

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
TPC Group LLC

AUTHORIZING THE OPERATION OF
Houston Plant
All Other Basic Organic Chemical Manufacturing

LOCATED AT
Harris County, Texas
Latitude 29° 41' 57" Longitude 95° 15' 14"
Regulated Entity Number: RN100219526

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: O1598 Issuance Date: January 9, 2025

For the Commission

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General Terms and Conditions

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

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

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

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

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

Special Terms and Conditions:

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

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
 - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
 - E. Emission units subject to 40 CFR Part 63, Subparts F, G, H, Y, FFFF, ZZZZ, or DDDDD as identified in the attached Applicable Requirements Summary table are subject to

30 TAC Chapter 113, Subchapter C, §§ 113.110, 113.120, 113.130, 113.300, 113.890, 113.1090, or 113.1130, respectively, which incorporate the 40 CFR Part 63 Subparts by reference.

- F. 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
- G. 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
- H. 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
- I. 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 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.

- C. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- D. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- E. 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)
- F. 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)
- G. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
- (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
 - (ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
 - (iii) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
 - (iv) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
4. 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:
- A. Title 30 TAC § 115.145 (relating to Approved Test Methods)
 - B. Title 30 TAC § 115.146 (relating to Recordkeeping Requirements)
 - C. Title 30 TAC § 115.147(1) (relating to Exemptions)
 - D. Title 30 TAC § 115.148 (relating to Determination of Wastewater Characteristics)
6. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
- A. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities, constructed prior to November 15, 1992, with transfers to stationary storage tanks located at a facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:
 - (i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
 - (ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)
 - (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

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

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

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

- (i) Title 30 TAC § 115.541(a) - (c) (relating to Emission Specifications)
- (ii) Title 30 TAC § 115.541(f) (relating to Emission Specifications), for floating roof storage tanks
- (iii) Title 30 TAC § 115.542(a) and (a)(1), (a)(2), (a)(3) or (a)(4) (relating to Control Requirements). Where the requirements of 30 TAC Chapter 115, Subchapter F contain multiple compliance options, the permit holder shall keep records of when each compliance option was used.
- (iv) Title 30 TAC § 115.542(b) - (d), (relating to Control Requirements)
- (v) Title 30 TAC § 115.543 (relating to Alternate Control Requirements)
- (vi) Title 30 TAC § 115.544(a)(1) and (a)(2) (relating to Inspection, Monitoring, and Testing Requirements), for inspections
- (vii) Title 30 TAC § 115.544(b) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring
- (viii) Title 30 TAC § 115.544(b)(1) and (b)(2) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring of control devices
- (ix) Title 30 TAC § 115.544(b)(2)(A) - (J) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring (as appropriate to the control device)
- (x) Title 30 TAC § 115.544(b)(3), (b)(4) and (b)(6) (relating to Inspection, Monitoring, and Testing Requirements), for VOC concentration or lower explosive limit threshold monitoring
- (xi) Title 30 TAC § 115.544(c), and (c)(1) - (c)(3) (relating to Inspection, Monitoring, and Testing Requirements), for testing of control devices used to comply with 30 TAC § 115.542(a)(1)
- (xii) Title 30 TAC § 115.545(1) - (7), (9) - (11) and (13) (relating to Approved Test Methods)
- (xiii) Title 30 TAC § 115.546(a), (a)(1) and (a)(3) (relating to Recordkeeping and Notification Requirements), for recordkeeping
- (xiv) Title 30 TAC § 115.546(a)(2) and (a)(2)(A) - (J) (relating to Recordkeeping and Notification Requirements), for recordkeeping (as appropriate to the control device)
- (xv) Title 30 TAC § 115.546(a)(4) (relating to Recordkeeping and Notification Requirements), for recordkeeping of testing of control devices used to comply with 30 TAC § 115.542(a)(1)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- C. For the degassing of VOC marine vessels with a nominal capacity of 420,000 gallons or more, the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 115.541(a) - (c) and (e) (relating to Emission Specifications)
 - (ii) Title 30 TAC § 115.542(a) and (a)(1), (a)(2), (a)(3) or (4), (relating to Control Requirements). Where the requirements of 30 TAC Chapter 115, Subchapter F contain multiple compliance options, the permit holder shall keep records of when each compliance option was used
 - (iii) Title 30 TAC § 115.542(b) , (c) and (f) (relating to Control Requirements)
 - (iv) Title 30 TAC § 115.543 (relating to Alternate Control Requirements)
 - (v) Title 30 TAC § 115.544(a)(1) and (a)(2) (relating to Inspection, Monitoring, and Testing Requirements), for inspections
 - (vi) Title 30 TAC § 115.544(b) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring
 - (vii) Title 30 TAC § 115.544(b)(1) and (b)(2) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring of control devices
 - (viii) Title 30 TAC § 115.544(b)(2)(A) - (J) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring (as appropriate to the control device)
 - (ix) Title 30 TAC § 115.544(b)(3), (b)(4) and (b)(6) (relating to Inspection, Monitoring, and Testing Requirements), for VOC concentration or lower explosive limit threshold monitoring
 - (x) Title 30 TAC § 115.544(c), and (c)(1) - (c)(3) (relating to Inspection, Monitoring, and Testing Requirements), for testing of control devices used to comply with 30 TAC § 115.542(a)(1)
 - (xi) Title 30 TAC § 115.545(1) - (7), and (9) - (13) (relating to Approved Test Methods)
 - (xii) Title 30 TAC § 115.546(a), (a)(1) and (a)(3) (relating to Recordkeeping and Notification Requirements), for recordkeeping
 - (xiii) Title 30 TAC § 115.546(a)(2) and (a)(2)(A) - (J) (relating to Recordkeeping and Notification Requirements), for recordkeeping (as appropriate to the control device)
 - (xiv) Title 30 TAC § 115.546(a)(4) (relating to Recordkeeping and Notification Requirements), for recordkeeping of testing of control devices used to comply with 30 TAC § 115.542(a)(1)
 - (xv) Title 30 TAC § 115.546(b) (relating to Recordkeeping and Notification Requirements), for notification

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. 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)
13. For facilities where total annual benzene quantity from waste is less than 1 megagram 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)(5)(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 (b) (relating to Reporting Requirements)
14. 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.
15. For the chemical manufacturing process specified in 40 CFR Part 63, Subpart F, the permit holder shall comply with 40 CFR § 63.103(a) (relating to General Compliance, Reporting, and Recordkeeping Provisions) (Title 30 TAC Chapter 113, Subchapter C, § 113.110 incorporated by reference).
16. For the chemical manufacturing facilities with a 40 CFR Part 63, Subpart G Group 1 or Group 2 wastewater streams that are also subject to 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.120 incorporated by reference):
- A. Title 40 CFR § 63.110(e)(1)(i) and (e)(1)(ii) (relating to Applicability), for 40 CFR Part 63, Subpart G applicability to Group 1 or 2 Wastewater Streams
17. For the chemical manufacturing facilities with a 40 CFR Part 63, Subpart G Group 2 wastewater stream, the permit holder shall comply with (Title 30 TAC Chapter 113, Subchapter C, § 113.120 incorporated by reference):
- A. Title 40 CFR § 63.132(a), (a)(1), and (a)(1)(i) (relating to Process Wastewater Provisions - General)
 - B. Title 40 CFR § 63.146(b)(1) (relating to Process Wastewater Provisions - Reporting)
 - C. Title 40 CFR § 63.147(b)(8) (relating to Process Wastewater Provisions - Recordkeeping)
18. For the chemical manufacturing facilities subject to leak detection requirements in 40 CFR Part 63, Subpart G, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.120 incorporated by reference):
- A. General Leak Detection Requirements:
 - (i) Title 40 CFR § 63.148(d)(1) - (3), and (e) (relating to Leak Inspection Provisions)
 - (ii) Title 40 CFR § 63.148(c), (g), (g)(2), (h), and (h)(2) (relating to Leak Inspection Provisions), for monitoring and testing requirements

- (iii) Title 40 CFR §§ 63.148(g)(2), (h)(2), (i)(1) - (2), (i)(4)(i) - (viii), (i)(5), and 63.152(a)(1) - (5), for recordkeeping requirements
 - (iv) Title 40 CFR §§ 63.148(j), 63.151(a)(6)(i) - (iii), (b)(1) - (2), (j)(1) - (3), 63.152(a)(1) - (5), (b), (b)(1)(i) - (ii), and (b)(4), for reporting requirements
- B. For closed vent system or vapor collection systems constructed of hard piping:
- (i) Title 40 CFR § 63.148(b)(1)(ii) (relating to Leak Inspection Provisions), for monitoring and testing requirements
 - (ii) Title 40 CFR § 63.148(i)(6) (relating to Leak Inspection Provisions), for recordkeeping requirements
19. For the chemical manufacturing facilities subject to transfer operations requirements in 40 CFR Part 63, Subpart G, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.120 incorporated by reference):
- A. Title 40 CFR § 63.126(e)(1) - (2), and (f) (relating to Transfer Operations Provisions Reference Control Technology)
 - B. Title 40 CFR § 63.128(f)(1) - (2) (relating to Transfer Operations Provisions - Test Methods and Procedures)
 - C. Title 40 CFR § 63.130(e) (relating to Transfer Operations Provisions - Periodic Recordkeeping and Reporting)
20. For the chemical manufacturing facilities subject to wastewater operations requirements in 40 CFR Part 63, Subpart G, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.120 incorporated by reference):
- A. Title 40 CFR § 63.135(a) - (f) (relating to Process Wastewater Provisions - Containers)
 - B. Title 40 CFR § 63.136(a) (relating to Process Wastewater Provisions - Individual Drain Systems)
 - C. Title 40 CFR § 63.136(b) - (d) (relating to Process Wastewater Provisions - Individual Drain Systems)
 - D. Title 40 CFR § 63.136(e) - (g) (relating to Process Wastewater Provisions - Individual Drain Systems)
21. For the chemical manufacturing facilities subject to requirements of certain liquid streams in 40 CFR Part 63, Subpart G, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.120 incorporated by reference):
- A. Title 40 CFR § 63.149(a), for control requirements
 - B. Title 40 CFR § 63.152(a)(1) - (5) (relating to General Reporting and Continuous Records)
 - C. Title 40 CFR §§ 63.151(a)(6)(i) - (v), (b)(1) - (2), (j)(1) - (3), 63.152(a)(1) - (5), (b), (b)(1)(i) - (ii), (b)(4) (relating to Initial Notification)

22. For the operations pertaining to the loading and unloading of marine tank vessels specified in 40 CFR Part 63, Subpart Y, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.300 incorporated by reference):
 - A. Title 40 CFR § 63.560(c) (relating to Designation of Affected Source), for applicability of the General Provisions of Subpart A
 - B. Title 40 CFR § 63.563(a)(4) (relating to Compliance and Performance Testing), for vapor tightness requirements of the marine vessels
 - C. Title 40 CFR § 63.564(a)(1) and (d) (relating to Monitoring Requirements)
 - D. Title 40 CFR § 63.565(a) (relating to Test Methods and Procedures), for performance testing requirements
 - E. Title 40 CFR § 63.565(c) (relating to Test Methods and Procedures), for vapor tightness requirements of the marine vessels
 - F. Title 40 CFR § 63.566 (relating to Construction and Reconstruction)
 - G. Title 40 CFR § 63.567(a) - (b) and (h) - (i) (relating to Reporting and Recordkeeping Requirements)
23. For miscellaneous chemical process facilities subject to maintenance wastewater requirements as specified in 40 CFR § 63.2485, Table 7, the permit holder shall comply with the requirements of 40 CFR § 63.105 (relating to Maintenance Wastewater Requirements) (Title 30 TAC Chapter 113, Subchapter C, § 113.890 incorporated by reference).
24. For miscellaneous chemical process facilities with Group 2 wastewater streams subject to wastewater operations requirements in 40 CFR Part 63, Subpart FFFF, the permit holder shall comply with the requirements of 40 CFR § 63.132(a), (a)(1), (a)(1)(i), and (a)(3) as specified in § 63.2485(a) (Title 30 TAC Chapter 113, Subchapter C, § 113.890 incorporated by reference).
25. For the miscellaneous chemical process facilities subject to process wastewater operations requirements as specified in 40 CFR § 63.2485, Table 7, the permit holder shall comply with the following requirements or 40 CFR Part 63, Subpart G (Title 30 TAC Chapter 113, Subchapter C, § 113.890 incorporated by reference).
 - A. Title 40 CFR § 63.135(a) - (f) (relating to Process Wastewater Provisions - Container)
 - B. Title 40 CFR § 63.136(a) (relating to Process Wastewater Provisions - Individual Drain Systems)
 - C. Title 40 CFR § 63.136(b) - (d) (relating to Process Wastewater Provisions - Individual Drain Systems)
 - D. Title 40 CFR § 63.136(e) - (g) (relating to Process Wastewater Provisions - Individual Drain Systems)
26. 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

27. 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

28. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated October 17, 2025 in the application for project 37566), 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
29. 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.
30. 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).
31. 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. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects

Compliance Requirements

- 32. 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.
- 33. 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.
- 34. 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)

35. 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

36. 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

37. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:
 - A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

Permit Location

38. 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)

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

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

| | |
|--|-----------|
| Unit Summary | 21 |
| Applicable Requirements Summary | 54 |

