC	(8)	(6)			
		NH_3	0.01	<0.01			
		H_2S	0.23	<0.01			
INSIG-MSS	Insignificant MSS Activities	VOC	23.82	4.15	43	42, 43, 61	
		NO_x	0.15	0.03			
		SO_2	0.15	0.03			
		CO	0.15	0.03			
		Benzene	0.01	0.01			
		PM_{10}	6.30	0.39			
		$PM_{2.5}$	0.95	0.06			
DEINV-MSS	Deinventory MSS Activities	VOC	4.11	0.16	43	42, 43, 61	
		Benzene	0.05	0.01			

Major NSR Summary Table

Permit Numbers: 2501A and PSDTX767M2					Issuance Date: January 18, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
FCCU-MSS	FCCU MSS Activities	CO	1,129.66	27.11	43	42, 43, 61	
BOILER-MSS	Boiler MSS Activities	NO_X	11.99	(7)			
		CO	123.86	(7)			
TO-MSS	Thermal Oxidizer Controlled MSS Activities	VOC	5.21	3.28	52	42, 52, 61	
		NO_X	6.12	0.34			
		SO_2	0.01	0.01			
		CO	5.14	0.29			
		Benzene	0.04	0.03			
		NH_3	0.01	0.01			
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
		H_2S	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
H_2S - hydrogen sulfide
NH_3 - ammonia
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_2SO_4 - sulfuric acid
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Annual emissions from activities authorized by EPN TANK-MSS will be accommodated as part of the annual allowable rate of each of the storage tanks. Compliance will be demonstrated by performing monthly calculations as required in Special Condition No. 46.F(4).
(7) Annual emissions of NOx and CO from activities authorized by EPN BOILER-MSS will be accommodated as part of the annual allowable NOx and CO caps for the boilers.
(8) Hourly emissions are authorized by EPN TANK-MSS.

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
Valero Refining-Texas, L.P.
Authorizing the Construction and Operation of
Valero Refining Houston Refinery
Located at **Houston, Harris County, Texas**
Latitude 29° 43' 20" Longitude−95° 15' 18"

Permit: 2501A and PSDTX767M2

Amendment Date: January 18, 2019

Expiration Date: June 25, 2022

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)] [1]
2. **Voiding of Permit**. A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1)the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of $5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress**. Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification**. The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements**. If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates**. The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] [1]
9. **Maintenance of Emission Control**. The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules**. Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. [1]

[1] Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Special Conditions

Permit Numbers 2501A and PSDTX767M2

Emissions Limitations

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

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

   Safety relief valves that discharge to the atmosphere only as a result of fire or failure of utilities provided that: a) each valve is equipped with a rupture disc upstream, b) a pressure gauge is installed between the relief valve and rupture disc to monitor disc integrity, and c) all leaking discs are replaced at the earliest opportunity but no later than the next process shutdown.

   The permit holder shall keep non-fugitive emission monitoring records to demonstrate compliance with this condition.

Federal Applicability

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

   A. Subpart A, General Provisions;

   B. Subpart Db, Industrial-Commercial-Institutional Steam Generating Units;

   C. Subpart Dc, Small Industrial-Commercial-Institutional Steam Generating Units;

   D. Subpart J, Petroleum Refineries;

   E. Subpart Ja, Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007;

   F. Subpart K, Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978;

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

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

   I. Subpart GGG, Equipment Leaks of Volatile Organic Compounds (VOC) in Petroleum Refineries;

   J. Subpart GGGa, Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006; and,

K. Subpart QQQ, VOC Emissions from Petroleum Refinery Wastewater Systems.

4. These facilities shall comply with all applicable requirements of the EPA regulations in 40 CFR Part 61 on National Emission Standards for Hazardous Air Pollutants (NESHAPS) promulgated for:

A. Subpart A, General Provisions; and

B. Subpart FF, Benzene Waste Operations.

5. These facilities shall comply with all applicable requirements of EPA regulations in 40 CFR Part 63 on NESHAPS for Source Categories for:

A. Subpart A, General Provisions;

B. Subpart CC, Petroleum Refineries;

C. Subpart UUU, Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units;

D. Subpart DDDDD, Industrial, Commercial and Industrial Boilers.

Fuel Gas

6. The following requirements apply to Refinery fuel gas.

A. Refinery fuel gas shall contain no more than:

(1) 10 grains H_2S per 100 dscf on a 3-hr basis; and

(2) 0.05 grain hydrogen sulfide (H_2S) per dry standard cubic foot (dscf) on an annual basis;

B. The holder of this permit shall operate a continuous hydrogen sulfide monitoring system in a representative portion of each fuel gas system common to the permitted combustion units in accordance with the fuel sulfur monitoring requirements of 40 CFR § 60.105.

Fuel gas used in the flare pilots (EPNs 30FL1 and 30FL6), shall be sweet, natural gas containing no more than five grains of total sulfur per 100 dry standard cubic feet (dscf). The FCCU Peabody heater may operate on refinery fuel gas if it contains no more than 10 grains of total H_2S per 100 dscf on a 3-hr basis.

Heaters and Boilers

7. The following Heaters and Boilers are subject to all applicable requirements of 40 CFR Part 60, Subpart J: 23BA301, 23BA302, 23BC201, 27BA1000, 28BA1200, 29BA1300, 41BA101, 41BA102, 81BA25, 44BA3001, 44BA3002, 44BA3005, 81BF01, 50BF02, 50BF03, and EPN 40BA1001, Combined Heaters consisting of Facility Identification Numbers (FINs) 40BA1001 (LCO Charge Heater), 40BA1002 (Diesel Charge Heater), and 40BA1101 (Fractionation Reboiler Heater).

A. Fuel used in the heaters and boilers shall be limited to refinery fuel gas or natural gas. Use of any other fuel will require an amendment to the permit.

B. The holder of this permit shall comply with the H_2S monitoring requirements of 40 CFR § 60.105(a)(4) if 40 CFR § 60.105(a)(3) monitoring for sulfur dioxide is not utilized. When EPN 17H01 becomes operational, the H_2S monitoring requirements of NSPS Subpart Ja will be applicable to all boilers and heaters.

C. The heaters and boilers shall comply with the emission rate limits represented in Attachments A, B, and C.

D. Heaters and boilers are prohibited from burning or combusting fuel oil. For purposes of this paragraph, fuel oil is predominately in the liquid phase at the point of combustion with a sulfur content of greater than 0.05% by weight. **(07/16)**

8. Opacity of emissions from package boilers and heaters shall not exceed 5 percent average over a six minute period as determined by the EPA Reference Method 9, except for those periods described in 30 TAC § 111.111(a)(1)(E).

9. The total heat input for the ULSD heaters (LCO Charge Heater, Diesel Charge Heater, and Fractionation Reboiler Heater) (EPN 40BA1001) shall not exceed 165 MMBtu/hr based upon fuel higher heating value. The permit holder shall monitor hourly and annual firing rates to the heaters. These records shall be used to demonstrate compliance with this condition.

Fluidized Catalytic Cracking Unit (FCCU)

10. The FCCU Unit is subject to all applicable requirements of 40 CFR Part 60, Subpart J. Nitrogen Oxide (NO_x) emissions from the FCCU stack must not exceed 38 ppmvd, measured as a 7-day rolling average, and 19 ppmvd, measured as a 365-day rolling average, both at 0% O_2.

11. SO_2 emissions from the FCCU stack must not exceed 50 ppmvd, measured as a 7-day rolling average, and 25 ppmvd, measured as a 365-day rolling average, both at 0% O_2.

12. During routine operations, 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 ppmvd
sulfur dioxide (SO_2)	300 ppmvd
nitrogen oxides (NO_x)	200 ppmvd

All concentrations are measured at 0% O_2.

13. Opacity of emissions from the Fluid Catalytic Cracking Unit (FCCU) Stack (Emission Point No. [EPN] 42CB2201) must not exceed 20 percent averaged over a six minute period, except for those periods described in Title 30 Texas Administrative Code (30 TAC) §111.111(a)(1)(E).

14. Emissions from the FCC Unit Stack shall not exceed one (1) pound of particulate matter per 1,000 pounds of coke burn-off (front-half only according to 40 CFR Part 60, Method 5B or 5F, as appropriate), measured as a one-hour average over three performance test runs. Compliance with MAERT limit will be demonstrated by adding front half and back half amounts of particulate matter. **(07/16)**

15. The FCC Unit Stack liquid- to- gas ratio (L/G) value, quench/spray tower pump discharge pressure (PRPDH) value, and Agglo Filtering Modules pump discharge pressure (PAFMD) value shall be monitored and maintained greater than 56 gallons per minute (gpm) per thousand standard cubic feet per minute (Mscfm) of exhaust flue gas, 46.8 pounds per square inch gauge pressure (psig), and 100.9 psig, respectively, on an hourly basis. **(07/16)**

Sulfur Recovery Block

16. The Sulfur Recovery Plants are subject to all applicable requirements of 40 CFR Part 60, Subpart J. Refinery acid gas and SWS overhead shall be routed to the SRUs. The SRU shall be followed by a tail gas unit which includes a Tail Gas Incinerator (TGI).

17. The total sulfur recovery from both SRUs shall not exceed 300 long tons per day (LTPD). The Unit 39 SRU shall not exceed a sulfur recovery rate of 247 LTPD, and Unit 46 SRU shall not exceed a sulfur recovery rate of 225 LTPD.

18. The minimum sulfur recovery efficiency for the SRUs shall be 99.8 percent on a daily average. The sulfur recovery efficiency shall be determined by calculation as follows:

    Efficiency = (S recovered)*(100)

    (S recovered) + (S incinerator)

    Where:

    Efficiency = sulfur recovery efficiency, percent

    S recovered= (elemental S in pit), lbs/day

    S incinerator = sulfur in incinerator stack, lbs/day

    The sulfur recovery efficiency shall be demonstrated for each calendar day (24 hour period) by a mass balance calculation using data obtained from the incinerator stack sulfur dioxide (SO_2) monitor and sulfur production records (sulfur pit and tank levels, sulfur deliveries) and other operating data. Records and copies of the compliance calculations shall be maintained.

19. Emissions from the sulfur pit, sulfur tank, and loading operations shall be routed to the TGIs or recycled back to the inlet of the SRUs. **(2/17)**

20. The TGI shall either operate with no less than 99.9 percent efficiency in disposing of the waste streams or operate with an exhaust H_2S concentration of less than 5 ppmv, corrected to 3 percent oxygen (O_2).

21. The in-stack concentration of SO_2 from the TGI shall not exceed 250 ppmv, calculated as an hourly average on a dry and air-free basis. During circumstances when the overall unit charge changes by 15% or more from the previous 24-hour overall charge, compliance with the 250 ppmv limit may be demonstrated using a 6-hour average on a dry and air-free basis if the emission rate is below the allowable on the MAERT.

22. The in-stack concentration of CO from the TGI shall not exceed 100 ppmv, calculated as an hourly average on a dry and 3 percent O_2 basis.