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 |
|---------------------------------------|--------------------------|----------------------------------|----------------------|--|---------------------------|
| 12DG-15E | SRIC ENGINES | N/A | 117-EMERG | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| 12DG-15E | SRIC ENGINES | N/A | IIII-EMER3 | 40 CFR Part 60, Subpart IIII | No changing attributes. |
| 12DG-15E | SRIC ENGINES | N/A | ZZZZ-EMER2 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| 13G-2629E | SRIC ENGINES | N/A | 117-EMERG | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| 13G-2629E | SRIC ENGINES | N/A | IIII-EMER1 | 40 CFR Part 60, Subpart IIII | No changing attributes. |
| 13G-2629E | SRIC ENGINES | N/A | ZZZZ-EMER2 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| 18F-2664 | WASTEWATER UNITS | N/A | 18F-2664-P | 30 TAC Chapter 115, Industrial Wastewater | No changing attributes. |
| 18F-2664 | STORAGE TANKS/VESSELS | N/A | 63G-T1 | 40 CFR Part 63, Subpart G | No changing attributes. |
| 18F-2665 | WASTEWATER UNITS | N/A | 18F-2665-P | 30 TAC Chapter 115, Industrial Wastewater | No changing attributes. |
| 18F-2665 | STORAGE TANKS/VESSELS | N/A | 63G-T1 | 40 CFR Part 63, Subpart G | No changing attributes. |
| 18F-2667 | WASTEWATER UNITS | N/A | 18F-2667-P | 30 TAC Chapter 115, Industrial Wastewater | No changing attributes. |
| 18F-2667 | STORAGE TANKS/VESSELS | N/A | 63G-T1 | 40 CFR Part 63, Subpart G | No changing attributes. |
| 18F-2668 | WASTEWATER UNITS | N/A | 18F-2668-P | 30 TAC Chapter 115, Industrial Wastewater | No changing attributes. |
| 18F-2668 | STORAGE TANKS/VESSELS | N/A | 63G-T1 | 40 CFR Part 63, Subpart G | No changing attributes. |
| 18F-2669 | WASTEWATER UNITS | N/A | 18F-2669-P | 30 TAC Chapter 115, | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|-----------------------------|----------------------------------|----------------------|--|---------------------------|
| | | | | Industrial Wastewater | |
| 18F-2669 | STORAGE TANKS/VESSELS | N/A | 63G-T1 | 40 CFR Part 63, Subpart G | No changing attributes. |
| 18F-2670 | WASTEWATER UNITS | N/A | 18F-2670-P | 30 TAC Chapter 115, Industrial Wastewater | No changing attributes. |
| 18F-2670 | STORAGE TANKS/VESSELS | N/A | 63G-T1 | 40 CFR Part 63, Subpart G | No changing attributes. |
| 18F-2671 | WASTEWATER UNITS | N/A | 18F-2671-P | 30 TAC Chapter 115, Industrial Wastewater | No changing attributes. |
| 18F-2671 | STORAGE TANKS/VESSELS | N/A | 63G-T1 | 40 CFR Part 63, Subpart G | No changing attributes. |
| 18F-2672 | WASTEWATER UNITS | N/A | 18F-2672-P | 30 TAC Chapter 115, Industrial Wastewater | No changing attributes. |
| 18F-2672 | STORAGE TANKS/VESSELS | N/A | 63G-T1 | 40 CFR Part 63, Subpart G | No changing attributes. |
| 19G-3789 | SRIC ENGINES | N/A | R7303 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| 19G-3789 | SRIC ENGINES | N/A | 60IIII-01 | 40 CFR Part 60, Subpart IIII | No changing attributes. |
| 19G-3789 | SRIC ENGINES | N/A | 63ZZZZ | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| 1B-2501 | PROCESS HEATERS/FURNACES | N/A | 1B-2501-P | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| 1B-2501 | PROCESS HEATERS/FURNACES | N/A | 63DDDDD-03 | 40 CFR Part 63, Subpart DDDDD | No changing attributes. |
| 1B-2502 | PROCESS HEATERS/FURNACES | N/A | 1B-2502-P | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| 1B-505 | BOILERS/STEAM | N/A | 1B-505-P | 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 |
|---------------------------------------|---|----------------------------------|----------------------|--|---------------------------|
| | GENERATORS/STEAM GENERATING UNITS | | | Subchapter B | |
| 1B-505 | BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS | N/A | 1B-505-P | 40 CFR Part 60, Subpart Db | No changing attributes. |
| 1B-506 | BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS | N/A | 1B-506-P | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| 1B-506 | BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS | N/A | 1B-506-P | 40 CFR Part 60, Subpart Db | No changing attributes. |
| 1B505 EXH | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-111-02BLR | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 1B506 EXH | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-111-02BLR | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 1D-503 | DISTILLATION OPERATIONS | N/A | 60NNN-BLR | 40 CFR Part 60, Subpart NNN | No changing attributes. |
| 1D-504 | DISTILLATION OPERATIONS | N/A | 60NNN-BLR | 40 CFR Part 60, Subpart NNN | No changing attributes. |
| 1D-505 | DISTILLATION OPERATIONS | N/A | 60NNN-BLR | 40 CFR Part 60, Subpart NNN | No changing attributes. |
| 1D-506 | DISTILLATION OPERATIONS | N/A | 60NNN-BLR | 40 CFR Part 60, Subpart NNN | No changing attributes. |
| 1D-507 | DISTILLATION OPERATIONS | N/A | 60NNN-BLR | 40 CFR Part 60, Subpart NNN | No changing attributes. |
| 1F-501 | REACTOR | N/A | 60RRR | 40 CFR Part 60, Subpart RRR | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|--------------------------|----------------------------------|----------------------|--|---------------------------|
| 1F-502 | REACTOR | N/A | 60RRR | 40 CFR Part 60, Subpart RRR | No changing attributes. |
| 1F-503 | REACTOR | N/A | 60RRR | 40 CFR Part 60, Subpart RRR | No changing attributes. |
| 1F-504 | REACTOR | N/A | 60RRR | 40 CFR Part 60, Subpart RRR | No changing attributes. |
| 1F-505 | REACTOR | N/A | 60RRR | 40 CFR Part 60, Subpart RRR | No changing attributes. |
| 1F-506 | REACTOR | N/A | 60RRR | 40 CFR Part 60, Subpart RRR | No changing attributes. |
| 1F-507 | REACTOR | N/A | 60RRR | 40 CFR Part 60, Subpart RRR | No changing attributes. |
| 1F-511 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| 1G-2520T | STATIONARY TURBINES | N/A | 60KKKK-1 | 40 CFR Part 60, Subpart KKKK | No changing attributes. |
| 1G-901T | STATIONARY TURBINES | N/A | 1G-901T-P | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| 1G-901T | STATIONARY TURBINES | N/A | 60KKKK-2 | 40 CFR Part 60, Subpart KKKK | No changing attributes. |
| 20DG-16 | SRIC ENGINES | N/A | 20DG-16-P | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| 20DG-16 | SRIC ENGINES | N/A | 63ZZZZ | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| 21G-2216 | SRIC ENGINES | N/A | R117-01 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| 21G-2216 | SRIC ENGINES | N/A | 63ZZZZ | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|--------------------------|----------------------------------|----------------------|--|---|
| 2D-68 | WASTEWATER UNITS | N/A | 2D-68-P | 30 TAC Chapter 115, Industrial Wastewater | No changing attributes. |
| 2D-68 | TREATMENT PROCESS | N/A | 2D-68-P | 40 CFR Part 63, Subpart G | Control Device Type = Boiler or process heater with a design heat input capacity greater than or equal to 44 MW. |
| 2D-68 | TREATMENT PROCESS | N/A | 2D-68-P2 | 40 CFR Part 63, Subpart G | Control Device Type = Flare., 95% Reduction Efficiency = Performance tests are not conducted to demonstrate compliance with 95% reduction efficiency, Monitoring Options = Control device is using the monitoring parameters specified in Table 13 of Subpart G., Continuous Monitoring = Complying with the continuous monitoring requirements of § 63.143(e)(1) or § 63.143(e)(2) in Table 13 of Subpart G. |
| 2F-26 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| 31F-2030 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| 31G-2350 | SRIC ENGINES | N/A | 31G-2350-P | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| 31G-2350 | SRIC ENGINES | N/A | 63ZZZZ | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| 3DG-14 | SRIC ENGINES | N/A | R117-01 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| 3DG-14 | SRIC ENGINES | N/A | 63ZZZZ | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|--|----------------------------------|----------------------|--|---|
| 4D-1 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 4D-1-A2 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 4D-1508 | DISTILLATION OPERATIONS | N/A | 60NNN | 40 CFR Part 60, Subpart NNN | No changing attributes. |
| 4D-1510 | WASTEWATER UNITS | N/A | 4D-1510-P | 30 TAC Chapter 115, Industrial Wastewater | No changing attributes. |
| 4D-1510 | TREATMENT PROCESS | N/A | 4D-1510-P | 40 CFR Part 63, Subpart G | Control Device Type = Boiler or process heater with a design heat input capacity greater than or equal to 44 MW. |
| 4D-1510 | TREATMENT PROCESS | N/A | 4D-1510-P2 | 40 CFR Part 63, Subpart G | Control Device Type = Flare., 95% Reduction Efficiency = Performance tests are not conducted to demonstrate compliance with 95% reduction efficiency, Monitoring Options = Control device is using the monitoring parameters specified in Table 13 of Subpart G., Continuous Monitoring = Complying with the continuous monitoring requirements of § 63.143(e)(1) or § 63.143(e)(2) in Table 13 of Subpart G. |
| 4F-14 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| 4F-4473 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| 5F-3 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| 7D-806 | DISTILLATION | N/A | 60NNN | 40 CFR Part 60, Subpart | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|---|----------------------------------|----------------------|--|---------------------------|
| | OPERATIONS | | | NNN | |
| BLR-9 | BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS | N/A | BLR-9-CEMS | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| BLR-9 | BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS | N/A | 60Db-3 | 40 CFR Part 60, Subpart Db | No changing attributes. |
| BLR-9 | BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS | N/A | 63DDDDDD-02 | 40 CFR Part 63, Subpart DDDDD | No changing attributes. |
| BLR-9EXH | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-111-01BLR | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| BOILER10 | BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS | N/A | R7300-1 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| BOILER10 | BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS | N/A | 60Db-1 | 40 CFR Part 60, Subpart Db | No changing attributes. |
| BOILER10 | BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS | N/A | 63DDDDDD-02 | 40 CFR Part 63, Subpart DDDDD | No changing attributes. |
| BOILER10 EXH | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-111-02BLR | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| BOILER11 | BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS | N/A | R7300-1 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| BOILER11 | BOILERS/STEAM | N/A | 60Db-1 | 40 CFR Part 60, Subpart Db | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|---------------|--|--|
| | GENERATORS/STEAM GENERATING UNITS | | | | |
| BOILER11 | BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS | N/A | 63DDDDD-02 | 40 CFR Part 63, Subpart DDDDD | No changing attributes. |
| BOILER11 EXH | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-111-02BLR | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| BUTENE-1-MCPU | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-CPVFLR | 40 CFR Part 63, Subpart FFFF | Designated Grp1 = The emission stream is designated as Group 1., Negative Pressure = The closed vent system is operated and maintained at or above atmospheric pressure., Designated Hal = The emission stream is not designated as halogenated., Prior Eval = The data from a prior evaluation or assessment is not used., Bypass Line = No bypass lines., Emission Standard = The TRE index is not maintained above the threshold (5.0 for a new source and 1.9 for an existing source) and a flare is being used for control., Assessment Waiver = The Administrator has not granted a waiver of compliance assessment or a waiver has not been requested., Determined Hal = The emission stream is determined to be non-halogenated. |
| BUTENE-1-MCPU | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-CPVGP1 | 40 CFR Part 63, Subpart FFFF | Alt 63SS Mon Parameters = Alternate monitoring parameters or requirements have not been |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|-----------|--------------------------|---------------|------------|--|
| | | | | | <p>approved by the Administrator or have not been requested., Bypass Line = No bypass lines., Prior Eval = The data from a prior evaluation or assessment is used., CEMS = A CEMS is used., Designated Grp1 = The emission stream is designated as Group 1., Small Device = A small control device (defined in § 63.2550) is not being used., Designated Hal = The emission stream is not designated as halogenated., Emission Standard = The TRE index is not maintained above the threshold (5.0 for a new source and 1.9 for an existing source) and a non-flare CD is being used to meet 98% reduction per § 63.2455(a) - Table 1.1.a.i., Negative Pressure = The closed vent system is operated and maintained at or above atmospheric pressure., SS Device Type = Boiler or process heater with a design heat input capacity equal to or greater than 44 megawatts (MW) or in which all vent streams are introduced with the primary fuel or are used as the primary fuel., Meets 63.988(b)(2) = The control device meets criteria in § 63.985(b)(2)., Determined Hal = The emission stream is determined to be non-halogenated., Hal Device Type = No halogen scrubber or other halogen reduction device is used.</p> |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---------------------------------|--------------------------|---------------|--|--|
| C-5 | LOADING/UNLOADING OPERATIONS | N/A | 115-212FLRL | 30 TAC Chapter 115, Loading and Unloading of VOC | Marine Terminal Exemptions = The marine terminal is not claiming one or more of the loading exemptions in 30 TAC § 115.217(a)(5)(B)., 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 flare; or a vapor combustor considered to be a flare, Transfer Type = Only loading., Control Options = Vapor control system that maintains a control efficiency of at least 90%. |
| C-5 | LOADING/UNLOADING OPERATIONS | N/A | 115-212FLRU | 30 TAC Chapter 115, Loading and Unloading of VOC | Chapter 115 Control Device Type = Vapor control system with a flare; or a vapor combustor considered to be a flare, Transfer Type = Only unloading., Control Options = Vapor control system that maintains a control efficiency of at least 90%. |
| C-5 | LOADING/UNLOADING OPERATIONS | N/A | 115-212PLSL | 30 TAC Chapter 115, Loading and Unloading of VOC | Marine Terminal Exemptions = The marine terminal is not claiming one or more of the loading exemptions in 30 TAC § 115.217(a)(5)(B)., 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 |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|------------------------------|--------------------------|---------------|--|---|
| | | | | | Control Device Type = No control device., Transfer Type = Only loading., Control Options = Pressurized loading system. |
| C-5 | LOADING/UNLOADING OPERATIONS | N/A | 115-212PLSU | 30 TAC Chapter 115, Loading and Unloading of VOC | Chapter 115 Control Device Type = No control device., Transfer Type = Only unloading., Control Options = Pressurized loading system. |
| C-5 | LOADING/UNLOADING OPERATIONS | N/A | 115-212TOL | 30 TAC Chapter 115, Loading and Unloading of VOC | Marine Terminal Exemptions = The marine terminal is not claiming one or more of the loading exemptions in 30 TAC § 115.217(a)(5)(B)., 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 direct flame incinerator., Transfer Type = Only loading., Control Options = Vapor control system that maintains a control efficiency of at least 90%. |
| C-5 | LOADING/UNLOADING OPERATIONS | N/A | 115-212TOU | 30 TAC Chapter 115, Loading and Unloading of VOC | Chapter 115 Control Device Type = Control device other than a flare, vapor combustor, catalytic incinerator, direct flame incinerator, chiller, or carbon adsorption system., Transfer Type = Only unloading., Control Options = Vapor control system that maintains a control efficiency of at least 90%. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---------------------------------|--------------------------|---------------|--|---|
| C-5 | LOADING/UNLOADING OPERATIONS | N/A | 115-217EXMPTL | 30 TAC Chapter 115, Loading and Unloading of VOC | Marine Terminal Exemptions = The marine terminal is claiming one or more of the loading exemptions in 30 TAC § 115.217(a)(5)(B)., 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 = Control device other than a flare, vapor combustor, catalytic incinerator, direct flame incinerator, chiller, or carbon adsorption system., Uncontrolled VOC Emissions = Uncontrolled VOC emissions are less than 100 tpy., VOC Flash Point = Flash point less than 150° F., Transfer Type = Only loading., Control Options = Vapor control system that maintains a control efficiency of at least 90%. |
| C-5 | LOADING/UNLOADING OPERATIONS | N/A | 115-217EXMPTU | 30 TAC Chapter 115, Loading and Unloading of VOC | Chapter 115 Control Device Type = Control device other than a flare, vapor combustor, catalytic incinerator, direct flame incinerator, chiller, or carbon adsorption system., Transfer Type = Only unloading., Control Options = Vapor control system that maintains a control efficiency of at least 90%. |
| C-5 | LOADING/UNLOADING OPERATIONS | N/A | C-5-P | 40 CFR Part 63, Subpart Y | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--|--------------------------|---------------|--|--|
| COMB 1B-505V | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-121-01BLR | 30 TAC Chapter 115, Vent Gas Controls | Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule. |
| COMB 1B-505V | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-121-02BLR | 30 TAC Chapter 115, Vent Gas Controls | Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10., Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit., Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv., 40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices., 40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--|--------------------------|---------------|--|--|
| | | | | | control devices. |
| COMB 1B-506V | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-121-01BLR | 30 TAC Chapter 115, Vent Gas Controls | Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule. |
| COMB 1B-506V | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-121-02BLR | 30 TAC Chapter 115, Vent Gas Controls | Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10., Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit., Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv., 40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices., 40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--|--------------------------|---------------|--|---|
| | | | | | index value is greater than 1.0 without the use of VOC emission control devices. |
| COMB BLR 9V | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-121-01BLR | 30 TAC Chapter 115, Vent Gas Controls | Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule. |
| COMB BLR 9V | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-121-02BLR | 30 TAC Chapter 115, Vent Gas Controls | Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10., Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit., Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv., 40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices., 40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--|--------------------------|---------------|--|--|
| | | | | | Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices. |
| COMB BLR10/11V | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-722-01BLR | 30 TAC Chapter 115, HRVOC Vent Gas | No changing attributes. |
| COMB BLR10/11V | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-121-01BLR | 30 TAC Chapter 115, Vent Gas Controls | Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule. |
| COMB BLR10/11V | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-121-02BLR | 30 TAC Chapter 115, Vent Gas Controls | Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10., Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit., Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv., 40 CFR 60 Subpart NNN Requirements = The distillation unit vent gas stream satisfies one of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--|--------------------------|---------------|---------------------------------------|--|
| | | | | | is greater than 1.0 without the use of VOC emission control devices., 40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies one of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices. |
| COMB EP-5V | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-722-01FLR | 30 TAC Chapter 115, HRVOC Vent Gas | No changing attributes. |
| COMB EP-5V | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-121-01FLR | 30 TAC Chapter 115, Vent Gas Controls | Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule. |
| COMB EP-5V | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-121-02FLR | 30 TAC Chapter 115, Vent Gas Controls | Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10., Total Design Capacity = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit., Flow Rate or VOC Concentration = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv., 40 CFR 60 Subpart NNN Requirements = |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--|--------------------------|---------------|--|---|
| | | | | | The distillation unit vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices., 40 CFR 60 Subpart RRR Requirements = The reactor process vent gas stream satisfies neither of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices. |
| COMB EP-5V | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-01FLR | 40 CFR Part 63, Subpart FFFF | No changing attributes. |
| COMB EP-5V | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63G-001 | 40 CFR Part 63, Subpart G | No changing attributes. |
| CT-10 | INDUSTRIAL PROCESS COOLING TOWERS | N/A | R5761-1 | 30 TAC Chapter 115, HRVOC Cooling Towers | No changing attributes. |
| CT-11 | INDUSTRIAL PROCESS COOLING TOWERS | N/A | R5761-2 | 30 TAC Chapter 115, HRVOC Cooling Towers | No changing attributes. |
| CT-14 | INDUSTRIAL PROCESS COOLING TOWERS | N/A | R5761-1 | 30 TAC Chapter 115, HRVOC Cooling Towers | No changing attributes. |
| CT-17 | INDUSTRIAL PROCESS COOLING TOWERS | N/A | R5761-1 | 30 TAC Chapter 115, HRVOC Cooling Towers | No changing attributes. |
| CT-18 | INDUSTRIAL PROCESS | N/A | R5761-1 | 30 TAC Chapter 115, | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|--|----------------------------------|----------------------|--|---------------------------|
| | COOLING TOWERS | | | HRVOC Cooling Towers | |
| CT-3 | INDUSTRIAL PROCESS COOLING TOWERS | N/A | R5761-1 | 30 TAC Chapter 115, HRVOC Cooling Towers | No changing attributes. |
| CT-7 | INDUSTRIAL PROCESS COOLING TOWERS | N/A | R5761-1 | 30 TAC Chapter 115, HRVOC Cooling Towers | No changing attributes. |
| DEGREAS1 | SOLVENT DEGREASING MACHINES | N/A | R5412 | 30 TAC Chapter 115, Degreasing Processes | No changing attributes. |
| DEGREAS2 | SOLVENT DEGREASING MACHINES | N/A | R5412 | 30 TAC Chapter 115, Degreasing Processes | No changing attributes. |
| DH2-GEN | SRIC ENGINES | N/A | 117-EMERG | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| DH2-GEN | SRIC ENGINES | N/A | IIII-EMER3 | 40 CFR Part 60, Subpart IIII | No changing attributes. |
| DH2-GEN | SRIC ENGINES | N/A | ZZZZ-EMER1 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| DOCK-TO EXH | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-111-01TO | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| E-563 | FLARES | N/A | E-563-P | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| E-563 | FLARES | N/A | E-563-P | 40 CFR Part 60, Subpart A | No changing attributes. |
| E-563 | FLARES | N/A | E-563-P | 40 CFR Part 63, Subpart A | No changing attributes. |
| E-PIB1RC1 | LOADING/UNLOADING OPERATIONS | N/A | R5211-0 | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| E-PIB1RC2 | LOADING/UNLOADING OPERATIONS | N/A | R5211-0 | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|------------------------------|----------------------------------|----------------------|--|---|
| E-PIB2RC1 | LOADING/UNLOADING OPERATIONS | N/A | E-PIB2RC2-P | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| E-PIB2RC2 | LOADING/UNLOADING OPERATIONS | N/A | E-PIB2RC2-P | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| E-PIB2TT1 | LOADING/UNLOADING OPERATIONS | N/A | E-PIB2TT1-P | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| E-PIB2TT2 | LOADING/UNLOADING OPERATIONS | N/A | E-PIB2TT2-P | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| E-PIBTT | LOADING/UNLOADING OPERATIONS | N/A | R5211-0 | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| EP-5 | FLARES | N/A | PROCEMISS-P | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| EP-5 | FLARES | N/A | PROCEMISS-P | 30 TAC Chapter 115, HRVOC Vent Gas | No changing attributes. |
| EP-5 | FLARES | N/A | 60A-1 | 40 CFR Part 60, Subpart A | Heating Value of Gas = Heating value is greater than 1000 Btu/scf (37.3 MJ/scm) |
| EP-5 | FLARES | N/A | PROCEMISS-P | 40 CFR Part 60, Subpart A | Flare Assist Type = Steam-assisted, Flare Exit Velocity = Flare exit velocity is less than 60 ft/s (18.3 m/sec), Adhering to the heat content specifications in 40 CFR § 60.18(c)(3)(ii) and the maximum tip velocity specifications in 40 CFR § 60.18(c)(4). |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|--|----------------------------------|----------------------|--|---|
| EP-5 | FLARES | N/A | 63A-1 | 40 CFR Part 63, Subpart A | Flare Exit Velocity = Flare exit velocity is less than 60 ft/s (18.3 m/sec) |
| EP-5 | FLARES | N/A | 63A-3 | 40 CFR Part 63, Subpart A | Flare Exit Velocity = Flare exit velocity is greater than or equal to 60 ft/s (18.3 m/sec) but less than 400 ft/s (122 m/sec). |
| EP-5 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF | 40 CFR Part 63, Subpart FFFF | No changing attributes. |
| EP-5 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63G-1 | 40 CFR Part 63, Subpart G | No changing attributes. |
| F-TTR | LOADING/UNLOADING OPERATIONS | N/A | R5211-1 | 30 TAC Chapter 115, Loading and Unloading of VOC | True Vapor Pressure = True vapor pressure less than 0.5 psia. |
| F-TTR | LOADING/UNLOADING OPERATIONS | N/A | R5211-2 | 30 TAC Chapter 115, Loading and Unloading of VOC | Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected., True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Chapter 115 Control Device Type = No control device., Control Options = Vapor balance system. |
| F-TTR | LOADING/UNLOADING OPERATIONS | N/A | R5211-3 | 30 TAC Chapter 115, Loading and Unloading of VOC | Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected., True Vapor Pressure = True vapor pressure greater than |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|------------------------------|--------------------------|---------------|--|---|
| | | | | | or equal to 0.5 psia., Chapter 115 Control Device Type = Vapor control system with a flare; or a vapor combustor considered to be a flare, Control Options = Vapor control system that maintains a control efficiency of at least 90%. |
| F-TTR | LOADING/UNLOADING OPERATIONS | N/A | R5211-4 | 30 TAC Chapter 115, Loading and Unloading of VOC | Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected., True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Chapter 115 Control Device Type = Control device other than a flare, vapor combustor, catalytic incinerator, direct flame incinerator, chiller, or carbon adsorption system., Control Options = Vapor control system that maintains a control efficiency of at least 90%. |
| F-TTR | LOADING/UNLOADING OPERATIONS | N/A | TRUCK-RACK-F | 40 CFR Part 63, Subpart G | No changing attributes. |
| FUG-HON | FUGITIVE EMISSION UNITS | N/A | 63H-ALL | 40 CFR Part 63, Subpart H | No changing attributes. |
| FUG-HRVOC | FUGITIVE EMISSION UNITS | N/A | R5780-ALL | 30 TAC Chapter 115, HRVOC Fugitive Emissions | No changing attributes. |
| FUG-MON | FUGITIVE EMISSION UNITS | N/A | 63FFFF | 40 CFR Part 63, Subpart FFFF | No changing attributes. |
| FUG-REGV | FUGITIVE EMISSION UNITS | N/A | R5352-ALL | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|-------------------------|----------------------------------|----------------------|---------------------------------------|---|
| FUG-VV | FUGITIVE EMISSION UNITS | N/A | 60VV-ALL | 40 CFR Part 60, Subpart VV | No changing attributes. |
| FUG-VVA | FUGITIVE EMISSION UNITS | N/A | 60VVA-ALL | 40 CFR Part 60, Subpart VVa | Compliance Option = Choosing to comply with the provisions of 40 CFR Part 60, Subpart VVa. |
| FUG-VVA | FUGITIVE EMISSION UNITS | N/A | 60VVA-63H | 40 CFR Part 60, Subpart VVa | Produces Chemicals = The facility produces, as an intermediate or final product, one or more of the chemicals listed in 40 CFR § 60.489a., Affected Facility = The facility is an affected facility as defined in 40 CFR § 60.480a(a)(2)., Compliance Option = Choosing to comply with the provisions of 40 CFR Part 63, Subpart H., Construction/Modification Date = After November 7, 2006. |
| FW-ENG | SRIC ENGINES | N/A | 117-EMERG | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| FW-ENG | SRIC ENGINES | N/A | IIII-EMER2 | 40 CFR Part 60, Subpart IIII | No changing attributes. |
| FW-ENG | SRIC ENGINES | N/A | ZZZZ-EMER3 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| LABST-1 | STORAGE TANKS/VESSELS | N/A | 115-VP1.5- | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| MSS-FLR | FLARES | N/A | R111-111a4 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| N14-C475 | SRIC ENGINES | N/A | R117-01 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| N14-C475 | SRIC ENGINES | N/A | 63ZZZZ | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|--|----------------------------------|----------------------|---|--|
| OIL SEP | VOLATILE ORGANIC COMPOUND WATER SEPARATORS | N/A | OIL SEP-P | 30 TAC Chapter 115, Water Separation | No changing attributes. |
| PHEN-GEN | SRIC ENGINES | N/A | R703 | 30 TAC Chapter 117, Subchapter B | RACT Date Placed in Service = After June 9, 1993 and on or after the final compliance date specified in 30 TAC §§ 117.9000, 117.9010 or 117.9020, Functionally Identical Replacement = Unit is not a functionally identical replacement, Type of Service = New, modified, reconstructed or relocated diesel fuel-fired engine, placed into service on or after October 1, 2001, located in the Houston/Galveston/Brazoria ozone nonattainment area, operated less than 100 hours/year, on a rolling 12-month average |
| PHEN-GEN | SRIC ENGINES | N/A | R7303 | 30 TAC Chapter 117, Subchapter B | Type of Service = Used exclusively in emergency situations, Fuel Fired = Petroleum-based diesel fuel |
| PHEN-GEN | SRIC ENGINES | N/A | 60III-01 | 40 CFR Part 60, Subpart IIII | No changing attributes. |
| PHEN-GEN | SRIC ENGINES | N/A | 63-ZZZZ | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| PIB1-MCPU | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-CPVFLR | 40 CFR Part 63, Subpart FFFF | Designated Grp1 = The emission stream is designated as Group 1., Negative Pressure = The closed vent system is operated and maintained at or above atmospheric pressure., Designated Hal = The emission stream is not designated as halogenated., Prior Eval = The |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|----------------------|---|---|
| | | | | | <p>data from a prior evaluation or assessment is not used., Bypass Line = No bypass lines., Emission Standard = The TRE index is not maintained above the threshold (5.0 for a new source and 1.9 for an existing source) and a flare is being used for control., Assessment Waiver = The Administrator has not granted a waiver of compliance assessment or a waiver has not been requested., Determined Hal = The emission stream is determined to be non-halogenated.</p> |
| <p>PIB1-MCPU</p> | <p>EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS</p> | <p>N/A</p> | <p>63FFFF-CPVGP1</p> | <p>40 CFR Part 63, Subpart FFFF</p> | <p>Alt 63SS Mon Parameters = Alternate monitoring parameters or requirements have not been approved by the Administrator or have not been requested., Bypass Line = No bypass lines., Prior Eval = The data from a prior evaluation or assessment is used., CEMS = A CEMS is used., Designated Grp1 = The emission stream is designated as Group 1., Small Device = A small control device (defined in § 63.2550) is not being used., Designated Hal = The emission stream is not designated as halogenated., Emission Standard = The TRE index is not maintained above the threshold (5.0 for a new source and 1.9 for an existing source) and a non-flare CD is being used to meet 98% reduction per § 63.2455(a) -</p> |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--|--------------------------|---------------|---------------------------------|--|
| | | | | | <p>Table 1.1.a.i., Negative Pressure = The closed vent system is operated and maintained at or above atmospheric pressure., SS Device Type = Boiler or process heater with a design heat input capacity equal to or greater than 44 megawatts (MW) or in which all vent streams are introduced with the primary fuel or are used as the primary fuel., Meets 63.988(b)(2) = The control device meets criteria in § 63.985(b)(2)., Determined Hal = The emission stream is determined to be non-halogenated.</p> |
| PIB2-MCPU | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-CPVFLR | 40 CFR Part 63, Subpart FFFF | <p>Designated Grp1 = The emission stream is designated as Group 1., Negative Pressure = The closed vent system is operated and maintained at or above atmospheric pressure., Designated Hal = The emission stream is not designated as halogenated., Prior Eval = The data from a prior evaluation or assessment is not used., Bypass Line = No bypass lines., Emission Standard = The TRE index is not maintained above the threshold (5.0 for a new source and 1.9 for an existing source) and a flare is being used for control., Assessment Waiver = The Administrator has not granted a waiver of compliance assessment or a waiver has not been requested., Determined Hal =</p> |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--|--------------------------|---------------|---------------------------------|--|
| | | | | | The emission stream is determined to be non-halogenated. |
| PIB2-MCPU | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-CPVGP1 | 40 CFR Part 63, Subpart FFFF | Alt 63SS Mon Parameters = Alternate monitoring parameters or requirements have not been approved by the Administrator or have not been requested., Bypass Line = No bypass lines., Prior Eval = The data from a prior evaluation or assessment is used., CEMS = A CEMS is used., Designated Grp1 = The emission stream is designated as Group 1., Small Device = A small control device (defined in § 63.2550) is not being used., Designated Hal = The emission stream is not designated as halogenated., Emission Standard = The TRE index is not maintained above the threshold (5.0 for a new source and 1.9 for an existing source) and a non-flare CD is being used to meet 98% reduction per § 63.2455(a) - Table 1.1.a.i., Negative Pressure = The closed vent system is operated and maintained at or above atmospheric pressure., SS Device Type = Boiler or process heater with a design heat input capacity equal to or greater than 44 megawatts (MW) or in which all vent streams are introduced with the primary fuel or are used as the primary fuel., Meets 63.988(b)(2) = The control device meets criteria in § |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|--|----------------------------------|----------------------|-------------------------------------|--|
| | | | | | 63.985(b)(2)., Determined Hal = The emission stream is determined to be non-halogenated. |
| PIBWWSTPOH | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-CPVFLR | 40 CFR Part 63, Subpart FFFF | No changing attributes. |
| PRO-BD-CMPU | CHEMICAL MANUFACTURING PROCESS | N/A | PRO-BD-P | 40 CFR Part 63, Subpart F | No changing attributes. |
| PRO-HPIB-CMPU | CHEMICAL MANUFACTURING PROCESS | N/A | PRO-HPIB-P | 40 CFR Part 63, Subpart F | No changing attributes. |
| PRO-IBE-CMPU | CHEMICAL MANUFACTURING PROCESS | N/A | PRO-IBE-CMPU-P | 40 CFR Part 63, Subpart F | No changing attributes. |
| PRO-MTBE-CMPU | CHEMICAL MANUFACTURING PROCESS | N/A | PRO-MTBE-P | 40 CFR Part 63, Subpart F | No changing attributes. |
| T-103 | STORAGE TANKS/VESSELS | N/A | R5112 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-103 | STORAGE TANKS/VESSELS | N/A | 63G | 40 CFR Part 63, Subpart G | No changing attributes. |
| T-110 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-111 | STORAGE TANKS/VESSELS | N/A | R5112 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-112 | STORAGE TANKS/VESSELS | N/A | R5112 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-114 | STORAGE | N/A | R5112 | 30 TAC Chapter 115, | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|--------------------------|----------------------------------|----------------------|--|---------------------------|
| | TANKS/VESSELS | | | Storage of VOCs | |
| T-114 | STORAGE TANKS/VESSELS | N/A | 63G | 40 CFR Part 63, Subpart G | No changing attributes. |
| T-115 | STORAGE TANKS/VESSELS | N/A | R5112 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-115 | STORAGE TANKS/VESSELS | N/A | 63G | 40 CFR Part 63, Subpart G | No changing attributes. |
| T-117 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-118 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-119 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-155 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-1F-924 | STORAGE TANKS/VESSELS | N/A | R5112 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-204 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-205 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-206 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-31 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-32 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|--------------------------|----------------------------------|----------------------|--|---------------------------|
| T-46 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-71 | STORAGE TANKS/VESSELS | N/A | R5112-T71 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-71 | STORAGE TANKS/VESSELS | N/A | 63G-T71 | 40 CFR Part 63, Subpart G | No changing attributes. |
| T-72 | STORAGE TANKS/VESSELS | N/A | T-72-P | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-72 | STORAGE TANKS/VESSELS | N/A | T-72-P | 40 CFR Part 63, Subpart G | No changing attributes. |
| T-73 | STORAGE TANKS/VESSELS | N/A | R5112-T73-P | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-73 | STORAGE TANKS/VESSELS | N/A | 63G-T73-P | 40 CFR Part 63, Subpart G | No changing attributes. |
| T-74 | STORAGE TANKS/VESSELS | N/A | R5112-T74-P | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-74 | STORAGE TANKS/VESSELS | N/A | 63G-T74-P | 40 CFR Part 63, Subpart G | No changing attributes. |
| T-77 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-78 | STORAGE TANKS/VESSELS | N/A | R5112-P | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-79 | STORAGE TANKS/VESSELS | N/A | R5112-P | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-80 | STORAGE TANKS/VESSELS | N/A | T-80-P | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-80 | STORAGE TANKS/VESSELS | N/A | T-80-P | 40 CFR Part 63, Subpart G | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|--|----------------------------------|----------------------|---|---------------------------|
| T-81 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-82 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-82 | STORAGE TANKS/VESSELS | N/A | 63-G | 40 CFR Part 63, Subpart G | No changing attributes. |
| T-83 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-84 | STORAGE TANKS/VESSELS | N/A | R5112 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-85 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-86 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-87 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-87 | STORAGE TANKS/VESSELS | N/A | 63G-01 | 40 CFR Part 63, Subpart G | No changing attributes. |
| T-910549 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-920396 | STORAGE TANKS/VESSELS | N/A | R5112-1 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-DIESEL | STORAGE TANKS/VESSELS | N/A | R5112 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| T-P1WW1 | VOLATILE ORGANIC COMPOUND WATER SEPARATORS | N/A | R5131 | 30 TAC Chapter 115, Water Separation | No changing attributes. |
| T-P1WW2 | VOLATILE ORGANIC | N/A | R5131 | 30 TAC Chapter 115, Water | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|--|----------------------------------|----------------------|--|---|
| | COMPOUND WATER SEPARATORS | | | Separation | |
| T-P2WW1 | VOLATILE ORGANIC COMPOUND WATER SEPARATORS | N/A | R5131 | 30 TAC Chapter 115, Water Separation | No changing attributes. |
| T01 | STORAGE TANKS/VESSELS | N/A | R5112 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TANK-TBD | STORAGE TANKS/VESSELS | N/A | R5112-003 | 30 TAC Chapter 115, Storage of VOCs | True Vapor Pressure = True vapor pressure is less than 1.0 psia |
| TANK-TBD | STORAGE TANKS/VESSELS | N/A | R5112-004 | 30 TAC Chapter 115, Storage of VOCs | True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia |
| TANK-TBD | STORAGE TANKS/VESSELS | N/A | 63G-02 | 40 CFR Part 63, Subpart G | No changing attributes. |
| TANKCAR | LOADING/UNLOADING OPERATIONS | N/A | R5211-1 | 30 TAC Chapter 115, Loading and Unloading of VOC | True Vapor Pressure = True vapor pressure less than 0.5 psia. |
| TANKCAR | LOADING/UNLOADING OPERATIONS | N/A | R5211-2 | 30 TAC Chapter 115, Loading and Unloading of VOC | Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected., True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Chapter 115 Control Device Type = No control device., Control Options = Vapor balance system. |
| TANKCAR | LOADING/UNLOADING OPERATIONS | N/A | R5211-3 | 30 TAC Chapter 115, Loading and Unloading of VOC | Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--|--------------------------|---------------|--|---|
| | | | | | disconnected., True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Chapter 115 Control Device Type = Vapor control system with a flare; or a vapor combustor considered to be a flare, Control Options = Vapor control system that maintains a control efficiency of at least 90%. |