23. There shall be no visible emissions from the TGI stacks.

24. The Units 39 and 46 rich amine flash drums shall be equipped with a level detection device. This detector shall alarm immediately should the amine/hydrocarbon level go below the low level set

point on the amine flash drum level controller. In addition, the rich amine flash drums shall be manually checked for hydrocarbons at least once per day using sight glasses or level indicators. Records of all alarms and level checks shall be maintained. All sight glasses or level indicators used to manually check for hydrocarbon level in the amine flash drums shall be maintained and kept in operating conditions according to manufacturer specifications.

25. The sour water flow rate to the SWS shall not exceed 500 gallons per minute on an hourly average. The permit holder shall maintain a record of the sour water charge rate (in gallons per minute) to the stripper which shall be made available upon request to TCEQ personnel or local air pollution control agencies having jurisdiction. If the SRUs are or become unavailable, every effort shall be made to accumulate sour water in the sour water storage tanks or, if possible, shut down SWS operations. The SWS overhead shall be immediately directed to the SRUs when they become available.

    Sour water stripper feed tanks shall be equipped with an interface level detection device which will provide sour water/hydrocarbon interface level detection. This detector shall alarm immediately should the sour water/hydrocarbon interface go below five feet. In addition, the sour water stripper feed tank shall be manually checked for hydrocarbons at least once per day using sight glasses or tricocks. Alternatively, redundant interface level detection devices may be installed and operated to provide a continuous measure of assurance for the water hydrocarbon interface level. At least five feet of sour water shall be maintained in the feed tank at any given time. If hydrocarbons are discovered at or below five-foot level, steps shall be taken to restore the sour water level back to the five foot level. Records of all alarms and manual interface checks (sight glass or tricock checks) shall be maintained.

    All sight glasses or tricocks shall be maintained and kept in operating condition according to manufacturer specifications.

    The sour water stripper surge system shall have a minimum on line retention time of three days based on the sour water flow rate into the tanks which is not to exceed 500 gallons per minute. The above retention time shall be based on a seven-day rolling average. The on-line retention time may be reduced to one and a half days based on the sour water flow rate into the tanks for periods not to exceed two weeks and only for planned maintenance activity for the Sour Water Stripper operating area. Records of these periods and the corresponding maintenance activity must be maintained and made available upon request.

    There shall be at least three days of holdup (excess) capacity maintained for sour water storage. This capacity shall only be used for sour water storage when necessary to avoid flaring of acid gases due to reduced SRU complex capacity. It shall be restored within one week of the return of the sulfur recovery complex to normal operations.

26. The minimum operating temperatures for the thermal reactors were determined during the initial NH_3 sampling test of the acid gas entering the catalyst bed.

    The thermal reactor temperature shall be monitored and recorded hourly; and the records of the sampling time, date, and sampling results shall be maintained to demonstrate compliance with the 300 ppmv limit.

27. The tailgas incinerator (TGI) firebox exit temperature and oxygen concentration shall be monitored and recorded. The temperature measurement device shall reduce the temperature readings to an

averaging period of 6 minutes or less and record it at that frequency. During circumstances when the overall unit charge changes by 15% or more from the previous 24-hour overall charge, compliance with the temperature limit may be demonstrated using a 1-hour average if the SO_2 emission rate is below the allowable on the MAERT. The temperature monitor shall be installed, calibrated at least annually, and maintained according to the manufacturer's specifications. In lieu of the annual calibration, the existing temperature monitor may be replaced by a new one. The device shall have an accuracy of the greater of ±2 percent of the temperature being measured expressed in degrees Celsius or ±2.5ºC.

A. 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 tailgas incinerator operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

B. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the TGI operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded. **(12/16)**

C. The TGI shall be operated with not less than the O_2 concentration maintained during the last satisfactory stack test performed in accordance with Special Condition No. 54. The firebox chamber six-minute average temperature shall be maintained above the lowest hourly average temperature maintained during the last satisfactory stack test performed in accordance with Special Condition No. 54.

Cooling Towers

28. The cooling towers (EPNs [27CWT2, 22CWT3, 23CWT7, 44CWT9, 42CWT10, and 40CWT11]) shall be operated and monitored in accordance with the following:

A. The cooling tower water shall be monitored monthly for VOC leakage from heat exchangers in accordance with the requirements of the TCEQ Sampling Procedures Manual, Appendix P (dated January 2003 or a later edition) or another air stripping method approved by the TCEQ Executive Director. The heat exchange and cooling tower system shall be maintained so as to minimize VOC emissions. Cooling water VOC concentrations above 0.08 part per million by weight (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.

B. 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.

C. Each cooling tower shall be equipped with drift eliminators having manufacturer’s design assurance as represented in the attached table below. Drift eliminators shall be maintained and inspected at least annually. The permit holder shall maintain records of all inspections and repairs.

Cooling Tower	Drift Eliminator Control Efficiency
27CWT2	0.05%
22CWT3	0.001%
23CWT7	0.05%
44CWT9	0.001%
42CWT10	0.001%
40CWT11	0.001%

D. Dissolved solids in the cooling water drift are considered to be emitted as PM, PM_{10}, and $PM_{2.5}$. The data shall result from collection of water samples from the cooling tower return water and represent the water being cooled in the tower. Cooling towers shall be analyzed for particulate emissions using one of the following methods:

(1) The cooling water shall be sampled at least once a month for total dissolved solids (TDS); or

(2) TDS monitoring may be reduced to quarterly if conductivity is monitored daily and TDS is calculated using a correlation factor established for each cooling tower. The correlation factor shall be the average of nine consecutive weekly TDS-to-conductivity ratios provided the highest ratio is not more than 10% larger than the smallest ratio. The ratio of TDS-to-conductivity shall be determined by concurrently monitoring TDS and conductivity on a weekly basis. The permit holder may use the average of two consecutive TDS-to-conductivity ratios to calculate daily TDS. The permit holder shall validate the TDS-to-conductivity correlation factor once each calendar quarter. If the ratio of concurrently sampled TDS and conductivity is more than 10% higher or lower than the established factor, the permit holder shall increase TDS monitoring to weekly until a new correlation factor can be established.

(3) The analysis method for TDS can be EPA Method 160.1, ASTM D5907, or SM 2540 C [SM - 19th edition of Standard Methods for Examination of Water]. The analysis method for conductivity can be ASTM D1125-95A or SM2510 B. Alternatively, conductivity can be determined by using an instrument with an error not exceeding 1% of reading. Use of another method shall be approved by the TCEQ Regional Director prior to its implementation.

Sampling of cooling towers becomes effective 180 days after this permit is issued.

VOC Storage Tanks

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

A. An internal floating deck or “roof” or equivalent control shall be installed in all tanks. The floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof: (1) a liquid-mounted seal, (2) two continuous seals mounted one above the other, or (3) a mechanical shoe seal.

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

C. For any tank equipped with a floating roof, the permit holder shall perform the visual inspections and seal gap measurements as 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 seals were inspected and seal gap measurements made, results of inspections and measurements made (including raw data), and actions taken to correct any deficiencies noted.

D. 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.

E. Uninsulated tank exterior surfaces exposed to the sun shall be white or aluminum. Storage tanks must be equipped with permanent submerged fill pipes.

F. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all storage tanks during the previous calendar month and the past consecutive 12 month period. The record shall include tank identification number, control method used, tank capacity in gallons, name of the material stored, 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.

G. Emissions for tanks shall be calculated using: the TCEQ publication titled “Technical Guidance Package for Chemical Sources - Storage Tanks.”

30. Upon request by TCEQ personnel or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the liquid(s) stored in any of the tanks associated with this permit or shall allow air pollution control agency representatives to obtain a sample for analysis.

Loading

31. 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. Records of VOC temperature are not required to be kept for liquids loaded from unheated tanks which receive liquids that are at or below ambient temperatures. Emissions shall be calculated using the TCEQ publication titled “Technical Guidance Package for Chemical Sources - Loading Operations.”

32. 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.

33. All LPG loading shall be pressurized and the loading hoses depressured to the flares or flare gas recovery system after loading is complete.

34. Each tank truck shall pass vapor-tight testing every 12 months using the methods described in Title 40 Code of Federal Regulations Part 60 (40 CFR 60), Subpart XX. The permit holder shall not allow a tank truck to be filled unless it has passed a leak-tight test within the past year as evidenced by a certificate which shows the date the tank truck last passed the leak-tight test required by this condition and the identification number of the tank truck.

Wastewater

35. The API Separator Diversion Pit (EPN 47AD5401) shall be covered.

36. Wastewater grab samples shall be taken at least monthly to determine the VOC concentration in the wastewater. The samples shall be taken in a representative portion of the wastewater stream upstream and downstream of the Dissolved Air Floatation Unit. The wastewater VOC concentrations shall be used to demonstrate compliance with the allowable emission rates. Sampling procedures shall be approved by the TCEQ Regional Director.

Flares

37. The following requirements apply to Flares 30FL1 and 30FL6. The flares are subject to all applicable requirements of 40 CFR Part 60, Subpart Ja. The flares are designed and will operate in accordance with the following requirements:

    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, upset, 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 to demonstrate compliance with these requirements.

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

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

    D. The permit holder shall install continuous flow monitors and composition analyzers that provide a record of the vent stream flow and composition to the flare. The flow monitor sensor and analyzer sample points shall be installed in the vent stream as near as possible to the flare inlet such that the total vent stream to the flare is measured and analyzed.

Readings shall be taken at least once every 15 minutes and the average hourly values of the flow and composition shall be recorded each hour.

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

E. Calibration of the analyzers 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).

F. The monitors and analyzers shall operate as required by this section at least 95% of the time when the flare is operational, averaged over a rolling 12 month period. Flared gas net heating value and actual exit velocity determined in accordance with 40 CFR §60.18(f)(4) shall be recorded at least once every 15 minutes. Hourly mass emission rates shall be determined and recorded using the above readings and the emission factors used in the permit amendment application, PI-1 dated May 9, 2012.

G. Carbon Compound Waste Gas Streams - Except as may be provided for in the special conditions or maximum allowable emission rates table of this permit, all waste gas from point sources containing VOC and/or other organic compounds (hydrocarbons and/or hydrocarbon derivatives excluding carbon dioxide) from the process units covered by this permit shall be routed to a flare or a flare gas recovery system. The flare shall operate with no less than 98 percent efficiency in disposing of the carbon compounds captured by the collection system.

H. Cylinder gas audits following 40 CFR §60.107a(e)(2)(ii) may be used as an alternate Relative Accuracy Test Audit (RATA) method for the Main Refinery Flare (EPN 30FL1) and ULSD Flare (EPN 30FL6) when the flare gas recovery system is down for maintenance. **(2/17)**

Compliance Assurance Monitoring (CAM)

38. The following requirements apply to capture systems for the Main Refinery Flare and ULSD Flare Combined Emissions (EPNs 30FL1 and 30FL6), FCCU (EPN 42CB2201), and Tail Gas Incinerators for SRU Units 39 & 46 (EPNs 39CB2001 & 46CB6301).