| TANKCAR | LOADING/UNLOADING OPERATIONS | N/A | R5211-4 | 30 TAC Chapter 115, Loading and Unloading of VOC | Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected., True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Chapter 115 Control Device Type = Control device other than a flare, vapor combustor, catalytic incinerator, direct flame incinerator, chiller, or carbon adsorption system., Control Options = Vapor control system that maintains a control efficiency of at least 90%. |
| TANKCAR | LOADING/UNLOADING OPERATIONS | N/A | TANKCAR-F | 40 CFR Part 63, Subpart G | No changing attributes. |
| ULTRA | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | ULTRA-A1 | 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) |
|---------------------------|-------------------------|---------------|--------------------------|---------------------------------------|---|--|-------------------------------------|---|---|
| 12DG-15E | EU | 117-EMERG | Exempt | 30 TAC Chapter 117, Subchapter B | § 117.303(a)(6)(D) [G]§ 117.310(f) | Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average. | § 117.8140(a) § 117.8140(a)(3) | § 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |
| 12DG-15E | EU | IIII-EMER3 | CO | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) | 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 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 60.4202(a)(2) and 40 CFR 1039-Appendix I. | None | None | [G]§ 60.4214(d) |
| 12DG-15E | EU | IIII-EMER3 | NMHC and NO _x | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 1039-Appendix I § 60.4202(a)(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 | 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) | or equal to 75 KW and less than or equal to 560 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 4.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I. | | | |
| 12DG-15E | EU | IIII-EMER3 | PM | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) | 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 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 PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I. | None | None | [G]§ 60.4214(d) |
| 12DG-15E | EU | IIII-EMER3 | PM (Opacity) | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 1039.105(b)(1) § 1039.105(b)(2) § 1039.105(b)(3) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) | Emergency stationary CI ICE, that are not fire pump engines, with displacement < 10 lpc and not constant-speed engines, with max engine power < 2237 KW and a 2007 model year and later or max engine power > 2237 KW and a 2011 model year and later, must comply with following opacity emission limits: 20% during | 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) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|-------------------------------------|--|---|
| | | | | | | acceleration, 15% during lugging, 50% during peaks in either acceleration or lugging modes as stated in §60.4202(a)(1)-(2), (b)(2), and 40 CFR 1039.105(b)(1)-(3). | | | |
| 12DG-15E | EU | ZZZZ-EMER2 | 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 |
| 13G-2629E | EU | 117-EMERG | 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 | § 117.8140(a) § 117.8140(a)(3) | § 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|--------------------------|---------------------------------------|---|--|-------------------------------------|---|---|
| | | | | | | purposes is allowed for up to 52 hours per year, based on a rolling 12-month average. | | | |
| 13G-2629E | EU | IIII-EMER1 | NMHC and NO _x | 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) | 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 an NMHC+NO _x emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart. | None | None | [G]§ 60.4214(d) |
| 13G-2629E | EU | IIII-EMER1 | 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) | 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) |
| 13G-2629E | EU | ZZZZ-EMER2 | 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 | 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) |
|---------------------------|-------------------------|---------------|-------------|---|--|--|--|---|---|
| | | | | | | 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. | | | |
| 18F-2664 | EU | 18F-2664-P | VOC | 30 TAC Chapter 115, Industrial Wastewater | § 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148 | The wastewater component shall meet the specified control requirements. | [G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(H) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148 | [G]§ 115.142(1)(H) § 115.144(3)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4) | None |
| 18F-2664 | EU | 63G-T1 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.133(a)(1) | A fixed roof shall be operated and maintained except that if the wastewater tank is used for specified purpose, then owner or operator shall comply with requirements of § 63.133(a)(2). | None | None | § 63.146(b)(2) § 63.146(b)(5) [G]§ 63.151(a)(6) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(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) |
|---------------------------|-------------------------|---------------|-------------|---|--|--|--|---|---|
| | | | | | | | | | § 63.152(c)(4)(ii) |
| 18F-2665 | EU | 18F-2665-P | VOC | 30 TAC Chapter 115, Industrial Wastewater | § 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148 | The wastewater component shall meet the specified control requirements. | [G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(H) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148 | [G]§ 115.142(1)(H) § 115.144(3)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4) | None |
| 18F-2665 | EU | 63G-T1 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.133(a)(1) | A fixed roof shall be operated and maintained except that if the wastewater tank is used for specified purpose, then owner or operator shall comply with requirements of § 63.133(a)(2). | None | None | § 63.146(b)(2) § 63.146(b)(5) [G]§ 63.151(a)(6) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(c)(1) § 63.152(c)(4)(ii) |
| 18F-2667 | EU | 18F-2667-P | VOC | 30 TAC Chapter 115, Industrial Wastewater | § 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148 | The wastewater component shall meet the specified control requirements. | [G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(E) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) | [G]§ 115.142(1)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(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) |
|---------------------------|-------------------------|---------------|----------------|---|--|--|--|--|---|
| | | | | | § 60.18(b) | | § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148 | | |
| 18F-2667 | EU | 63G-T1 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.133(a)(1) | A fixed roof shall be operated and maintained except that if the wastewater tank is used for specified purpose, then owner or operator shall comply with requirements of § 63.133(a)(2). | None | None | § 63.146(b)(2) § 63.146(b)(5) [G]§ 63.151(a)(6) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(c)(1) § 63.152(c)(4)(ii) |
| 18F-2668 | EU | 18F-2668-P | VOC | 30 TAC Chapter 115, Industrial Wastewater | § 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148 § 60.18(b) | The wastewater component shall meet the specified control requirements. | [G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(E) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148 | [G]§ 115.142(1)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4) | None |
| 18F-2668 | EU | 63G-T1 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.133(a)(1) | A fixed roof shall be operated and maintained except that if the wastewater tank is used for | None | None | § 63.146(b)(2) § 63.146(b)(5) [G]§ 63.151(a)(6) [G]§ 63.151(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) |
|---------------------------|-------------------------|---------------|-------------|---|--|--|--|--|---|
| | | | | | | specified purpose, then owner or operator shall comply with requirements of § 63.133(a)(2). | | | § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(c)(1) § 63.152(c)(4)(ii) |
| 18F-2669 | EU | 18F-2669-P | VOC | 30 TAC Chapter 115, Industrial Wastewater | § 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148 § 60.18(b) | The wastewater component shall meet the specified control requirements. | [G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(E) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148 | [G]§ 115.142(1)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4) | None |
| 18F-2669 | EU | 63G-T1 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.133(a)(1) | A fixed roof shall be operated and maintained except that if the wastewater tank is used for specified purpose, then owner or operator shall comply with requirements of § 63.133(a)(2). | None | None | § 63.146(b)(2) § 63.146(b)(5) [G]§ 63.151(a)(6) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(c)(1) § 63.152(c)(4)(ii) |
| 18F-2670 | EU | 18F-2670- | VOC | 30 TAC Chapter | § 115.142(1) | The wastewater component | [G]§ 115.142(1)(H) | [G]§ 115.142(1)(H) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---|--|--|--|--|---|
| | | P | | 115, Industrial Wastewater | § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148 § 60.18(b) | shall meet the specified control requirements. | [G]§ 115.144(1) § 115.144(3)(E) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148 | § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4) | |
| 18F-2670 | EU | 63G-T1 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.133(a)(1) | A fixed roof shall be operated and maintained except that if the wastewater tank is used for specified purpose, then owner or operator shall comply with requirements of § 63.133(a)(2). | None | None | § 63.146(b)(2) § 63.146(b)(5) [G]§ 63.151(a)(6) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(c)(1) § 63.152(c)(4)(ii) |
| 18F-2671 | EU | 18F-2671-P | VOC | 30 TAC Chapter 115, Industrial Wastewater | § 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148 § 60.18(b) | The wastewater component shall meet the specified control requirements. | [G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(E) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) | [G]§ 115.142(1)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(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) |
|---------------------------|-------------------------|---------------|----------------|---|--|--|--|--|---|
| | | | | | | | § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148 | | |
| 18F-2671 | EU | 63G-T1 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.133(a)(1) | A fixed roof shall be operated and maintained except that if the wastewater tank is used for specified purpose, then owner or operator shall comply with requirements of § 63.133(a)(2). | None | None | § 63.146(b)(2) § 63.146(b)(5) [G]§ 63.151(a)(6) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(c)(1) § 63.152(c)(4)(ii) |
| 18F-2672 | EU | 18F-2672-P | VOC | 30 TAC Chapter 115, Industrial Wastewater | § 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148 § 60.18(b) | The wastewater component shall meet the specified control requirements. | [G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(E) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148 | [G]§ 115.142(1)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4) | None |
| 18F-2672 | EU | 63G-T1 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.133(a)(1) | A fixed roof shall be operated and maintained except that if the wastewater tank is used for specified purpose, then owner or operator shall | None | None | § 63.146(b)(2) § 63.146(b)(5) [G]§ 63.151(a)(6) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(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) |
|---------------------------|-------------------------|---------------|--------------------------|---------------------------------------|---|---|-------------------------------------|---|--|
| | | | | | | comply with requirements of § 63.133(a)(2). | | | § 63.151(e)(2) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(c)(1) § 63.152(c)(4)(ii) |
| 19G-3789 | EU | R7303 | 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. §117.303(a)(11)(A)-(B) | None | § 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |
| 19G-3789 | EU | 60III-01 | NMHC and NO _x | 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) | 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 an NMHC+NO _x emission limit | § 60.4209(a) | § 60.4214(b) | [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) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|---|--|--|
| | | | | | | of 4.0 g/KW-hr, as listed in Table 4 to this subpart. | | | |
| 19G-3789 | EU | 60III-01 | 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) | 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. | § 60.4209(a) | § 60.4214(b) | [G]§ 60.4214(d) |
| 19G-3789 | EU | 63ZZZZ | 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 |
| 1B-2501 | EU | 1B-2501-P | 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) | § 117.345(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 |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual 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(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary | | [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) |
| 1B-2501 | EU | 1B-2501-P | 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) |
| 1B-2501 | EU | 63DDDDD-03 | 112(B) HAPS | 40 CFR Part 63, Subpart DDDDD | § 63.7500(a)(1)-Table 3.3 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) | A new or existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater must | § 63.7510(g) § 63.7515(d) [G]§ 63.7521(f) [G]§ 63.7521(g) § 63.7521(h) § 63.7521(i) | § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(g) § 63.7555(h) § 63.7560(a) | [G]§ 63.7521(g) § 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|--|--|--|
| | | | | | § 63.7540(a)(1) [G]§ 63.7540(a)(10) § 63.7540(a)(13) | conduct a tune-up of the boiler or process heater annually as specified in § 63.7540. Units in either the Gas 1 or Metal Process Furnace subcategories will conduct this tune-up as a work practice for all regulated emissions. | § 63.7530(g) § 63.7540(a) [G]§ 63.7540(a)(10) [G]§ 63.7540(c) | § 63.7560(b) § 63.7560(c) | [G]§ 63.7545(e) [G]§ 63.7545(f) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h) |
| 1B-2502 | EU | 1B-2502-P | 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)(2)(B) § 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) | § 117.345(a) § 117.345(f) [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) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|--|---|---|---|---|
| | | | | | | | [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A) | | |
| 1B-2502 | EU | 1B-2502-P | 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)(2)(B) § 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) | § 117.345(a) § 117.345(f) [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)(E) § 117.8100(a)(6) | | |
| 1B-505 | EU | 1B-505-P | 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)(2)(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 | § 117.345(a) § 117.345(f) [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) | | |
| 1B-505 | EU | 1B-505-P | NH ₃ | 30 TAC Chapter 117, Subchapter B | § 117.310(c)(2) § 117.310(c)(2)(B) § 117.340(f)(1) | 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(c) § 117.335(d) § 117.335(g) § 117.340(b)(1) § 117.340(b)(3) § 117.340(d) [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)(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) § 117.8130 § 117.8130(4) | § 117.345(a) § 117.345(f) § 117.345(f)(11) [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)(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) |
| 1B-505 | EU | 1B-505-P | 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) | An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the | [G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) | § 117.345(a) § 117.345(f) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) | § 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual 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(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3) | 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. | § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a)(2)(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) | § 117.8100(a)(5)(C) | § 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) |
| 1B-505 | EU | 1B-505-P | NO _x | 40 CFR Part 60, Subpart Db | § 60.44b(l)(1) § 60.44b(h) § 60.44b(i) § 60.46b(a) | On or after the §60.8 performance test is completed, no facility that commenced construction after 07/09/1997 shall discharge NO _x in excess 86 | § 60.46b(c) § 60.46b(f) § 60.46b(f)(2) [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) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|--------------|---------------------------------------|---|---|---|---|---|
| | | | | | | ng/J (0.20 lb/MMBtu) heat input if the facility combusts coal, oil, natural gas or a combination involving these fuels unless the facility is subject to and in compliance with a federally enforceable requirement that limits operation an annual capacity factor of 10 percent or less for coal, oil, and natural gas (or any combination of the three). | § 60.48b(e) [G]§ 60.48b(e)(2) § 60.48b(e)(3) § 60.48b(f) | | |
| 1B-505 | EU | 1B-505-P | PM | 40 CFR Part 60, Subpart Db | § 60.40b(a) | The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)). | None | [G]§ 60.49b(d) § 60.49b(o) | § 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) |
| 1B-505 | EU | 1B-505-P | PM (Opacity) | 40 CFR Part 60, Subpart Db | § 60.40b(a) | The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts | 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) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|--|--|--|---|
| | | | | | | (MW) (100 million British thermal units per hour (MMBtu/hr)). | | | |
| 1B-505 | EU | 1B-505-P | SO ₂ | 40 CFR Part 60, Subpart Db | § 60.42b(k)(2) | On and after the §60.8 performance test is completed, units constructed, reconstructed, or modified after February 28, 2005, firing only very low sulfur oil, gaseous fuel, a mixture of these fuels, or a mixture of these fuels with any other fuels with a potential SO ₂ emission rate of 140 ng/J (0.32 lb/MMBtu) heat input or less are exempt from the SO ₂ emissions limit in §60.42b(k)(1). | § 60.47b(f) | § 60.45b(k) § 60.49b(o) § 60.49b(r) § 60.49b(r)(1) | § 60.49b(a) § 60.49b(a)(1) § 60.49b(r) § 60.49b(r)(1) |
| 1B-506 | EU | 1B-506-P | 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)(2)(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) | § 117.345(a) § 117.345(f) [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) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual 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)(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) | | [G]§ 117.8010(8) § 117.8100(c) |
| 1B-506 | EU | 1B-506-P | NH ₃ | 30 TAC Chapter 117, Subchapter B | § 117.310(c)(2) § 117.310(c)(2)(B) § 117.340(f)(1) | 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(c) § 117.335(d) § 117.335(g) § 117.340(b)(1) § 117.340(b)(3) § 117.340(d) [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)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) | § 117.345(a) § 117.345(f) § 117.345(f)(11) [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)(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) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual 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)(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) § 117.8130 § 117.8130(4) | | § 117.8100(c) |
| 1B-506 | EU | 1B-506-P | 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)(2) § 117.335(g) § 117.340(a)(2)(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) | § 117.345(a) § 117.345(f) [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)(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) | | |
| 1B-506 | EU | 1B-506-P | NO _x | 40 CFR Part 60, Subpart Db | § 60.44b(l)(1) § 60.44b(h) § 60.44b(i) § 60.46b(a) | On or after the §60.8 performance test is completed, no facility that commenced construction after 07/09/1997 shall discharge NO _x in excess 86 ng/J (0.20 lb/MMBtu) heat input if the facility combusts coal, oil, natural gas or a combination involving these fuels unless the facility is subject to and in compliance with a federally enforceable requirement that limits operation an annual capacity factor of 10 percent or less for coal, oil, and natural gas (or any combination of the three). | § 60.46b(c) § 60.46b(f) § 60.46b(f)(2) [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) |
| 1B-506 | EU | 1B-506-P | PM | 40 CFR Part 60, Subpart Db | § 60.40b(a) | The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the | 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) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|--|--|---|--|
| | | | | | | steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)). | | | |
| 1B-506 | EU | 1B-506-P | PM (Opacity) | 40 CFR Part 60, Subpart Db | § 60.40b(a) | The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)). | None | [G]§ 60.49b(d) § 60.49b(o) | § 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) |
| 1B-506 | EU | 1B-506-P | SO ₂ | 40 CFR Part 60, Subpart Db | § 60.42b(k)(2) | On and after the §60.8 performance test is completed, units constructed, reconstructed, or modified after February 28, 2005, firing only very low sulfur oil, gaseous fuel, a mixture of these fuels, or a mixture of these fuels with any other fuels with a potential SO ₂ emission rate of 140 ng/J (0.32 lb/MMBtu) heat input or less are exempt from the SO ₂ emissions limit in §60.42b(k)(1). | § 60.47b(f) | § 60.45b(k) § 60.49b(o) § 60.49b(r) § 60.49b(r)(1) | § 60.49b(a) § 60.49b(a)(1) § 60.49b(r) § 60.49b(r)(1) |
| 1B505 EXH | EP | 115-111-02BLR | Opacity | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(C) § 111.111(a)(1)(E) | Visible emissions from any stationary vent shall not exceed an opacity of 15% | [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 with a total flow rate of at least 100,000 acfm unless a CEMS is installed. | Monitoring Summary | | |
| 1B506 EXH | EP | 115-111-02BLR | Opacity | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(C) § 111.111(a)(1)(E) | Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed. | [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary | None | None |
| 1D-503 | EP | 60NNN-BLR | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.662(a) | Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater. | § 60.663(c) § 60.663(c)(1) § 60.663(d) § 60.664(c) | § 60.663(c)(1) § 60.663(d) § 60.665(b) § 60.665(b)(2) § 60.665(b)(2)(i) § 60.665(c) § 60.665(c)(4) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.665(l)(2) § 60.665(l)(3) | § 60.665(a) § 60.665(b) § 60.665(b)(2) § 60.665(b)(2)(i) § 60.665(c) § 60.665(c)(4) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.665(l)(2) § 60.665(l)(3) |
| 1D-504 | EP | 60NNN-BLR | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.662(a) | Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater. | § 60.663(c) § 60.663(c)(1) § 60.663(d) § 60.664(c) | § 60.663(c)(1) § 60.663(d) § 60.665(b) § 60.665(b)(2) § 60.665(b)(2)(i) § 60.665(c) § 60.665(c)(4) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.665(l)(2) § 60.665(l)(3) | § 60.665(a) § 60.665(b) § 60.665(b)(2) § 60.665(b)(2)(i) § 60.665(c) § 60.665(c)(4) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.665(l)(2) § 60.665(l)(3) |
| 1D-505 | EP | 60NNN-BLR | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.662(a) | Affected facilities shall reduce TOC emissions by | § 60.663(c) § 60.663(c)(1) | § 60.663(c)(1) § 60.663(d) | § 60.665(a) § 60.665(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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|--|--|--|
| | | | | | | 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater. | § 60.663(d) § 60.664(c) | § 60.665(b) § 60.665(b)(2) § 60.665(b)(2)(i) § 60.665(c) § 60.665(c)(4) § 60.665(c)(4) § 60.665(d) § 60.665(e) | § 60.665(b)(2) § 60.665(b)(2)(i) § 60.665(c) § 60.665(c)(4) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.665(l)(2) § 60.665(l)(3) |
| 1D-506 | EP | 60NNN-BLR | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.662(a) | Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater. | § 60.663(c) § 60.663(c)(1) § 60.663(d) § 60.664(c) | § 60.663(c)(1) § 60.663(d) § 60.665(b) § 60.665(b)(2) § 60.665(b)(2)(i) § 60.665(c) § 60.665(c)(4) § 60.665(c)(4) § 60.665(d) § 60.665(e) | § 60.665(a) § 60.665(b) § 60.665(b)(2) § 60.665(b)(2)(i) § 60.665(c) § 60.665(c)(4) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.665(l)(2) § 60.665(l)(3) |
| 1D-507 | EP | 60NNN-BLR | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.662(a) | Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater. | § 60.663(c) § 60.663(c)(1) § 60.663(d) § 60.664(c) | § 60.663(c)(1) § 60.663(d) § 60.665(b) § 60.665(b)(2) § 60.665(b)(2)(i) § 60.665(c) § 60.665(c)(4) § 60.665(c)(4) § 60.665(d) § 60.665(e) | § 60.665(a) § 60.665(b) § 60.665(b)(2) § 60.665(b)(2)(i) § 60.665(c) § 60.665(c)(4) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.665(l)(2) § 60.665(l)(3) |
| 1F-501 | EP | 60RRR | VOC/TOC | 40 CFR Part 60, Subpart RRR | § 60.702(a) [G]§ 60.704(b)(5) | For each vent stream, reduce TOC by 98%w or to a TOC concentration of 20 ppmv, on a dry basis corrected to 3% oxygen, whichever is less stringent. If a boiler or process heater | § 60.703(c) § 60.704(a) § 60.704(b) § 60.704(b)(1) § 60.704(b)(2) § 60.704(b)(3) [G]§ 60.704(b)(4) | § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(s) | § 60.705(a) § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(k) § 60.705(l) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|--|--|---|
| | | | | | | is used, introduce vent stream as specified. | | | § 60.705(l)(1) § 60.705(s) |
| 1F-502 | EP | 60RRR | VOC/TOC | 40 CFR Part 60, Subpart RRR | § 60.702(a) [G]§ 60.704(b)(5) | For each vent stream, reduce TOC by 98%w or to a TOC concentration of 20 ppmv, on a dry basis corrected to 3% oxygen, whichever is less stringent. If a boiler or process heater is used, introduce vent stream as specified. | § 60.703(c) § 60.704(a) § 60.704(b) § 60.704(b)(1) § 60.704(b)(2) § 60.704(b)(3) [G]§ 60.704(b)(4) | § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(s) | § 60.705(a) § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(k) § 60.705(l) § 60.705(l)(1) § 60.705(s) |
| 1F-503 | EP | 60RRR | VOC/TOC | 40 CFR Part 60, Subpart RRR | § 60.702(a) [G]§ 60.704(b)(5) | For each vent stream, reduce TOC by 98%w or to a TOC concentration of 20 ppmv, on a dry basis corrected to 3% oxygen, whichever is less stringent. If a boiler or process heater is used, introduce vent stream as specified. | § 60.703(c) § 60.704(a) § 60.704(b) § 60.704(b)(1) § 60.704(b)(2) § 60.704(b)(3) [G]§ 60.704(b)(4) | § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(s) | § 60.705(a) § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(k) § 60.705(l) § 60.705(l)(1) § 60.705(s) |
| 1F-504 | EP | 60RRR | VOC/TOC | 40 CFR Part 60, Subpart RRR | § 60.702(a) [G]§ 60.704(b)(5) | For each vent stream, reduce TOC by 98%w or to a TOC concentration of 20 ppmv, on a dry basis corrected to 3% oxygen, whichever is less stringent. If a boiler or process heater is used, introduce vent stream as specified. | § 60.703(c) § 60.704(a) § 60.704(b) § 60.704(b)(1) § 60.704(b)(2) § 60.704(b)(3) [G]§ 60.704(b)(4) | § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(s) | § 60.705(a) § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(k) § 60.705(l) § 60.705(l)(1) § 60.705(s) |
| 1F-505 | EP | 60RRR | VOC/TOC | 40 CFR Part 60, Subpart RRR | § 60.702(a) [G]§ 60.704(b)(5) | For each vent stream, reduce TOC by 98%w or to a TOC concentration of 20 ppmv, on a dry basis corrected to 3% oxygen, whichever is less stringent. If a boiler or process heater is used, introduce vent | § 60.703(c) § 60.704(a) § 60.704(b) § 60.704(b)(1) § 60.704(b)(2) § 60.704(b)(3) [G]§ 60.704(b)(4) | § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(s) | § 60.705(a) § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(k) § 60.705(l) § 60.705(l)(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) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|--|---|--|--|---|
| | | | | | | stream as specified. | | | § 60.705(s) |
| 1F-506 | EP | 60RRR | VOC/TOC | 40 CFR Part 60, Subpart RRR | § 60.702(a) [G]§ 60.704(b)(5) | For each vent stream, reduce TOC by 98%w or to a TOC concentration of 20 ppmv, on a dry basis corrected to 3% oxygen, whichever is less stringent. If a boiler or process heater is used, introduce vent stream as specified. | § 60.703(c) § 60.704(a) § 60.704(b) § 60.704(b)(1) § 60.704(b)(2) § 60.704(b)(3) [G]§ 60.704(b)(4) | § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(s) | § 60.705(a) § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(k) § 60.705(l) § 60.705(l)(1) § 60.705(s) |
| 1F-507 | EP | 60RRR | VOC/TOC | 40 CFR Part 60, Subpart RRR | § 60.702(a) [G]§ 60.704(b)(5) | For each vent stream, reduce TOC by 98%w or to a TOC concentration of 20 ppmv, on a dry basis corrected to 3% oxygen, whichever is less stringent. If a boiler or process heater is used, introduce vent stream as specified. | § 60.703(c) § 60.704(a) § 60.704(b) § 60.704(b)(1) § 60.704(b)(2) § 60.704(b)(3) [G]§ 60.704(b)(4) | § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(s) | § 60.705(a) § 60.705(b) § 60.705(b)(2)(i) § 60.705(c) § 60.705(c)(4) § 60.705(k) § 60.705(l) § 60.705(l)(1) § 60.705(s) |
| 1F-511 | 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 |
| 1G-2520T | EU | 60KKKK-1 | NO _x | 40 CFR Part 60, Subpart KKKK | § 60.4320(a)-Table 1 § 60.4320(a) § 60.4320(b) § 60.4325 § 60.4333(a) § 60.4335(b)(1) [G]§ 60.4345 | Modified or reconstructed turbine firing natural gas with a heat input at peak load of greater than 50 MMBtu/h and less than or equal to 850 MMBtu/h must meet the nitrogen oxides emission standard of 42 ppm at 15 percent O ₂ . | § 60.4335(b)(1) [G]§ 60.4345 § 60.4350(a) § 60.4350(b) § 60.4350(c) § 60.4350(d) § 60.4350(e) § 60.4350(f) § 60.4350(g) [G]§ 60.4400(a) § 60.4400(b) | [G]§ 60.4345 § 60.4350(b) | [G]§ 60.4345 § 60.4350(d) § 60.4375(a) § 60.4380 [G]§ 60.4380(b) § 60.4395 |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|--|---|---|--|
| | | | | | | | § 60.4400(b)(1) § 60.4400(b)(4) § 60.4400(b)(5) § 60.4400(b)(6) [G]§ 60.4405 | | |
| 1G-2520T | EU | 60KKKK-1 | SO ₂ | 40 CFR Part 60, Subpart KKKK | § 60.4330(a)(2) § 60.4333(a) | You must not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 26 ng SO ₂ /J (0.060 lb SO ₂ /MMBtu) heat input. If your turbine simultaneously fires multiple fuels, each fuel must meet this requirement. | § 60.4365 § 60.4365(b) § 60.4415(a) § 60.4415(a)(2) § 60.4415(a)(2)(ii) | § 60.4365(b) | § 60.4375(a) |
| 1G-901T | EU | 1G-901T-P | CO | 30 TAC Chapter 117, Subchapter B | § 117.310(c)(1) § 117.310(c)(1)(A) § 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(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) | § 117.345(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)(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) | | |
| 1G-901T | EU | 1G-901T-P | NH ₃ | 30 TAC Chapter 117, Subchapter B | § 117.310(c)(2) § 117.310(c)(2)(B) § 117.340(f)(1) | For stationary gas turbines that inject urea or ammonia into the exhaust stream for NO _x control, ammonia emissions must not exceed 10 ppmv at 15% O ₂ , dry. | § 117.335(a)(2) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(g) § 117.340(d) [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)(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]§ | § 117.345(a) § 117.345(f) § 117.345(f)(11) [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)(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)(5)(E) § 117.8100(a)(6) § 117.8130 § 117.8130(4) | | |
| 1G-901T | EU | 1G-901T-P | NO _x | 30 TAC Chapter 117, Subchapter B | § 117.310(d)(3) § 117.310(a) § 117.310(a)(10)(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(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) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) | § 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C) | § 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|--|--|---|---|
| 1G-901T | EU | 60KKKK-2 | NO _x | 40 CFR Part 60, Subpart KKKK | § 60.4320(a)-Table 1 § 60.4320(a) § 60.4320(b) § 60.4325 § 60.4333(a) § 60.4333(b)(1) § 60.4335(b)(1) [G]§ 60.4345 | Modified or reconstructed turbine firing natural gas with a heat input at peak load of greater than 50 MMBtu/h and less than or equal to 850 MMBtu/h must meet the nitrogen oxides emission standard of 42 ppm at 15 percent O ₂ . | § 60.4333(b)(1) § 60.4335(b)(1) [G]§ 60.4345 § 60.4350(a) § 60.4350(b) § 60.4350(c) § 60.4350(d) § 60.4350(e) § 60.4350(f) § 60.4350(h) [G]§ 60.4400(a) § 60.4400(b) § 60.4400(b)(1) § 60.4400(b)(2) § 60.4400(b)(4) § 60.4400(b)(5) § 60.4400(b)(6) [G]§ 60.4405 | [G]§ 60.4345 § 60.4350(b) | [G]§ 60.4345 § 60.4350(d) § 60.4375(a) § 60.4380 [G]§ 60.4380(b) § 60.4395 |
| 1G-901T | EU | 60KKKK-2 | SO ₂ | 40 CFR Part 60, Subpart KKKK | § 60.4330(a)(2) § 60.4333(a) | You must not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 26 ng SO ₂ /J (0.060 lb SO ₂ /MMBtu) heat input. If your turbine simultaneously fires multiple fuels, each fuel must meet this requirement. | § 60.4365 § 60.4365(b) § 60.4415(a) § 60.4415(a)(2) § 60.4415(a)(2)(ii) | § 60.4365(b) | § 60.4375(a) |
| 20DG-16 | EU | 20DG-16-P | 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 | § 117.8140(a) § 117.8140(a)(3) | § 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|---|---|--|---|
| | | | | | | 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. | | | |
| 20DG-16 | EU | 63ZZZZ | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6602-Table 2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f) § 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(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii | § 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c) | § 63.6640(e) § 63.6650(f) |
| 21G-2216 | EU | R117-01 | 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 | § 117.8140(a) § 117.8140(a)(3) | § 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|----------------|---|--|--|--|---|---|
| | | | | | | on a rolling 12-month average. | | | |
| 21G-2216 | EU | 63ZZZZ | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6602-Table 2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f) § 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(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii | § 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c) | § 63.6640(e) § 63.6650(f) |
| 2D-68 | EU | 2D-68-P | VOC | 30 TAC Chapter 115, Industrial Wastewater | § 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148 | The wastewater component shall meet the specified control requirements. | [G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(F) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148 | [G]§ 115.142(1)(H) § 115.144(3)(F) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4) | None |
| 2D-68 | PRO | 2D-68-P | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.138(e)(1) [G]§ 63.132(f) [G]§ 63.138(k) § 63.139(b) § 63.139(d)(4)(i) § 63.139(f) § 63.140(a) § 63.140(b) | The mass flow rate of Group1 wastewater stream that are Table 9 and/or Table 8 compounds shall be reduced by 99 percent or more and process efficiency shall be as per §63.145(c) or §63.145(d). | § 63.138(j)(1) § 63.143(d) § 63.143(g) § 63.144(b) § 63.144(b)(1) § 63.144(b)(2) § 63.144(b)(3) § 63.144(b)(4) | § 63.138(j)(1) § 63.144(b)(3) § 63.144(b)(4) § 63.144(b)(5)(ii) § 63.144(c)(1) § 63.144(c)(2) § 63.144(c)(3) § 63.147(b) | § 63.143(d) § 63.146(a) § 63.146(b)(2) § 63.146(b)(4) § 63.146(b)(5) § 63.146(b)(6) [G]§ 63.146(b)(8) § 63.146(b)(9) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|---|--|--|--|--|
| | | | | | § 63.140(c) § 63.144(a) [G]§ 63.148(d) § 63.148(e) | | § 63.144(b)(5) [G]§ 63.144(b)(5)(i) § 63.144(b)(5)(ii) [G]§ 63.144(b)(5)(iii) § 63.144(b)(5)(iv) § 63.144(b)(6) § 63.144(c) § 63.144(c)(1) § 63.144(c)(2) § 63.144(c)(3) § 63.144(c)(4) § 63.145(a)(1) § 63.148(b)(1)(ii) § 63.148(b)(2)(iii) § 63.148(b)(3) [G]§ 63.148(c) § 63.148(g) § 63.148(g)(2) § 63.148(h) § 63.148(h)(2) | § 63.147(b)(2) § 63.147(b)(7) § 63.147(e) § 63.148(g)(2) § 63.148(h)(2) § 63.148(i)(1) § 63.148(i)(2) [G]§ 63.148(i)(4) § 63.148(i)(5) § 63.148(i)(6) [G]§ 63.152(a) [G]§ 63.152(f) | § 63.146(b)(9)(i) [G]§ 63.146(d) § 63.146(f) § 63.148(j) § 63.148(j)(1) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) § 63.151(e)(5) § 63.151(f) § 63.151(f)(1) § 63.151(f)(2) § 63.151(f)(3) § 63.151(h) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(3)(ii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6) |
| 2D-68 | PRO | 2D-68-P2 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.138(e)(1) § 63.11 [G]§ 63.132(f) [G]§ 63.138(k) § 63.139(b) § 63.139(c)(3) § 63.139(f) § 63.140(a) § 63.140(b) § 63.140(c) § 63.144(a) | The mass flow rate of Group1 wastewater stream that are Table 9 and/or Table 8 compounds shall be reduced by 99 percent or more and process efficiency shall be as per §63.145(c) or §63.145(d). | § 63.138(j)(1) § 63.139(d)(3) § 63.139(e) § 63.143(d) § 63.143(e) § 63.143(e)(1) § 63.143(f) § 63.143(g) § 63.144(b) § 63.144(b)(1) § 63.144(b)(2) | § 63.138(j)(1) § 63.143(f) § 63.144(b)(3) § 63.144(b)(4) § 63.144(b)(5)(ii) § 63.144(c)(1) § 63.144(c)(2) § 63.144(c)(3) § 63.145(a)(3) [G]§ 63.145(a)(4) § 63.147(b) | § 63.143(d) § 63.146(a) § 63.146(b)(2) § 63.146(b)(4) § 63.146(b)(5) § 63.146(b)(6) § 63.146(b)(7) [G]§ 63.146(b)(7)(i) [G]§ 63.146(b)(8) § 63.146(b)(9) § 63.146(b)(9)(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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|---|--|
| | | | | | [G]§ 63.145(j) [G]§ 63.148(d) § 63.148(e) | | § 63.144(b)(3) § 63.144(b)(4) § 63.144(b)(5) [G]§ 63.144(b)(5)(i) § 63.144(b)(5)(ii) [G]§ 63.144(b)(5)(iii) § 63.144(b)(5)(iv) § 63.144(b)(6) § 63.144(c) § 63.144(c)(1) § 63.144(c)(2) § 63.144(c)(3) § 63.144(c)(4) § 63.145(a)(1) § 63.145(a)(3) [G]§ 63.145(a)(4) [G]§ 63.145(j) § 63.148(b)(1)(ii) § 63.148(b)(2)(iii) § 63.148(b)(3) [G]§ 63.148(c) § 63.148(g) § 63.148(g)(2) § 63.148(h) § 63.148(h)(2) | § 63.147(b)(2) § 63.147(b)(5) § 63.147(b)(7) § 63.147(d) § 63.147(d)(1) § 63.147(e) § 63.148(g)(2) § 63.148(h)(2) § 63.148(i)(1) § 63.148(i)(2) [G]§ 63.148(i)(4) § 63.148(i)(5) § 63.148(i)(6) [G]§ 63.152(a) [G]§ 63.152(f) | [G]§ 63.146(d) § 63.146(e) § 63.146(e)(1) § 63.146(f) § 63.148(j) § 63.148(j)(1) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) § 63.151(e)(5) § 63.151(f) § 63.151(f)(1) § 63.151(f)(2) § 63.151(f)(3) § 63.151(h) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(3)(ii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6) |
| 2F-26 | 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 |
| 31F-2030 | 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) | |
| 31G-2350 | EU | 31G-2350-P | CO | 30 TAC Chapter 117, Subchapter B | § 117.310(c)(1) § 117.310(c)(1)(B) | 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)(2)(C) § 117.340(h) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b) | § 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) § 117.345(f)(3) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.345(f)(9) | § 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) |
| 31G-2350 | EU | 31G-2350-P | NO _x | 30 TAC Chapter 117, Subchapter B | § 117.310(d)(3) § 117.310(a) § 117.310(a)(9)(E)(vii)(II) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) [G]§ 117.310(f) | 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 | [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) | § 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) § 117.345(f)(3) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.345(f)(3)(B) § 117.345(f)(9) | § 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual 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(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3) | 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) § 117.8140(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)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) |
| 31G-2350 | EU | 63ZZZZ | 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 |
| 3DG-14 | EU | R117-01 | 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), | § 117.8140(a) § 117.8140(a)(3) | § 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|--|---|--|---|
| | | | | | | 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. | | | |
| 3DG-14 | EU | 63ZZZZ | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6602-Table 2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f) § 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(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii | § 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c) | § 63.6640(e) § 63.6650(f) |
| 4D-1 | EP | 4D-1-A2 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(A) § 60.18 | Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices). | [G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7) | § 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---|--|---|--|--|---|
| 4D-1508 | EP | 60NNN | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.660(c)(4) § 60.662(c) | Each affected facility with a total resource effectiveness (TRE) index value > 8.0 is exempt from this subpart except for § 60.662; § 60.664(d), (e), (f); and § 60.665(h) and (l). | [G]§ 60.664(e) § 60.664(f) [G]§ 60.664(f)(1) § 60.664(f)(2) § 60.664(g) § 60.664(g)(1) § 60.664(g)(2) | [G]§ 60.665(h) § 60.665(p) | § 60.664(g)(1) § 60.665(l) § 60.665(l)(7) § 60.665(p) |
| 4D-1510 | EU | 4D-1510-P | VOC | 30 TAC Chapter 115, Industrial Wastewater | § 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148 | The wastewater component shall meet the specified control requirements. | [G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(F) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148 | [G]§ 115.142(1)(H) § 115.144(3)(F) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4) | None |
| 4D-1510 | PRO | 4D-1510-P | 112(B) HAPS | 40 CFR Part 63, Subpart G | [G]§ 63.138(d) [G]§ 63.132(f) [G]§ 63.138(k) § 63.139(b) § 63.139(d)(4)(i) § 63.139(f) § 63.140(a) § 63.140(b) § 63.140(c) § 63.144(a) [G]§ 63.148(d) § 63.148(e) | The steam stripper shall be operated and maintained and it shall conform as specified. §63.138(d)(1)-(6) | § 63.143(b) § 63.143(g) § 63.144(b) § 63.144(b)(1) § 63.144(b)(2) § 63.144(b)(3) § 63.144(b)(4) § 63.144(b)(5) [G]§ 63.144(b)(5)(i) § 63.144(b)(5)(ii) [G]§ 63.144(b)(5)(iii) § 63.144(b)(5)(iv) § 63.144(b)(6) § 63.144(c) § 63.144(c)(1) § 63.144(c)(2) | § 63.144(b)(3) § 63.144(b)(4) § 63.144(b)(5)(ii) § 63.144(c)(1) § 63.144(c)(2) § 63.144(c)(3) § 63.147(b) § 63.147(b)(2) § 63.147(b)(4) § 63.147(b)(7) § 63.148(g)(2) § 63.148(h)(2) § 63.148(i)(1) § 63.148(i)(2) [G]§ 63.148(i)(4) § 63.148(i)(5) | § 63.146(b)(2) § 63.146(b)(4) § 63.146(b)(5) § 63.146(b)(6) [G]§ 63.146(b)(8) [G]§ 63.146(d) § 63.148(j) § 63.148(j)(1) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) § 63.151(e)(5) § 63.151(f) § 63.151(f)(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) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|--|---|--|---|