A. If used for particulate control, complete either of the following once a year

(1) Visually inspect the capture system to verify there are no cracks, holes, tears, and other defects; or

(2) Verify there are no fugitive emissions escaping from the capture system 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.

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

(1) Conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or

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

Fugitive Monitoring

39. Piping, Valves, Connectors, Pumps, Agitators, and Compressors - 28VHP

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

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

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

(1) piping and instrumentation diagram (PID);

(2) a written or electronic database or electronic file;

(3) color coding;

(4) a form of weatherproof identification; or

(5) designation of exempted process unit boundaries.

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

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

D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified may instead be monitored annually.

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

be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

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

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

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

F. Accessible valves shall be monitored by leak checking for fugitive emissions at least quarterly using an approved gas analyzer. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. If a relief valve is equipped with rupture disc, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity.

A check of the reading of the pressure-sensing device to verify disc integrity shall be performed at least quarterly and recorded in the unit log or equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

The gas analyzer shall conform to requirements listed in Method 21 of 40 CFR part 60, appendix A. The gas analyzer shall be calibrated with methane. In addition, the response factor of the instrument for a specific VOC of interest shall be determined and meet the requirements of Section 8 of Method 21. If a mixture of VOCs is being monitored, the response factor shall be calculated for the average composition of the process fluid. A calculated average is not required when all of the compounds in the mixture have a response factor less than 10 using methane. If a response factor less than 10 cannot be achieved using methane, then the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

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

G. Except as may be provided for in the special conditions of this permit, all pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly or be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. Seal systems designed and operated to prevent emissions or seals equipped with an automatic seal failure detection and alarm system need not be monitored. These seal systems may include (but are not limited to) dual pump seals with barrier fluid at higher

pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

H. Damaged or leaking valves or connectors found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. Damaged or leaking pump, compressor, and agitator seals found to be emitting VOC in excess of 2,000 ppmv or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days and a record of the attempt shall be maintained.

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

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

K. Alternative monitoring frequency schedules of 30 TAC § 115.352 - 115.359 or National Emission Standards for Organic Hazardous Air Pollutants, 40 CFR Part 63, Subpart H, may be used in lieu of Items F through G of this condition.

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

40. Piping, Valves, Pumps, and Compressors in H_2S and NH_3 Service

A. Audio, olfactory, and visual checks for H_2S and NH_3 leaks within the Amine Unit, Sour Water Stripper (SWS), Sulfur Recovery Unit (SRU), and NH_3 storage area shall be made once every day.

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

(1) Locate and isolate the leak.

(2) Initiate actions to effect the repair or replacement of the leaking component, as appropriate.

If immediate repair is not possible, a leak collection or containment system will be used to prevent or minimize the leak or the facility shall be shutdown in an orderly manner until repair or replacement can be made. Containment can include adjustment of bolts, fittings, packing glands, and pump or compressor seals to contain the leak. Date and time of each inspection shall be noted in the operator's log or equivalent. Records shall be maintained at the plant site of all repairs and replacements made due to leaks. These records shall be made available to representatives of the Texas Commission on Environmental Quality (TCEQ) upon request.

Maintenance, Startup and Shutdown (MSS)

41. This permit authorizes Planned Maintenance, Startup, and Shutdown emissions from the facilities included in attachments D, E, and F, only from those points listed in the attached table entitled “Emission Sources - Maximum Allowable Emission Rates,” and the facilities covered by this permit are authorized to emit subject to the emission rate limits on that table and other operating conditions specified in this permit.

42. This permit authorizes the emissions resulting from the planned maintenance, startup, and shutdown (MSS) activities summarized in the MSS Activity Summary (Attachment F) attached to this permit.

Attachment D identifies the inherently low emitting MSS activities that may be performed at the Refinery. Emissions from activities identified in Attachment D 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 D must be revalidated annually. This revalidation shall be limited to the estimated emissions for each type of activity and the basis for that emission estimate.

Routine maintenance activities, as identified in Attachment E may be tracked through work orders or equivalent. Emissions from activities identified in Attachment E 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 D or E 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 from the Maximum Allowable Emission Rates Table (MAERT) 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.

43. Process units and facilities, with the exception of those identified in Special Condition Nos. 46, 47, and 49, and in Attachment D, shall be depressurized, emptied, degassed, and placed in service in accordance with the following requirements during MSS: **(12/16)**

A. The process equipment shall be depressurized to a control device or a controlled recovery system prior to venting to atmosphere. Equipment that only contains material that is liquid with volatile organic compounds (VOC) true vapor pressure (TVP) less than 0.50 psia at the highest of the actual temperature or 95°F may be opened to atmosphere and drained in accordance with Paragraph C of this special condition. 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 actual 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 TVP greater than or equal to 0.044 psia at 68°F shall be drained into a closed vessel unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid 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 psia at the actual 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 following requirements do not apply to fugitive components, pumps, compressors.

(1) For MSS activities identified as routine maintenance activities in SC No. 42, the following option may be used in lieu of item (2) below. The facilities being prepared for maintenance shall not be vented directly to atmosphere until the VOC concentration has been verified to be less than 10 percent of the lower explosive limit (LEL) per the site safety procedures. **(2/17)**

(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 (process flow diagrams [PFDs] or piping and instrumentation diagrams [P&IDs], or Turnaround and Inspection (T&I) plans may be used to demonstrate compliance with the requirement). If the process equipment is purged with a gas, two system volumes of purge gas must have passed through the control device or controlled recovery system before the vent stream may be sampled to verify acceptable VOC concentration prior to uncontrolled venting. The VOC sampling and analysis shall be performed using an instrument meeting the requirements of SC No. 44. The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged. The facilities shall be degassed to a control device or controlled recovery system until the VOC concentration is less than 10,000 ppmv or 10 percent of the LEL. Documented site procedures used to de-inventory equipment to a control device for safety purposes (i.e., hot work or vessel entry procedures) that achieve at least the same level of purging may be used in lieu of the above.

(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. 44 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 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); and

(3) There is no more than 50 lbs of any individual air contaminant to be vented to atmosphere during shutdown or start-up, as applicable.

Except when identified for an activity on SC No. 43, all instances of venting directly to atmosphere per SC No. 44 must be documented when occurring as part of any MSS activity.

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

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

(1) The instrument shall be calibrated within 24 hours of use with a calibration gas such that the response factor (RF) of the VOC (or mixture of VOCs) to be monitored shall be less than 2.0. The calibration gas and the gas to be measured, and its approximate

(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

In no case should a calibration gas be used such that the RF of the VOC (or mixture of VOCs) to be monitored is greater than 5.0.

(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, recording VOC concentration each minute. As an alternative the VOC concentration may be monitored over a five-minute period with an instrument designed to continuously measure concentration and record the highest concentration read. The highest measured VOC concentration shall be recorded and 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 subparagraph (3) below, 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 times the 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 gas standard at 25 percent of the LEL for pentane. Records of the calibration date and calibration result (pass/fail) shall be maintained.

(2) A daily functionality test shall be performed on each detector within 24 hours of use with a certified gas standard at 25% of the LEL for pentane. The LEL monitor shall read no lower than 90 percent of the calibration gas certified value. Records, including the date/time and test results, shall be maintained.

(3) A certified methane gas standard equivalent to 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. 52 B and C, 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.

45. This condition applies only to piping and components subject to leak detection and repair monitoring requirements identified in this permit or in other air 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 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:

A. a cap, blind flange, plug, or second valve must be installed on the line or valve or demonstrate that the line, valve, component, etc. has been double blocked from the process; 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 at the end of 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 500 ppmv above background and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

46. This permit authorizes emissions associated with the storage tanks planned floating roof landings. Tank 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 refloated. Tank change of service include 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 hourly allowable emission rates indicated on the maximum allowable emission rates table. The following requirements apply to tank roof landing.

A. The tank liquid level shall be continuously lowered after the tank floating roof initially lands on its supporting legs until the tank has been drained to the maximum extent practicable without entering the tank. Liquid level may be maintained steady for a period of up to two hours if necessary to allow for valve lineups and pump changes necessary to drain the tank. This requirement does not apply where the vapor under a floating roof is routed to control or a controlled recovery system during this process.

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 after the tank has been drained and the emissions documented in accordance with Paragraph F of this condition

B. If the VOC true vapor pressure of the liquid previously stored in the tank is greater than 0.50 psia 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 0.044 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 SC No. 44.

(4) The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged.

(5) Degassing must be performed every 24 hours unless there is no standing liquid in the tank or the VOC partial pressure of the remaining liquid in the tank is less than 0.15 psia.

C. The tank shall not be opened or ventilated without control, except as allowed by (1) 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.

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 true vapor pressure less than 0.044 psia. These criteria shall be demonstrated in any one of the following ways:

(1) Low VOC true vapor pressure liquid that is soluble with the liquid previously stored may be added to the tank to lower the VOC true vapor pressure of the liquid mixture remaining in the tank to less than 0.044 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 true vapor 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 1000 ppmw using EPA method 1664 (may also use Methods 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 SC No. 44.

(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, unless 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. 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 true vapor pressure liquid to or from the tank including volumes and vapor pressures to reduce tank liquid VOC true vapor pressure to 0.044 psia,

(e) if there is liquid in the tank, VOC true vapor 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. The total emissions associated with the controlled degassing activities of all tanks shall be in compliance with the allowable limits on this permit's MAERT for EPN TO-MSS, "Thermal Oxidizer Controlled MSS Activities." The uncontrolled annual MSS emissions of individual storage tanks associated with activities authorized by the EPN TANK-MSS, "Tank MSS Activities" shall be accounted for as part of the annual allowable for routine emissions from each tank in the permit in which it is authorized.

47. Fixed-roof storage tanks are subject to the requirements of SC No. 46C and D. If the ventilation of the vapor space is controlled, the emission control system shall meet the requirements of SC No. 46.B(1) through 46.B(4). Records shall be maintained per SC No. 46.F(3)c through e, and 46.F(4).

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

A. Prior to initial use, identify any liquid in the truck. Record the liquid level and document 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, 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.

B. If vacuum pumps or blowers are operated when liquid is in or being transferred to the truck, the following requirements apply:

(1) If the VOC partial pressure of the liquid in or being transferred to the truck is greater than 0.50 psi at 95°F, the vacuum/blower exhaust shall be routed to a control device or a controlled recovery system.

(2) Equip fill line intake with a "duckbill" or equivalent attachment if the hose end cannot be submerged in the liquid being collected.

(3) A daily record containing the information identified below is required for each vacuum truck in operation at the site each day.

(a) 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.

(b) 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 at least every hour during each transfer shall be recorded, measured using an instrument meeting the requirements of SC No.44.

C. Record 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 A through D of this permit condition do not apply.

49. 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% 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, sampled, gauged, or when removing material.

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 except when filling, sampling, gauging, or when removing material.

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.

50. Additional occurrences of MSS activities authorized by this permit may be authorized under permit by rule only if conducted in compliance with this permit’s procedures, emission controls, monitoring, and recordkeeping requirements applicable to the activity.