| | | | | | | | § 63.144(c)(3) § 63.144(c)(4) § 63.145(a)(1) § 63.145(a)(5) § 63.148(b)(1)(iii) § 63.148(b)(2)(iii) § 63.148(b)(3) [G]§ 63.148(c) § 63.148(g) § 63.148(g)(2) § 63.148(h) § 63.148(h)(2) | § 63.148(i)(6) [G]§ 63.152(a) [G]§ 63.152(f) | § 63.151(f)(2) § 63.151(f)(3) § 63.151(h) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(2)(iv) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(3)(ii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6) |
| 4D-1510 | EU | 4D-1510-P2 | 112(B) HAPS | 40 CFR Part 63, Subpart G | [G]§ 63.138(d) § 63.11 [G]§ 63.132(f) [G]§ 63.138(k) § 63.139(b) § 63.139(c)(3) § 63.139(f) § 63.140(a) § 63.140(b) § 63.140(c) § 63.144(a) [G]§ 63.145(j) [G]§ 63.148(d) § 63.148(e) | The steam stripper shall be operated and maintained and it shall conform as specified. §63.138(d)(1)-(6) | § 63.139(d)(3) § 63.139(e) § 63.143(b) § 63.143(e) § 63.143(e)(1) § 63.143(f) § 63.143(g) § 63.144(b) § 63.144(b)(1) § 63.144(b)(2) § 63.144(b)(3) § 63.144(b)(4) § 63.144(b)(5) [G]§ 63.144(b)(5)(i) § 63.144(b)(5)(ii) [G]§ 63.144(b)(5)(iii) § 63.144(b)(5)(iv) § 63.144(b)(6) § 63.144(c) | § 63.143(f) § 63.144(b)(3) § 63.144(b)(4) § 63.144(b)(5)(ii) § 63.144(c)(1) § 63.144(c)(2) § 63.144(c)(3) § 63.145(a)(3) [G]§ 63.145(a)(4) § 63.147(b) § 63.147(b)(2) § 63.147(b)(4) § 63.147(b)(5) § 63.147(b)(7) § 63.147(d) § 63.147(d)(1) § 63.148(g)(2) § 63.148(h)(2) § 63.148(i)(1) | § 63.146(b)(2) § 63.146(b)(4) § 63.146(b)(5) § 63.146(b)(6) § 63.146(b)(7) [G]§ 63.146(b)(7)(i) [G]§ 63.146(b)(8) [G]§ 63.146(d) § 63.146(e) § 63.146(e)(1) § 63.146(f) § 63.148(j) § 63.148(j)(1) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) [G]§ 63.151(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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|--|---|--|
| | | | | | | | § 63.144(c)(1) § 63.144(c)(2) § 63.144(c)(3) § 63.144(c)(4) § 63.145(a)(1) § 63.145(a)(3) [G]§ 63.145(a)(4) § 63.145(a)(5) [G]§ 63.145(j) § 63.148(b)(1)(ii) § 63.148(b)(2)(iii) § 63.148(b)(3) [G]§ 63.148(c) § 63.148(g) § 63.148(g)(2) § 63.148(h) § 63.148(h)(2) | § 63.148(i)(2) [G]§ 63.148(i)(4) § 63.148(i)(5) § 63.148(i)(6) [G]§ 63.152(a) [G]§ 63.152(f) | [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(2)(iv) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(3)(ii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6) |
| 4F-14 | 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 |
| 4F-4473 | 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 |
| 5F-3 | 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 |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|--|---|--|
| 7D-806 | EP | 60NNN | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.660(c)(4) § 60.662(c) | Each affected facility with a total resource effectiveness (TRE) index value > 8.0 is exempt from this subpart except for § 60.662; § 60.664(d), (e), (f); and § 60.665(h) and (l). | [G]§ 60.664(e) § 60.664(f) [G]§ 60.664(f)(1) § 60.664(f)(2) § 60.664(g) § 60.664(g)(1) § 60.664(g)(2) | [G]§ 60.665(h) § 60.665(p) | § 60.664(g)(1) § 60.665(l) § 60.665(l)(7) § 60.665(p) |
| BLR-9 | EU | BLR-9-CEMS | 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) | § 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) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|--|---|---|--|
| | | | | | | | [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A) | | |
| BLR-9 | EU | BLR-9-CEMS | NH ₃ | 30 TAC Chapter 117, Subchapter B | § 117.310(c)(2) § 117.310(c)(2)(B) § 117.340(f)(1) | 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(c) § 117.335(d) § 117.335(g) § 117.340(b)(1) § 117.340(b)(3) § 117.340(d) [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)(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) § 117.8130 § 117.8130(4) | § 117.345(a) § 117.345(f) § 117.345(f)(11) [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)(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) |
| BLR-9 | EU | BLR-9- | NO _x | 30 TAC Chapter | § 117.310(d)(3) | An owner or operator may | § 117.320(d) | § 117.320(f) | § 117.320(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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|--|--|---|
| | | CEMS | | 117, Subchapter B | § 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) § 117.320(a) § 117.320(b) [G]§ 117.320(c) § 117.320(i) § 117.320(j) § 117.320(k) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3) | 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]§ 117.320(e) § 117.320(h) § 117.320(k) [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) | § 117.345(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)(6) | | |
| BLR-9 | EU | 60Db-3 | NO _x | 40 CFR Part 60, Subpart Db | § 60.40b(a) | The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)). | None | [G]§ 60.49b(d) § 60.49b(o) | § 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) |
| BLR-9 | EU | 63DDDDD-02 | 112(B) HAPS | 40 CFR Part 63, Subpart DDDDD | § 63.7500(a)(1)-Table 3.3 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(13) | A new or existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater must conduct a tune-up of the boiler or process heater annually as specified in § 63.7540. Units in either the Gas 1 or Metal Process Furnace subcategories will conduct this tune-up as a work practice for all regulated emissions. | § 63.7515(d) [G]§ 63.7521(f) [G]§ 63.7521(g) § 63.7521(h) § 63.7521(i) § 63.7530(g) § 63.7540(a) [G]§ 63.7540(a)(10) [G]§ 63.7540(c) | § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(g) § 63.7555(h) § 63.7560(a) § 63.7560(b) § 63.7560(c) | [G]§ 63.7521(g) § 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) [G]§ 63.7545(f) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h) |
| BLR-9EXH | EP | 115-111-01BLR | Opacity | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(C) § 111.111(a)(1)(E) | Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed. | [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|---|---|---|--|
| BOILER10 | EU | R7300-1 | CO | 30 TAC Chapter 117, Subchapter B | § 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1) | CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis. | [G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii)) § 117.8100(a)(1)(B)(iii)) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A) | § 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C) | § 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c) |
| BOILER10 | EU | R7300-1 | NO _x | 30 TAC Chapter | § 117.310(d)(3) | An owner or operator may | § 117.320(d) | § 117.320(f) | § 117.320(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, Subchapter B | § 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) § 117.320(a) § 117.320(b) [G]§ 117.320(c) § 117.320(i) § 117.320(j) § 117.320(k) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3) | 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]§ 117.320(e) § 117.320(h) § 117.320(k) [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) | § 117.345(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)(6) | | |
| BOILER10 | EU | 60Db-1 | PM | 40 CFR Part 60, Subpart Db | § 60.40b(a) | The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)). | None | [G]§ 60.49b(d) § 60.49b(o) | § 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) |
| BOILER10 | EU | 60Db-1 | PM (Opacity) | 40 CFR Part 60, Subpart Db | § 60.40b(a) | The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)). | None | [G]§ 60.49b(d) § 60.49b(o) | § 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) |
| BOILER10 | EU | 60Db-1 | SO ₂ | 40 CFR Part 60, Subpart Db | § 60.40b(a) | The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the | 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) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|---|---|---|---|
| | | | | | | steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)). | | | |
| BOILER10 | EU | 63DDDDD-02 | 112(B) HAPS | 40 CFR Part 63, Subpart DDDDD | § 63.7500(a)(1)-Table 3.1 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(12) § 63.7540(a)(13) | A new or existing boiler or process heater with a continuous oxygen trim system that maintains an optimum air to fuel ratio must conduct a tune-up of the boiler or process heater every 5 years as specified in § 63.7540. | § 63.7515(d) § 63.7525(a)(7) § 63.7540(a) [G]§ 63.7540(a)(10) | § 63.7555(a) § 63.7555(a)(1) § 63.7560(a) § 63.7560(b) § 63.7560(c) | § 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h) |
| BOILER10 EXH | EP | 115-111-02BLR | Opacity | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(C) § 111.111(a)(1)(E) | Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed. | [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary | None | None |
| BOILER11 | EU | R7300-1 | 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) | § 117.345(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) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual 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)(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) | | § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c) |
| BOILER11 | EU | R7300-1 | 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) § 117.320(a) § 117.320(b) [G]§ 117.320(c) § 117.320(i) § 117.320(j) § 117.320(k) § 117.340(f)(1) § 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, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or | § 117.320(d) [G]§ 117.320(e) § 117.320(h) § 117.320(k) [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) | § 117.320(f) § 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) | § 117.320(g) § 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) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual 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)(3) | operator may use the alternative methods specified in § 117.9800 to comply with § 117.320. | [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) | | [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c) |
| BOILER11 | EU | 60Db-1 | PM | 40 CFR Part 60, Subpart Db | § 60.40b(a) | The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour | 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) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|--|---|--|---|---|
| | | | | | | (MMBtu/hr). | | | |
| BOILER11 | EU | 60Db-1 | PM (Opacity) | 40 CFR Part 60, Subpart Db | § 60.40b(a) | The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)). | None | [G]§ 60.49b(d) § 60.49b(o) | § 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) |
| BOILER11 | EU | 60Db-1 | SO ₂ | 40 CFR Part 60, Subpart Db | § 60.40b(a) | The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)). | None | [G]§ 60.49b(d) § 60.49b(o) | § 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) |
| BOILER11 | EU | 63DDDDD-02 | 112(B) HAPS | 40 CFR Part 63, Subpart DDDDD | § 63.7500(a)(1)- Table 3.1 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(12) § 63.7540(a)(13) | A new or existing boiler or process heater with a continuous oxygen trim system that maintains an optimum air to fuel ratio must conduct a tune-up of the boiler or process heater every 5 years as specified in § 63.7540. | § 63.7515(d) § 63.7525(a)(7) § 63.7540(a) [G]§ 63.7540(a)(10) | § 63.7555(a) § 63.7555(a)(1) § 63.7560(a) § 63.7560(b) § 63.7560(c) | § 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|--|---|---|
| | | | | | | | | | [G]§ 63.7550(h) |
| BOILER11 EXH | EP | 115-111-02BLR | Opacity | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(C) § 111.111(a)(1)(E) | Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed. | [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary | None | None |
| BUTENE-1-MCPU | EP | 63FFFF-CPVFLR | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3) | For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare. | [G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) [G]§ 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii) | § 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5) | § 63.2450(f)(2)(ii) § 63.2450(q) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2) |
| BUTENE-1-MCPU | EP | 63FFFF-CPVGP1 | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(a)-Table 1.1.a.i § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(c) | For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by greater than or equal to 98 percent by weight by venting | [G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.2450(g) § 63.2450(g)(1) § 63.2450(g)(2) [G]§ 63.2450(g)(3) § 63.2450(g)(4) | § 63.2450(k)(6) § 63.2525(g) § 63.2525(h) § 63.983(b) [G]§ 63.983(d)(2) § 63.996(c)(2)(ii) § 63.998(a)(2)(ii)(B)(5) | § 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(q) § 63.996(b)(2) § 63.996(c)(6) § 63.997(c)(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) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|---|---|--|
| | | | | | § 63.982(c)(2) § 63.983(a)(1) § 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.988(a)(1) § 63.988(a)(2) § 63.988(a)(3) § 63.988(b)(2) § 63.996(c)(1) § 63.996(c)(2) § 63.996(c)(2)(i) § 63.996(c)(3) § 63.996(c)(4) § 63.996(c)(5) § 63.996(c)(6) § 63.997(c)(3) | emissions through a closed-vent system to any combination of control devices (except flare). | § 63.2450(j) § 63.2450(j)(1) § 63.2450(j)(1)(i) § 63.2450(j)(2)(i) § 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(j)(4) § 63.2450(j)(5) § 63.2450(k)(6) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.996(b)(1) § 63.996(b)(1)(i) § 63.996(b)(2) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(iii) | [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) § 63.998(c)(2)(iii) § 63.998(c)(3)(iii) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5) | [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(b)(3) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) |
| C-5 | EU | 115-212FLRL | 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) § 60.18 | At marine terminals, VOC emissions shall not exceed 0.09 pound from the vapor control system vent per 1,000 gallons (10.8kgm/liter) of VOC loaded into the marine vessel, or a vapor control system with 90% efficiency, 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) | [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(D) § 115.216 § 115.216(1) § 115.216(1)(B) § 115.216(2) [G]§ 115.216(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) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|--|---|---|
| | | | | | | | [G]§ 115.215(3) § 115.215(4) § 115.215(5) § 115.215(7) § 115.215(8) § 115.215(9) § 115.216(1) | | |
| C-5 | EU | 115-212FLRU | 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) | Unloading of marine vessels is 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 |
| C-5 | EU | 115-212PLSL | 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) | At marine terminals, VOC emissions shall not exceed 0.09 pound from the vapor control system vent per 1,000 gallons (10.8kmg/liter) of VOC loaded into the marine vessel, or a vapor control system with 90% efficiency, 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) | [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(D) § 115.216 § 115.216(2) [G]§ 115.216(4) | None |
| C-5 | EU | 115-212PLSU | 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) | Unloading of marine vessels is exempt from the requirements of §§115.212(a), 115.214(a), and 115.216 of this title, | § 115.214(a)(3)(B) § 115.214(a)(3)(B)(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) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| | | | | | § 115.217(a)(5)(B)(i) | except as noted. | | | |
| C-5 | EU | 115-212TOL | 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) | At marine terminals, VOC emissions shall not exceed 0.09 pound from the vapor control system vent per 1,000 gallons (10.8kgm/liter) of VOC loaded into the marine vessel, or a vapor control system with 90% efficiency, 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)(i) | [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(D) § 115.216 § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(i) § 115.216(2) [G]§ 115.216(4) | None |
| C-5 | EU | 115-212TOU | 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) | Unloading of marine vessels is 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 |
| C-5 | EU | 115-217EXMPTL | 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 loading operations specified in §115.217(a)(5)(B)(ii)-(iv) are exempt from the requirements of §§115.212(a), 115.214(a), and 115.216 of this title, | § 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) |
|---------------------------|-------------------------|---------------|-------------|--|--|---|---|--|---|
| | | | | | | except as noted. | | | |
| C-5 | EU | 115-217EXMPTU | 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) | Unloading of marine vessels is 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 |
| C-5 | EU | C-5-P | 112(B) HAPS | 40 CFR Part 63, Subpart Y | § 63.560(a)(4) § 153.282 § 63.560(a)(2) | Any existing sources with emissions less than 10 tons of any individual HAP and 25 tons of HAP combined must meet the submerged fill standards of 46 CFR 153.282. | § 63.565(l) | § 63.567(j)(4) | None |
| COMB 1B-505V | EP | 115-121-01BLR | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(1) § 115.121(a)(1) § 115.122(a)(1)(C) | Vent gas streams affected by §115.121(a)(1) must be controlled properly with a control efficiency of at least 90% or to a volatile organic compound (VOC) concentration of no more than 20 parts per million (ppmv) (on a dry basis corrected to 3.0% oxygen for combustion devices). | [G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2) ** See Periodic Monitoring Summary | § 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2) | None |
| COMB 1B-505V | EP | 115-121-02BLR | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(B) | Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices). | [G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2) ** See Periodic Monitoring Summary | § 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|---|
| COMB 1B-506V | EP | 115-121-01BLR | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(1) § 115.121(a)(1) § 115.122(a)(1)(C) | Vent gas streams affected by §115.121(a)(1) must be controlled properly with a control efficiency of at least 90% or to a volatile organic compound (VOC) concentration of no more than 20 parts per million (ppmv) (on a dry basis corrected to 3.0% oxygen for combustion devices). | [G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2) ** See Periodic Monitoring Summary | § 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2) | None |
| COMB 1B-506V | EP | 115-121-02BLR | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(B) | Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices). | [G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2) ** See Periodic Monitoring Summary | § 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2) | None |
| COMB BLR 9V | EP | 115-121-01BLR | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(1) § 115.121(a)(1) § 115.122(a)(1)(C) | Vent gas streams affected by §115.121(a)(1) must be controlled properly with a control efficiency of at least 90% or to a volatile organic compound (VOC) concentration of no more than 20 parts per million (ppmv) (on a dry basis corrected to 3.0% oxygen for combustion devices). | [G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2) ** See Periodic Monitoring Summary | § 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2) | None |
| COMB BLR 9V | EP | 115-121-02BLR | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(B) | Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least | [G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2) ** See Periodic | § 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|---------------------------------------|--|---|---|--|---|
| | | | | | | 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices). | Monitoring Summary | | |
| COMB BLR10/11V | EP | 115-722-01BLR | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Vent Gas | § 115.722(c)(1) § 115.722(c)(3) § 115.725(a)(3) [G]§ 115.725(b)(1) [G]§ 115.725(l) § 115.725(n) | 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)(3) § 115.725(a)(3)(B) § 115.725(a)(5) § 115.725(b) [G]§ 115.725(b)(1) | § 115.726(b)(4) § 115.726(b)(5) § 115.726(b)(6) [G]§ 115.726(h) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2) | § 115.725(a)(5) § 115.725(n) |
| COMB BLR10/11V | EP | 115-121-01BLR | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(1) § 115.121(a)(1) § 115.122(a)(1)(C) | Vent gas streams affected by §115.121(a)(1) must be controlled properly with a control efficiency of at least 90% or to a volatile organic compound (VOC) concentration of no more than 20 parts per million (ppmv) (on a dry basis corrected to 3.0% oxygen for combustion devices). | [G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2) ** See Periodic Monitoring Summary | § 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2) | None |
| COMB BLR10/11V | EP | 115-121-02BLR | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(B) | Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion | [G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2) ** See Periodic Monitoring Summary | § 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|---------------------------------------|---|---|---|---|---|
| | | | | | | devices). | | | |
| COMB EP-5V | EP | 115-722-01FLR | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Vent Gas | § 115.722(c)(1) § 115.722(c)(3) § 115.725(n) | 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. | None | [G]§ 115.726(h) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2) | § 115.725(n) |
| COMB EP-5V | EP | 115-121-01FLR | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(1) § 115.121(a)(1) § 115.122(a)(1)(B) § 60.18 | Vent gas streams affected by §115.121(a)(1) must be controlled properly with a control efficiency of at least 90% or to a volatile organic compound (VOC) concentration of no more than 20 parts per million (ppmv) (on a dry basis corrected to 3.0% oxygen for combustion devices). | [G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) | § 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2) | None |
| COMB EP-5V | EP | 115-121-02FLR | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(A) § 60.18 | Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices). | [G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7) | § 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2) | None |
| COMB EP-5V | EP | 63FFFF-01FLR | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(a)-Table 1.1.a.ii § 63.11(b) | For each Group 1 continuous process vent, the owner or operator must | [G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(b) | § 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) | § 63.2450(f)(2)(ii) § 63.2450(q) § 63.997(b)(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) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|---|--|---|---|
| | | | | | § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.997(b)(1) § 63.997(c)(3) | reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare. | [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.987(c) [G]§ 63.997(b) § 63.997(b)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii) | § 63.983(b) [G]§ 63.983(d)(2) § 63.987(c) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5) | § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2) |
| COMB EP-5V | EP | 63G-001 | 112(B) HAPS | 40 CFR Part 63, Subpart G | [G]§ 63.113(a)(1) § 63.11 § 63.113(h) [G]§ 63.115(f) | Reduce emissions of organic HAP using a flare. §63.113(a)(1)(i)-(ii) | § 63.114(a) § 63.114(a)(2) [G]§ 63.115(f) [G]§ 63.116(a) | [G]§ 63.117(a)(5) § 63.118(a)(1) § 63.118(a)(2) [G]§ 63.152(a) [G]§ 63.152(f) | [G]§ 63.117(a)(5) § 63.117(f) § 63.118(f)(2) § 63.118(f)(5) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6) |
| CT-10 | EU | R5761-1 | Highly Reactive | 30 TAC Chapter 115, HRVOC | § 115.761(c)(1) § 115.761(c)(3) | HRVOC emissions at each site located in Harris County | § 115.764(a)(1) § 115.764(a)(3) | § 115.766(a)(1) § 115.766(a)(2) | § 115.766(i)(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) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|--|--|---|
| | | | VOC | Cooling Towers | § 115.764(a)(1) § 115.766(i) | 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. | [G]§ 115.764(a)(6) § 115.764(c) | § 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) | |
| CT-11 | EU | R5761-2 | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Cooling Towers | § 115.761(c)(1) § 115.761(c)(3) § 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(b)(2) § 115.764(b)(4) § 115.764(b)(5) § 115.764(c) § 115.764(e)(1) | § 115.766(a)(1) § 115.766(a)(2) § 115.766(a)(3) § 115.766(a)(4) § 115.766(a)(5) § 115.766(a)(6) § 115.766(c) [G]§ 115.766(e) [G]§ 115.766(g) [G]§ 115.766(h) § 115.766(i)(1) | § 115.766(i)(2) |
| CT-14 | EU | R5761-1 | 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) |
| CT-17 | EU | R5761-1 | 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 | § 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) | § 115.766(i)(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) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|--|--|---|
| | | | | | | from any flare, vent, pressure relief valve, cooling tower, or any combination. | | [G]§ 115.766(h) § 115.766(i)(1) | |
| CT-18 | EU | R5761-1 | 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) |
| CT-3 | EU | R5761-1 | 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) |
| CT-7 | EU | R5761-1 | 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) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|---|---|---|
| DEGREAS1 | EU | R5412 | 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) [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 |
| DEGREAS2 | EU | R5412 | 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) [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 |
| DH2-GEN | EU | 117-EMERG | Exempt | 30 TAC Chapter 117, Subchapter B | § 117.303(a)(6)(D) [G]§ 117.310(f) | Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average. | § 117.8140(a) § 117.8140(a)(3) | § 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |
| DH2-GEN | EU | IIII-EMER3 | CO | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) | 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 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) |
|---------------------------|-------------------------|---------------|--------------------------|---------------------------------------|---|--|-------------------------------------|---|---|
| | | | | | § 60.4211(c) [G]§ 60.4211(f) | 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 60.4202(a)(2) and 40 CFR 1039-Appendix I. | | | |
| DH2-GEN | EU | IIII-EMER3 | NMHC and NO _x | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) | Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than or equal to 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NO _x emission limit of 4.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I. | None | None | [G]§ 60.4214(d) |
| DH2-GEN | EU | IIII-EMER3 | PM | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) | 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 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 PM emission limit of 0.20 g/KW-hr, as stated in 40 | 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) |
|---------------------------|-------------------------|---------------|--------------|---------------------------------------|--|--|-------------------------------------|---|---|
| | | | | | | CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I. | | | |
| DH2-GEN | EU | IIII-EMER3 | PM (Opacity) | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 1039.105(b)(1) § 1039.105(b)(2) § 1039.105(b)(3) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) | Emergency stationary CI ICE, that are not fire pump engines, with displacement < 10 lpc and not constant-speed engines, with max engine power < 2237 KW and a 2007 model year and later or max engine power > 2237 KW and a 2011 model year and later, must comply with following opacity emission limits: 20% during acceleration, 15% during lugging, 50% during peaks in either acceleration or lugging modes as stated in §60.4202(a)(1)-(2), (b)(2), and 40 CFR 1039.105(b)(1)-(3). | None | None | [G]§ 60.4214(d) |
| DH2-GEN | EU | ZZZZ-EMER1 | 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 |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|---|---|
| DOCK-TO EXH | EP | 115-111-01TO | Opacity | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(C) § 111.111(a)(1)(E) | Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed. | [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary | None | None |
| E-563 | EU | E-563-P | Opacity | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(4)(A) | Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b). | § 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii) | § 111.111(a)(4)(A)(ii) | None |
| E-563 | CD | E-563-P | Opacity | 40 CFR Part 60, Subpart A | § 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(5) § 60.18(c)(6) § 60.18(e) | Flares shall comply with paragraphs (c)-(f) of § 60.18. | § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(6) | None | None |
| E-563 | CD | E-563-P | Opacity | 40 CFR Part 63, Subpart A | § 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(8) | Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used. | § 63.11(b)(4) § 63.11(b)(5) | None | None |
| E-PIB1RC1 | EU | R5211-0 | 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) § | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less | § 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 |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|---|--|---|---|
| | | | | | 115.214(a)(1)(D)(i) | than 0.5 psia is exempt from the requirements of this division, except as specified. | | | |
| E-PIB1RC2 | EU | R5211-0 | 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 |
| E-PIB2RC1 | EU | E-PIB2RC2-P | 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 |
| E-PIB2RC2 | EU | E-PIB2RC2-P | 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 |
| E-PIB2TT1 | EU | E-PIB2TT1-P | 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 | § 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 |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual 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 requirements of this division, except as specified. | | | |
| E-PIB2TT2 | EU | E-PIB2TT2-P | 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 |
| E-PIBTT | EU | R5211-0 | 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 |
| EP-5 | EU | PROCEMI SS-P | Opacity | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(4)(A) | Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b). | § 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii) | § 111.111(a)(4)(A)(ii) | None |
| EP-5 | EP | PROCEMI SS-P | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Vent Gas | § 115.722(d) § 115.722(d)(1) § 115.722(d)(2) [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ | All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare. | [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) | § 115.726(a)(1) § 115.726(a)(1)(A) § 115.726(d)(1) § 115.726(d)(10) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) § 115.726(i) | § 115.725(n) § 115.726(a)(1)(B) [G]§ 115.726(a)(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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|---|---|---|
| | | | | | 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) [G]§ 115.725(l) § 115.725(n) [G]§ 115.726(a)(2) | | § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) § 115.725(d)(3) § 115.725(d)(4) § 115.725(d)(5) § 115.725(d)(6) § 115.725(d)(7) § 115.725(k)(1) | § 115.726(j)(1) § 115.726(j)(2) | |
| EP-5 | 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 |
| EP-5 | CD | PROCEMI SS-P | 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 |
| EP-5 | CD | 63A-1 | Opacity | 40 CFR Part 63, Subpart A | § 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(i) | Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part | § 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i) | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|---|---|---|
| | | | | | | 60 of this chapter shall be used. | | | |
| EP-5 | CD | 63A-3 | Opacity | 40 CFR Part 63, Subpart A | § 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(ii) | 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 |
| EP-5 | EP | 63FFFF | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3) | For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare. | [G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii) | § 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5) | § 63.2450(f)(2)(ii) § 63.2450(q) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2) |
| EP-5 | EP | 63G-1 | 112(B) HAPS | 40 CFR Part 63, Subpart G | [G]§ 63.113(a)(1) § 63.11 § 63.113(h) [G]§ 63.115(f) | Reduce emissions of organic HAP using a flare. §63.113(a)(1)(i)-(ii) | § 63.114(a) § 63.114(a)(2) [G]§ 63.115(f) [G]§ 63.116(a) | [G]§ 63.117(a)(5) § 63.118(a)(1) § 63.118(a)(2) [G]§ 63.152(a) [G]§ 63.152(f) | [G]§ 63.117(a)(5) § 63.117(f) § 63.118(f)(2) § 63.118(f)(5) [G]§ 63.151(b) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| | | | | | | | | | § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6) |
| F-TTR | EU | R5211-1 | 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 |
| F-TTR | EU | R5211-2 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.212(a)(1) § 115.212(a)(1)(B) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.212(a)(3)(E) § 115.214(a)(1)(B) § 115.214(a)(1)(C) | At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors from loading VOC with a true vapor pressure of 0.5 psia or greater must be controlled by one of the methods specified in § 115.212(a)(1)(A)-(C). | § 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|--|---|--|---|---|--|
| | | | | | | | § 115.215(9) | | |
| F-TTR | EU | R5211-3 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.212(a)(1) § 115.212(a)(1)(A) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.212(a)(3)(E) § 115.214(a)(1)(B) § 115.214(a)(1)(C) § 60.18 | At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors from loading VOC with a true vapor pressure of 0.5 psia or greater must be controlled by one of the methods specified in § 115.212(a)(1)(A)-(C). | § 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) [G]§ 115.215(3) § 115.215(4) § 115.215(9) § 115.216(1) | § 115.216 § 115.216(1) § 115.216(1)(B) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B) | None |
| F-TTR | EU | R5211-4 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.212(a)(1) § 115.212(a)(1)(A) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.212(a)(3)(E) § 115.214(a)(1)(B) § 115.214(a)(1)(C) | At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors from loading VOC with a true vapor pressure of 0.5 psia or greater must be controlled by one of the methods specified in § 115.212(a)(1)(A)-(C). | § 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(9) ** See Periodic Monitoring Summary | § 115.216 § 115.216(1) § 115.216(1)(C) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B) | None |
| F-TTR | EU | TRUCK-RACK-F | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.126(a) § 63.126(a)(1) § 63.126(a)(2) § 63.126(a)(3) | For Group 1 transfer racks shall operate a vapor collection system and control device for organic | § 63.152(g)(1)(i) [G]§ 63.152(g)(1)(ii) § 63.152(g)(1)(iii) § 63.152(g)(1)(iv) | § 63.129(a)(1) § 63.130(e) § 63.130(f) § 63.130(f)(1) | § 63.129(a)(2) § 63.129(a)(3) § 63.129(a)(8) § 63.130(d)(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) |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|---|---|---|--|---|
| | | | | | [G]§ 63.126(b)(4) § 63.126(f) § 63.126(g) § 63.126(h) | HAPs. | [G]§ 63.152(g)(1)(v) | § 63.130(f)(2) § 63.130(f)(3) § 63.130(f)(3)(ii) [G]§ 63.152(a) [G]§ 63.152(f) § 63.152(g)(1) § 63.152(g)(1)(i) [G]§ 63.152(g)(1)(ii) § 63.152(g)(1)(iii) § 63.152(g)(1)(iv) [G]§ 63.152(g)(1)(v) [G]§ 63.152(g)(1)(vi) § 63.152(g)(2) § 63.152(g)(2)(i) § 63.152(g)(2)(ii) § 63.152(g)(2)(iii) | § 63.130(d)(2) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(3)(ii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6) § 63.152(g)(1) § 63.152(g)(2)(i) § 63.152(g)(2)(ii) |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | § 63.162(e) § 63.162(a) § 63.162(c) [G]§ 63.162(g) § 63.162(h) | Equipment that is in organic HAP service less than 300 hours per year is excluded from the requirements of §§63.163 - 63.174 and §63.178 if it is identified as required in §63.181(j). | [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(i) § 63.181(j) | [G]§ 63.182(a) [G]§ 63.182(b) |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.164 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | Standards: Compressors. §63.164(a)-(i) | [G]§ 63.164 [G]§ 63.180(b) [G]§ 63.180(c) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) [G]§ 63.181(f) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.165 § 63.162(a) § 63.162(c) | Standards: Pressure relief device in gas/vapor service. §63.165(a)-(d) | [G]§ 63.165 [G]§ 63.180(b) [G]§ 63.180(c) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|---|---|---|--|--|
| | | | | | [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | | [G]§ 63.180(d) | [G]§ 63.181(f) | [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.166 § 63.162(a) § 63.162(c) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | Standards: Sampling connection systems. §63.166(a)-(c) | [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(i) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.169 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | Standards: Pumps in heavy liquid service. §63.169(a)-(d) | [G]§ 63.169 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) [G]§ 63.181(i) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.169 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | Standards: Valves in heavy liquid service. §63.169(a)-(d) | [G]§ 63.169 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) [G]§ 63.181(i) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.169 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | Standards: Connectors in heavy liquid service. §63.169(a)-(d) | [G]§ 63.169 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) [G]§ 63.181(i) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.169 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | Standards: Agitators in heavy liquid service. §63.169(a)-(d) | [G]§ 63.169 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) [G]§ 63.181(i) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(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]§ 63.171 | | | | |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.169 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | Standards: Instrumentation systems. §63.169(a)-(d) | [G]§ 63.169 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.169 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | Standards: Pressure relief devices in liquid service. §63.169(a)-(d) | [G]§ 63.169 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | § 63.170 § 63.162(a) § 63.162(c) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | Standards: Surge control vessels and bottom receivers. | [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.173 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | Standards: Agitators gas/vapor service and in light liquid service. §63.173(a)-(j). | [G]§ 63.173 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.174 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 | Standards: Connectors in gas/vapor service and in light liquid service. §63.174(a)-(j) | [G]§ 63.174 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(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) |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|--|--|--|
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.163 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 [G]§ 63.176 | Standards: Pumps in light liquid service. §63.163(a)-(j) | [G]§ 63.163 [G]§ 63.176 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) § 63.181(h) [G]§ 63.181(h)(3) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7) § 63.181(h)(8) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.167 § 63.162(a) § 63.162(c) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 [G]§ 63.175 | Standards: Open-ended valves or lines. §63.167(a)-(e). | [G]§ 63.175 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) § 63.181(h) [G]§ 63.181(h)(1) [G]§ 63.181(h)(2) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7) [G]§ 63.181(i) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FUG-HON | EU | 63H-ALL | 112(B) HAPS | 40 CFR Part 63, Subpart H | [G]§ 63.168 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 [G]§ 63.175 | Standards: Valves in gas/vapor service and in light liquid service. §63.168(a)-(j) | [G]§ 63.168 [G]§ 63.175 [G]§ 63.180(b) [G]§ 63.180(d) | § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) § 63.181(h) [G]§ 63.181(h)(1) [G]§ 63.181(h)(2) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7) | [G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) |
| FUG-HRVOC | EU | R5780-ALL | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) | All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the | § 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) | [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)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(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) | 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)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | |
| FUG-HRVOG | EU | R5780-ALL | Highly Reactive VOC | 30 TAC Chapter 115, HRVOG Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) | Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) | § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|---|--|--|
| | | | | | § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g) | which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B) | § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | |
| FUG-HRVOC | EU | R5780-ALL | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ | All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be | § 115.782(d)(2) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