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

A. Combustion units at this site, with the exception of flares, are exempt from nitrogen oxides (NO_x), carbon monoxide (CO), and ammonia (NH_3) operating requirements identified in special conditions in other air permits during planned startup, shutdown, and maintenance 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 shall not exceed 8 hours in duration and the firing rate shall not exceed 75 percent of the design firing rate. The time it takes to complete the shutdown shall not exceed 4 hours.

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

(4) If refractory drying is necessary during startup, the startup period shall not exceed 36 hours.

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

EPN	Source Name	Alternate Limit	
		Pollutant	Limit
42CB2201	FCC Unit Stack **(12/16)**	NO_x	512 ppmvd
		CO	1,012 ppmvd
		SO_2	256 ppmvd
39CB2001	Unit 39 SRU **(07/16)**	SO_2	620 ppmvd
46CB6301	Unit 46 SRU **(07/16)**	SO_2	620 ppmvd

The startup period for the FCC Unit Stack (EPN 42CB2201) ends when torch oil is no longer needed to keep dense bed temperature stable. The shutdown period for EPN 42CB2201 begins when the charge rate is reduced to prepare the unit for feed out. For both Tail Gas Incinerator Units (EPNs 39CB2001 and 46CB6301), the startup period begin when acid gas is fed to the units and the shutdown period begins when acid gas is removed from the units. The alternate limits do not authorize bypassing of the Tail Gas Treatment Units. **(07/16)**

C. The residual oil lines may be flushed down with diesel fuel for no more than 240 hours per year.

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

52. 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 plant process or to a collection system that is vented through a control device meeting the requirements of this permit condition.

A. 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 thermal couple 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) The plant flare will monitor waste gas and ensure that adequate British Thermal units per standard cubic foot (Btu/scf) at the flare tip is attained by using both a flow meter and a gas chromatograph.

B. 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 downstream of the first can and the concentration recorded at least once every hour of CAS run time to determine breakthrough of the VOC. The sampling frequency may be extended using either of the following methods:

(a) It may be extended to up to 30 percent of the minimum potential saturation time for a new can of carbon. The permit holder shall maintain records including the calculations performed to determine the minimum saturation time.

(b) The carbon sampling frequency may be extended to longer periods based on previous experience with carbon control of a MSS waste gas stream. The past experience must be with the same VOC, type of facility, and MSS activity. The basis for the sampling frequency shall be recorded. If the VOC concentration on the initial sample downstream of the first carbon canister following a new polishing canister being put in place is greater than 100 ppmv above background, it shall be assumed that breakthrough occurred while that canister functioned as the final polishing canister and a permit deviation shall be recorded.

(3) The method of VOC sampling and analysis shall be by detector meeting the requirements of SC No. 44.

(4) Breakthrough is defined as the highest measured VOC concentration at or exceeding 100 ppmv above background. When the condition of breakthrough of VOC from the initial saturation canister occurs, the waste gas flow shall be switched to the second canister and a fresh canister shall be placed as the new final polishing canister within four hours. Sufficient new activated carbon canisters shall be maintained at the site to replace spent carbon canisters such that replacements can be done in the above specified time frame.

(5) Records of CAS monitoring shall include the following:

(a) Sample time and date;

(b) Monitoring results (ppmv); and

(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.

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

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

(2) The method of VOC sampling and analysis shall be by detector meeting the requirements of SC No. 44.

(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.

D. Thermal Oxidizer.

(1) The thermal oxidizer firebox exit temperature shall be maintained at not less than 1400°F and waste gas flows shall be limited to assure at least a 0.5 second residence time in the fire box while waste gas is being fed into the oxidizer.

(2) The thermal oxidizer exhaust temperature shall be continuously monitored and recorded when waste gas is directed to the oxidizer. The temperature measurements shall be made at intervals of six minutes or less and recorded at that frequency.

The temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of ±0.75 percent of the temperature being measured expressed in degrees Celsius or ±2.5ºC.

(3) The portable thermal oxidizer firebox exit temperature may be maintained at a temperature less than 1400°F if stack testing supports a destruction efficiency of at least 98.0 percent at the lower temperature. The stack test shall have been performed in the past twelve months and documentation shall be maintained to demonstrate compliance with this special condition.

Initial Demonstration of Compliance

53. 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 by the Package Boilers 1, 2, and 3 (EPNs 81BF01, 50BF02, and 50BF03). The testing required by this special condition for NO_x and CO shall be used to determine initial compliance with the limits specified in the MAERT. Initial compliance with the permit opacity limit of Special Condition No. 8 shall be demonstrated on the basis of compliance with 40 CFR § 60.11 (b). Sampling must be conducted in

accordance with appropriate procedures of the TCEQ Sampling Procedures Manual and in accordance with the EPA Reference Method 9 for opacity, Reference Method 10 for CO, Reference Method 7E for NO_x, and Reference Method 3 for O_2 or equivalent methods.

The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operation at his expense.

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

(1) Date for pretest meeting.

(2) Date sampling will occur.

(3) Name of firm conducting sampling.

(4) Type of sampling equipment to be used.

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

(6) Proposed method of demonstrating compliance with 40 CFR § 60.48b.

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

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

Requests to waive testing for any pollutant specified in Special Condition No. 56.B shall be submitted to the TCEQ Office of Permitting and Registration, Air Permits Division. Test waivers and alternate/equivalent procedure proposals for NSPS testing which must have the EPA approval shall be submitted to the TCEQ Regional Director.

B. The air contaminants emitted from the boilers to be tested for include (but are not limited to) NO_x, CO, NH_3, O_2, VOC, and opacity. If the boilers are unable to reach the maximum firing rate during testing, then future firing may be limited to the highest firing rate achieved during testing. Furthermore, if the boilers are unable to comply with the emission limits of this permit for any or all of the pollutants of this permit while operating at maximum firing during the test, then future firing will be limited to the maximum emissions-complying firing tested. Additional stack testing may be required for higher firing outside the emissions-complying maximum achieved during the test to be authorized. During the initial stack test, the permit holder may be allowed to fire the boilers at levels up to 15 percent above the firing rate limits represented in the permit amendment application received July 22, 2004.

C. Sampling shall occur within 60 days after the facilities achieve maximum production but not later than 180 days after initial start-up of the facilities and at such other times as may be required by the Executive Director of the TCEQ. Requests for additional time to perform stack sampling shall be submitted to the TCEQ Regional Office.

Additional time to comply with the applicable requirements of 40 CFR Part 60 require EPA approval, and requests shall be submitted to the TCEQ Regional Director. The last acceptable stack test was conducted on February 22, 2006 and September 19-20, 2006.

D. Two copies of the final sampling report shall be forwarded to the appropriate agencies within 60 days after sampling is completed. Sampling reports shall comply with the provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

One copy to the TCEQ Houston Regional Office.

One copy to the appropriate local programs.

54. The holder of this permit shall perform stack sampling and other testing as required to establish the sulfur recovery efficiency and actual pattern and quantities of emissions from the TGI (EPNs 39CB2001 and 46CB6301). The holder of this permit is responsible for providing sampling and testing facilities and conducting sampling and testing operations at his expense.

A. The appropriate TCEQ Regional Office and local air programs having jurisdiction shall be contacted 45 days prior to sampling to schedule a pretest meeting.

This notice shall include:

(1) Date for pretest meeting.

(2) Date sampling will occur.

(3) Name of firm conducting sampling.

(4) Type of sampling equipment to be used.

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

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

A written proposed description of any deviation from the sampling procedures specified in a permit condition or TCEQ or the U. S. Environmental Protection Agency (EPA) sampling procedures shall be made available to the TCEQ and any local air program having jurisdiction, at or prior to the pretest meeting. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedure. Requests to waive testing for any pollutant specified in subparagraph B of this permit condition shall be submitted to the TCEQ Regional Director. If the waiver is approved by the TCEQ, a copy of the approval document and supporting data shall be mailed to local air programs having jurisdiction by the regulated entity within 30 days after approval.

B. Air contaminants emitted from the TGIs to be tested for include (but are not limited to) CO, H_2S, NH_3, NO_x, and SO_2, to ensure compliance with Special Condition Nos. 20, 21, and 22.

C. Sampling shall occur within 180 days after the start-up of the modified Unit 46 SRU and within 180 days after the start-up of the Unit 39 SRU, and at such other times as may be required by the Executive Director of the TCEQ. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office. If request for additional time to perform sampling is approved by the TCEQ, a copy of the approval document and supporting data shall be mailed to local air programs having jurisdiction by the regulated entity within 30 days after approval. Additional time to comply with the requirements of 40 CFR Part 60 and 40 CFR Part 61 cannot be granted. The last acceptable stack test was conducted on September 21-22, 2011.

D. Copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

One copy to the appropriate TCEQ Regional Office.

One copy to each appropriate local air pollution control program.

E. Sampling ports and platforms shall be incorporated into the design of the TGI stack according 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 or the TCEQ Director of the Compliance Support Division in Austin.

55. The holder of this permit shall perform stack sampling and other testing as required by the TCEQ Executive Director or his representative to establish the actual pattern and quantities of air contaminants being emitted from the FCC Unit Stack (EPN 42CB2201). Sampling shall be conducted in accordance the appropriate procedures of the TCEQ Sampling Procedure Manual and in accordance with the appropriate EPA Reference Methods. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.

A. The appropriate TCEQ Regional Office in the region where the source is located shall be contacted as soon as testing is scheduled but not less than 30 days prior to sampling to schedule a pretest meeting. The notice shall include:

(1) Date for pre-test meeting.

(2) Date sampling will occur.

(3) Name of firm conducting sampling.

(4) Type of sampling equipment to be used.

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

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

A written proposed description of any deviation from sampling procedures specified in permit conditions or TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Regional Director shall approve or disapprove of any deviation in specified sampling procedures. Requests to waive testing for any pollutant specified in paragraph B of this condition shall be submitted to the TCEQ Air Permits Division in Austin.

B. Air constituents emitted from the FCC Unit Stack (EPN 42CB2201) to be tested for include (but are not limited to) filterable particulate, total suspended particulate, oxygen, CO, SO_2, and NO_x.

C. The last acceptable stack test was conducted on December 19, 2008. Sampling shall also occur at such other times as may be required by the Executive Director of the TCEQ.

D. The FCCU catalyst regenerator shall operate at maximum coke burn rate during stack emission testing. Primary operating parameters that enable determination of coke bum rate shall be monitored and recorded during the stack test. These parameters shall be determined

at the pretest meeting and shall be stated in the sampling report. If the FCCU is unable to operate at maximum rates during testing, then future production rates may be limited to the rates established during testing.

E. Copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the conditions of Chapter 14 of the TCEQ. The reports shall be distributed as follows:

One copy to the appropriate TCEQ Regional Office;

One copy to each appropriate local air pollution control program;

One copy to the TCEQ Office of Air.

F. During subsequent operations, the permit holder may operate at a coke burn rate greater than the coke burn rate recorded during the test period provided the new coke burn rate does not exceed 10% of the coke burn rate recorded during the test period and the short term emission recorded during the stack test did not exceed 80% of the short term emission rate authorized in the MAERT. Unless requested by the regional office, the permit holder may operate at this coke burn rate without additional stack test.

G. During subsequent operations, the permit holder may operate at a coke burn rate greater than 10% of that coke burn rate recorded during the test period provided the short term emission rate during the stack test did exceed 80 % of the short term emission rate authorized in the MAERT. Stack sampling shall be performed at the new operating conditions within 120 days according to the stack sampling requirements specified in Special Condition 55.

56. 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 ULSD Heaters Common Stack (40BA1001). The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and in accordance with the appropriate EPA Reference Methods.

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

(1) Date for pretest meeting

(2) Date sampling will occur

(3) Name of firm conducting sampling

(4) Type of sampling equipment to be used

(5) Method or procedure to be used in sampling

(6) Procedure and parameters to be used to determine worst case emissions.

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

A written proposed description of any deviation from sampling procedures specified in permit conditions, TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to

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

B. Air contaminants emitted from the ULSD Heaters (EPN 40BA1001) to be tested for include (but are not limited to) NO_x, carbon monoxide, and oxygen.

C. Sampling shall occur within 60 days after achieving the maximum firing rate at which the heater will be operated, but no later than 180 days after initial start-up. Additional sampling shall occur as may be required by the TCEQ. Requests for additional time to perform sampling shall be submitted to the TCEQ Houston Regional Office. The last acceptable stack test was conducted on August 1, 2013 and November 4-5, 2013.

D. The heaters shall operate at maximum firing rate during stack emission testing. Primary operating parameters that enable determination of firing rate shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting. If the heaters are unable to operate at maximum rates during testing, then, additional stack testing shall be required when higher firing rates are achieved.

E. Three copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

One copy to the TCEQ Houston Regional Office.

One copy to the Harris County Pollution Control Program.

F. Records of the initial determination of compliance test and records of any subsequent testing shall be kept on-site to demonstrate compliance with Special Condition No. 3 and the MAERT of this permit.

57. The permit holder shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from Crude Heater (EPN: 17H01) to demonstrate compliance with the MAERT and lb/MMBtu limits of Appendices A, B, and C. 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.

(8) The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for the test reports. The TCEQ Regional Director must approve any deviation from specified sampling procedures.

B. Air contaminants emitted from the Crude Heater (EPN: 17H01) to be tested for include (but are not limited to) CO, NO_x, O_2 and NH_3.

C. Sampling shall occur within 60 days after achieving the maximum operating rate, but no later than 180 days after initial start-up of the facilities at such other times as may be required by the TCEQ Executive Director. Requests for additional time to perform sampling shall be submitted to the appropriate regional office.

D. The heater shall operate at the maximum firing rate during stack emission testing. These conditions/parameters and any other primary operating parameters that affect the emission rate shall be monitored and recorded during the stack test. Any additional parameters shall be determined at the pretest meeting and shall be stated in the sampling report. Permit conditions and parameter limits may be waived during stack testing performed under this condition if the proposed condition/parameter range is identified in the test notice specified in paragraph A and accepted by the TCEQ Regional Office. Permit allowable emissions and emission control requirements are not waived and still apply during stack testing periods. During the initial stack test, the permit holder may be allowed to fire the heater at levels up to 15 percent above the firing rate limits represented in the initial permit application. During subsequent operations, if the maximum firing rate is greater than 10% of the value recorded during the test period, stack sampling shall be performed at the new operating conditions within 120 days. This sampling may be waived by the TCEQ Air Section Manager for the region.

E. Copies of the final sampling report shall be forwarded to the offices below within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions entitled “Chapter 14, Contents of Sampling Reports” of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

(1) One copy to the appropriate TCEQ Regional Office.

(2) One copy to each local air pollution control program.

Sampling ports and platform(s) shall be incorporated into the design of Crude Heater (EPN: 17H01) according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities" of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual. Alternate sampling facility designs must be submitted for approval to the TCEQ Regional Director.

58. The NH_3 concentration in the Crude Heater (EPN: 17H01) exhaust stack and in each boiler exhaust stack (EPNs 81BF01, 50BF02, and 50BF03) 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 on days 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 and reported in accordance with Appendix C limits.

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 parts per million (ppm) range. The frequency of sorbent/stain tube testing shall be daily for the first 6o 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 with Appendix C limits.

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 Appendix C limits.

D. If the sorbent or stain tube testing indicates an NH_3 slip concentration which exceeds 5 ppm at any time, the permit holder shall begin NH_3 testing by either the Phenol Nitroprusside Method, the Indophenol Method, or the 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 Appendix C limits.

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 Appendix C limits.

F. Any other method used for measuring NH_3 slip shall require prior approval from the TCEQ Regional Director.

G. Emissions from the Package Boiler Nos. 1, 2, and 3 NH_3 tank shall be minimized by use of a vapor-balance system to route vapors displaced from the tanks back to the truck during filing operations.

Continuous Emissions Monitoring Systems (CEMS)

59. The permit holder shall install, calibrate, and maintain a continuous emission monitoring system (CEMS) to measure and record the in-stack concentration of pollutants for EPNs identified in the table below:

EPN	Common Name	Pollutant Continuously Monitored
39CB2001	Tail Gas Incinerator Unit 39 SRU	SO_2, O_2
46CB6301	Tail Gas Incinerator Unit 46 SRU	SO_2, O_2
42CB2201	FCC Unit Stack	CO, SO_2, NO_x, O_2
81BF01	Package Boiler No. 1	NO_x, CO, O_2
50BF02	Package Boiler No. 2	NO_x, CO, O_2
50BF03	Package Boiler No. 3	NO_x, CO, O_2
23BC201	Atmospheric Tower Heater	NO_x, CO, O_2
17H01	Crude Heater	NO_x, CO, O_2

A. 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 or an acceptable alternative.

If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Office of Air, Air Permits Division for requirements to be met.

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

(1) The permit holder shall assure that the CEMS meets the applicable quality-assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, ' 5.2.3 and any CEMS downtime and all cylinder gas audit exceedances of + 15 percent accuracy shall be reported semiannually to the appropriate TCEQ Regional Director and the appropriate local program with jurisdiction, and necessary corrective action shall be taken. The CEMS downtime does not include downtime required for daily zero span checks, quarterly CGAs and annual relative accuracy test audits. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Manager.

(2) The system shall be zeroed and spanned daily, and for EPN 17H01 corrective action taken when the 24-hour span drift exceeds two times the amounts specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B, or as specified by the TCEQ if not specified in Appendix B. Zero and span is not required on weekends and plant holidays if instrument technicians are not normally scheduled on those days.

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

All CGA exceedances of +/-15 percent accuracy indicate that the CEMS is out of control.

C. The monitoring data shall be reduced to hourly average concentrations at least once each day, using a minimum of four equally-spaced data points from each one-hour period. At least two valid data points shall be generated during the hourly period in which zero and span is performed.

D. For Package Boilers (EPNs 81BF01, 50BF02, and 50 BF03) the hourly average data from the CEMS may be used to determine compliance with the conditions of this permit. Hourly average concentrations from the boilers shall be summed to ton per year each month and used to determine compliance with the emission limits of this permit on a rolling 12-months.

E. The holder of this permit shall additionally install, calibrate, maintain and operate continuous monitoring systems to monitor and record the average hourly refinery fuel gas consumption for EPNs 81BF01, 50BF02, 50BF03, and 17H01. The systems shall be accurate to + 5.0 percent of the unit's maximum design flow.

F. For TGIs (EPNs: 39CB2001 and 46CB6301) the measured hourly average concentration from the CEMS shall be multiplied by the flow rate recorded every six minutes as a six minute average to determine the hourly emission rate.

G. For Crude Heater (EPN: 17H01) the measured hourly average concentration from the CEMS shall be multiplied by the actual flow rate to determine the hourly emission rate.

H. 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.

I. 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.

J. Quality-assured (or valid) data must be generated when the facility generating emissions 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 generating emissions 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.

K. This paragraph applies to the NO_x and O_2 CEMS for EPN 42CB2201; and to the NO_x and O_2 CEMS for EPNs 81BF01, 50BF02, 50BF03, and 23BC201. The CEMS shall be installed, certified, calibrated, maintained, and operated in accordance with the provisions of 40 CFR §60.13 which are applicable only to CEMS (excluding those provisions applicable only to continuous opacity monitoring systems) and Part 60, Appendices A and F, and the applicable performance specification test of 40 CFR Part 60, Appendix B. With respect to 40 CFR Part 60 Appendix F, in lieu of the requirements of 40 CFR Part 60, Appendix F §§5.1.1, 5.1.3 and 5.1.4, the source must conduct either a Relative Accuracy Audit (RAA) or a RATA on each CEMS at least once every three (3) years. The source must also conduct a CGA each calendar quarter during which a RAA or a RATA is not performed. **(07/16)**

Recordkeeping

60. All the following records shall be maintained electronically or in hard copy format for at least five years rather than the two-year period specified in General Condition No. 7 and shall be used to demonstrate compliance with the Special Conditions and the limits specified in the MAERT. All

records required in this permit shall be made available at the request of personnel from the TCEQ or any air pollution control agency with jurisdiction.

A. Fugitives

Records of all inspections, repairs and replacements made due to leaks and of all leaks that cannot be repaired until the next scheduled shutdown in accordance with Special Condition No. 39.

B. Storage Tanks

(1) For purposes of assuring compliance with VOC emission limitations, the holder of this permit 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.

(2) For any tank equipped with a floating roof, records of the dates seals were inspected, seal integrity, and corrective actions taken.

C. Crude Heater (EPN: 17H01), Package Boilers (EPNs 81BF01, 50BF02, and 50BF03) and SCR

(1) A copy of this permit.

(2) A complete copy of the testing reports and records of the initial performance testing completed for Package Boilers (EPNs: 81BF01, 50BF02, and 50BF03) and Crude Heater (EPN: 17H01) pursuant to Special Condition Nos. 53 and 57 to demonstrate initial compliance.

(3) Stack sampling results or other air emissions testing that may be conducted on units authorized under this permit after the date of issuance of this permit.

(4) Records of all NO_x, CO and NH_3 monitoring data and quality-assurance data as required by Appendices A, B, and C.

D. CEMS- Records of all monitoring data and quality-assurance data as required by Special Condition No. 59. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit.

E. Benzene Reductions - Records shall be maintained at the site demonstrating benzene reductions to offset the benzene increases due to the Crude Topper Unit operation.

61. The facility records for this permit shall include records of MSS activities and emissions as specified in SC Nos. 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, and 52. All records shall be kept on site in a current and complete condition, and shall be made available upon request to representatives of the TCEQ. **(12/16)**

62. The following information shall be maintained by the holder of this permit in a form suitable for inspection for a period of five years after collection, and shall be made immediately available upon request to representatives of the TCEQ or any air pollution control agency with jurisdiction:

(1) The NO_x, CO, and diluent gases, O_2 or CO_2, CEMS emissions data to demonstrate compliance with the emission rates listed in the MAERT.