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

Applicable Requirements Summary

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

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|--|--|--|
| | | | | | § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g) | 500 ppmv above background as methane for all components. | | [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | |
| FUG-HRVOC | EU | R5780-ALL | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) | Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is | § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) | § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|---|--|--|--|--|---|
| | | | | | § 115.782(c)(1)(B)(iv) | defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B) | | |
| FUG-HRVOC | EU | R5780-ALL | Highly Reactive VOC | 30 TAC Chapter 115, HRVO C Fugitive Emissions | § 115.787(a) | Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements). | None | § 115.786(e) § 115.786(g) | None |
| FUG-HRVO C | EU | R5780-ALL | Highly Reactive VOC | 30 TAC Chapter 115, HRVO C Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § | Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|---|---|---|---|
| | | | | | 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii) | | | § 115.786(e) § 115.786(g) | |
| FUG-HRVOC | EU | R5780-ALL | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) | Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) |

Applicable Requirements Summary

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

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|---|--|--|
| | | | | | [G]§ 115.788(g) | | | | |
| FUG-HRVOC | EU | R5780-ALL | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) | Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B) |
| FUG-HRVOC | EU | R5780-ALL | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ | Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) | [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)(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) | or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | |
| FUG-HRVOG | EU | R5780-ALL | Highly Reactive VOC | 30 TAC Chapter 115, HRVOG Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ | Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) | [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)(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) | concentration greater than 500 ppmv above background as methane for all components. | § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | |
| FUG-HRVOC | EU | R5780-ALL | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) | Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) | [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)(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) | all components. | § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | | |
| FUG-HRVOC | EU | R5780-ALL | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) | Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring. | § 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) | § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) | [G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|--|---|--|--|--|---|
| | | | | | | | § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3) | § 115.786(e) [G]§ 115.786(f) § 115.786(g) | |
| FUG-MON | EU | 63FFFF | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2480(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 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 contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) 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 |
| FUG-REGV | EU | R5352- | VOC | 30 TAC Chapter | § 115.352(1)(B) | No pump seals that are | [G]§ 115.355 | § 115.352(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) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| | | ALL | | 115, Pet. Refinery & Petrochemicals | § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8) | equipped with a shaft sealing system that prevents or detects emissions of VOCs from the seal 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. | | § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8) | No pump seals contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) | No pump seals contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening | § 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) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual 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(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8) | concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | | [G]§ 115.356(3)(C) § 115.356(5) | |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(C) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h) | If the owner or operator elects to use the alternative work practice in §115.358, no component shall be allowed to have a VOC leak, detected as defined in §115.358, for more than 15 days after discovery. This includes any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring. | § 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) | § 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5) | [G]§ 115.358(g) |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(5) | Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(10) | Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except | 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) |
|---------------------------|-------------------------|---------------|-----------|--|---|---|-------------------------------------|---|---|
| | | | | | | §115.356(3)(C) of this title. | | | |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(11) | Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(13) | Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(6) | Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight 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 |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(2) § 115.352(9) | Conservation vents or other devices on atmospheric storage tanks that are actuated either by a vacuum or a pressure of no more | 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) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|---|---|---|
| | | | | | | than 2.5 psig, pressure relief valves equipped with a rupture disk or venting to a control device, components in continuous vacuum service, and valves that are not externally regulated (such as in-line check valves) are exempt from the requirements of this division, except that each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115. | | | |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1) | No process drains contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by 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 |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) | No process drains contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a | § 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) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|--|--|---|
| | | | | | | screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | | § 115.356(5) | |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9) | No pressure relief valves contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9) | No pressure relief valves contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| FUG-REGV | EU | R5352- | VOC | 30 TAC Chapter | § 115.352(1)(A) | No open-ended valves or | § 115.354(1) | § 115.352(7) | [G]§ 115.354(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|--|--|---|
| | | ALL | | 115, Pet. Refinery & Petrochemicals | § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9) | lines contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9) | No open-ended valves or lines contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) | No valves contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) | [G]§ 115.354(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|--|--|---|
| | | | | | § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9) | million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | | | |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9) | No valves contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8) | No flanges or other connectors contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery | § 115.352(1)(A) § 115.352(1) | No flanges or other connectors contacting a | § 115.354(1) § 115.354(10) | § 115.352(7) § 115.354(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) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|---|---|
| | | | | & Petrochemicals | § 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) | fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 | § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(8) | No agitators contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 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) | § 115.352(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 |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) | No agitators contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than | [G]§ 115.355 | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|-------------------------------------|---|---|
| | | | | | § 115.352(7) § 115.357(8) | 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | | | |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8) | No compressor seals in hydrogen service with and the hydrogen content can be expected to always exceed 50.0% by volume shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | [G]§ 115.355 | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8) | No compressor seals that are equipped with a shaft sealing system that prevents or detects emissions of VOCs from the seal shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | [G]§ 115.355 | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|--|---|--|
| FUG-REGV | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8) | No compressor seals contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |
| FUG-VV | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | § 60.482-8(b) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) § 60.486(k) | For flanges and other connectors, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected. | § 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | § 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| FUG-VV | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | § 60.482-8(b) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) | For pressure relief devices in light liquid or in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected. | § 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) | § 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|---|--|
| | | | | | § 60.486(k) | | | | |
| FUG-VV | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | § 60.482-8(b) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k) | For valves in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected. | § 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | § 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| FUG-VV | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | § 60.482-2(b)(1) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) [G]§ 60.482-2(b)(2) § 60.482-2(c)(1) [G]§ 60.482-2(c)(2) § 60.482-2(d) [G]§ 60.482-2(d)(1) § 60.482-2(d)(2) § 60.482-2(d)(3) [G]§ 60.482-2(d)(4) [G]§ 60.482-2(d)(5) [G]§ 60.482-2(d)(6) [G]§ 60.482-2(e) § 60.482-2(f) [G]§ 60.482-2(g) § 60.482-2(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(d) § 60.482-9(f) | If an instrument reading of 10,000 ppm or greater is measured for pumps in light liquid service, a leak is detected. | § 60.482-1(f)(1) § 60.482-1(f)(2) [G]§ 60.482-1(f)(3) [G]§ 60.482-2(a) [G]§ 60.482-2(b)(2) [G]§ 60.482-2(d)(4) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) | § 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(h) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|---|---|--|
| | | | | | § 60.486(k) | | | | |
| FUG-VV | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | § 60.482-7(b) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-7(d)(1) § 60.482-7(d)(2) [G]§ 60.482-7(e) [G]§ 60.482-7(f) [G]§ 60.482-7(g) [G]§ 60.482-7(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k) | If an instrument reading of 10,000 ppm or greater is measured for valves in gas/vapor service and in light liquid service, a leak is detected. | § 60.482-1(f)(1) § 60.482-1(f)(2) [G]§ 60.482-1(f)(3) § 60.482-7(a)(1) [G]§ 60.482-7(a)(2) § 60.482-7(c)(1)(i) § 60.482-7(c)(1)(ii) § 60.482-7(c)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) | § 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| FUG-VV | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | § 60.482-3(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) [G]§ 60.482-3(b) § 60.482-3(c) § 60.482-3(d) § 60.482-3(e)(1) § 60.482-3(e)(2) § 60.482-3(f) § 60.482-3(g)(1) § 60.482-3(g)(2) § 60.482-3(h) [G]§ 60.482-3(i) § 60.482-3(j) § 60.482-9(a) § 60.482-9(b) § 60.486(k) | Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in §60.482-1(c) and paragraphs (h), (i), and (j) of this section. | § 60.482-3(e)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) | § 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| FUG-VV | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | § 60.482-6(a)(1) § 60.482-1(a) § 60.482-1(b) | Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a | § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) | § 60.482-1(g) [G]§ 60.486(a) § 60.486(e) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|--|--|--|
| | | | | | § 60.482-1(g) § 60.482-6(a)(2) § 60.482-6(b) § 60.482-6(c) § 60.482-6(d) § 60.482-6(e) § 60.486(k) | second valve, except as provided in §60.482-1(c) and paragraphs (d) and (e) of this section. | § 60.485(f) | § 60.486(e)(1) § 60.486(j) | § 60.487(e) |
| FUG-VV | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | § 60.482-5(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) [G]§ 60.482-5(b) § 60.482-5(c) § 60.486(k) | Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system, except as provided in §60.482-1(c) and paragraph (c) of this section. | § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | § 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| FUG-VV | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | § 60.482-4(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-4(b)(1) § 60.482-4(c) § 60.482-4(d)(1) § 60.482-4(d)(2) § 60.482-9(a) § 60.482-9(b) § 60.486(k) | Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in § 60.485(c). | § 60.482-4(b)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) | § 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| FUG-VV | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | § 60.482-8(b) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(d) § 60.482-9(f) | For pumps in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected. | § 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | § 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|--|
| | | | | | § 60.486(k) | | | | |
| FUG-VV | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | § 60.482-1(d) § 60.486(k) | Equipment that is in vacuum service is excluded from the requirements of §60.482-2 to §60.482-10, if it is identified as required in §60.486(e)(5). | None | [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(5) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| FUG-VV | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-1(e) § 60.486(k) | Equipment that an owner or operator designates as being in VOC service less than 300 hours (hr)/yr is excluded from the requirements of §§ 60.482-2 through 60.482-10 if it is identified as required in §60.486(e)(6) and it meets any of the conditions specified in paragraphs (e)(1) through (3) of this section. §60.482-1(e)(1)-(3) | None | § 60.486 [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(6) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| FUG-VVA | EU | 60VVA-ALL | VOC | 40 CFR Part 60, Subpart VVa | § 60.482-8a(b) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) [G]§ 60.482-2a(c)(2) [G]§ 60.482-7a(e) § 60.482-8a(a) § 60.482-8a(a)(2) [G]§ 60.482-8a(c) § 60.482-8a(d) § 60.482-9a(a) § 60.482-9a(b) [G]§ 60.482-9a(c) § 60.482-9a(f) § 60.485a(b) § 60.485a(f) § 60.486a(a)(1) | At a connector in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected. | § 60.482-1a(g) § 60.482-8a(a)(1) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) [G]§ 60.485a(d) | § 60.482-1a(g) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8) | § 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|---|--|--|
| | | | | | § 60.486a(a)(2) § 60.486a(k) | | | | |
| FUG-VVA | EU | 60VVA-ALL | VOC | 40 CFR Part 60, Subpart VVa | § 60.482-8a(b) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) [G]§ 60.482-2a(c)(2) [G]§ 60.482-7a(e) § 60.482-8a(a) § 60.482-8a(a)(2) [G]§ 60.482-8a(c) § 60.482-8a(d) § 60.482-9a(a) § 60.482-9a(b) [G]§ 60.482-9a(c) § 60.482-9a(e) § 60.482-9a(f) § 60.485a(b) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k) | At a valve in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected. | § 60.482-1a(g) § 60.482-8a(a)(1) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) [G]§ 60.485a(d) | § 60.482-1a(g) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8) | § 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) |
| FUG-VVA | EU | 60VVA-ALL | VOC | 40 CFR Part 60, Subpart VVa | § 60.482-8a(b) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) [G]§ 60.482-2a(c)(2) [G]§ 60.482-7a(e) § 60.482-8a(a) § 60.482-8a(a)(2) [G]§ 60.482-8a(c) § 60.482-8a(d) § 60.482-9a(a) § 60.482-9a(b) [G]§ 60.482-9a(d) § 60.482-9a(f) | At a pump in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected. | § 60.482-1a(g) § 60.482-8a(a)(1) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) [G]§ 60.485a(d) | § 60.482-1a(g) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8) | § 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|--|--|--|
| | | | | | § 60.485a(b) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k) | | | | |
| FUG-VVA | EU | 60VVA-ALL | VOC | 40 CFR Part 60, Subpart VVa | § 60.482-8a(b) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) [G]§ 60.482-2a(c)(2) [G]§ 60.482-7a(e) § 60.482-8a(a) § 60.482-8a(a)(2) [G]§ 60.482-8a(c) § 60.482-8a(d) § 60.482-9a(a) § 60.482-9a(b) § 60.485a(b) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k) | At a pressure relief device in light liquid or heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected. | § 60.482-1a(g) § 60.482-8a(a)(1) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) [G]§ 60.485a(d) [G]§ 60.485a(e) | § 60.482-1a(g) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8) | § 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) |
| FUG-VVA | EU | 60VVA-ALL | VOC | 40 CFR Part 60, Subpart VVa | § 60.482-7a(b) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) § 60.482-7a(a)(1) [G]§ 60.482-7a(d) [G]§ 60.482-7a(e) [G]§ 60.482-7a(f) [G]§ 60.482-7a(g) [G]§ 60.482-7a(h) § 60.482-9a(a) § 60.482-9a(b) [G]§ 60.482-9a(c) § 60.482-9a(e) § 60.482-9a(f) | At a valve in gas vapor service if an instrument reading of 500 ppm or greater is measured, a leak is detected. | § 60.482-1a(f)(1) § 60.482-1a(f)(2) [G]§ 60.482-1a(f)(3) § 60.482-1a(g) § 60.482-7a(a)(1) [G]§ 60.482-7a(a)(2) [G]§ 60.482-7a(c) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) § 60.485a(c)(2) [G]§ 60.485a(d) [G]§ 60.485a(e) | § 60.482-1a(g) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(2) [G]§ 60.486a(e)(4) [G]§ 60.486a(e)(8) § 60.486a(f) § 60.486a(f)(1) § 60.486a(f)(2) | § 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(b)(2) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(i) § 60.487a(c)(2)(ii) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|--|---|--|
| | | | | | § 60.485a(b) § 60.485a(c) § 60.485a(c)(1) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k) | | | | |
| FUG-VVA | EU | 60VVA-ALL | VOC | 40 CFR Part 60, Subpart VVa | § 60.482-6a(a)(1) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) § 60.482-6a(a)(2) § 60.482-6a(b) § 60.482-6a(c) § 60.482-6a(d) § 60.482-6a(e) § 60.485a(b) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k) | Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in §60.482-1a(c) and paragraphs (d) and (e) of this section. | § 60.482-1a(g) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) [G]§ 60.485a(d) | § 60.482-1a(g) § 60.485a(b)(2) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8) | § 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) |
| FUG-VVA | EU | 60VVA-ALL | VOC | 40 CFR Part 60, Subpart VVa | § 60.482-5a(a) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) [G]§ 60.482-5a(b) § 60.482-5a(c) § 60.485a(b) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k) | Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system, except as provided in §60.482-1a(c) and paragraph (c) of this section. | § 60.482-1a(g) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) [G]§ 60.485a(d) | § 60.482-1a(g) § 60.485a(b)(2) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8) | § 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) |
| FUG-VVA | EU | 60VVA-ALL | VOC | 40 CFR Part 60, Subpart VVa | § 60.482-4a(a) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) § 60.482-4a(b)(1) § 60.482-4a(b)(2) | Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by | § 60.482-1a(g) § 60.482-4a(b)(2) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) | § 60.482-1a(g) § 60.485a(b)(2) § 60.486a(e) § 60.486a(e)(1) § 60.486a(e)(10) § 60.486a(e)(3) | § 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|--|---|--|
| | | | | | § 60.482-4a(c) § 60.482-4a(d)(1) § 60.482-4a(d)(2) § 60.482-9a(a) § 60.482-9a(b) § 60.485a(b) § 60.485a(c) § 60.485a(c)(1) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k) | an instrument reading of less than 500 ppm above background, as determined by the methods specified in §60.485a(c). | § 60.485a(c)(2) [G]§ 60.485a(d) | [G]§ 60.486a(e)(4) [G]§ 60.486a(e)(8) | § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) |
| FUG-VVA | EU | 60VVA-ALL | VOC | 40 CFR Part 60, Subpart VVa | § 60.482-3a(a) § 60.482-1a(a) § 60.482-1a(b) § 60.482-1a(g) [G]§ 60.482-3a(b) § 60.482-3a(c) § 60.482-3a(d) § 60.482-3a(e)(2) § 60.482-3a(f) [G]§ 60.482-3a(g) § 60.482-3a(h) [G]§ 60.482-3a(i) § 60.482-3a(j) § 60.482-9a(a) § 60.482-9a(b) § 60.485a(b) § 60.485a(c) § 60.485a(c)(1) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k) | Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in §60.482-3a(c) and paragraphs (h), (i), and (j) of this section. | § 60.482-1a(g) § 60.482-3a(e)(1) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) § 60.485a(c)(2) [G]§ 60.485a(d) | § 60.482-1a(g) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(2) [G]§ 60.486a(e)(4) [G]§ 60.486a(e)(8) [G]§ 60.486a(h) | § 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(b)(4) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(v) § 60.487a(c)(2)(vi) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) |
| FUG-VVA | EU | 60VVA-ALL | VOC | 40 CFR Part 60, Subpart VVa | [G]§ 60.482-2a(b)(1) § 60.482-1a(a) § 60.482-1a(b) | The instrument reading that defines a leak in a pump in light liquid service is 5,000 parts per million (ppm) or | § 60.482-1a(f)(1) § 60.482-1a(f)(2) [G]§ 60.482-1a(f)(3) § 60.482-1a(g) | § 60.482-1a(g) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) | § 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(b)(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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|--|---|--|
| | | | | | § 60.482-1a(g) § 60.482-2a(b)(2) § 60.482-2a(b)(2)(ii) § 60.482-2a(c)(1) [G]§ 60.482-2a(c)(2) § 60.482-2a(d) [G]§ 60.482-2a(d)(1) § 60.482-2a(d)(2) § 60.482-2a(d)(3) [G]§ 60.482-2a(d)(6) [G]§ 60.482-2a(e) § 60.482-2a(f) [G]§ 60.482-2a(g) § 60.482-2a(h) § 60.482-9a(a) § 60.482-9a(b) [G]§ 60.482-9a(d) § 60.482-9a(f) § 60.485a(b) § 60.485a(c) § 60.485a(c)(1) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k) | greater for pumps handling polymerizing monomers or 2,000 ppm or greater for all other pumps, as specified in paragraphs (b)(1)(i) and (ii) of this section. §60.482-2a(b)(1)(i)-(ii) | § 60.482-2a(a)(1) § 60.482-2a(a)(2) § 60.482-2a(b)(2)(i) [G]§ 60.482-2a(d)(4) [G]§ 60.482-2a(d)(5) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) § 60.485a(c)(2) [G]§ 60.485a(d) [G]§ 60.485a(e) | [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(2) [G]§ 60.486a(e)(4) § 60.486a(e)(7) [G]§ 60.486a(e)(8) § 60.486a(f) § 60.486a(f)(1) [G]§ 60.486a(h) | § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(iii) § 60.487a(c)(2)(iv) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) |
| FUG-VVA | EU | 60VVA-ALL | VOC | 40 CFR Part 60, Subpart VVa | [G]§ 60.482-1a(e) § 60.482-1a(a) § 60.482-1a(b) § 60.485a(b) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k) | Equipment that an owner or operator designates as being in VOC service less than 300 hours (hr)/yr is excluded from the requirements of §§ 60.482-2a through 60.482-11a if it is identified as required in §60.486a(e)(6) and it meets any of the conditions | [G]§ 60.485a(b)(1) § 60.485a(b)(2) | § 60.485a(b)(2) § 60.486a(e) § 60.486a(e)(1) § 60.486a(e)(6) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual 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 paragraphs (e)(1) through (3) of this section. §60.482-1a(e)(1)-(3) | | | |
| FUG-VVA | EU | 60VVA-ALL | VOC | 40 CFR Part 60, Subpart VVa | § 60.482-1a(d) § 60.482-1a(a) § 60.482-1a(b) § 60.485a(b) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k) | Equipment that is in vacuum service is excluded from the requirements of §60.482-2a to §60.482-10a, if it is identified as required in §60.486a(e)(5). | [G]§ 60.485a(b)(1) § 60.485a(b)(2) | § 60.485a(b)(2) § 60.486a(e) § 60.486a(e)(1) § 60.486a(e)(5) | None |
| FUG-VVA | EU | 60VVA-ALL | VOC | 40 CFR Part 60, Subpart VVa | § 60.482-11a(b)(2) § 60.482-11a(b)(3) § 60.482-11a(d) [G]§ 60.482-11a(e) [G]§ 60.482-11a(f)(1) § 60.482-11a(f)(2) § 60.482-11a(g) § 60.482-9a(a) § 60.482-9a(b) [G]§ 60.482-9a(c) § 60.482-9a(f) § 60.485a(b) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k) | If an instrument reading greater than or equal to 500 ppm is measured in connectors in gas and vapor and light liquid service, a leak is detected. | § 60.482-11a(a) § 60.482-11a(b) § 60.482-11a(b)(1) § 60.482-11a(b)(3) § 60.482-11a(b)(3)(i) § 60.482-11a(b)(3)(ii) [G]§ 60.482-11a(b)(3)(iii) § 60.482-11a(b)(3)(iv) § 60.482-11a(c) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) [G]§ 60.485a(d) [G]§ 60.485a(e) | § 60.482-11a(b)(3)(v) § 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8) § 60.486a(e)(9) § 60.486a(f) § 60.486a(f)(1) | § 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(b)(5) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(i) § 60.487a(c)(2)(vii) § 60.487a(c)(2)(viii) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) |
| FUG-VVA | EU | 60VVa-63H | VOC | 40 CFR Part 60, Subpart VVa | § 60.480a(e)(2)(i) § 60.480a(e)(2)(ii) § 60.482-1a(a) § 60.482-1a(b) § 60.485a(f) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(k) | Owners or operators may choose to comply with the provisions of 40 CFR Part 63, Subpart H, to satisfy the requirements of §§60.482-1a through 60.487a for an affected facility. When choosing to comply with 40 | [G]§ 60.485a(d) [G]§ 60.485a(e) | § 60.486a(i) § 60.486a(i)(1) § 60.486a(i)(2) § 60.486a(i)(3) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|--------------------------|---------------------------------------|---|--|-------------------------------------|---|---|
| | | | | | | CFR Part 63, Subpart H, the requirements of §60.485a(d), (e), and (f), and §60.486a(i) and (j) still apply. | | | |
| FW-ENG | EU | 117-EMERG | Exempt | 30 TAC Chapter 117, Subchapter B | § 117.303(a)(6)(D) [G]§ 117.310(f) | Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average. | § 117.8140(a) § 117.8140(a)(3) | § 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |
| FW-ENG | EU | IIII-EMER2 | NMHC and NO _x | 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) | Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than 560 KW and a displacement of less than 30 liters per cylinder and is a 2008 model year and later must comply with an NMHC+NO _x emission limit of 6.4 g/KW-hr, as listed in Table 4 to this subpart. | None | None | [G]§ 60.4214(d) |
| FW-ENG | EU | IIII-EMER2 | PM | 40 CFR Part 60, Subpart IIII | § 60.4205(c)-Table 4 § 60.4206 | Owners and operators of emergency stationary fire pump CI ICE with 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) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|--|---|---|---|
| | | | | | § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) | maximum engine power greater than 560 KW and a displacement of less than 30 liters per cylinder and is a 2008 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. | | | |
| FW-ENG | EU | ZZZZ-EMER3 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6590(b)(1) § 63.6595(c) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3) | An affected source which meets either of the criteria in paragraphs §63.6590(b)(1)(i)-(ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f). | None | None | § 63.6645(f) |
| LABST-1 | EU | 115-VP1.5- | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| MSS-FLR | CD | R111-111a4 | Opacity | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(4)(A) | Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b). | § 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii) | § 111.111(a)(4)(A)(ii) | None |
| N14-C475 | EU | R117-01 | Exempt | 30 TAC Chapter 117, Subchapter B | § 117.303(a)(6)(D) [G]§ 117.310(f) | Units exempted from the provisions of this division, | § 117.8140(a) § 117.8140(a)(3) | § 117.340(j) § 117.345(f) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual 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 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. | | [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | |
| N14-C475 | EU | 63ZZZZ | 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 |
| OIL SEP | EU | OIL SEP-P | VOC | 30 TAC Chapter 115, Water Separation | § 115.137(a)(2) [G]§ 115.132(a)(4) | Any single or multiple compartment VOC water separator which separates materials having a true vapor pressure of VOC < .5 | [G]§ 115.135(a) § 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4) | § 115.136(a)(1) § 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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|---|
| | | | | | | psia obtained from any equipment is exempt from §115.132(a). | | | |
| PHEN-GEN | EU | R703 | 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. §117.303(a)(11)(A)-(B) | None | § 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |
| PHEN-GEN | EU | R7303 | 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 | § 117.8140(a) § 117.8140(a)(3) | § 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|--------------------------|---------------------------------------|--|--|-------------------------------------|---|---|
| | | | | | | on a rolling 12-month average. | | | |
| PHEN-GEN | EU | 60III-01 | CO | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 1039-Appendix I § 60.4202(a)(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 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-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I. | None | None | [G]§ 60.4214(d) |
| PHEN-GEN | EU | 60III-01 | NMHC and NO _x | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 1039-Appendix I § 60.4202(a)(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 75 KW and less than or equal to 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NO _x emission limit of 4.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I. | None | None | [G]§ 60.4214(d) |
| PHEN-GEN | EU | 60III-01 | PM | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 1039-Appendix I § 60.4202(a)(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 | 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 | or equal to 75 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 PM emission limit of 0.30 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I. | | | |
| PHEN-GEN | EU | 60III-01 | PM (Opacity) | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 1039.105(b)(1) § 1039.105(b)(2) § 1039.105(b)(3) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 | Emergency stationary CI ICE, that are not fire pump engines, with displacement < 10 lpc and not constant-speed engines, with max engine power < 2237 KW and a 2007 model year and later or max engine power > 2237 KW and a 2011 model year and later, must comply with following opacity emission limits: 20% during acceleration, 15% during lugging, 50% during peaks in either acceleration or lugging modes as stated in §60.4202(a)(1)-(2), (b)(2), and 40 CFR 1039.105(b)(1)-(3). | None | None | [G]§ 60.4214(d) |
| PHEN-GEN | EU | 63-ZZZZ | 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 | 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) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|---|---|---|
| | | | | | | 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. | | | |
| PIB1-MCPU | EP | 63FFFF-CPVFLR | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3) | For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare. | [G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii) | § 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5) | § 63.2450(f)(2)(ii) § 63.2450(q) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2) |
| PIB1-MCPU | EP | 63FFFF-CPVGP1 | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(a)-Table 1.1.a.i § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(c) § 63.982(c)(2) | For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by greater than or equal to 98 percent by weight by venting emissions through a closed- | [G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.2450(g) § 63.2450(g)(1) § 63.2450(g)(2) [G]§ 63.2450(g)(3) § 63.2450(g)(4) § 63.2450(j) | § 63.2450(k)(6) § 63.2525(g) § 63.2525(h) § 63.983(b) [G]§ 63.983(d)(2) § 63.996(c)(2)(ii) § 63.998(a)(2)(ii)(B)(5) [G]§ 63.998(b)(1) | § 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(q) § 63.996(b)(2) § 63.996(c)(6) § 63.997(c)(3) [G]§ 63.998(b)(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) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|---|--|---|
| | | | | | § 63.983(a)(1) § 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.988(a)(1) § 63.988(a)(2) § 63.988(a)(3) § 63.988(b)(2) § 63.996(c)(1) § 63.996(c)(2) § 63.996(c)(2)(i) § 63.996(c)(3) § 63.996(c)(4) § 63.996(c)(5) § 63.996(c)(6) § 63.997(c)(3) | vent system to any combination of control devices (except flare). | § 63.2450(j)(1) § 63.2450(j)(1)(i) § 63.2450(j)(2)(i) § 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(j)(4) § 63.2450(j)(5) § 63.2450(k)(6) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.996(b)(1) § 63.996(b)(1)(i) § 63.996(b)(2) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(iii) | [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) § 63.998(c)(2)(iii) § 63.998(c)(3)(iii) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5) | [G]§ 63.999(a)(1) [G]§ 63.999(b)(3) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) |
| PIB2-MCPU | EP | 63FFFF-CPVFLR | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) | For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare. | [G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) [G]§ 63.987(b)(3)(iii) § 63.987(b)(3)(iv) | § 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) | § 63.2450(f)(2)(ii) § 63.2450(q) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|---|---|--|--|
| | | | | | § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3) | | § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii) | [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5) | [G]§ 63.999(d)(1) [G]§ 63.999(d)(2) |
| PIB2-MCPU | EP | 63FFFF-CPVGP1 | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(a)-Table 1.1.a.i § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(c) § 63.982(c)(2) § 63.983(a)(1) § 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.988(a)(1) § 63.988(a)(2) § 63.988(a)(3) § 63.988(b)(2) § 63.996(c)(1) § 63.996(c)(2) § 63.996(c)(2)(i) § 63.996(c)(3) § 63.996(c)(4) § 63.996(c)(5) § 63.996(c)(6) § 63.997(c)(3) | For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by greater than or equal to 98 percent by weight by venting emissions through a closed-vent system to any combination of control devices (except flare). | [G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.2450(g) § 63.2450(g)(1) § 63.2450(g)(2) [G]§ 63.2450(g)(3) § 63.2450(g)(4) § 63.2450(j) § 63.2450(j)(1) § 63.2450(j)(1)(i) § 63.2450(j)(2)(i) § 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(j)(4) § 63.2450(j)(5) § 63.2450(k)(6) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.996(b)(1) § 63.996(b)(1)(i) § 63.996(b)(2) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(iii) | § 63.2450(k)(6) § 63.2525(g) § 63.2525(h) § 63.983(b) [G]§ 63.983(d)(2) § 63.996(c)(2)(ii) § 63.998(a)(2)(ii)(B)(5) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) § 63.998(c)(2)(iii) § 63.998(c)(3)(iii) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5) | § 63.2450(j)(2)(ii) § 63.2450(j)(2)(iii) § 63.2450(j)(3) § 63.2450(q) § 63.996(b)(2) § 63.996(c)(6) § 63.997(c)(3) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(b)(3) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|---|---|---|---|
| PIBWWSTP OH | EP | 63FFFF-CPVFLR | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3) | For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare. | [G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii) | § 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5) | § 63.2450(f)(2)(ii) § 63.2450(q) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2) |
| PRO-BD-CMPU | PRO | PRO-BD-P | 112(B) HAPS | 40 CFR Part 63, Subpart F | § 63.100(b) [G]§ 63.102(a) [G]§ 63.102(c) § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) [G]§ 63.104(e)(2) § 63.105(d) | Except as provided in paragraphs (b)(4) and (c) of this section, the provisions of subparts F, G, and H apply to chemical manufacturing process units that meet the criteria. | § 63.103(b)(1) § 63.103(b)(3) § 63.103(b)(4) [G]§ 63.103(b)(5) § 63.103(b)(6) [G]§ 63.104(b) | [G]§ 63.103(c) [G]§ 63.104(e)(2) [G]§ 63.104(f)(1) [G]§ 63.105(b) § 63.105(c) § 63.105(e) | § 63.103(b)(2) [G]§ 63.103(b)(5) [G]§ 63.103(d) [G]§ 63.104(f)(2) |
| PRO-HPIB-CMPU | PRO | PRO-HPIB-P | 112(B) HAPS | 40 CFR Part 63, Subpart F | § 63.100(b) [G]§ 63.102(a) [G]§ 63.102(c) § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) | Except as provided in paragraphs (b)(4) and (c) of this section, the provisions of subparts F, G, and H apply to chemical manufacturing process units that meet the criteria. | § 63.103(b)(1) § 63.103(b)(3) § 63.103(b)(4) [G]§ 63.103(b)(5) § 63.103(b)(6) [G]§ 63.104(b) | [G]§ 63.103(c) [G]§ 63.104(e)(2) [G]§ 63.104(f)(1) [G]§ 63.105(b) § 63.105(c) § 63.105(e) | § 63.103(b)(2) [G]§ 63.103(b)(5) [G]§ 63.103(d) [G]§ 63.104(f)(2) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|----------------|----------------|---------------------------------------|---|--|---|--|--|
| | | | | | [G]§ 63.104(e)(2) § 63.105(d) | | | | |
| PRO-IBE-CMPU | PRO | PRO-IBE-CMPU-P | 112(B) HAPS | 40 CFR Part 63, Subpart F | § 63.100(b) [G]§ 63.102(a) [G]§ 63.102(c) § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) [G]§ 63.104(e)(2) § 63.105(d) | Except as provided in paragraphs (b)(4) and (c) of this section, the provisions of subparts F, G, and H apply to chemical manufacturing process units that meet the criteria. | § 63.103(b)(1) § 63.103(b)(3) § 63.103(b)(4) [G]§ 63.103(b)(5) § 63.103(b)(6) [G]§ 63.104(b) | [G]§ 63.103(c) [G]§ 63.104(e)(2) [G]§ 63.104(f)(1) [G]§ 63.105(b) § 63.105(c) § 63.105(e) | § 63.103(b)(2) [G]§ 63.103(b)(5) [G]§ 63.103(d) [G]§ 63.104(f)(2) |
| PRO-MTBE-CMPU | PRO | PRO-MTBE-P | 112(B) HAPS | 40 CFR Part 63, Subpart F | § 63.100(b) [G]§ 63.102(a) [G]§ 63.102(c) § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) [G]§ 63.104(e)(2) § 63.105(d) | Except as provided in paragraphs (b)(4) and (c) of this section, the provisions of subparts F, G, and H apply to chemical manufacturing process units that meet the criteria. | § 63.103(b)(1) § 63.103(b)(3) § 63.103(b)(4) [G]§ 63.103(b)(5) § 63.103(b)(6) [G]§ 63.104(b) | [G]§ 63.103(c) [G]§ 63.104(e)(2) [G]§ 63.104(f)(1) [G]§ 63.105(b) § 63.105(c) § 63.105(e) | § 63.103(b)(2) [G]§ 63.103(b)(5) [G]§ 63.103(d) [G]§ 63.104(f)(2) |
| T-103 | EU | R5112 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|--|--|---|---|---|
| T-103 | EU | 63G | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.119(d) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(ii) § 63.119(c)(2)(i) § 63.119(c)(2)(ii) § 63.119(c)(2)(iii) § 63.119(c)(2)(iv) § 63.119(c)(2)(ix) § 63.119(c)(2)(v) § 63.119(c)(2)(vi) § 63.119(c)(2)(vii) § 63.119(c)(2)(viii) § 63.119(c)(2)(x) § 63.119(c)(2)(xi) § 63.119(c)(2)(xii) § 63.120(a)(4) § 63.120(a)(7) | External floating roofs converted to an internal floating roof (i.e., fixed roof installed above external floating roof) to comply with §63.119(a)(1) shall comply with §63.119(d)(1)-(2). | § 63.120(a)(2)(i) § 63.120(a)(2)(ii) | § 63.120(a)(4) § 63.123(a) § 63.123(e) § 63.123(g) [G]§ 63.152(a) | § 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.122(f) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii) |
| T-110 | 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 |
| T-111 | EU | R5112 | 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 |
| T-112 | EU | R5112 | 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. | | | |
| T-114 | EU | R5112 | 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) |
| T-114 | EU | 63G | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.119(d) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(i) § 63.119(c)(2)(i) § 63.119(c)(2)(ii) § 63.119(c)(2)(iii) § 63.119(c)(2)(iv) § 63.119(c)(2)(ix) § 63.119(c)(2)(v) § 63.119(c)(2)(vi) § 63.119(c)(2)(vii) § 63.119(c)(2)(viii) § 63.119(c)(2)(x) § 63.119(c)(2)(xi) § 63.119(c)(2)(xii) § 63.120(a)(4) § 63.120(a)(7) | External floating roofs converted to an internal floating roof (i.e., fixed roof installed above external floating roof) to comply with §63.119(a)(1) shall comply with §63.119(d)(1)-(2). | § 63.120(a)(2)(i) § 63.120(a)(2)(ii) | § 63.120(a)(4) § 63.123(a) § 63.123(e) § 63.123(g) [G]§ 63.152(a) | § 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.122(f) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|---|---|---|
| T-115 | EU | R5112 | 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) |
| T-115 | EU | 63G | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.119(d) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(i) § 63.119(c)(2)(i) § 63.119(c)(2)(ii) § 63.119(c)(2)(iii) § 63.119(c)(2)(iv) § 63.119(c)(2)(ix) § 63.119(c)(2)(v) § 63.119(c)(2)(vi) § 63.119(c)(2)(vii) § 63.119(c)(2)(viii) § 63.119(c)(2)(x) § 63.119(c)(2)(xi) § 63.119(c)(2)(xii) § 63.120(a)(4) § 63.120(a)(7) | External floating roofs converted to an internal floating roof (i.e., fixed roof installed above external floating roof) to comply with §63.119(a)(1) shall comply with §63.119(d)(1)-(2). | § 63.120(a)(2)(i) § 63.120(a)(2)(ii) | § 63.120(a)(4) § 63.123(a) § 63.123(e) § 63.123(g) [G]§ 63.152(a) | § 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.122(f) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii) |
| T-117 | 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)(6)(A) § 115.118(a)(7) | |
| T-118 | 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)(6)(A) § 115.118(a)(7) | None |
| T-119 | 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)(6)(A) § 115.118(a)(7) | None |
| T-155 | 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)(6)(A) § 115.118(a)(7) | None |
| T-1F-924 | EU | R5112 | 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 |
| T-204 | 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 | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|---|---|
| | | | | | | vapor pressure less than 1.5 psia is exempt from the requirements of this division. | | § 115.118(a)(7) | |
| T-205 | 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)(6)(A) § 115.118(a)(7) | None |
| T-206 | 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)(6)(A) § 115.118(a)(7) | None |
| T-31 | EU | R5112-1 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(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) |
| T-32 | EU | R5112-1 | VOC | 30 TAC Chapter 115, Storage of | § 115.112(e)(1) § 115.112(e)(2) | No person shall place, store, or hold VOC in any | § 115.114(a)(1) § 115.114(a)(1)(A) | § 115.118(a)(3) § 115.118(a)(5) | § 115.114(a)(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|---|---|
| | | | | VOCs | § 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) | 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 | § 115.118(a)(6)(C) § 115.118(a)(7) | |
| T-46 | 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)(6)(A) § 115.118(a)(7) | None |
| T-71 | EU | R5112-T71 | 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 | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|---|--|---|---|--|
| | | | | | | condensate. | | | |
| T-71 | EU | 63G-T71 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(ii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7) | Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6). | § 63.120(a)(2)(i) § 63.120(a)(2)(ii) | § 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a) | § 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii) |
| T-72 | EU | T-72-P | 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) |
| T-72 | EU | T-72-P | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.119(b) § 63.119(a)(1) | Tanks using a fixed roof and an internal floating roof | § 63.120(a)(2)(i) § 63.120(a)(2)(ii) | § 63.120(a)(4) § 63.123(a) | § 63.120(a)(5) § 63.120(a)(6) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|--|---|---|--|
| | | | | | [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(ii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7) | (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6). | | § 63.123(c) § 63.123(g) [G]§ 63.152(a) | § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii) |
| T-73 | EU | R5112-T73-P | 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) |
| T-73 | EU | 63G-T73-P | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(ii) | Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: | § 63.120(a)(2)(i) § 63.120(a)(2)(ii) | § 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a) | § 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|--|---|--|
| | | | | | § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7) | §63.119(b)(1)-(6). | | | § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii) |
| T-74 | EU | R5112-T74-P | 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) |
| T-74 | EU | 63G-T74-P | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) | Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6). | § 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii) | § 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a) | § 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|---|---|--|
| | | | | | § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7) | | | | [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii) |
| T-77 | EU | R5112-1 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(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) |
| T-78 | EU | R5112-P | 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 | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|---|---|
| | | | | | | 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. | | | |
| T-79 | EU | R5112-P | 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) |
| T-80 | EU | T-80-P | 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 | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|--|---|---|---|--|
| | | | | | | paragraph for crude oil and condensate. | | | |
| T-80 | EU | T-80-P | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(i) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7) | Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6). | § 63.120(a)(2)(i) § 63.120(a)(2)(ii) | § 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a) | § 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii) |
| T-81 | 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)(6)(A) § 115.118(a)(7) | None |
| T-82 | 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)(6)(A) § 115.118(a)(7) | None |
| T-82 | EU | 63-G | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.119(a)(3) | Group 2 tanks not using emissions averaging as prescribed by §63.150 shall | None | § 63.123(a) | § 63.152(c)(4)(iii) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|---|---|---|---|
| | | | | | | use record keeping methods in §63.123(a). Not required to comply with §63.119 to §63.123. | | | |
| T-83 | 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)(6)(A) § 115.118(a)(7) | None |
| T-84 | EU | R5112 | 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 |
| T-85 | 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 |
| T-86 | 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)(6)(A) § 115.118(a)(7) | None |
| T-87 | EU | R5112-1 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|--|--|--|---|--|
| | | | | | § 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) | 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. | | | |
| T-87 | EU | 63G-01 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7) | Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: §63.119(b)(1)-(6). | § 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii) | § 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a) | § 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii) |
| T-910549 | 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 |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|--|---|---|
| T-920396 | 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 |
| T-DIESEL | EU | R5112 | 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 |
| T-P1WW1 | EU | R5131 | VOC | 30 TAC Chapter 115, Water Separation | § 115.137(a)(2) [G]§ 115.132(a)(4) | Any single or multiple compartment VOC water separator which separates materials having a true vapor pressure of VOC < .5 psia obtained from any equipment is exempt from §115.132(a). | [G]§ 115.135(a) § 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4) | § 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4) | None |
| T-P1WW2 | EU | R5131 | VOC | 30 TAC Chapter 115, Water Separation | § 115.137(a)(2) [G]§ 115.132(a)(4) | Any single or multiple compartment VOC water separator which separates materials having a true vapor pressure of VOC < .5 psia obtained from any equipment is exempt from §115.132(a). | [G]§ 115.135(a) § 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4) | § 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4) | None |
| T-P2WW1 | EU | R5131 | VOC | 30 TAC Chapter 115, Water Separation | § 115.137(a)(2) [G]§ 115.132(a)(4) | Any single or multiple compartment VOC water separator which separates materials having a true vapor pressure of VOC < .5 psia obtained from any equipment is exempt from | [G]§ 115.135(a) § 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4) | § 115.136(a)(1) § 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) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|--|---|--|
| | | | | | | §115.132(a). | | | |
| T01 | EU | R5112 | 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 |
| TANK-TBD | EU | R5112-003 | 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 |
| TANK-TBD | EU | R5112-004 | 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) |
| TANK-TBD | EU | 63G-02 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.119(b) § 63.119(a)(1) [G]§ 63.119(b)(1) § 63.119(b)(2) § 63.119(b)(3)(iii) | Tanks using a fixed roof and an internal floating roof (defined in §63.111) to comply with §63.119(a)(1) must comply with: | § 63.120(a)(3)(i) § 63.120(a)(3)(ii) § 63.120(a)(3)(iii) | § 63.120(a)(4) § 63.123(a) § 63.123(c) § 63.123(g) [G]§ 63.152(a) | § 63.120(a)(5) § 63.120(a)(6) § 63.122(d) § 63.122(d)(1)(ii) § 63.122(d)(1)(iii) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|---|--|--|
| | | | | | § 63.119(b)(4) § 63.119(b)(5)(i) § 63.119(b)(5)(ii) § 63.119(b)(5)(iii) § 63.119(b)(5)(iv) § 63.119(b)(5)(v) § 63.119(b)(5)(vi) § 63.119(b)(5)(vii) [G]§ 63.119(b)(5)(viii) § 63.119(b)(6) § 63.120(a)(4) § 63.120(a)(7) | §63.119(b)(1)-(6). | | | § 63.122(d)(2)(ii) § 63.151(a)(7) [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(4)(ii) |
| TANKCAR | EU | R5211-1 | 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 |
| TANKCAR | EU | R5211-2 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.212(a)(1) § 115.212(a)(1)(B) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.212(a)(3)(E) § 115.214(a)(1)(B) § 115.214(a)(1)(C) | At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors from loading VOC with a true vapor pressure of 0.5 psia or greater must be controlled by one of the methods specified in § 115.212(a)(1)(A)-(C). | § 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(9) | § 115.216 § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B) | None |
| TANKCAR | EU | R5211-3 | VOC | 30 TAC Chapter 115, Loading and | § 115.212(a)(1) § 115.212(a)(1)(A) | At operations other than gasoline terminals, gasoline | § 115.212(a)(3)(B) § 115.214(a)(1)(A) | § 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) |
|---------------------------|-------------------------|---------------|-------------|--|--|--|---|---|--|
| | | | | Unloading of VOC | § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.212(a)(3)(E) § 115.214(a)(1)(B) § 115.214(a)(1)(C) § 60.18 | bulk plants, and marine terminals, vapors from loading VOC with a true vapor pressure of 0.5 psia or greater must be controlled by one of the methods specified in § 115.212(a)(1)(A)-(C). | § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) [G]§ 115.215(3) § 115.215(4) § 115.215(9) § 115.216(1) | § 115.216(1)(B) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B) | |
| TANKCAR | EU | R5211-4 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.212(a)(1) § 115.212(a)(1)(A) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.212(a)(3)(E) § 115.214(a)(1)(B) § 115.214(a)(1)(C) | At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors from loading VOC with a true vapor pressure of 0.5 psia or greater must be controlled by one of the methods specified in § 115.212(a)(1)(A)-(C). | § 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(9) ** See Periodic Monitoring Summary | § 115.216 § 115.216(1) § 115.216(1)(C) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B) | None |
| TANKCAR | EU | TANKCAR -F | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.126(a) § 63.126(a)(1) § 63.126(a)(2) § 63.126(a)(3) [G]§ 63.126(b)(4) § 63.126(f) § 63.126(g) | For Group 1 transfer racks shall operate a vapor collection system and control device for organic HAPs. | § 63.127(d)(2)(i) § 63.152(g)(1)(i) [G]§ 63.152(g)(1)(ii) § 63.152(g)(1)(iii) § 63.152(g)(1)(iv) [G]§ 63.152(g)(1)(v) | § 63.127(d)(2)(ii) § 63.129(a)(1) § 63.129(d) § 63.130(a)(2)(iii) § 63.130(b)(2) § 63.130(e) § 63.130(f) | § 63.129(a)(2) § 63.129(a)(3) § 63.129(a)(8) § 63.130(d)(1) § 63.130(d)(2) § 63.130(d)(3) § 63.130(d)(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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|---|
| | | | | | § 63.126(h) § 63.126(i) § 63.127(d)(2) § 63.127(d)(2)(ii) | | | § 63.130(f)(1) § 63.130(f)(2) § 63.130(f)(3) § 63.130(f)(3)(ii) [G]§ 63.152(a) [G]§ 63.152(f) § 63.152(g)(1) § 63.152(g)(1)(i) [G]§ 63.152(g)(1)(ii) § 63.152(g)(1)(iii) § 63.152(g)(1)(iv) [G]§ 63.152(g)(1)(v) [G]§ 63.152(g)(1)(vi) § 63.152(g)(2) § 63.152(g)(2)(i) § 63.152(g)(2)(ii) § 63.152(g)(2)(iii) | [G]§ 63.151(b) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(2) § 63.152(c)(2)(i) [G]§ 63.152(c)(2)(ii) § 63.152(c)(2)(iii) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(3)(ii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6) § 63.152(g)(1) § 63.152(g)(2)(i) § 63.152(g)(2)(ii) |
| ULTRA | EP | ULTRA-A1 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(1) § 115.121(a)(1) § 115.122(a)(1)(B) § 60.18 | Vent gas streams affected by §115.121(a)(1) must be controlled properly with a control efficiency of at least 90% or to a volatile organic compound (VOC) concentration of no more than 20 parts per million (ppmv) (on a dry basis corrected to 3.0% oxygen for combustion devices). | [G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) | § 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2) | None |