(2) Raw data files of all CEMS data including calibration checks and adjustments and maintenance performed on these systems.

(3) Records of NH_3 emissions sampling and calculations pursuant to Special Condition No. 58.

(4) Records of the hours of operation and average daily quantity of refinery fuel gas fired in the boilers.

63. These following sources and/or activities are authorized under a Permit by Rule (PBR) or Standard Permits by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106) or 30 TAC Chapter 116. These lists are not intended to be all inclusive and can be altered without modifications to this permit. **(01/19)**

Authorization	Source or Activity
PBR Reg 34094	Storage Tank 91FB924 (Recovered Oil Storage)
PBR Reg 34119	Storage Tank 90FB723 (Slop Oil Storage)
30 TAC § 106.511	Emergency Diesel Electric Generators, Fire Water Pumps and Portable Engines – EPNs 30GG1822, 42GG1730, 42GG1848, 42GG1849, 90GG2245, and 47GG1523
PBR Reg 36392	Storage Tank 47FB509 (Wastewater Storage)
PBR Reg 33180	Marine Loading Dock 3 (EPN 9130LOAD)
PBR Reg 33383	Storage Tank 47FB504 (Storm Water Storage)
PBR Reg 28324	Storage Tank 47FB503 (Wastewater & Storm Water Storage)
30 TAC § 106.472	Storage Tank 22FB749 (Fresh or Spent Acid Storage)
PCP Std Per Reg 88508	Scrubber/Thermal Oxidizer (EPN 22SKD4202)
30 TAC § 106.261 and 106.478	Storage Tank 90FB722 (Slop Oil Storage)
30 TAC § 106.478	Storage Tank 47FB323 (Recovered Oil Storage)
PBR Reg 76694	Storage Tank 91FB931 (Recovered Oil Storage)
PBR Reg 78537	Alky Unit Lube Oil Mist System (EPN 22VENT)
30 TAC § 106.478	Storage Tank 47FB321(Recovered Oil Storage)
Std Exempt. 006	Emergency Engines, EPNs 90GG2167 and 90GG2245
PBR Reg 45869	Platformer Air Compressor Engines, 27ENG1 and 27ENG2
PBR Reg 73869	Marine Loading Dock 1
30 TAC § 106.492	Vapor Combustor at Marine Loading Dock 1
PBR Reg 74363	Marine Loading Dock 2
PCP Std Per Reg 101541	Barge Loading Scrubber (EPN 22EG400)

Authorization	Source or Activity
30 TAC § 106.472	Bulk Chemical Tanks – 23FB4501V, 23FB4503V, 27TANK1, 42FA2099V, 42FB2097V, 42FB2099V, 42FB2499, 42FB2699, 44FA3095, 44FA3099, 44FB3097, 44FB3098, 45FB7499V, 46FA6299V, and 47FA5412
Std. Exempt. 051	Lab Drum 92FA4001
Std. Exempt. 053	Lab Drum 92FA4002
Std. Exempt. 111	Saturates gas compressor 23CO2028
PBR Reg 38961	Agitated Solvent Degreaser
30 TAC § 106.264 and 106.473	Pool Gasoline storage tank and gasoline loading facility
PBR Reg 54510	A Parts Washer
30 TAC § 106.533	Groundwater Remediation Project Phase II
30 TAC § 106.511	Emergency Generator for the I/S Data Center
30 TAC § 106.511	ULSD Firewater Pump Emergency Engines
30 TAC § 106.511	Boilerhouse Diesel Emergency Generator
30 TAC § 106.511	Boilerhouse Backup Air Compressor
30 TAC § 106.511	FCC Backup Air Compressors
30 TAC § 106.478	Tank 281308
PBR Reg No. 71680	Annual Registration of PBRs authorizing fugitive emissions in accordance with 30 TAC § 106.261 in 2003
PBR Reg No. 75514	Annual Registration of PBRs authorizing fugitive emissions in accordance with 30 TAC § 106.261 in 2004
PBR Reg No. 78574	Annual Registration of PBRs authorizing fugitive emissions in accordance with 30 TAC § 106.261 in 2005
PBR Reg No. 81526	Annual Registration of PBRs authorizing fugitive emissions in accordance with 30 TAC § 106.261 in 2006
PBR Reg No. 87909	Annual Registration of PBRs authorizing fugitive emissions in accordance with 30 TAC § 106.261 in 2008
PBR Reg No. 92272	Annual Registration of PBRs authorizing fugitive emissions in accordance with 30 TAC § 106.261 in 2009
PBR Reg No. 95584	Annual Registration of PBRs authorizing fugitive emissions in accordance with 30 TAC § 106.261 in 2010 and DAF Sludge Storage Tank (EPN 47FA2)
PBR Reg No. 101936	Annual Registration of PBRs authorizing fugitive emissions in accordance with 30 TAC § 106.261 in 2011
PBR Reg Nos. 109220 and 109315	Annual Registration of PBRs authorizing fugitive emissions in accordance with 30 TAC § 106.261 in 2012
PBR Reg No. 118800	Annual Registration of PBRs authorizing fugitive emissions in accordance with 30 TAC § 106.261 in 2013

Authorization	Source or Activity
PBR Reg No. 131534	Annual Registration of PBRs authorizing fugitive emissions in accordance with 30 TAC § 106.261 in 2014
PBR Reg No. 73824	Lube Oil Mist System (Centralized Lubrication System)
PBR Reg No. 81166	New Naphtha Pipeline Installation
PBR Reg No. 55752	GDU Project
PBR Reg No. 48166 and Std Exemp. 086	Reactivation of De-Pentanizer Tower
PBR Reg No. 70289	Conversion of MTBE Unit to Iso-octene Unit
PBR Reg No. 73902	"A" Unifier Selective Hydrogenation Unit
PBR Reg No. 78537	Alkyl Unit Lube Oil Mist System
PBR Reg No. 84930	SWS, Amine, and Unit 46 SRU Units Lube Oil Mist System
PBR Reg No. 51612	Installation of Oil Separator Drum
PBR Reg No. 45273	Installation of a Coating Facility
PBR Reg No. 106.263	Painting Activities, Abrasive Blasting Activities, Alky Unit Sampling Activities, "A" Unifiner Heater Decoking Activities
PBR Reg No. 136714	TGI Fuel Gas Usage Increase
Standard Permit 133453	Boiler No.5 (EPN81BF05), Boiler No.6 (EPN 81BF06)
PBR Reg No. 85583	Storage Tank 90FB205 (EPN 90FB205)
PBR Reg No. 106.478	Storage Tank 90FB205 (EPN 90FB205)
PBR Reg No. 152125	Gasoline Tank (EPN 90FB228A)
PBR Reg No. 135023	Gasoline Tank (EPN 90FB506)
30 TAC § 106.472/106.478	Storage Tank 90FB231 (Slurry Oil/Residual) (EPN 90FB231)
Standard Permit 86142	Storage Tank 90FB001 (Cat Feed/Crude Oil) (90FB001)
PBR Reg No. 107049	Storage Tank 91FB915 (Cat Feed/Residual) (EPN 91FB915)

64. The holder of this permit shall submit to the TCEQ Houston Regional Office, the local air program with jurisdiction, and the Air Enforcement Branch of EPA in Dallas semiannual reports as described in 40 CFR Subpart A, paragraph 60.7. Such reports are required for each emission unit which is required to be continuously monitored pursuant to this permit.

65. The FCCU/Alkylation Turnaround project authorized by the amendment application, dated 11/06/2017, was determined not to be subject to major new source review for CO, NO_x, $PM/PM_{10}/PM_{2.5}$, SO_2, H_2S, VOC, and H_2SO_4 by identifying projected actual emission rates for the facilities potentially affected by the project. **(01/19)**

    A. Projected actual and baseline emission rates for the potentially affected facilities are as follows:

EPN(s)	FIN(s)	Permit(s)/ Registrations	Pollutant(s)	Baseline Emission (tpy)	Projected Actual Emissions (tpy)
42CB2201	FCCU	2501A	VOC NO_x CO SO_2 PM PM_{10} $PM_{2.5}$ H_2SO_4	3.80 75.77 149.51 28.08 55.24 54.52 50.44 0.87	4.50 75.77 176.73 36.53 65.30 64.45 59.62 1.13
29BA1300 41BA101	“B” Unifier Reactor Charge Heater “D” Unifier Reactor Charge Heater	2501A	VOC NO_x CO SO_2 H_2S $PM/PM_{10}/PM_{2.5}$	0.48 5.50 0.62 0.05 0.02 0.66	0.76 9.02 2.92 0.08 0.03 1.04
41BA102	“D” Unifier Return Tower Reboiler	2501A	VOC NO_x CO SO_2 H_2S $PM/PM_{10}/PM_{2.5}$	0.09 1.53 0.28 0.01 0.01 0.13	0.20 3.11 0.60 0.01 0.01 0.28
39CB2001 46CB6301	SRU39 TGI SRU46 TGI	2501A 136714	VOC NO_x CO SO_2 H_2S $PM/PM_{10}/PM_{2.5}$	0.11 3.77 3.43 19.15 0.01 0.65	0.13 4.55 4.14 23.11 0.01 0.79
81BF01 50BF02 50BF03 50BF04 81BF05 81BF06	Boiler No.1 Boiler No.2 Boiler No.3 Boiler No.4 Boiler No.5 Boiler No.6	124424 133453	VOC NO_x CO SO_2 H_2S $PM/PM_{10}/PM_{2.5}$	2.19 31.72 17.34 2.71 0.15 22.27	2.38 32.07 18.57 2.73 0.15 22.34

EPN(s)	FIN(s)	Permit(s)/ Registrations	Pollutant(s)	Baseline Emission (tpy)	Projected Actual Emissions (tpy)
90FB205 90FB226 90FB505 90FB507 90FB228A 90FB506 90FB511	Storage Tank 90FB205 Storage Tank 90FB226 Storage Tank 90FB505 Storage Tank 90FB507 Gasoline Tank Gasoline Tank Gasoline Tank	85583; 106.478 129444 129444 129444 152125 135023 129444	VOC	30.85	30.95
90FB210 90FB230	Gasoline Tank Alkylate Tank	129444	VOC	8.67	8.72
90FB233 90FB918	Storage Tank 90FB233 Storage Tank 90FB918 (LCO, FCC Distillates)	129444	VOC	2.54	3.89
90FB224 90FB231	Storage Tank 90FB224 (Slurry Oil) Storage Tank 90FB231 (Slurry Oil)	129444 106.472/106.478	VOC	0.04	0.13
90FB001 90FB006 91FB915 90FB917	Storage Tank 90FB001 (Cat Feed/Crude Oil) Storage Tank 90FB006 (Cat Feed) Storage Tank 91FB915 (Cat Feed/Residual) Storage Tank 90FB231 (Cat Feed)	86142 129444 107049 129444	VOC	0.36	0.68

EPN(s)	FIN(s)	Permit(s)/ Registrations	Pollutant(s)	Baseline Emission (tpy)	Projected Actual Emissions (tpy)
22SKD4202	Scrubber/TO	88508	VOC NO_x CO SO_2 $PM/PM_{10}/PM_{2.5}$	0.08 <0.01 0.04 <0.01 0.06	0.1 0.01 0.05 0.06 0.06
22EG400	Barge Loading Scrubber	101541	VOC SO_2	0.11 0.01	0.11 0.01
90CB5601	Flare	106.492	VOC NO_x CO SO_2	3.32 1.80 3.29 0.01	5.08 2.08 3.31 0.02
90DOCK1 90DOCK2	DOCK1 DOCK2	74363 73869	VOC	0.17	0.21

Actual emissions from the 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).