Additional Monitoring Requirements

Periodic Monitoring Summary 196

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|--------------------------------|
| ID No.: 1B-2501 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 117, Subchapter B | SOP Index No.: 1B-2501-P |
| Pollutant: CO | Main Standard: § 117.310(c)(1) |
| Monitoring Information | |
| Indicator: Heat Input | |
| Minimum Frequency: Hourly | |
| Averaging Period: One hour | |
| Deviation Limit: Maximum heat input = 98 MMBtu/hr | |
| <p>Periodic Monitoring Text: Measure and record the heat input on an hourly basis while the heater is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. The CO emissions are dependent on the heat input to IB-2501. Any monitoring data indicating that the heat input exceeds 98 MMBtu/hr, the permitted limit, shall be considered and reported as a deviation. The permitted CO emission limit in the NSR permit's Maximum Allowable Emission Rate table is based on that maximum heat input.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: 1B505 EXH | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: 115-111-02BLR |
| Pollutant: Opacity | Main Standard: § 111.111(a)(1)(C) |
| Monitoring Information | |
| Indicator: Fuel Type | |
| Minimum Frequency: Annually | |
| Averaging Period: N/A | |
| Deviation Limit: It will be considered a deviation if an alternate fuel is fired other than natural gas or plant fuel gas. | |
| Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, it shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: 1B506 EXH | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: 115-111-02BLR |
| Pollutant: Opacity | Main Standard: § 111.111(a)(1)(C) |
| Monitoring Information | |
| Indicator: Fuel Type | |
| Minimum Frequency: Annually | |
| Averaging Period: N/A | |
| Deviation Limit: It will be considered a deviation if an alternate fuel is fired other than natural gas or plant fuel gas. | |
| Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, it shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: BLR-9EXH | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: 115-111-01BLR |
| Pollutant: Opacity | Main Standard: § 111.111(a)(1)(C) |
| Monitoring Information | |
| Indicator: Fuel Type | |
| Minimum Frequency: Annually | |
| Averaging Period: N/A | |
| Deviation Limit: It will be considered a deviation if an alternate fuel is fired other than natural gas or plant off gas. | |
| Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, it shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: BOILER10 EXH | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: 115-111-02BLR |
| Pollutant: Opacity | Main Standard: § 111.111(a)(1)(C) |
| Monitoring Information | |
| Indicator: Fuel Type | |
| Minimum Frequency: Annually | |
| Averaging Period: N/A | |
| Deviation Limit: It will be considered a deviation if an alternate fuel is fired other than natural gas, plant off gas, VAU off gas, or DH2 off gas. | |
| Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, it shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: BOILER11 EXH | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: 115-111-02BLR |
| Pollutant: Opacity | Main Standard: § 111.111(a)(1)(C) |
| Monitoring Information | |
| Indicator: Fuel Type | |
| Minimum Frequency: Annually | |
| Averaging Period: N/A | |
| Deviation Limit: It will be considered a deviation if an alternate fuel is fired other than natural gas, plant off gas, VAU off gas, or DH2 off gas. | |
| Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, it shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|---|
| ID No.: COMB 1B-505V | |
| Control Device ID No.: 1B-505 | Control Device Type: Steam generating unit (boiler)/process heater (design heat input is greater than or equal to 44 megawatts) |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: 115-121-01BLR |
| Pollutant: VOC | Main Standard: § 115.122(a)(1) |
| Monitoring Information | |
| Indicator: Combustion Temperature / Exhaust Gas Temperature | |
| Minimum Frequency: once per week | |
| Averaging Period: N/A | |
| Deviation Limit: It will be considered a deviation if the combustion chamber temperature drops below 700 F. This limit does not apply during MSS or when off gas is not being routed to the boiler. | |
| Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber into which the volatile organic compound is introduced. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|---|
| ID No.: COMB 1B-505V | |
| Control Device ID No.: 1B-505 | Control Device Type: Steam generating unit (boiler)/process heater (design heat input is greater than or equal to 44 megawatts) |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: 115-121-02BLR |
| Pollutant: VOC | Main Standard: § 115.122(a)(2) |
| Monitoring Information | |
| Indicator: Combustion Temperature / Exhaust Gas Temperature | |
| Minimum Frequency: once per week | |
| Averaging Period: N/A | |
| Deviation Limit: It will be considered a deviation if the combustion chamber temperature drops below 700 F. This limit does not apply during MSS or when off gas is not being routed to the boiler. | |
| Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber into which the volatile organic compound is introduced. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|---|
| ID No.: COMB 1B-506V | |
| Control Device ID No.: 1B-506 | Control Device Type: Steam generating unit (boiler)/process heater (design heat input is greater than or equal to 44 megawatts) |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: 115-121-01BLR |
| Pollutant: VOC | Main Standard: § 115.122(a)(1) |
| Monitoring Information | |
| Indicator: Combustion Temperature / Exhaust Gas Temperature | |
| Minimum Frequency: once per week | |
| Averaging Period: N/A | |
| Deviation Limit: It will be considered a deviation if the combustion chamber temperature drops below 700 F. This limit does not apply during MSS or when off gas is not being routed to the boiler. | |
| Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber into which the volatile organic compound is introduced. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|---|
| ID No.: COMB 1B-506V | |
| Control Device ID No.: 1B-506 | Control Device Type: Steam generating unit (boiler)/process heater (design heat input is greater than or equal to 44 megawatts) |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: 115-121-02BLR |
| Pollutant: VOC | Main Standard: § 115.122(a)(2) |
| Monitoring Information | |
| Indicator: Combustion Temperature / Exhaust Gas Temperature | |
| Minimum Frequency: once per week | |
| Averaging Period: N/A | |
| Deviation Limit: It will be considered a deviation if the combustion chamber temperature drops below 700 F. This limit does not apply during MSS or when off gas is not being routed to the boiler. | |
| Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber into which the volatile organic compound is introduced. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|---|
| ID No.: COMB BLR 9V | |
| Control Device ID No.: BLR-9 | Control Device Type: Steam generating unit (boiler)/process heater (design heat input is greater than or equal to 44 megawatts) |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: 115-121-01BLR |
| Pollutant: VOC | Main Standard: § 115.122(a)(1) |
| Monitoring Information | |
| Indicator: Combustion Temperature / Exhaust Gas Temperature | |
| Minimum Frequency: once per week | |
| Averaging Period: N/A | |
| Deviation Limit: It will be considered a deviation if the post combustion chamber vent stream temperature drops below 400 F. This limit does not apply during MSS or when off gas is not being routed to the boiler. | |
| Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber into which the volatile organic compound is introduced. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|---|
| ID No.: COMB BLR 9V | |
| Control Device ID No.: BLR-9 | Control Device Type: Steam generating unit (boiler)/process heater (design heat input is greater than or equal to 44 megawatts) |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: 115-121-02BLR |
| Pollutant: VOC | Main Standard: § 115.122(a)(2) |
| Monitoring Information | |
| Indicator: Combustion Temperature / Exhaust Gas Temperature | |
| Minimum Frequency: once per week | |
| Averaging Period: N/A | |
| Deviation Limit: It will be considered a deviation if the post combustion chamber vent stream temperature drops below 400 F. This limit does not apply during MSS or when off gas is not being routed to the boiler. | |
| Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber into which the volatile organic compound is introduced. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|---|
| ID No.: COMB BLR10/11V | |
| Control Device ID No.: BOILER 10 | Control Device Type: Steam generating unit (boiler)/process heater (design heat input is greater than or equal to 44 megawatts) |
| Control Device ID No.: BOILER 11 | Control Device Type: Steam generating unit (boiler)/process heater (design heat input is greater than or equal to 44 megawatts) |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: 115-121-01BLR |
| Pollutant: VOC | Main Standard: § 115.122(a)(1) |
| Monitoring Information | |
| Indicator: Combustion Temperature / Exhaust Gas Temperature | |
| Minimum Frequency: once per week | |
| Averaging Period: N/A | |
| Deviation Limit: It will be considered a deviation if the combustion chamber temperature drops below 800 F. This limit does not apply during MSS or when off gas is not being routed to the boiler. | |
| Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber into which the volatile organic compound is introduced. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|---|
| ID No.: COMB BLR10/11V | |
| Control Device ID No.: BOILER 10 | Control Device Type: Steam generating unit (boiler)/process heater (design heat input is greater than or equal to 44 megawatts) |
| Control Device ID No.: BOILER 11 | Control Device Type: Steam generating unit (boiler)/process heater (design heat input is greater than or equal to 44 megawatts) |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: 115-121-02BLR |
| Pollutant: VOC | Main Standard: § 115.122(a)(2) |
| Monitoring Information | |
| Indicator: Combustion Temperature / Exhaust Gas Temperature | |
| Minimum Frequency: once per week | |
| Averaging Period: N/A | |
| Deviation Limit: It will be considered a deviation if the combustion chamber temperature drops below 800 F. This limit does not apply during MSS or when off gas is not being routed to the boiler. | |
| Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber into which the volatile organic compound is introduced. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------|
| ID No.: DEGREAS1 | |
| 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 |
| Pollutant: VOC | Main Standard: § 115.412(1) |
| Monitoring Information | |
| Indicator: Visual Inspection | |
| Minimum Frequency: Monthly | |
| Averaging Period: N/A | |
| Deviation Limit: Visual Inspection | |
| 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.: DEGREAS2 | |
| 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 |
| Pollutant: VOC | Main Standard: § 115.412(1) |
| Monitoring Information | |
| Indicator: Visual Inspection | |
| Minimum Frequency: Monthly | |
| Averaging Period: N/A | |
| Deviation Limit: Visual Inspection | |
| 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.: DOCK-TO EXH | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: 115-111-01TO |
| Pollutant: Opacity | Main Standard: § 111.111(a)(1)(C) |
| Monitoring Information | |
| Indicator: Fuel Type | |
| Minimum Frequency: Annually | |
| Averaging Period: N/A | |
| Deviation Limit: It will be considered a deviation if an alternate fuel is fired other than natural gas. | |
| Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, it shall be considered and reported as a deviation. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|---|
| ID No.: F-TTR | |
| Control Device ID No.: CVS | Control Device Type: Vapor collection system (closed vent system) |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Loading and Unloading of VOC | SOP Index No.: R5211-4 |
| Pollutant: VOC | Main Standard: § 115.212(a)(1) |
| Monitoring Information | |
| Indicator: VOC Concentration | |
| Minimum Frequency: Once per year | |
| Averaging Period: N/A | |
| Deviation Limit: VOC Concentration shall not exceed 250 ppm. | |
| 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.: F-TTR | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Loading and Unloading of VOC | SOP Index No.: R5211-4 |
| Pollutant: VOC | Main Standard: § 115.212(a)(1) |
| Monitoring Information | |
| Indicator: Visual Inspection | |
| Minimum Frequency: Once per year | |
| Averaging Period: N/A | |
| Deviation Limit: Defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices shall be considered and reported as a deviation. | |
| Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|---|
| ID No.: TANKCAR | |
| Control Device ID No.: CVS | Control Device Type: Vapor collection system (closed vent system) |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Loading and Unloading of VOC | SOP Index No.: R5211-4 |
| Pollutant: VOC | Main Standard: § 115.212(a)(1) |
| Monitoring Information | |
| Indicator: VOC Concentration | |
| Minimum Frequency: Once per year | |
| Averaging Period: N/A | |
| Deviation Limit: VOC Concentration shall not exceed 250 ppm. | |
| 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.: TANKCAR | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Loading and Unloading of VOC | SOP Index No.: R5211-4 |
| Pollutant: VOC | Main Standard: § 115.212(a)(1) |
| Monitoring Information | |
| Indicator: Visual Inspection | |
| Minimum Frequency: Once per year | |
| Averaging Period: N/A | |
| Deviation Limit: Defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices shall be considered and reported as a deviation. | |
| Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions. | |

Permit Shield

Permit Shield 218

Permit Shield

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

| Unit / Group / Process ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|-------------------------------------|---|
| 18F-2664 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel is subject to 30 TAC 115, Industrial Waste Water requirements. Therefore this vessel is exempt from 30 TAC 115 Storage Tank requirements |
| 18F-2664 | N/A | 40 CFR Part 60, Subpart Kb | Emission Unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is only required to comply only with the provisions of MACT G |
| 18F-2665 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel is subject to 30 TAC 115, Industrial Waste Water requirements. Therefore this vessel is exempt from 30 TAC 115 Storage Tank requirements |
| 18F-2665 | N/A | 40 CFR Part 60, Subpart Kb | Emission Unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is only required to comply only with the provisions of MACT G |
| 18F-2667 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel is subject to 30 TAC 115, Industrial Wastewater requirements. Therefore this vessel is exempt from 30 TAC 115 Storage Tank requirements |
| 18F-2667 | N/A | 40 CFR Part 60, Subpart Kb | Emission Unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is only required to comply only with the provisions of MACT G |
| 18F-2668 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel is subject to 30 TAC 115, Industrial Wastewater requirements. Therefore this vessel is exempt from 30 TAC 115 Storage Tank requirements |

Permit Shield

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

| Unit / Group / Process ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|-------------------------------------|---|
| 18F-2668 | N/A | 40 CFR Part 60, Subpart Kb | Emission Unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is only required to comply only with the provisions of MACT G |
| 18F-2669 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel is subject to 30 TAC 115, Industrial Wastewater requirements. Therefore this vessel is exempt from 30 TAC 115 Storage Tank requirements |
| 18F-2669 | N/A | 40 CFR Part 60, Subpart Kb | Emission Unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is only required to comply only with the provisions of MACT G |
| 18F-2670 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel is subject to 30 TAC 115, Industrial Wastewater requirements. Therefore this vessel is exempt from 30 TAC 115 Storage Tank requirements |
| 18F-2670 | N/A | 40 CFR Part 60, Subpart Kb | Emission Unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is only required to comply only with the provisions of MACT G |
| 18F-2671 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel is subject to 30 TAC 115, Industrial Wastewater requirements. Therefore this vessel is exempt from 30 TAC 115 Storage Tank requirements |
| 18F-2671 | N/A | 40 CFR Part 60, Subpart Kb | Emission Unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is only required to comply only with the provisions of MACT G |

Permit Shield

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

| Unit / Group / Process ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|---------------------------------------|---|
| 18F-2672 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel is subject to 30 TAC 115, Industrial Wastewater requirements. Therefore this vessel is exempt from 30 TAC 115 Storage Tank requirements |
| 18F-2672 | N/A | 40 CFR Part 60, Subpart Kb | Emission Unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is only required to comply only with the provisions of MACT G |
| 1B-2501 | N/A | 30 TAC Chapter 115, Vent Gas Controls | The heater is a combustion exhaust stream from a unit which is not being used as a control device for any vent gas stream. |
| 1B-2501 | N/A | 40 CFR Part 60, Subpart Dc | This unit is a process heater and does not meet the definition of steam generating unit. |
| 1B-2502 | N/A | 40 CFR Part 63, Subpart DDDDD | Process heater is a waste heat process heater which is excluded from the 40 CFR Subpart DDDDD process heater definition. |
| 1B-505 | N/A | 40 CFR Part 63, Subpart DDDDD | Boiler is a waste heat boiler which is excluded from the 40 CFR 63 Subpart DDDDD boiler definition. |
| 1B-506 | N/A | 40 CFR Part 63, Subpart DDDDD | Boiler is a waste heat boiler which is excluded from the 40 CFR Part 63 DDDDD boiler definition. |
| 1B505 EXH | N/A | 30 TAC Chapter 115, Vent Gas Controls | Combustion unit exhaust stream is exempt from this division because the unit is not being used as a control device for any vent gas steam subject to this division and which originates from a non-combustion source. |
| 1B506 EXH | N/A | 30 TAC Chapter 115, Vent Gas Controls | Combustion unit exhaust stream is 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 ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|---------------------------------------|---|
| | | | this division because the unit is not being used as a control device for any vent gas steam subject to this division and which originates from a non-combustion source. |
| 1D-502 | N/A | 30 TAC Chapter 115, HRVOC Vent Gas | The tower is not a vent stream and HRVOC is less than 100 ppmv. |
| 1D-502 | N/A | 30 TAC Chapter 115, Vent Gas Controls | The quench oil tower does not have a vent stream. |
| 1D-502 | N/A | 40 CFR Part 60, Subpart NNN | The tower does not meet the definition of distillation unit in 40 CFR 60.661. |
| 1F-4455 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel stores material other than VOC. |
| 1F-4455 | N/A | 40 CFR Part 60, Subpart Kb | Material of storage is not a volatile organic compound. |
| 1F-511 | N/A | 40 CFR Part 60, Subpart Kb | Tank capacity is less than 75 cubic meters. |
| 1F-963 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel stores material other than VOC |
| 1F-963 | N/A | 40 CFR Part 60, Subpart Kb | Material of storage is not a volatile organic compound. |
| 1G-2520T | N/A | 30 TAC Chapter 117, Subchapter B | Unit is a stationary gas turbine used as a chemical processing gas turbine. |
| 1G-2520T | N/A | 40 CFR Part 60, Subpart GG | Turbine was reconstructed after 06/04/2010 and NSPS KKKK is now applicable. |
| 1G-2520T | N/A | 40 CFR Part 63, Subpart DDDDD | The source is a turbine which does not meet the boiler or process heater definition under 40 CFR 63 Subpart DDDDD. |
| 1G-2520T | N/A | 40 CFR Part 63, Subpart YYYY | Duct burners are considered steam generating |

Permit Shield

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

| Unit / Group / Process ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|-------------------------------|---|
| | | | units and are not covered under this subpart. |
| 1G-901T | N/A | 40 CFR Part 60, Subpart GG | Turbine was reconstructed after 06/04/2010 and NSPS KKKK is now applicable. |
| 1G-901T | N/A | 40 CFR Part 63, Subpart DDDDD | The source is a turbine which does meet the boiler or process definition under 40 CFR Part 63 Subpart DDDDD. |
| 1G-901T | N/A | 40 CFR Part 63, Subpart YYYY | Duct burners are considered steam generating units and are not covered under this subpart. |
| 20DG-16 | N/A | 40 CFR Part 60, Subpart IIII | Stationary CI ICE commenced construction, reconstruction, or modification on or before July 11, 2005. |
| 21G-2216 | N/A | 40 CFR Part 60, Subpart IIII | Stationary CI ICE commenced construction, reconstruction, or modification on or before July 11, 2005. |
| 2D-68 | N/A | 40 CFR Part 63, Subpart FFFF | Unit is a waste management unit subject to the provisions of MACT FFFF and MACT G. Unit is only required to comply with the provisions of MACT G. |
| 2F-26 | N/A | 40 CFR Part 60, Subpart Kb | Tank capacity is less than 75 cubic meters |
| 31F-2030 | N/A | 40 CFR Part 60, Subpart Kb | Vessel has a maximum capacity of less than 75 cubic meters. |
| 31G-2350 | N/A | 40 CFR Part 60, Subpart IIII | CI ICE that commenced construction after July 11, 2005, and was manufactured after April 1, 2006, and is not a fire pump engine. |
| 3DG-14 | N/A | 40 CFR Part 60, Subpart IIII | Stationary CI ICE commenced construction, reconstruction, or modification on or before July |

Permit Shield

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

| Unit / Group / Process ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|---------------------------------------|--|
| | | | 11, 2005. |
| 4D-1 | N/A | 40 CFR Part 63, Subpart F | Unit is located within a flexible operating unit in which non-HON service predominates. |
| 4D-1510 | N/A | 40 CFR Part 63, Subpart FFFF | Unit is a waste management unit subject to the provisions of MACT FFFF and MACT G. Unit is only required to comply with the provisions of MACT G. |
| 4F-14 | N/A | 40 CFR Part 60, Subpart Kb | Tank capacity is less than 75 cubic meters |
| 4F-4473 | N/A | 40 CFR Part 60, Subpart Kb | Tank capacity is less than 75 cubic meters. |
| 5F-3 | N/A | 40 CFR Part 60, Subpart Kb | Tank capacity is less than 75 cubic meters |
| 6F-433 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel stores material other than VOC |
| BLR-9EXH | N/A | 30 TAC Chapter 115, Vent Gas Controls | Combustion unit exhaust stream is exempt from this division because the unit is not being used as a control device for any vent gas steam subject to this division and which originates from a non-combustion source. |
| BOILER10 | N/A | 30 TAC Chapter 112, Sulfur Compounds | BOILER10 is not a liquid fuel-fired unit. |
| BOILER10 | N/A | 40 CFR Part 72 | Quantity of power supplied to grid has never exceeded an annual average of more than one-third of the facility's potential electrical capacity and the annual electric output of the system continues to be less than 219,000 MWe. |
| BOILER10 | N/A | 40 CFR Part 96 | Quantity of power supplied to grid has never exceeded an annual average of more than one-third of the facility's potential electrical capacity and the annual electric output of the system |

Permit Shield

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

| Unit / Group / Process ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|---------------------------------------|--|
| | | | continues to be less than 219,000 MWe. |
| BOILER10 EXH | N/A | 30 TAC Chapter 115, Vent Gas Controls | Combustion unit exhaust stream is exempt from this division because the unit is not being used as a control device for any vent gas steam subject to this division and which originates from a non-combustion source. |
| BOILER11 | N/A | 30 TAC Chapter 112, Sulfur Compounds | BOILER11 is not a liquid fuel-fired unit. |
| BOILER11 | N/A | 40 CFR Part 72 | Quantity of power supplied to grid has never exceeded an annual average of more than one-third of the facility's potential electrical capacity and the annual electric output of the system continues to be less than 219,000 MWe. |
| BOILER11 | N/A | 40 CFR Part 96 | Quantity of power supplied to grid has never exceeded an annual average of more than one-third of the facility's potential electrical capacity and the annual electric output of the system continues to be less than 219,000 MWe. |
| BOILER11 EXH | N/A | 30 TAC Chapter 115, Vent Gas Controls | Combustion unit exhaust stream is exempt from this division because the unit is not being used as a control device for any vent gas steam subject to this division and which originates from a non-combustion source. |
| C-5 | N/A | 40 CFR Part 63, Subpart FFFF | Operations do not meet the definition of a transfer rack because tank trucks or railcars are not being filled. |
| C-5 | N/A | 40 CFR Part 63, Subpart G | Operations do not meet the definition of a transfer operation or transfer rack because tank trucks or railcars are not being filled. |

Permit Shield

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

| Unit / Group / Process ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|---------------------------------------|--|
| COMB 1B-505V | N/A | 40 CFR Part 63, Subpart FFFF | Combined vent does not include any HON process vents. |
| COMB 1B-505V | N/A | 40 CFR Part 63, Subpart G | Combined vent does not include any HON process vents. |
| COMB 1B-506V | N/A | 40 CFR Part 63, Subpart FFFF | Combined vent does not include any MON process vents. |
| COMB 1B-506V | N/A | 40 CFR Part 63, Subpart G | Combined vent does not include any HON process vents. |
| COMB BLR 9V | N/A | 40 CFR Part 63, Subpart FFFF | The vent doesn't meet the definition of a MON process vent since it is going to a fuel gas system. |
| COMB BLR 9V | N/A | 40 CFR Part 63, Subpart G | The vent doesn't meet the definition of a HON process vent since it is going to a fuel gas system. |
| COMB BLR10/11V | N/A | 40 CFR Part 63, Subpart FFFF | The vent doesn't meet the definition of a MON process vent since it is going to a fuel gas system. |
| COMB BLR10/11V | N/A | 40 CFR Part 63, Subpart G | The vent doesn't meet the definition of a HON process vent since it is going to a fuel gas system. |
| COMB DOCK-TOV | N/A | 30 TAC Chapter 115, Vent Gas Controls | Vent gas stream originates from a source for which another division of 115 has an established control requirement. |
| COMB E-563V | N/A | 30 TAC Chapter 115, Vent Gas Controls | Vent gas stream originates from a source for which another division of 115 has an established control requirement. |

Permit Shield

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

| Unit / Group / Process ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|-------------------------------------|--|
| DEGREAS1 | N/A | 40 CFR Part 63, Subpart T | Cleaners do not use solvents containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, or chloroform, or any combination of these halogenated HAP solvents |
| DEGREAS2 | N/A | 40 CFR Part 63, Subpart T | Cleaners do not use solvents containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, or chloroform, or any combination of these halogenated HAP solvents |
| DH2 UNIT | N/A | 40 CFR Part 63, Subpart F | The DH2 unit does not process, use, or generate any organic HAP. |
| DH2 UNIT | N/A | 40 CFR Part 63, Subpart FFFF | The DH2 unit does not process, use, or generate any organic HAP. |
| ETBE TOWERS | N/A | 40 CFR Part 60, Subpart NNN | The towers are not part of a process unit that produces any of the chemicals listed in 40 CFR 60.667. |
| GAS-2 | N/A | 30 TAC Chapter 115, Storage of VOCs | The tank is in motor vehicle fuel dispensing service and has a nominal capacity of less than 25,000 gallons. |
| GAS-2 | N/A | 40 CFR Part 60, Subpart Kb | The vessel has a design capacity of less than 40 cubic meters (10,600 gal). |
| IC8 TOWERS | N/A | 40 CFR Part 60, Subpart NNN | The towers are not part of a process unit that produce any of the chemicals listed in 40 CFR Part 60.667. |
| LABST-1 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity less than or equal to 75 cubic meters (m3). |

Permit Shield

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

| Unit / Group / Process ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|-------------------------------------|---|
| MSS-FLR | N/A | 40 CFR Part 60, Subpart A | Flare is not a control device used to comply with applicable subparts of 40 CFR Part 60 and Part 61. |
| MSS-FLR | N/A | 40 CFR Part 63, Subpart A | Flare is not a control device used to comply with applicable subparts of 40 CFR Part 63. |
| N14-C475 | N/A | 40 CFR Part 60, Subpart IIII | CI ICE that commenced construction after July 11, 2005, and was manufactured after April 1, 2006, and is not a fire pump engine. |
| T-100 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel stores material other than VOC |
| T-100 | N/A | 40 CFR Part 60, Subpart Kb | This vessel stores material other than VOC |
| T-101 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel stores material other than VOCs |
| T-101 | N/A | 40 CFR Part 60, Subpart Kb | This vessel stores material other than VOL |
| T-102 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel stores material other than VOC |
| T-102 | N/A | 40 CFR Part 60, Subpart Kb | This vessel stores material other than VOC |
| T-103 | N/A | 40 CFR Part 60, Subpart Kb | Emission unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is only required to comply with the provisions of MACT G. |
| T-105 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel stores material other than VOC |
| T-105 | N/A | 40 CFR Part 60, Subpart Kb | This vessel stores material other than VOC |
| T-106 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel stores material other than VOC |
| T-106 | N/A | 40 CFR Part 60, Subpart Kb | This vessel stores material other than VOC |
| T-107 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel stores material other than VOCs |
| T-107 | N/A | 40 CFR Part 60, Subpart Kb | This vessel stores material other than 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 ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|-------------------------------------|---|
| T-108 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel stores material other than VOCs |
| T-108 | N/A | 40 CFR Part 60, Subpart Kb | This vessel stores material other than VOC |
| T-110 | N/A | 40 CFR Part 60, Subpart Kb | Vessel has a maximum capacity of less than 75 cubic meters. |
| T-111 | N/A | 40 CFR Part 60, Subpart Kb | Vessel has a maximum capacity of less than 75 cubic meters. |
| T-112 | N/A | 40 CFR Part 60, Subpart Kb | Vessel has a maximum capacity of less than 75 cubic meters. |
| T-114 | N/A | 40 CFR Part 60, Subpart Kb | Emission Unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is only required to comply only with the provisions of MACT G |
| T-115 | N/A | 40 CFR Part 60, Subpart Kb | Emission Unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is only required to comply only with the provisions of MACT G |
| T-117 | N/A | 40 CFR Part 60, Subpart Kb | Tank capacity is greater than 151 cubic meters storing VOC with true vapor pressure at storage conditions less than 3.5 kPa |
| T-118 | N/A | 40 CFR Part 60, Subpart Kb | Tank capacity is greater than 151 cubic meters storing VOC with true vapor pressure at storage conditions less than 3.5 kPa |
| T-119 | N/A | 40 CFR Part 60, Subpart Kb | Tank capacity is greater than 151 cubic meters storing VOC with true vapor pressure at storage conditions less than 3.5 kPa |
| T-155 | N/A | 40 CFR Part 60, Subpart Kb | Construction reconstruction or modification of |

Permit Shield

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

| Unit / Group / Process ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|-------------------------------------|--|
| | | | this tank was commenced before 07/23/1984. |
| T-1F-924 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity less than or equal to 75 cubic meters (m3). |
| T-204 | N/A | 40 CFR Part 60, Subpart Kb | Storage capacity is greater than or equal to 151 m3 storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (kPa). |
| T-205 | N/A | 40 CFR Part 60, Subpart Kb | Storage capacity is greater than or equal to 151 m3 storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (kPa). |
| T-206 | N/A | 40 CFR Part 60, Subpart Kb | Storage capacity is greater than or equal to 151 m3 storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (kPa). |
| T-31 | N/A | 40 CFR Part 60, Subpart Kb | Construction reconstruction or modification of this tank was commenced before 07/23/1984. |
| T-32 | N/A | 40 CFR Part 60, Subpart Kb | Construction reconstruction or modification of this tank was commenced before 07/23/1984. |
| T-428 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel stores material other than VOC |
| T-46 | N/A | 40 CFR Part 60, Subpart Kb | Storage capacity is greater than or equal to 151 m3 storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (kPa). |
| T-71 | N/A | 40 CFR Part 60, Subpart Kb | Emission unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is required to comply with the provisions of MACT G. |
| T-72 | N/A | 40 CFR Part 60, Subpart Kb | Emission unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the |

Permit Shield

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

| Unit / Group / Process ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|----------------------------|--|
| | | | provisions of NSPS Kb. Unit is required to comply with the provisions of MACT G. |
| T-73 | N/A | 40 CFR Part 60, Subpart Kb | Emission unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is required to comply with the provisions of MACT G. |
| T-74 | N/A | 40 CFR Part 60, Subpart Kb | Emission unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is required to comply with the provisions of MACT G. |
| T-77 | N/A | 40 CFR Part 60, Subpart Kb | Construction, reconstruction, or modification of this tank was commenced before 07/23/1984 |
| T-78 | N/A | 40 CFR Part 60, Subpart Kb | Construction, reconstruction, or modification of this tank was commenced before 07/23/1984 |
| T-79 | N/A | 40 CFR Part 60, Subpart Kb | Construction, reconstruction, or modification of this tank was commenced before 07/23/1984 |
| T-80 | N/A | 40 CFR Part 60, Subpart Kb | Emission unit is a MACT G Group1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is required to comply with the provisions of MACT G. |
| T-81 | N/A | 40 CFR Part 60, Subpart Kb | Tank capacity is greater than 151 cubic meters storing VOC with true vapor pressure at storage conditions less than 3.5 kPa |
| T-82 | N/A | 40 CFR Part 60, Subpart Kb | Tank capacity is greater than 151 cubic meters storing VOC with true vapor pressure at storage conditions less than 3.5 kPa |
| T-83 | N/A | 40 CFR Part 60, Subpart Kb | Tank capacity is greater than 151 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 ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|-------------------------------------|--|
| | | | storing VOC with true vapor pressure at storage conditions less than 3.5 kPa. |
| T-84 | N/A | 40 CFR Part 60, Subpart Kb | Construction reconstruction or modification of this tank was commenced before 07/23/1984. |
| T-85 | N/A | 40 CFR Part 60, Subpart Kb | Construction reconstruction or modification of this tank was commenced before 07/23/1984. |
| T-86 | N/A | 40 CFR Part 60, Subpart Kb | Tank capacity is greater than 151 cubic meters storing VOC with true vapor pressure at storage conditions less than 3.5 kPa |
| T-87 | N/A | 40 CFR Part 60, Subpart Kb | Emission Unit is a MACT G Group 1 or Group 2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is only required to comply only with the provisions of MACT G. |
| T-910549 | N/A | 40 CFR Part 60, Subpart Kb | Tank has a capacity < 19,800 gallons |
| T-920396 | N/A | 40 CFR Part 60, Subpart Kb | Tank has a capacity < 19,800 gallons |
| T-94 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel stores material other than VOC. |
| T-94 | N/A | 40 CFR Part 60, Subpart Kb | This vessel is not used for the storage of volatile organic liquids. |
| T-99 | N/A | 30 TAC Chapter 115, Storage of VOCs | This vessel stores material other than VOC. |
| T-99 | N/A | 40 CFR Part 60, Subpart Kb | This vessel is not used for the storage of volatile organic liquids. |
| T-DIESEL | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity less than or equal to 75 cubic meters (m3). |
| T-MEOHTOTE | N/A | 30 TAC Chapter 115, Storage of VOCs | The capacity of the methanol tote is less than 1,000 gallons. |

Permit Shield

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

| Unit / Group / Process ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|---|---|
| T-P1WW1 | N/A | 30 TAC Chapter 115, Industrial Wastewater | The stream entering the separator does not meet the definition of an affected wastewater source. |
| T-P1WW2 | N/A | 30 TAC Chapter 115, Industrial Wastewater | The stream entering the separator does not meet the definition of an affected wastewater source. |
| T-P2WW1 | N/A | 30 TAC Chapter 115, Industrial Wastewater | The stream entering the separator does not meet the definition of an affected wastewater source. |
| T01 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity less than or equal to 75 cubic meters (m3). |
| TANK-TBD | N/A | 40 CFR Part 60, Subpart Kb | Emission unit is a MACT Group 1 or Group2 storage vessel that is also subject to the provisions of NSPS Kb. Unit is only required to comply only with the provisions of MACT G. |

New Source Review Authorization References

New Source Review Authorization References 234

New Source Review Authorization References by Emission Unit 236

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.: GHGPSDTX201 | Issuance Date: 08/13/2025 |
| PSD Permit No.: GHGPSDTX202 | Issuance Date: 08/12/2025 |
| PSD Permit No.: PSDTX1578 | Issuance Date: 08/13/2025 |
| PSD Permit No.: PSDTX1580 | Issuance Date: 08/12/2025 |
| PSD Permit No.: PSDTX1586 | Issuance Date: 02/28/2025 |
| Nonattainment (NA) Permits | |
| NA Permit No.: N286 | Issuance Date: 08/13/2025 |
| NA Permit No.: N288 | Issuance Date: 08/12/2025 |
| NA Permit No.: N290 | Issuance Date: 08/13/2025 |
| 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.: 19806 | Issuance Date: 02/28/2025 |
| Authorization No.: 22052 | Issuance Date: 08/13/2025 |
| Authorization No.: 46307 | Issuance Date: 08/12/2025 |
| Authorization No.: 46426 | Issuance Date: 08/13/2025 |
| Authorization No.: 98149 | Issuance Date: 06/25/2025 |
| Authorization No.: 177927 | Issuance Date: 11/13/2024 |
| Permits By Rule (30 TAC Chapter 106) for the Application Area | |
| Number: 106.122 | Version No./Date: 09/04/2000 |
| Number: 106.124 | Version No./Date: 09/04/2000 |
| Number: 106.183 | Version No./Date: 09/04/2000 |
| Number: 106.227 | Version No./Date: 09/04/2000 |
| Number: 106.261 | Version No./Date: 11/01/2003 |
| Number: 106.262 | Version No./Date: 11/01/2003 |
| Number: 106.263 | Version No./Date: 11/01/2001 |
| Number: 106.265 | Version No./Date: 09/04/2000 |
| Number: 106.371 | Version No./Date: 09/04/2000 |
| Number: 106.372 | Version No./Date: 09/04/2000 |
| Number: 106.373 | Version No./Date: 09/04/2000 |
| Number: 106.451 | Version No./Date: 09/04/2000 |
| Number: 106.452 | Version No./Date: 09/04/2000 |
| Number: 106.472 | 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: 106.473 | Version No./Date: 09/04/2000 |
| Number: 106.474 | Version No./Date: 09/04/2000 |
| Number: 106.476 | Version No./Date: 09/04/2000 |
| Number: 106.478 | Version No./Date: 09/04/2000 |
| Number: 106.511 | Version No./Date: 09/04/2000 |

New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization** |
|---------------------------|--|--|
| 12DG-15E | BOILERHOUSE EMERGENCY GENERATOR 12DG-15E | 106.511/09/04/2000 |
| 13G-2629E | FIREWATER PUMP ENGINE #10 | 106.511/09/04/2000 |
| 18F-2664 | TANK 18F-2664 | 46307, 46426, GHGPSDTX202, PSDTX1580, N288, N290 |
| 18F-2665 | TANK 18F-2665 | 46307, 46426, GHGPSDTX202, PSDTX1580, N288, N290 |
| 18F-2667 | TANK 18F-2667 | 46307, 46426, GHGPSDTX202, PSDTX1580, N288, N290 |
| 18F-2668 | TANK 18F-2668 | 46307, 46426, GHGPSDTX202, PSDTX1580, N288, N290 |
| 18F-2669 | TANK 18F-2669 | 46307, 46426, GHGPSDTX202, PSDTX1580, N288, N290 |
| 18F-2670 | TANK 18F-2670 | 46307, 46426, GHGPSDTX202, PSDTX1580, N288, N290 |
| 18F-2671 | TANK 18F-2671 | 46307, 46426, GHGPSDTX202, PSDTX1580, N288, N290 |
| 18F-2672 | TANK 18F-2672 | 46307, 46426, GHGPSDTX202, PSDTX1580, N288, N290 |
| 19G-3789 | DIESEL DRIVEN FIRE WATER ENGINE | 46307, GHGPSDTX202, PSDTX1580, N288 |
| 1B-2501 | DEHYDRO 2 UNIT FEED HEATER | 19806, PSDTX1586 |
| 1B-2502 | REGEN AIR HEATER | 19806, PSDTX1586 |
| 1B-505 | HEAT RECOVERY BOILER | 19806, PSDTX1586, 106.263/11/01/2001 |
| 1B-506 | HEATE RECOVERY BOILER | 19806, PSDTX1586, 106.263/11/01/2001 |
| 1B505 EXH | 1B505 EXHAUST | 19806, PSDTX1586 |

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** |
|---------------------------|----------------------------------|---|
| 1B506 EXH | 1B506 EXHAUST | 19806, PSDTX1586 |
| 1D-502 | QUENCH OIL COOLING 1D-502 | 19806, PSDTX1586 |
| 1D-503 | ABSORBER 1D-503 | 19806, PSDTX1586 |
| 1D-504 | STRIPPER 1D-504 | 19806, PSDTX1586 |
| 1D-505 | DEPROPANIZER 1D-505 | 19806, PSDTX1586 |
| 1D-506 | ISOBUTYLENE CONCENTRATION COLUMN | 46307, GHGPSDTX202, PSDTX1580, N288 |
| 1D-507 | ISOBUTYLENE CONCENTRATION COLUMN | 46307, GHGPSDTX202, PSDTX1580, N288 |
| 1F-4242 | SULFURIC ACID STORAGE TANK | 106.472/09/04/2000 |
| 1F-4455 | AMMONIA STORAGE TANK | 106.262/11/01/2003 [167949] |
| 1F-501 | DH2 REACTOR | 19806, PSDTX1586 |
| 1F-502 | DH2 REACTOR | 19806, PSDTX1586 |
| 1F-503 | DH2 REACTOR | 19806, PSDTX1586 |
| 1F-504 | DH2 REACTOR | 19806, PSDTX1586 |
| 1F-505 | DH2 REACTOR | 19806, PSDTX1586 |
| 1F-506 | DH2 REACTOR | 19806, PSDTX1586 |
| 1F-507 | DH2 REACTOR | 19806, PSDTX1586 |
| 1F-511 | TANK 1F-511 | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| 1F-963 | SULFURIC ACID STORAGE TANK | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| 1G-2520T | STATIONARY TURBINE | 19806, PSDTX1586 |

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** |
|---------------------------|------------------------------------|--|
| 1G-901T | STATIONARY TURBINE | 19806, PSDTX1586 |
| 20DG-16 | DOCK EMERGENCY GENERATOR | 46307, GHGPSDTX202, PSDTX1580, N288 |
| 21G-2216 | DIESEL FIRE PUMP ENGINE | 46307, GHGPSDTX202, PSDTX1580, N288 |
| 2C CARBREM | MAINT - REACTOR 2C CARBON REMOVAL | 106.263/11/01/2001 |
| 2D-68 | VOC STRIPPER | 46307, 46426, GHGPSDTX202, PSDTX1580, N288, N290 |
| 2F-26 | FURFURAL SUMP TANK 2F-26 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| 31F-2030 | TANK 31F-2030 | 106.472/09/04/2000 |
| 31G-2350 | DIESEL WATER BLASTER ENGINE | 46307, GHGPSDTX202, PSDTX1580, N288 |
| 3DG-14 | OXO EMERGENCY GENERATOR | 46307, GHGPSDTX202, PSDTX1580, N288 |
| 45A MAINT | REACTOR 45A MAINT | 106.263/11/01/2001 |
| 45B MAINT | REACTOR 45B MAINT | 106.263/11/01/2001 |
| 4D-1 | ABSORBER VENT | 46307, GHGPSDTX202, PSDTX1580, N288 |
| 4D-1508 | METHANOL WASH TOWER | 46307, GHGPSDTX202, PSDTX1580, N288 |
| 4D-1510 | VOC STRIPPER | 46307, 46426, GHGPSDTX202, PSDTX1580, N288, N290 |
| 4F-14 | FURFURAL SUMP TANK 4F-14 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| 4F-4473 | ANTIFOAM STORAGE TANK | 106.472/09/04/2000 |
| 5F-3 | FURFURAL WATER SUMP TANK 5F-3 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| 6F-433 | TANK 6F-433 - CAUSTIC STORAGE TANK | 106.472/09/04/2000 |
| 7D-806 | METHANOL WASH TOWER | 46307, GHGPSDTX202, PSDTX1580, N288 |

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** |
|---------------------------|---|--|
| AEROSOL | AEROSOL PRODUCTS | 106.263/11/01/2001 [93876] |
| BLAST PY | ABRASIVE BLASTING IN THE LAYDOWN YARD | 106.452/09/04/2000 [93876] |
| BLASTING | ABRASIVE BLASTING OF FIXED STRUCTURES | 106.263/11/01/2001 [93876] |
| BLR-9 | NO. 9 BOILER | 46426, N290 |
| BLR-9EXH | BOILER 9 EXHAUST | 46426, N290 |
| BLR9--NH3TANK | BOILER 9 SCR AMMONIA TANK | 106.262/11/01/2003 [176061], 106.476/09/04/2000 [176061] |
| BOILER10 | AUXILARY BOILER NO. 1 (BOILER 10) | 46426, N290 |
| BOILER10 EXH | BOILER 10 EXHAUST | 46426, N290 |
| BOILER11 | AUXILARY BOILER NO. 2 (BOILER 11) | 46426, N290 |
| BOILER11 EXH | BOILER 11 EXHAUST | 46426, N290 |
| BUTENE-1-MCPU | BUTENE PROCESS MCPU | 46307, GHGPSDTX202, PSDTX1580, N288 |
| C-5 | MARINE TERMINAL COLLECTION LOSSES | 22052, 177927, GHGPSDTX201, PSDTX1578, N286 |
| COMB 1B-505V | HEAT RECOVERY BOILER 1B-505 COMBINED VENT | 19806, PSDTX1586 |
| COMB 1B-506V | HEAT RECOVERY BOILER 1B-506 COMBINED VENT | 19806, PSDTX1586 |
| COMB BLR 9V | COMBINED VENT TO BOILER 9 | 46426, N290, 106.261/11/01/2003 [177872], 106.262/11/01/2003 [177872] |
| COMB BLR10/11V | COMBINED VENT TO BOILER 10 AND BOILER 11 | 46426, N290, 106.261/11/01/2003 [161519, 177872], 106.262/11/01/2003 [161519, 177872], 106.263/11/01/2001 [154654] |
| COMB DOCK-TOV | COMBINED DOCK TO VENT | 22052, 177927, GHGPSDTX201, PSDTX1578, N286 |

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** |
|---------------------------|-------------------------------------|---|
| COMB E-563V | COMBINED DOCK FLARE VENT | 22052, GHGPSDTX201, PSDTX1578, N286, 106.261/11/01/2003 [165335, 166277] |
| COMB EP-5V | COMBINED VENT HEADER TO PLANT FLARE | 22052, 46307, 46426, GHGPSDTX201, GHGPSDTX202, PSDTX1578, PSDTX1580, N286, N288, 106.261/11/01/2003 [163064, 177872], 106.262/11/01/2003 [163064, 177872], 106.263/11/01/2001 |
| CT-10 | COOLING TOWER 10 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| CT-11 | COOLING TOWER 11 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| CT-14 | COOLING TOWER 14 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| CT-17 | COOLING TOWER 17 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| CT-18 | COOLING TOWER 18 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| CT-3 | COOLING TOWER 3 | 19806, PSDTX1586, 106.371/09/04/2000 |
| CT-7 | COOLING TOWER 7 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| DEGREAS1 | COLD SOLVENT DEGREASER | 46307, GHGPSDTX202, PSDTX1580, N288 |
| DEGREAS2 | COLD SOLVENT DEGREASER | 46307, GHGPSDTX202, PSDTX1580, N288 |
| DES VAC | MAINT - DRYER DESICCANT REMOVAL | 106.263/11/01/2001 |
| DH2 UNIT | DEHYDROGENATION 2 PROCESS UNIT | 19806, PSDTX1586 |
| DH2-GEN | DH2 GENERATOR | 106.511/09/04/2000 |
| DMFWASHTOW | MAINT - DMF WASH TOWER | 106.263/11/01/2001 |
| DOCK-TO EXH | DOCK THERMAL OXIDIZER EXHAUST | 22052, 177927, GHGPSDTX201, PSDTX1578, N286 |
| E-563 | MARINE LOADING FLARE | 22052, GHGPSDTX201, PSDTX1578, N286 |

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** |
|---------------------------|---|--|
| E-PIB1RC1 | PIB-1 PRODUCTION LOADING RAILCARS SATION 1 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| E-PIB1RC2 | PIB-1 PRODUCTION LOADING RAILCARS STATION 2 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| E-PIB2RC1 | PIB-2 PRODUCTION LOADING RAILCARS-STATION 1 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| E-PIB2RC2 | PIB-2 PRODUCTION LOADING RAILCARS-STATION 2 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| E-PIB2TT1 | PIB-2 PRODUCTION LOADING TANK TRUCK-STATION 1 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| E-PIB2TT2 | PIB-2 PRODUCTION LOADING TANK TRUCK-STATION 2 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| E-PIBTT | PIB-1 PRODUCT LOADING B TANK TRUCKS | 46307, GHGPSDTX202, PSDTX1580, N288 |
| EP-5 | PLANT FLARE | 22052, 46307, 46426, GHGPSDTX201, GHGPSDTX202, PSDTX1578, PSDTX1580, N286, N288, 106.261/11/01/2003 [177872], 106.262/11/01/2003 [177872], 106.263/11/01/2001 |
| ETBE TOWERS | ETBE DISTILLATION TOWERS | 46307, GHGPSDTX202, PSDTX1580, N288 |
| F-20 NH3 | AMMONIA PIPING FUGITIVE COMPONENTS | 19806, PSDTX1586, 106.262/11/01/2003 [142511, 167949] |
| F-CT-7-RENT | RENTAL COOLING FOR CT-7 | 106.371/09/04/2000 |
| F-CT-TEMP | RENTAL COOLING TOWER | 106.371/09/04/2000 [161519] |
| F-TTR | TRUCK RACK LOADING FACILITY | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| FUG-HON | HON FUGITIVES | 22052, 46307, GHGPSDTX201, GHGPSDTX202, PSDTX1578, PSDTX1580, N286, N288, 106.261/11/01/2003 [161519, 164501, 168520, 172273, 176059, 177324, 177872, 179540], 106.262/11/01/2003 [161519, 164501, 168520, 172273, 176059, 177324, 177872, 179540] |

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** |
|---------------------------|--------------------------------|--|
| FUG-HRVOC | HRVOC FUGITIVES | 46307, GHGPSDTX202, PSDTX1580, N288, 106.261/11/01/2003 [164501, 168520, 172273, 176059, 177324, 177872, 179540], 106.262/11/01/2003 [164501, 168520, 172273, 176059, 177324, 177872, 179540] |
| FUG-MON | MON FUGITIVES | 22052, 46307, GHGPSDTX201, GHGPSDTX202, PSDTX1578, PSDTX1580, N286, N288, 106.261/11/01/2003 [164501, 168520, 172273, 176059, 177324, 177872, 179540], 106.262/11/01/2003 [164501, 168520, 172273, 176059, 177324, 177872, 179540] |
| FUG-NH3 | AMMONIA FUGITIVES | 106.262/11/01/2003 [176061] |
| FUG-REGV | 115 FUGITIVES | 19806, 22052, 46307, GHGPSDTX201, GHGPSDTX202, PSDTX1578, PSDTX1580, PSDTX1586, N286, N288, 106.261/11/01/2003 [161519, 164501, 168520, 172273, 176059, 177324, 177872, 179540], 106.262/11/01/2003 [161519, 164501, 168520, 172273, 176059, 177324, 177872, 179540], 106.263/11/01/2001 |
| FUG-VV | NSPS VV FUGITIVES | 46307, GHGPSDTX202, PSDTX1580, N288, 106.261/11/01/2003 [161519, 164501, 168520, 172273, 176059, 177324, 177872, 179540], 106.262/11/01/2003 [161519, 164501, 168520, 172273, 176059, 177324, 177872, 179540] |
| FUG-VVA | NSPS VVA FUGITIVES | 46307, GHGPSDTX202, PSDTX1580, N288, 106.261/11/01/2003 [164501, 168520, 172273, 176059, 177324, 177872, 179540], 106.262/11/01/2003 [164501, 168520, 172273, 176059, 177324, 177872, 179540] |

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** |
|---------------------------|--|--|
| FW-ENG | EMERGENCY FIREWATER ENGINE | 106.511/09/04/2000 |
| GAS-2 | FIXED ROOF GASOLINE TANK | 46307, GHGPSDTX202, PSDTX1580, N288 |
| HHMACHINES | HANDHELD MACHINES | 106.265/09/04/2000 |
| IC8 TOWERS | ISO OCTENE DISTILLATION TOWERS | 46307, GHGPSDTX202, PSDTX1580, N288 |
| LAB BLR 1 | LAB BOILER 1 (COMFORT HEATING AND HOT WATER) | 106.183/09/04/2000 |
| LAB BLR 2 | LAB BOILER 2 (COMFORT HEATING AND HOT WATER) | 106.183/09/04/2000 |
| LAB-VENT | LAB VENT 1 | 106.124/09/04/2000 |
| LABHEAT1 | LABORATORY HOT WATER HEATER | 106.183/09/04/2000 |
| LABHEAT2 | LABORATORY BOILER 1 | 106.183/09/04/2000 |
| LABHEAT3 | LABORATORY BOILER 2 | 106.183/09/04/2000 |
| LABST-1 | LAB SUMP TANK | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| MSS-FLR | MSS FLARE | 46307, GHGPSDTX202, PSDTX1580, N288 |
| MTBE RAIL | MTBE RAILCAR LOADING | 106.476/09/04/2000 |
| N14-C475 | CUMMINS DIESEL AIR COMPRESSOR | 46307, GHGPSDTX202, PSDTX1580, N288 |
| OIL SEP | OIL SEPARATOR | 46307, GHGPSDTX202, PSDTX1580, N288, 106.262/11/01/2003 [165336], 106.263/11/01/2001 |
| PHEN-GEN | DH2 EMERGENCY GENERATOR | 19806, PSDTX1586 |
| PIB1-MCPU | POLYISOBUTYLENE UNIT 1 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| PIB2-MCPU | POLYISOBUTYLENE 2 MCPU | 46307, GHGPSDTX202, PSDTX1580, N288 |
| PIBFRAC1 | PIB WASTEWATER FRAC TANK 1 | 106.472/09/04/2000 |

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** |
|---------------------------|--|---|
| PIBFRAC1LD | LOADING OF PIB WASTEWATER FRAC TANK 1 | 106.472/09/04/2000 |
| PIBFRAC2 | PIB WASTEWATER FRAC TANK 2 | 106.472/09/04/2000 |
| PIBFRAC2LD | LOADING OF PIB WASTEWATER FRAC TANK 2 | 106.472/09/04/2000 |
| PIBWW CACL2 | PIB WASTEWATER CALCIUM CHLORIDE STORAGE TANK | 106.472/09/04/2000 |
| PIBWWSTPOH | PIB WASTEWATER STRIPPER OVERHEAD VENT | 46307, GHGPSDTX202, PSDTX1580, N288 |
| PLANTMSS18 | RAILCAR MAINTENANCE VENTING | 106.263/11/01/2001 [154654] |
| PRO-BD-CMPU | BUTADIENE CMPU | 46307, GHGPSDTX202, PSDTX1580, N288 |
| PRO-HPIB-CMPU | HIGH PURITY ISOBUTYLENE CMPU | 46307, GHGPSDTX202, PSDTX1580, N288 |
| PRO-IBE-CMPU | ISOBUTENE PROCESS UNIT CMPU | 46307, GHGPSDTX202, PSDTX1580, N288 |
| PRO-MTBE-CMPU | MTBE CMPU | 46307, GHGPSDTX202, PSDTX1580, N288 |
| RENTGAS | RENTAL GASOLINE TANK | 106.473/09/04/2000 |
| T-100 | TANK 100 | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| T-101 | NO. 101 TANK | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| T-102 | TANK 102 | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| T-103 | TANK 103 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-105 | TANK 105 | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| T-106 | TANK 106 | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |

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** |
|---------------------------|------------------------------------|---|
| T-107 | TANK 107 | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| T-108 | TANK 108 | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| T-110 | TANK 110 | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| T-111 | TANK 111 | 46307, GHGPSDTX202, PSDTX1580, N288, 106.476/09/04/2000 |
| T-112 | TANK 112 | 46307, GHGPSDTX202, PSDTX1580, N288, 106.476/09/04/2000 |
| T-114 | TANK 114 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-115 | TANK 115 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-117 | PIB-1 PROCESS TANK 117 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-118 | PIB-1 PROCESS TANK 118 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-119 | PIB-1 PROCESS TANK 119 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-155 | TRIETHANOLAMINE (TEA) STORAGE TANK | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-1F-924 | TANK 1F-924 | 19806, PSDTX1586, 106.472/09/04/2000 [161009] |
| T-204 | PIB-2 PROCESS TANK 1 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-205 | PIB-2 PROCESS TANK 2 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-206 | PIB-2 PROCESS TANK 3 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-31 | NO. 31 TANK | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-32 | NO. 32 TANK | 46307, GHGPSDTX202, PSDTX1580, N288 |

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** |
|---------------------------|--------------------------------|--|
| T-428 | TANK 428 | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| T-46 | TANK 46 | 106.263/11/01/2001, 106.478/09/04/2000 [130241] |
| T-71 | NO. 71 TANK | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-72 | NO. 72 TANK | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-73 | NO. 73 TANK | 46307, GHGPSDTX202, PSDTX1580, N288, 106.261/11/01/2003 [146289], 106.472/09/04/2000 |
| T-74 | NO. 74 TANK | 46307, GHGPSDTX202, PSDTX1580, N288, 106.261/11/01/2003 [146289], 106.472/09/04/2000 |
| T-77 | NO. 77 TANK | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| T-78 | NO. 78 TANK | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| T-79 | NO. 79 TANK | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| T-80 | NO. 80 TANK | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-81 | NO. 81 TANK | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-82 | TANK 82 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-83 | TANK 83 | 106.472/09/04/2000 |
| T-84 | TANK 84 | 46307, GHGPSDTX202, PSDTX1580, N288, 106.263/11/01/2001 |
| T-85 | TANK 85 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-86 | TANK 86 | 46307, GHGPSDTX202, PSDTX1580, N288 |

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** |
|---------------------------|---|---|
| T-87 | NO. 87 TANK | 22052, GHGPSDTX201, PSDTX1578, N286 |
| T-910549 | TANK 910549 | 106.472/09/04/2000 |
| T-920396 | TANK 920396 | 106.472/09/04/2000 |
| T-94 | NO. 94 TANK | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| T-99 | NO. 99 TANK | 46307, GHGPSDTX202, PSDTX1580, N288, 106.474/09/04/2000 |
| T-DIESEL | DIESEL STORAGE TANK | 106.472/09/04/2000, 106.473/09/04/2000 |
| T-DIESELRENT | RENTAL DIESEL TANK | 106.472/09/04/2000 |
| T-MEOHTOTE | METHANOL STORAGE (TOTE) | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-P1WW1 | WATER SEPARATOR | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-P1WW2 | WATER SEPARATOR | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-P2WW1 | WATER SEPARATOR | 46307, GHGPSDTX202, PSDTX1580, N288 |
| T-PLF580 | FURFURAL SOLVENT SYSTEMS ADDITIVE TOTE | 106.472/09/04/2000 |
| T01 | DIESEL TANK FOR FIREWATER PUMP 19G-3789 | 46307, GHGPSDTX202, PSDTX1580, N288 |
| TANK 1 | TANK 1 | 106.476/09/04/2000 |
| TANK 10 | TANK 10 | 106.476/09/04/2000 |
| TANK 11 | TANK 11 | 106.476/09/04/2000 |
| TANK 12 | TANK 12 | 106.476/09/04/2000 |
| TANK 13 | TANK 13 | 106.476/09/04/2000 |
| TANK 14 | TANK 14 | 106.476/09/04/2000 |

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** |
|---------------------------|--------------------------------|-----------------------------------|
| TANK 15 | TANK 15 | 106.476/09/04/2000 |
| TANK 16 | TANK 16 | 106.476/09/04/2000 [177324] |
| TANK 17 | TANK 17 | 106.476/09/04/2000 |
| TANK 18 | TANK 18 | 106.476/09/04/2000 |
| TANK 186 | TANK 186 | 106.476/09/04/2000 |
| TANK 19 | TANK 19 | 106.476/09/04/2000 |
| TANK 2 | TANK 2 | 106.476/09/04/2000 |
| TANK 20 | TANK 20 | 106.476/09/04/2000 |
| TANK 21 | TANK 21 | 106.476/09/04/2000 |
| TANK 22 | TANK 22 | 106.476/09/04/2000 |
| TANK 23 | TANK 23 | 106.476/09/04/2000 |
| TANK 24 | TANK 24 | 106.476/09/04/2000 |
| TANK 25 | TANK 25 | 106.476/09/04/2000 [177324] |
| TANK 26 | TANK 26 | 106.476/09/04/2000 |
| TANK 27 | TANK 27 | 106.476/09/04/2000 |
| TANK 28 | TANK 28 | 106.476/09/04/2000 |
| TANK 29 | TANK 29 | 106.476/09/04/2000 |
| TANK 3 | TANK 3 | 106.476/09/04/2000 |
| TANK 4 | TANK 4 | 106.476/09/04/2000 |
| TANK 41 | TANK 41 | 106.476/09/04/2000 |
| TANK 42 | TANK 42 | 106.476/09/04/2000 |

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** |
|---------------------------|--|---|
| TANK 43 | TANK 43 | 106.476/09/04/2000 |
| TANK 44 | TANK 44 | 106.476/09/04/2000 |
| TANK 49 | TANK 49 | 106.476/09/04/2000 |
| TANK 5 | TANK 5 | 106.476/09/04/2000 |
| TANK 51 | TANK 51 | 106.476/09/04/2000 |
| TANK 52 | TANK 52 | 106.476/09/04/2000 |
| TANK 53 | TANK 53 | 106.476/09/04/2000 |
| TANK 54 | TANK 54 | 106.263/11/01/2001, 106.476/09/04/2000 |
| TANK 55 | TANK 55 | 106.476/09/04/2000 |
| TANK 56 | TANK 56 | 106.476/09/04/2000 |
| TANK 57 | TANK 57 | 106.476/09/04/2000 [177324] |
| TANK 6 | TANK 6 | 106.476/09/04/2000 |
| TANK 7 | TANK 7 | 106.476/09/04/2000 |
| TANK 8 | TANK 8 | 106.476/09/04/2000 |
| TANK 850 | TANK 850 | 106.373/09/04/2000, 106.476/09/04/2000 |
| TANK 851 | TANK 851 | 106.373/09/04/2000, 106.476/09/04/2000 |
| TANK 9 | TANK 9 | 106.476/09/04/2000 |
| TANK-TBD | IFR MTBE/DIB TANK | 46307, GHGPSDTX202, PSDTX1580, N288 |
| TANKCAR | TANK CAR LOADING FACILITY | 46307, GHGPSDTX202, PSDTX1580, N288, 106.472/09/04/2000 |
| TEMP MAINT | TEMPORARY MAINTENANCE: SURFACE COATING | 106.263/11/01/2001 [93876] |

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** |
|---------------------------|---------------------------------|-------------------------------------|
| ULTRA | ULTRA UNIT | 46307, GHGPSDTX202, PSDTX1580, N288 |
| WELDING | SOLDERING, BRAZING, AND WELDING | 106.227/09/04/2000 [93876] |
| WW-PIB | PRETREATMENT OF PIB WASTEWATER | 106.262/11/01/2003 [165336] |

**This column may include Permit by Rule (PBR) numbers and version dates, PBR Registration numbers in brackets, Standard Permit Registration numbers, Minor NSR permit numbers, and Major NSR permit numbers.