B. This condition becomes effective upon startup and operation of the FCCU/Alkylation Turnaround project authorized in the permit dated January 23, 2019 and remain effective for the time-period specified in 30 TAC § 116.127(b)(1).

C. Emission rates identified in the Table of this condition do not authorize an increase in allowable emission rates for any EPN above those identified in the applicable MAERT.

D. The permit holder shall retain satisfactory stack test records for Boilers 81BF01, 50BF02, 80BF03, 80BF04, 81FB05, and 81FB06 demonstrating that PM emissions do not exceed 0.0019 lb PM/MMBtu. Compliance with the 0.0019 lb PM/MMBtu factor will be determined by averaging the emission factors derived from each of the boilers to be tested.

Date: January 18, 2019

Attachment A

Heater and Boiler Emission Limits for NO_x

EPN	Common Name	NO_x Emission Limit (lb/MMBtu)	Averaging Time
23BA301	Heater 23BA301	0.100 **(07/16)**	3-hour
23BC201	Atmospheric Tower Furnace	0.050 **(07/16)**	365-day rolling
29BA1300	"B" Unifiner Reactor Charge Heater	0.100 **(07/16)**	3-hour
40BA1001	LCO Charge Heater, Diesel Charge Heater, Fract. Reboiler Heater (Combined Heaters)	0.026	365-day rolling
44BA3001	BA-3001 DAO Mix Heater	0.098	1-hour
0.098	annual		
44BA3002	BA-3002 Hot Oil Heater	0.089	1-hour
0.089	3-hour		
0.089	annual		
44BA3005	BA-3005 Asphalt Heater	0.100	1-hour
0.100	annual		
81BF01	Package Boiler No. 1	0.010 **(07/16)**	30-day rolling *
0.010 **(07/16)**	365-day rolling		
50BF02	Package Boiler No. 2	0.010 **(07/16)**	30-day rolling *
0.010 **(07/16)**	365-day rolling		
50BF03	Package Boiler No. 3	0.010 **(07/16)**	30-day rolling *
0.010 **(07/16)**	365-day rolling		
17H01	Crude Heater	0.03	1-hour

Footnotes:

* The NO_x heat input-based limit is based upon the higher heating value of the fuel. Compliance with the lb/MMBtu limitations will be demonstrated on a 30-day rolling average corrected as specified in 40 CFR Part 60, Subpart Db. The permit holder shall demonstrate during the initial compliance stack sampling that best available control technology has been applied by demonstrating compliance with the above performance specifications on a one-hour basis. The hourly emissions limits in the maximum allowable emission rates table (MAERT) shall apply at all times.

Date: July 21, 2016

Attachment B

Heater and Boiler Emission Limits for CO

EPN	Common Name	CO Emission Limit (lb/MMBtu)	Averaging Time
81BF01	Package Boiler No. 1	0.035	30-day rolling*
50BF02	Package Boiler No. 2	0.035	30-day rolling*
50BF03	Package Boiler No. 3	0.035	30-day rolling*
17H01	Crude Heater	100 ppmvd (3% O_2)	1-hour

* Compliance with the lb/MMBtu limitations will be demonstrated on a 30-day rolling average corrected as specified in 40 CFR Part 60, Subpart Db. The permit holder shall demonstrate during the initial compliance stack sampling that best available control technology has been applied by demonstrating compliance with the above performance specifications on a one-hour basis. The hourly emissions limits in the maximum allowable emission rates table (MAERT) shall apply at all times.

Date: March 28, 2016

Attachment C

Heater and Boiler Emission Limits for NH_3

EPN	Common Name	NH_3 Emission Limit (ppmvd, corrected to 3 percent excess O_2)	Averaging Time
81BF01	Package Boiler No. 1	10	1-hour
50BF02	Package Boiler No. 2	10	1-hour
50BF03	Package Boiler No. 3	10	1-hour
17H01	Crude Heater	10	1-hour

Date: March 28, 2016

Attachment D

Inherently Low Emitting Activities

Activity	Emissions				
	VOC	**NO_x**	**CO**	**PM**	**H_2S/SO_2**
Replacement of analyzer and process filters/screens	X				
Calibration of CEMS analyzer	X	X	X		X
Calibration/maintenance of process instruments	X				
Carbon canister replacement (valve disconnect)	X				
Spare pumps - Light liquid	X				
Spare pumps - Heavy liquid	X				
Aerosol cans	X				
Sight glass replacement	X				
Valve & piping maintenance/replacement	X				
Pipeline pigging	X				
Catalyst replacement	X	~~X~~		X	
Lab sample	X				
Seal inspections and other tank inspection activities	X				
Water washing empty drums, totes, and misc small equipment	X				
Combinations of the above	X	X	X	X	X

Date: March 28, 2016

Attachment E

Routine Maintenance Activities

Planned MSS activities performed with work orders where the isolated system volume is less than 50 cubic feet. These include activities such as:

Pump, compressor, vessel, exchanger, combustion source, boiler inspection, repair, or replacement.

Valve and piping maintenance/replacement not included in Attachment A.

Pipeline pigging.

Compressor maintenance.

Maintenance on light liquid/heavy liquid pumps that are purged to slop, flare, or controlled process sewer system.

Maintenance on heavy liquid pumps that are purged to open containers.

Date: March 28, 2016

Attachment F

MSS Activity Summary

Facilities	Description	Emissions Activity	EPN
all process units	process unit and/or individual equipment shutdown/depressurize/ drain	vent to flare	30FL1 30FL6
all process units	process unit and/or individual equipment purge/degas/drain/clean	vent to atmosphere	EXCH-MSS SMALL-MSS VAC-MSS FRAC-MSS VACFR-MSS WW-MSS TANK-MSS DEINV-MSS
all process units	process unit and/or individual equipment process unit startup	vent to flare	30FL1 30FL6
all process vents	shutdown, startup, and/or maintenance	vent to atmosphere	EXCH-MSS SMALL-MSS VAC-MSS FRAC-MSS VACFR-MSS WW-MSS DEINV-MSS FCCU-MSS
all vacuum or air mover trucks	various maintenance activities	vent to control device and/or atmosphere	VAC-MSS VACFR-MSS TO-MSS CCFRAC1 CCFRAC2
all frac or temporary tanks	various maintenance activities	vent to control device and/or atmosphere	FRAC-MSS VACFR-MSS TO-MSS CCFRAC1 CCFRAC2

Facilities	Description	Emissions Activity	EPN
all process units and tanks	preparation for facility/component repair/replacement	vent to flare and/or equivalent control	30FL1 30FL6 TANK-MSS VAC-MSS VACFR-MSS TO-MSS CCFRAC1 CCFRAC2
all process units and tanks	preparation for facility/component repair/replacement	vent to atmosphere	EXC-MSS SMALL-MSS VAC-MSS FRAC-MSS VACFR-MSS WW-MSS TANK-MSS DEINV-MSS
all process units and tanks	including but not limited to: recovery from facility/component repair/replacement	vent to flare and/or equivalent control	30FL1 30FL6
all process units and tanks	recovery from facility / component repair/replacement	vent to atmosphere	EXCH-MSS SMALL-MSS VAC-MSS FRAC-MSS VACFR-MSS WW-MSS TANK-MSS DEINV-MSS
all process units and tanks	preparation for unit turnaround or facility/component repair/replacement	remove liquid	EXCH-MSS SMALL-MSS VAC-MSS FRAC-MSS VACFR-MSS WW-MSS TANK-MSS DEINV-MSS

Facilities	Description	Emissions Activity	EPN
all floating roof tanks	degas of tank with landed roof	controlled degassing	30FL1 30FL6 TANK-MSS TO-MSS CCFRAC1 CCFRAC2
all tanks	tank cleaning	cleaning activity and solvents	TANK-MSS TO-MSS CCFRAC1 CCFRAC2
see Attachment D	miscellaneous low emitting activities	see Attachment D	INSIG-MSS

Date: March 28, 2016

Emission Sources - Maximum Allowable Emission Rates

Permit Number 2501A and PSDTX767M2

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)
Boilers and Heaters				
23BA301	Heater 23BA301	NO_x	7.00	
		SO_2	1.40	
		H_2S	0.01	
		CO	1.80	
		PM_{10}	0.10	
		$PM_{2.5}$	0.10	
		VOC	0.10	
23BA302	Heater 23BA302	NO_x	3.20	
		SO_2	0.80	
		H_2S	0.01	
		CO	1.10	
		PM_{10}	0.10	
		$PM_{2.5}$	0.10	
		VOC	0.10	

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
23BA301 and 23BA302	Heaters 23BA301 and 23BA302	NO_x		44.60
		SO_2		9.50
		H_2S		0.04
		CO		12.30
		PM_{10}		0.90
		$PM_{2.5}$		0.90
		VOC		1.00
23BC201	Atmospheric Tower Heater	NO_x	14.28	62.55
		CO	14.28	62.55
		VOC	1.93	8.43
		SO_2	9.52	20.85
		H_2S	0.03	0.13
		PM_{10}	2.66	11.65
		$PM_{2.5}$	2.66	11.65
27BA1000	"C" Unifiner Reactor Charge Heater	NO_x	3.82	13.31
		CO	3.21	11.18
		VOC	0.21	0.73
		SO_2	1.04	1.10
		H_2S	<0.01	0.01
		PM_{10}	0.29	1.01
		$PM_{2.5}$	0.29	1.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
28BA1200	"A" Unifiner Reactor Charge Heater	NO_x	2.75	12.02
		CO	2.31	10.10
		VOC	0.15	0.66
		SO_2	0.75	0.88
		H_2S	<0.01	0.01
		PM_{10}	0.21	0.91
		$PM_{2.5}$	0.21	0.91
29BA1300	"B" Unifiner Reactor Charge Heater	NO_x	3.03	13.27
		CO	2.47	10.82
		VOC	0.16	0.71
		SO_2	0.80	0.92
		H_2S	<0.01	0.01
		PM_{10}	0.22	0.98
		$PM_{2.5}$	0.22	0.98
40BA1001	Combined Heaters (LCO Charge Heater, Diesel Charge Heater, and Fractionation Reboiler Heater)	NO_x	4.39	16.10
		CO	7.56	33.13
		VOC	0.62	2.72
		SO_2	3.09	13.53
		H_2S	0.01	0.06
		PM_{10}	0.86	3.76
		$PM_{2.5}$	0.86	3.76

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
41BA101	"D" Unifiner Reactor Charge Heater	NO_x	1.96	8.59
		CO	1.65	7.21
		VOC	0.11	0.47
		SO_2	0.53	0.61
		H_2S	<0.01	0.01
		PM_{10}	0.15	0.65
		$PM_{2.5}$	0.15	0.65
41BA102	"D" Unifiner Rerun Tower Reboiler	NO_x	2.65	11.59
		CO	2.22	9.74
		VOC	0.15	0.64
		H_2S	<0.01	0.01
		SO_2	0.72	0.79
		PM_{10}	0.20	0.88
		$PM_{2.5}$	0.20	0.88
44BA3001	BA-3001 DAO Mix Heater	CO	1.53	6.71
		NO_x	1.80	7.90
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.14	0.62
		SO_2	0.49	2.15
		H_2S	<0.01	0.01
		VOC	0.10	0.44

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
44BA3002	BA-3002 Hot Oil Heater	CO	5.36	21.51
		NO_x	5.70	22.87
		PM_{10}	0.49	1.98
		$PM_{2.5}$	0.49	1.98
		SO_2	1.73	6.93
		H_2S	<0.01	0.01
		VOC	0.36	1.45
44BA3005	BA-3005 Asphalt Heater	CO	2.72	11.92
		NO_x	3.24	14.20
		PM_{10}	0.25	1.10
		$PM_{2.5}$	0.25	1.10
		SO_2	0.87	3.82
		H_2S	<0.01	0.01
		VOC	0.18	0.79
17H01	Crude Heater	NO_x	7.77	8.76
		CO	16.09	28.18
		VOC	1.35	4.72
		SO_2	6.46	8.75
		H_2S	0.02	0.07
		PM_{10}	1.86	6.53
		$PM_{2.5}$	1.86	6.53
		NH_3	1.14	4.00

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
81BA25	Boilerhouse Hot Oil Heater	NO_x	1.96	8.59
		CO	1.65	7.21
		VOC	0.11	0.47
		SO_2	0.53	0.61
		H_2S	<0.01	0.01
		PM_{10}	0.15	0.65
		$PM_{2.5}$	0.15	0.65
81BF01	Package Boiler No. 1	NO_x	3.95	
		CO	13.63	
		VOC	1.83	
		PM_{10}	3.66	
		$PM_{2.5}$	3.66	
		SO_2	9.10	
		H_2S	0.03	
		NH_3	1.83	
50BF02	Package Boiler No. 2	NO_x	3.95	
		CO	13.63	
		VOC	1.83	
		PM_{10}	3.66	
		$PM_{2.5}$	3.66	
		SO_2	9.10	
		H_2S	0.03	
		NH_3	1.83	

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
50BF03	Package Boiler No. 3	NO_x	3.95	
		CO	13.63	
		VOC	1.83	
		PM_{10}	3.66	
		$PM_{2.5}$	3.66	
		SO_2	9.10	
		H_2S	0.03	
		NH_3	1.83	
81BF01, 50BF02, 50BF03	Package Boilers (Nos. 1, 2, and 3)	NO_x		35.50
		CO		131.50
		VOC		20.40
		PM_{10}		26.00
		$PM_{2.5}$		26.00
		SO_2		43.90
		H_2S		0.30
		NH_3		16.00

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
FCCU				
42CB2201	FCC Unit Stack	NO_X	270.00	172.00
		CO	269.00	198.00
		VOC	13.00	37.00
		SO_2	29.65	129.89
		PM_{10}	75.50	240.00
		$PM_{2.5}$	75.50	240.00
		H_2SO_4	1.58	6.90
		Filterable PM	32.50	142.35

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SRU				
39CB2001	Tail Gas Incinerator Unit 39 SRU	VOC	0.21	
		CO	10.16	
		H_2S	0.48	
		NH_3	0.01	
		NO_x	5.51	
		SO_2	93.95	
		PM_{10}	0.20	
		$PM_{2.5}$	0.20	

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
46CB6301	Tail Gas Incinerator Unit 46 SRU	VOC	0.32	
		CO	9.26	
		H_2S	0.44	
		NH_3	0.01	
		NO_x	5.01	
		SO_2	85.15	
		PM_{10}	0.18	
		$PM_{2.5}$	0.18	
39CB2001, 46CB6301	Combined Annual Cap for both TGIs	VOC		0.53
		CO		38.66
		H_2S		1.84
		NH_3		0.01
		NO_x		20.94
		SO_2		354.28
		PM_{10}		0.55
		$PM_{2.5}$		0.55
Cooling Towers				
27CWT2	Cooling Tower No. 2 (5)	VOC	6.24	2.87
		PM_{10}	14.05	61.54
		$PM_{2.5}$	0.16	0.68
22CWT3	Cooling Tower No. 3 (5)	VOC	12.01	5.50
		PM_{10}	0.54	2.37
		$PM_{2.5}$	0.01	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)
23CWT7	Cooling Tower No. 7 (5)	VOC	4.52	2.08
		PM_{10}	10.18	44.58
		$PM_{2.5}$	0.11	0.50
44CWT9	Cooling Tower No. 9 (5)	VOC	3.00	1.38
		PM_{10}	0.14	0.59
		$PM_{2.5}$	<0.01	0.01
42CWT10	Cooling Tower No. 10 (5)	VOC	16.01	7.36
		PM_{10}	0.72	3.16
		$PM_{2.5}$	0.01	0.04
40CWT11	Cooling Tower No. 11 (5)	VOC	7.6	3.31
		PM_{10}	0.34	1.50
		$PM_{2.5}$	<0.01	0.02
Storage Tanks				
22FB747	Storage Tank 22FB747	H_2SO_4	0.06	0.01
42FB2802	Storage Tank 42FB2802	VOC	0.10	0.01
44FB3002	ROSE Flush Oil Tank	VOC	0.01	0.01
45FB6001	Storage Tank 45FB6001	VOC	0.01	0.01
45FB6002	Storage Tank 45FB6002	VOC	0.01	0.01
45FB7403	Storage Tank 45FB7403	VOC	0.21	0.86
		NH_3	<0.01	<0.01
		H_2S	0.01	0.03
46FB6301	Storage Tank 46FB6301	VOC	0.01	0.01
90FB807	Storage Tank 90FB807	VOC	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
91FB922	Storage Tank 91FB922	VOC	0.45	0.43
90FB735	Storage Tank 90FB735	VOC	0.12	0.37
Loading				
9058LOAD	"A" Pump Rail Loading	VOC	0.01	0.01
9059LOAD	B. B. Rack-Truck Loading	VOC	0.01	0.01
9157LOAD	"B" Pump Railcar Rack	VOC	5.16	0.07
9160LOAD	"B" Pump Truck Rack	VOC	5.16	0.09
Wastewater				
47AD5401	API Separator Diversion Sump	VOC	0.01	0.01
47AD5402	API Oil Pit	VOC	2.00	0.14
47AD5405	API Muck Pit	VOC	2.00	0.18
47AD5407	Lift Station	VOC	0.04	0.19
		H_2S	0.02	0.07
47AD5409	DAF Unit	VOC	5.51	24.15
		H_2S	0.02	0.07
47FA5	Equalization Tank	VOC	0.01	0.01
47GF5401	API Separator	VOC	0.14	0.62
		H_2S	0.02	0.07
90CPI2001	Outfall 007 CPI Separator	VOC	0.25	1.12
90CPI8301	Outfall 003 CPI Separator	VOC	0.27	1.18
91CPI0301	300-Tank Farm CPI Separator	VOC	0.14	0.61
91CPI0401	400-Tank Farm CPI Separator	VOC	0.08	0.35
91CPI901	900-Tank Farm CPI Separator	VOC	0.14	0.61

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
30FL1 and 30FL6	Main Refinery Flare and ULSD Flare Combined Emissions	NO_x	12.00	19.30
		CO	86.50	139.50
		VOC	255.00	393.30
		SO_2	1,402.00	115.60
		H_2S	14.20	1.20
FUG	Fugitives (5)	VOC	88.09	385.63
		Benzene	0.13	0.58
		H_2S	0.21	0.91
		NH_3	0.05	0.16
22AVENT	BHT Catalyst Regeneration	VOC	5.00	0.06
22FA225	Alky Unit Bauxite Tower Washing	VOC	1.00	0.03
Maintenance, Startup and Shutdown (MSS)				
EXCH-MSS	Heat Exchanger MSS Emissions	VOC	17.35	1.81
		Benzene	0.10	0.01
SMALL-MSS	Small Equipment MSS Emissions	VOC	2.08	1.56
		Benzene	0.01	0.01
VAC-MSS	Vacuum Truck MSS Emissions	VOC	1.37	0.51
		Benzene	0.02	0.01
		NH_3	0.01	0.01
		H_2S	0.01	0.01
FRAC-MSS	Frac Tank MSS Emissions	VOC	0.88	5.36
		Benzene	0.01	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)
VACFR-MSS	Vacuum Truck/Frac Tank Cleaning MSS Emissions	VOC	2.93	0.11
		Benzene	0.05	0.01
		NH_3	0.01	0.01
WW-MSS	Wastewater Treatment Plant MSS Activities	VOC	0.14	0.01
		Benzene	0.98	0.02
		NH_3	0.05	0.01
		H_2S	0.01	0.01
TANK-MSS	Tank MSS Activities	VOC	529.27	(6)
		Benzene	8.07	(6)
47FB7403-MSS	Storage Tank 45FB7403 MSS	VOC	(8)	(6)
		NH_3	0.01	<0.01
		H_2S	0.23	<0.01
INSIG-MSS	Insignificant MSS Activities	VOC	23.82	4.15
		NO_x	0.15	0.03
		SO_2	0.15	0.03
		CO	0.15	0.03
		Benzene	0.01	0.01
		PM_{10}	6.30	0.39
		$PM_{2.5}$	0.95	0.06
DEINV-MSS	Deinventory MSS Activities	VOC	4.11	0.16
		Benzene	0.05	0.01
FCCU-MSS	FCCU MSS Activities	CO	1,129.66	27.11

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
BOILER-MSS	Boiler MSS Activities	NO_X	11.99	(7)
		CO	123.86	(7)
TO-MSS	Thermal Oxidizer Controlled MSS Activities	VOC	5.21	3.28
		NO_X	6.12	0.34
		SO_2	0.01	0.01
		CO	5.14	0.29
		Benzene	0.04	0.03
		NH_3	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		H_2S	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
H_2S - hydrogen sulfide
NH_3 - ammonia
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_2SO_4 - sulfuric acid
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Annual emissions from activities authorized by EPN TANK-MSS will be accommodated as part of the annual allowable rate of each of the storage tanks. Compliance will be demonstrated by performing monthly calculations as required in Special Condition No. 46.F(4).
(7) Annual emissions of NOx and CO from activities authorized by EPN BOILER-MSS will be accommodated as part of the annual allowable NOx and CO caps for the boilers.
(8) Hourly emissions are authorized by EPN TANK-MSS.

Date: January 18, 2019