Appendix A

Acronym List 252

Acronym List

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

| | |
|------------------|---|
| ACFM | actual cubic feet per minute |
| AMOC | alternate means of control |
| ARP | Acid Rain Program |
| ASTM | American Society of Testing and Materials |
| B/PA | Beaumont/Port Arthur (nonattainment area) |
| CAM | Compliance Assurance Monitoring |
| CD | control device |
| CEMS | continuous emissions monitoring system |
| CFR | Code of Federal Regulations |
| COMS | continuous opacity monitoring system |
| CVS | closed vent system |
| D/FW | Dallas/Fort Worth (nonattainment area) |
| EP | emission point |
| EPA | U.S. Environmental Protection Agency |
| EU | emission unit |
| FCAA Amendments | Federal Clean Air Act Amendments |
| FOP | federal operating permit |
| gr/100 scf | grains per 100 standard cubic feet |
| HAP | hazardous air pollutant |
| H/G/B | Houston/Galveston/Brazoria (nonattainment area) |
| H ₂ S | hydrogen sulfide |
| ID No. | identification number |
| lb/hr | pound(s) per hour |
| MACT | Maximum Achievable Control Technology (40 CFR Part 63) |
| MMBtu/hr | Million British thermal units per hour |
| NA | nonattainment |
| N/A | not applicable |
| NADB | National Allowance Data Base |
| NESHAP | National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61) |
| NO _x | nitrogen oxides |
| NSPS | New Source Performance Standard (40 CFR Part 60) |
| NSR | New Source Review |
| ORIS | Office of Regulatory Information Systems |
| Pb | lead |
| PBR | Permit By Rule |
| PEMS | predictive emissions monitoring system |
| PM | particulate matter |
| ppmv | parts per million by volume |
| PRO | process unit |
| PSD | prevention of significant deterioration |
| psia | pounds per square inch absolute |
| RO | Responsible Officials |
| 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 254

Major NSR Summary Table

| Permit Numbers: 22052, PSDTX1578, and N286 | | | | | Issuance Date: August 13, 2025 | | |
|--|---|--------------------------|----------------|---------|---|---|---|
| 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 |
| E-563 | Marine Loading Flare | NOx | 3.14 | 0.08 | 3, 4, 9, 12 | 3, 4, 12, 22 | 3, 4 |
| | | SO ₂ | <0.01 | 0.01 | | | |
| | | CO | 26.85 | 0.72 | | | |
| | | VOC | 39.01 | 0.50 | | | |
| C-5 | Collection Losses | VOC | 0.94 | 0.21 | 9, 19 | 9 | |
| F-Dock | Dock Fugitives (5) | VOC | 0.71 | 3.07 | 4, 7, 19 | 7 | 4, 7 |
| T-87 | MTBE/ETBE/MeOH/EtOH Storage Tank 87 | VOC | 3.87 | 0.60 | 3,8 | 8 | 3 |
| L-5 | Ship and Barge Loading Dock Fugitives (6) | VOC | 0.10 | 0.44 | 4, 7, 19 | 7 | 4, 7 |
| EP-5 | Plant Flare (6) | VOC | 27.36 | 6.65 | | | |
| | | NOx | 3.77 | 0.92 | | | |
| | | SO ₂ | 0.01 | 0.01 | | | |
| | | CO | 20.49 | 5.00 | | | |

Major NSR Summary Table

| Permit Numbers: 22052, PSDTX1578, and N286 | | | | | Issuance Date: August 13, 2025 | | |
|--|-----------------------|--------------------------|----------------|---------|---|---|---|
| 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 |
| FUG-BD-D | Dock Fugitives | VOC | 0.03 | 0.12 | 4, 5, 6, 19 | 5 | 4, 5 |
| Dock-TO | Dock Thermal Oxidizer | VOC | 2.90 | 1.84 | 9,14, 15, 16 | 15, 22 | |
| | | NO _x | 0.84 | 3.67 | | | |
| | | SO ₂ | 0.02 | 0.08 | | | |
| | | PM | 0.31 | 1.37 | | | |
| | | PM ₁₀ | 0.31 | 1.37 | | | |
| | | PM _{2.5} | 0.31 | 1.37 | | | |
| | | CO | 0.63 | 2.75 | | | |

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 PM₁₀ - particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
 PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Emissions are only those associated with pressurized loading at Docks A and B.

Major NSR Summary Table

| Permit Number: GHGPSDTX201 | | | | Issuance Date: August 13, 2025 | | |
|----------------------------|-----------------------|--------------------------|----------------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| E-563 | Marine Loading Flare | CO ₂ (5) | 235.04 | 28, 29 | 27, 28, 30 | 28 |
| | | CH ₄ (5) | <0.01 | | | |
| | | N ₂ O (5) | <0.01 | | | |
| | | CO ₂ e | 234.93 | | | |
| Dock-TO | Dock Thermal Oxidizer | CO ₂ (5) | 5781.23 | 28, 29 | 27, 28, 30 | 28 |
| | | CH ₄ (5) | <0.01 | | | |
| | | N ₂ O (5) | <0.01 | | | |
| | | CO ₂ e | 5781.23 | | | |

(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) CO₂ - carbon dioxide
 N₂O - nitrous oxide
 CH₄ - methane
 HFCs - hydrofluorocarbons
 PFCs - perfluorocarbons
 SF₆ - sulfur hexafluoride
 CO₂e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):
 CO₂ (1), N₂O (298), CH₄(25), SF₆ (22,800), HFC (various), PFC (various)

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.

(5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Major NSR Summary Table

| Permit Numbers: 46307, PSDTX1580, and N288 | | | | | Issuance Date: August 12, 2025 | | |
|--|----------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| FUG-BD-V | VERP Fugitives | VOC | 0.27 | 1.18 | 3, 5, 31 | 3, 5, 31, 42, | 3, 5, 31 |
| TK-TBD | IFR MTBE/ETBE/DIB/IC8 Tank | VOC | 0.95 | 2.08 | 5, 11, 12 | 5, 11, 12, 42 | 5 |
| MSS-FLR | BD MSS Flare | VOC | 3.76 | 0.04 | 39, 40, 41, 42 | 38, 39, 40, 41, 42 | |
| | | CO | 1.69 | 0.02 | | | |
| | | NO _x | 0.20 | <0.01 | | | |
| | | SO ₂ | <0.01 | <0.01 | | | |
| EP-5 | Plant Flare (6) | VOC | 190.74 | 20.90 | 3, 5, 24, 25, 26, 27 | 3, 5, 24, 26, 27, 42 | 3, 5 |
| | | NO _x | 29.09 | 3.44 | | | |
| | | SO ₂ | 2.65 | 0.10 | | | |
| | | CO | 148.21 | 17.51 | | | |
| | | BD | -- | 4.42 | | | |
| | | HRVOC | -- | 15.00 | | | |
| 12DG-15 | Boilerhouse Emergency | VOC | 1.04 | 0.44 | 5 | 5 | 5 |

Major NSR Summary Table

| Permit Numbers: 46307, PSDTX1580, and N288 | | | | | Issuance Date: August 12, 2025 | | |
|--|-------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | Generator | NO _x | 12.87 | 5.47 | | | |
| | | SO ₂ | 0.85 | 0.36 | | | |
| | | PM | 0.91 | 0.39 | | | |
| | | PM ₁₀ | 0.91 | 0.39 | | | |
| | | PM _{2.5} | 0.91 | 0.39 | | | |
| | | CO | 2.77 | 1.18 | | | |
| | | HAP | 0.01 | 0.01 | | | |
| 3DG-14 | OXO Emergency Generator | VOC | 0.37 | 0.16 | 5 | 5 | 5 |
| | | NO _x | 4.62 | 1.96 | | | |
| | | SO ₂ | 0.31 | 0.13 | | | |
| | | PM | 0.33 | 0.14 | | | |
| | | PM ₁₀ | 0.33 | 0.14 | | | |
| | | PM _{2.5} | 0.33 | 0.14 | | | |
| | | CO | 1.00 | 0.42 | | | |

Major NSR Summary Table

| Permit Numbers: 46307, PSDTX1580, and N288 | | | | | Issuance Date: August 12, 2025 | | |
|--|------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | | HAP | 0.01 | 0.01 | | | |
| 31G-2350 | Diesel Water Blaster Engine | VOC | 0.75 | 0.78 | 5, 8 | 5 | 5 |
| | | NO _x | 3.04 | 3.16 | | | |
| | | SO ₂ | 0.01 | 0.01 | | | |
| | | PM | 0.10 | 0.10 | | | |
| | | PM ₁₀ | 0.10 | 0.10 | | | |
| | | PM _{2.5} | 0.10 | 0.10 | | | |
| | | CO | 1.72 | 1.79 | | | |
| | | HAP | 0.01 | 0.01 | | | |
| 13G-2629 | No. 10 Firewater Pump Engine | VOC | 0.15 | 0.01 | 5 | 5 | 5 |
| | | NO _x | 4.22 | 0.11 | | | |
| | | SO ₂ | 0.12 | 0.01 | | | |
| | | PM | 0.07 | 0.01 | | | |
| | | PM ₁₀ | 0.07 | 0.01 | | | |

Major NSR Summary Table

| Permit Numbers: 46307, PSDTX1580, and N288 | | | | | Issuance Date: August 12, 2025 | | |
|--|--------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | | PM _{2.5} | 0.07 | 0.01 | | | |
| | | CO | 0.41 | 0.01 | | | |
| | | HAP | 0.01 | 0.01 | | | |
| 20DG-16 | Dock Emergency Generator | VOC | 0.10 | 0.01 | 5 | 5 | 5 |
| | | NO _x | 1.24 | 0.03 | | | |
| | | SO ₂ | 0.08 | 0.01 | | | |
| | | PM | 0.09 | 0.01 | | | |
| | | PM ₁₀ | 0.09 | 0.01 | | | |
| | | PM _{2.5} | 0.09 | 0.01 | | | |
| | | CO | 0.27 | 0.01 | | | |
| | | HAP | 0.01 | 0.01 | | | |
| 21G-2216 | Diesel Fire Pump Engine | VOC | 0.40 | 0.01 | 5 | 5 | 5 |
| | | NO _x | 6.10 | 0.16 | | | |
| | | SO ₂ | 0.60 | 0.02 | | | |

Major NSR Summary Table

| Permit Numbers: 46307, PSDTX1580, and N288 | | | | | Issuance Date: August 12, 2025 | | |
|--|---------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | | PM | 0.24 | 0.01 | | | |
| | | PM ₁₀ | 0.24 | 0.01 | | | |
| | | PM _{2.5} | 0.24 | 0.01 | | | |
| | | CO | 0.50 | 0.01 | | | |
| | | HAP | 0.01 | 0.01 | | | |
| 19G-3789 | Diesel Driven Fire Water Engine | VOC | 0.08 | 0.01 | 5 | 5 | 5 |
| | | NO _x | 2.46 | 0.06 | | | |
| | | SO ₂ | 0.31 | 0.01 | | | |
| | | PM | 0.10 | 0.01 | | | |
| | | PM ₁₀ | 0.10 | 0.01 | | | |
| | | PM _{2.5} | 0.10 | 0.01 | | | |
| | | CO | 0.63 | 0.02 | | | |
| | | HAP | 0.01 | 0.01 | | | |
| N14-C475 | Cummins Diesel Air | VOC | 1.17 | 0.03 | 5 | 5 | 5 |

Major NSR Summary Table

| Permit Numbers: 46307, PSDTX1580, and N288 | | | | | Issuance Date: August 12, 2025 | | |
|--|---------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | Compressor | NO _x | 14.73 | 0.38 | | | |
| | | SO ₂ | 0.97 | 0.03 | | | |
| | | PM | 1.05 | 0.03 | | | |
| | | PM ₁₀ | 1.05 | 0.03 | | | |
| | | PM _{2.5} | 1.05 | 0.03 | | | |
| | | CO | 3.17 | 0.08 | | | |
| | | Total HAPs | 0.01 | 0.01 | | | |
| F-CT-7 | Cooling Tower CT-7 | PM | 0.26 | 1.15 | 20, 22 | 20, 22, 42 | |
| | | PM ₁₀ | 0.11 | 0.50 | | | |
| | | PM _{2.5} | 0.01 | 0.01 | | | |
| | | VOC (5) | 0.60 | 1.38 | | | |
| F-CT-10 | Cooling Tower CT-10 | PM | 0.26 | 1.15 | 21, 22 | 21, 22, 42 | |
| | | PM ₁₀ | 0.11 | 0.50 | | | |
| | | PM _{2.5} | 0.01 | 0.01 | | | |

Major NSR Summary Table

| Permit Numbers: 46307, PSDTX1580, and N288 | | | | | Issuance Date: August 12, 2025 | | |
|--|---------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | | VOC (5) | 0.63 | 2.76 | | | |
| F-CT-11 | Cooling Tower CT-11 | PM | 0.03 | 0.14 | 20, 22 | 20, 22, 42 | |
| | | PM ₁₀ | 0.01 | 0.06 | | | |
| | | PM _{2.5} | 0.01 | 0.01 | | | |
| | | VOC (5) | 0.04 | 0.08 | | | |
| F-CT-14 | Cooling Tower CT-14 | PM | 0.19 | 0.84 | 20, 23 | 20, 23, 42 | |
| | | PM ₁₀ | 0.08 | 0.37 | | | |
| | | PM _{2.5} | <0.01 | <0.01 | | | |
| | | VOC (5) | 0.88 | 2.03 | | | |
| F-CT-17 | Cooling Tower CT-17 | PM | 0.89 | 3.91 | 20, 23 | 20, 23, 42 | |
| | | PM ₁₀ | 0.39 | 1.71 | | | |
| | | PM _{2.5} | <0.01 | <0.01 | | | |
| | | VOC (5) | 2.04 | 4.69 | | | |
| F-CT-18 | Cooling Tower | PM | 0.68 | 2.99 | 20, 23 | 20, 23, 42 | |

Major NSR Summary Table

| Permit Numbers: 46307, PSDTX1580, and N288 | | | | | Issuance Date: August 12, 2025 | | |
|--|--|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | CT-18 | PM ₁₀ | 0.3 | 1.31 | | | |
| | | PM _{2.5} | <0.01 | <0.01 | | | |
| | | VOC (5) | 1.56 | 3.59 | | | |
| F-TTR | Truck Rack Loading Facility | VOC | 6.47 | 0.26 | 5, 15, 16, 17, 19 | 5, 14, 42 | 5, 16 |
| E-PIBTT | PIB-1 Product Loading B Tank Trucks | VOC | (8) | (8) | 13, 15, 16, 17, 19 | 14, 42 | 14, 42 |
| E-PIB1RC1 | PIB-1 Product Loading Rail Cars – Station 1 | VOC | (8) | (8) | 13, 15, 16, 17, 19 | 14, 42 | 14, 42 |
| E-PIB1RC2 | PIB-1 Product Loading Rail Cars – Station 2 | VOC | (8) | (8) | 13, 15, 16, 17, 19 | 14, 42 | 14, 42 |
| E-PIB2RC1 | PIB-2 Product Loading Rail Cars - Station 1 | VOC | (8) | (8) | 13, 15, 16, 17, 19 | 14, 42 | 14, 42 |
| E-PIB2RC2 | PIB-2 Product Loading Rail Cars - Station 2 | VOC | (8) | (8) | 13, 15, 16, 17, 19 | 14, 42 | 14, 42 |
| E-PIB2TT1 | PIB-2 Product Loading Tank Truck - Station 1 | VOC | (8) | (8) | 13, 15, 16, 17, 19 | 14, 42 | 14, 42 |
| E-PIB2TT2 | PIB-2 Product Loading Tank Truck - Station 2 | VOC | (8) | (8) | 13, 15, 16, 17, 19 | 14, 42 | 14, 42 |
| LOAD-GRP | Loading Emissions Cap | VOC | 0.60 | 1.94 | 13, 15, 16, 17, 19 | 14, 42 | 14, 42 |
| T-P1WW1 | PIB-1 Wastewater Tank | VOC | <0.01 | <0.01 | | | |

Major NSR Summary Table

| Permit Numbers: 46307, PSDTX1580, and N288 | | | | | Issuance Date: August 12, 2025 | | |
|--|---------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | 1 | NH ₃ | 0.07 | 0.01 | | | |
| T-P1WW2 | PIB-1 Wastewater Tank 2 | VOC | <0.01 | <0.01 | | | |
| | | NH ₃ | 0.07 | 0.01 | | | |
| T-P2WW1 | PIB-2 Wastewater Tank 1 | VOC | <0.01 | <0.01 | | | |
| | | NH ₃ | 0.07 | 0.01 | | | |
| T-31 | No. 31 Tank | VOC | 0.40 | 0.81 | 11, 12 | 11, 12, 42 | |
| T-32 | No. 32 Tank | VOC | 0.24 | 0.42 | 11, 12 | 11, 12, 42 | |
| T-71 | Methanol/Ethanol Tank | VOC | 0.36 | 1.14 | 5, 11, 12 | 5, 11, 12, 42 | 5 |
| T-72 | Methanol/Ethanol Tank | VOC | 0.26 | 0.94 | 5, 11, 12 | 5, 11, 12, 42 | 5 |
| T-73 | MTBE/ETBE Storage Tank 73 | VOC | 0.87 | 1.03 | 5, 11, 12 | 5, 11, 12, 42 | 5 |
| T-74 | MTBE/ETBE Storage Tank 74 | VOC | 0.87 | 1.03 | 5, 11, 12 | 5, 11, 12, 42 | 5 |
| T-77 | Tank | VOC | 0.12 | 0.21 | 11, 12 | 11, 12, 42 | |
| T-78 | Tank | VOC | 0.12 | 0.21 | 11, 12 | 11, 12, 42 | |
| T-79 | Tank | VOC | 0.12 | 0.16 | 11, 12 | 11, 12, 42 | |

Major NSR Summary Table

| Permit Numbers: 46307, PSDTX1580, and N288 | | | | | Issuance Date: August 12, 2025 | | |
|--|---------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| T-80 | MeOH/EtOH Storage Tank 80 | VOC | 1.71 | 2.01 | 5, 11, 12 | 5, 11, 12, 42 | 5 |
| T-81 | No. 81 Tank | VOC | 0.33 | 0.02 | 11, 12 | 11, 12, 42 | |
| T-82 | No. 82 Tank | VOC | 4.74 | 1.06 | 5, 11, 12 | 5, 11, 12, 42 | 5 |
| T-84 | No. 84 Tank | VOC | 0.35 | 0.63 | 11 | 11, 42 | |
| T-85 | No. 85 Tank | VOC | 0.10 | 0.01 | 11 | 11, 42 | |
| T-86 | No. 86 Tank | VOC | 0.18 | 0.01 | 11 | 11, 42 | |
| T-103 | MTBE/ETBE Tank | VOC | 0.70 | 1.63 | 5, 9 11, 12 | 5, 9, 11, 12, 42 | 5 |
| T-111 | Tank | VOC | 1.37 | 0.01 | 11 | 11, 42 | |
| T-112 | Tank | VOC | 1.37 | 0.01 | 11 | 11, 42 | |
| T-114 | MTBE/ETBE Tank | VOC | 0.65 | 1.53 | 5, 9 11, 12 | 5, 9, 11, 12, 42 | 5 |
| T-115 | MTBE/ETBE/IC8 Tank | VOC | 0.65 | 1.53 | 5, 9 11, 12 | 5, 9, 11, 12, 42 | 5 |
| T-117 | PIB-1 Process Tank 117 | VOC | 0.32 | (7) | 10, 11 | 10, 11, 42 | |
| T-118 | PIB-1 Process Tank 118 | VOC | 0.32 | (7) | 10, 11 | 10, 11, 42 | |
| T-119 | PIB-1 Process | VOC | 0.32 | (7) | 10, 11 | 10, 11, 42 | |

Major NSR Summary Table

| Permit Numbers: 46307, PSDTX1580, and N288 | | | | | Issuance Date: August 12, 2025 | | |
|--|----------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | Tank 119 | | | | | | |
| T-204 | PIB-2 Process Tank 1 | VOC | 0.35 | (7) | 10, 11 | 10, 11, 42 | |
| T-205 | PIB-2 Process Tank 2 | VOC | 0.35 | (7) | 10, 11 | 10, 11, 42 | |
| T-206 | PIB-2 Process Tank 3 | VOC | 0.35 | (7) | 10, 11 | 10, 11, 42 | |
| TNK-GRP | Tank Emissions Cap | VOC | -- | 1.4 | 11 | 11, 42 | |
| T-Diesel2 | Tank | VOC | 0.28 | 0.01 | 11 | 11, 42 | |
| T-155 | TEA Storage Tank | VOC | 0.01 | 0.01 | 11 | 11, 42 | |
| 1F-511 | Tank | VOC | 1.80 | 0.01 | 11 | 11, 42 | |
| Gas-2 | Tank | VOC | 53.56 | 0.86 | 11 | 11, 42 | |
| T01 | Diesel Tank | VOC | 0.03 | 0.01 | 11 | 11, 42 | |
| 2F26 | Furfural Sump Tank | VOC | 0.01 | 0.01 | 11 | 11, 42 | |
| 4F14 | Furfural Sump Tank | VOC | 0.01 | 0.01 | 11 | 11, 42 | |
| 5F3 | Furfural Sump Tank | VOC | 0.01 | 0.01 | 11 | 11, 42 | |
| PLANT-FUG | Plant Fugitives (5) | VOC | 17.75 | 77.73 | 3, 5, 27, 28, 29, 30, 34 | 3, 5, 27, 28, 29, 42, 43 | 3, 5 |

Major NSR Summary Table

| Permit Numbers: 46307, PSDTX1580, and N288 | | | | | Issuance Date: August 12, 2025 | | |
|--|---------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | | BD | 2.41 | 10.51 | | | |
| | | Other HAPs | 1.24 | 5.42 | | | |
| F-10A | Oil Separation | VOC | 0.27 | 1.18 | | | |
| WW-IDS | Wastewater Drain System | VOC | 0.88 | 3.84 | 36 | 36, 42 | |
| WW-PN | Wastewater Aeration Ponds | VOC | 0.75 | 3.27 | 36 | 36, 42 | |
| DEGREAS1 | Cold Solvent Degreaser | VOC | 3.34 | 0.07 | | | |
| DEGREAS2 | Cold Solvent Degreaser | VOC | 3.34 | 0.07 | | | |
| LABST-1 | Lab Sump Tank | VOC | 0.04 | 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
- HRVOC - highly reactive volatile organic compounds as defined in 30 TAC § 115.10 (ethylene, propylene, butenes and 1,3-butadiene are present at this facility)
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- CO - carbon dioxide
- BD - 1,3-butadiene
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
- PM₁₀ - particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

NH₃ - ammonia

HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

- (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 of BD and total HRVOCs are limited as indicated. The allowable emission rate listed for HRVOCs from this EPN are included in the total VOC emission rate. The HRVOC CAP of 15 tons per year includes the BD emission rate.
- (7) The total annual emission rates for PIB process and storage tanks are limited to the annual cap indicated under EPN TNK-GRP.
- (8) The total PIB product loading emission rates are limited to the hourly and annual caps indicated under EPN LOADGRP which may be loaded through either tank trucks or tank cars or both.

Major NSR Summary Table

| Permit Number: GHGPSDTX202 | | | | Issuance Date: August 12, 2025 | | |
|----------------------------|-----------------|-----------------------------|----------------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| MSS-FLR | BD MSS Flare | CO ₂ (5) | 11.57 | 50, 51 | 49, 50,52 | 50 |
| | | CH ₄ (5) | <0.01 | | | |
| | | N ₂ O (5) | <0.01 | | | |
| | | CO ₂ e | 11.58 | | | |
| EP-5 | Plant Flare | CO ₂ (5) | 6869.86 | 50, 51 | 49, 50,52 | 50 |
| | | CH ₄ (5) | 4.44 | | | |
| | | N ₂ O (5) | 0.01 | | | |
| | | CO ₂ e | 6984.26 | | | |

- (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) CO₂ - carbon dioxide
 N₂O - nitrous oxide
 CH₄ - methane
 HFCs - hydrofluorocarbons
 PFCs - perfluorocarbons
 SF₆ - sulfur hexafluoride
 CO₂e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):
 CO₂ (1), N₂O (298), CH₄(25), SF₆ (22,800), HFC (various), PFC (various)
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
- (5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Major NSR Summary Table

| Permit Numbers: 46426 and N290 | | | | | Issuance Date: August 13, 2025 | | |
|--------------------------------|-----------------|--------------------------|----------------|---------|--|--|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | Ib/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| EP-H9 | Boiler 9 (6) | VOC | 0.70 | 5.88 | 3, 4, 5, 6, 8, 9, 10, 11, 12, 14, 15,17,18, 19 | 3, 4, 5, 6, 8, 10, 11, 12, 14, 15, 17,18, 19, 20, 21, 27 | 3, 4, 10, 11, 15, 19, 22, 23 |
| | | NO _x | 5.35 | 23.43 | | | |
| | | NO _x MSS (5) | 58.45 | 5.84 | | | |
| | | SO ₂ | 2.30 | 2.63 | | | |
| | | PM | 3.99 | 17.46 | | | |
| | | PM ₁₀ | 3.99 | 17.46 | | | |
| | | PM _{2.5} | 3.99 | 17.46 | | | |
| | | CO | 3.95 | 21.26 | | | |
| | | CO MSS (5) | 39.53 | | | | |
| | | NH ₃ | 2.40 | 10.53 | | | |
| Boiler 10 | Boiler 10 (6) | NO _x | 13.30 | 55.50 | 3, 4, 5, 6, 8, 9, 11, 15,17,18 | 3, 4, 5, 6, 8, 11, 15,17, 18, 20, 21, 27 | 3, 4, 11, 22, 23 |
| | | NO _x MSS (5) | 17.24 | | | | |
| | | SO ₂ | 12.27 | 5.02 | | | |
| | | PM | 4.95 | 20.70 | | | |

Major NSR Summary Table

| Permit Numbers: 46426 and N290 | | | | | Issuance Date: August 13, 2025 | | |
|--------------------------------|---|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | | PM ₁₀ | 4.95 | 20.70 | | | |
| | | PM _{2.5} | 4.95 | 20.70 | | | |
| | | CO | 47.90 | 200.40 | | | |
| | | CO MSS (5) | 65.76 | | | | |
| Boiler 11 | Boiler 11 (6) | NO _x | 13.30 | 55.50 | 3, 4, 5, 6, 8, 9, 11, 15,17,18 | 3, 4, 5, 6, 8, 11, 15, 17, 18, 20, 21, 27 | 3, 4, 11, 22, 23 |
| | | NO _x MSS (5) | 17.24 | | | | |
| | | SO ₂ | 12.27 | 5.02 | | | |
| | | PM | 4.95 | 20.70 | | | |
| | | PM ₁₀ | 4.95 | 20.70 | | | |
| | | PM _{2.5} | 4.95 | 20.70 | | | |
| | | CO | 47.90 | 200.40 | | | |
| | | CO MSS (5) | 65.76 | | | | |
| Boilers 10 and 11 | VOC Emission CAP for Boilers 10 and 11(6) | VOC | 14.86 | 39.90 | 3, 4,17 | 3, 4, 17, 20, 21 | 3, 4, 22 |

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC
 - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x
 - total oxides of nitrogen
- SO₂
 - sulfur dioxide
- PM
 - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀
 - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5}
 - particulate matter equal to or less than 2.5 microns in diameter
- CO
 - carbon monoxide
- NH₃
 - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission limits apply during startup and shutdown as defined in the special conditions of this permit.
- (6) Planned MSS emissions are included within normal operation limits except where noted for NO_x and CO.

Major NSR Summary Table

| Permit Numbers: 19806 and PSDTX1586 | | | | | Issuance Date: February 28, 2025 | | |
|-------------------------------------|---|--------------------------|----------------|---------|---|---|---|
| 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 |
| EB-1B-505 | Dehydro No. 2 Heat Recovery Boiler, Dehydro No. 2 Air Heater, DH2 Reactors, Dehydro No. 2 Regen Gas Generator Turbine | NO _x | 26.21 | 76.87 | 4, 7, 11,14, 17, 33, 34, 35 | 4, 7, 14, 17, 33, 34, 35, 40, 41,42 | 4, 11, 17, 33, 34, 35 |
| | | CO | 56.35 | 134.37 | | | |
| | | VOC | 3.79 | 14.44 | | | |
| | | PM | 17.31 | 66.21 | | | |
| | | PM ₁₀ | 17.31 | 66.21 | | | |
| | | PM _{2.5} | 17.31 | 66.21 | | | |
| | | SO ₂ | 21.81 | 20.07 | | | |
| | | NH ₃ | 8.40 | 35.57 | | | |
| EB-1B-505MSS | Dehydro No. 2 Heat Recovery Boiler, Dehydro No. 2 Air Heater, DH2 Reactors, Dehydro No. 2 Regen Gas Generator | NO _x | 29.75 | 4.46 | 14, 17, 30, 31, 32 | 14, 17, 32, 42 | 17, 32 |
| | | CO | 44.67 | 6.70 | | | |
| | | VOC | 2.38 | 0.36 | | | |
| | | PM | 0.89 | 0.13 | | | |
| | | PM ₁₀ | 0.89 | 0.13 | | | |
| | | PM _{2.5} | 0.89 | 0.13 | | | |
| | | SO ₂ | 0.07 | 0.01 | | | |

Major NSR Summary Table

| Permit Numbers: 19806 and PSDTX1586 | | | | | Issuance Date: February 28, 2025 | | |
|-------------------------------------|---|--------------------------|----------------|---------|---|---|---|
| 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 |
| EB-1B-506 | Dehydro No. 2 Heat Recovery Boiler, Dehydro No. 2 Regen Gas Generator | NO _x | 6.61 | 26.87 | 4, 7, 14, 17, 33, 34, 35 | 4, 7, 14, 17, 33, 34, 35, 40, 41, 42 | 4, 17, 33, 34, 35 |
| | | CO | 3.95 | 16.48 | | | |
| | | VOC | 1.16 | 4.51 | | | |
| | | PM | 8.48 | 32.19 | | | |
| | | PM ₁₀ | 8.48 | 32.19 | | | |
| | | PM _{2.5} | 8.48 | 32.19 | | | |
| | | SO ₂ | 8.67 | 11.95 | | | |
| | | NH ₃ | 4.79 | 20.01 | | | |
| EB-1B-506MSS | Dehydro No. 2 Heat Recovery Boiler, Dehydro No. 2 Regen Gas Generator | NO _x | 74.24 | 11.14 | 14, 17, 30, 31, 32 | 14, 17, 32, 42 | 17, 32 |
| | | CO | 35.89 | 5.38 | | | |
| | | VOC | 2.15 | 0.32 | | | |
| | | PM | 3.15 | 0.47 | | | |
| | | PM ₁₀ | 3.15 | 0.47 | | | |
| | | PM _{2.5} | 3.15 | 0.47 | | | |
| | | SO ₂ | 0.11 | 0.41 | | | |

Major NSR Summary Table

| Permit Numbers: 19806 and PSDTX1586 | | | | | Issuance Date: February 28, 2025 | | |
|-------------------------------------|-----------------------------------|--------------------------|----------------|---------|---|---|---|
| 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 |
| EB-1B-2501 | Dehydro No. 2 Unit Feed Heater | NO _x | 2.94 | 12.88 | 5, 7, 14, 15 | 5, 7, 14, 41, 42 | 5 |
| | | CO | 3.28 | 14.36 | | | |
| | | VOC | 0.53 | 2.31 | | | |
| | | PM | 0.73 | 3.20 | | | |
| | | PM ₁₀ | 0.73 | 3.20 | | | |
| | | PM _{2.5} | 0.73 | 3.20 | | | |
| | | SO ₂ | 0.06 | 0.25 | | | |
| F-20 | Dehydro 2 Unit Fugitives (5) | VOC | 0.62 | 2.72 | 4, 23, 24, 27, 36, 37, 38 | 4, 27, 36, 37, 38, 40, 42 | 4 |
| | | NH ₃ | 0.93 | 4.08 | | | |
| DH2CAT-MSS | DH2 Catalyst Change Out Fugitives | PM | 0.39 | 0.04 | 16 | | |
| | | PM ₁₀ | 0.39 | 0.04 | | | |
| | | PM _{2.5} | 0.39 | 0.04 | | | |
| PHEN-GEN | Emergency Diesel Generator | NO _x | 0.88 | 0.05 | 4, 5, 14, 39 | 4, 5, 14, 39, 41, 42 | 4, 5 |
| | | CO | 1.10 | 0.06 | | | |
| | | VOC | 0.88 | 0.05 | | | |

Major NSR Summary Table

| Permit Numbers: 19806 and PSDTX1586 | | | | | Issuance Date: February 28, 2025 | | |
|-------------------------------------|-------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lbs/hour | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | | PM | 0.22 | 0.01 | | | |
| | | PM ₁₀ | 0.22 | 0.01 | | | |
| | | PM _{2.5} | 0.22 | 0.01 | | | |
| | | SO ₂ | 0.01 | 0.01 | | | |
| T-IF-924 | Dehydro No.2 Unit Tank IF-924 | VOC | 0.91 | 0.04 | | | |
| F-CT-3 | Cooling Tower CT-3 | PM | 0.61 | 2.67 | 25, 26 | 25, 26 | |
| | | PM ₁₀ | 0.27 | 1.16 | | | |
| | | PM _{2.5} | < 0.01 | < 0.01 | | | |
| | | VOC | 2.79 | 7.63 | | | |

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC
 - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x
 - total oxides of nitrogen
 - SO₂
 - sulfur dioxide
 - PM
 - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀
 - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5}
 - particulate matter equal to or less than 2.5 microns in diameter
 - CO
 - carbon monoxide
 - NH₃
 - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
TPC Group LLC
Authorizing the Construction and Operation of
Houston Plant
Located at Houston, Harris County, Texas
Latitude 29.699166 Longitude -95.253888

Permits: 22052, GHGPSDTX201, N286 and
PSDTX1578

Revision Date: August 13, 2025

Expiration Date: August 3, 2027

A handwritten signature in black ink that reads "K. Keel".

For the Commission

- 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
- 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]
- 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)]
- 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)]
- 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)]
- 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)]
- Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

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

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

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

Common Acronyms in Air Permits

| | |
|--|---|
| °C = Temperature in degrees Celsius | GLC _{max} = maximum (predicted) ground-level concentration |
| °F = Temperature in degrees Fahrenheit | gpm = gallon per minute |
| °K = Temperature in degrees Kelvin | gr/1000scf = grain per 1000 standard cubic feet |
| µg = microgram | gr/dscf = grain per dry standard cubic feet |
| µg/m ³ = microgram per cubic meter | H ₂ CO = formaldehyde |
| acfm = actual cubic feet per minute | H ₂ S = hydrogen sulfide |
| AMOC = alternate means of control | H ₂ SO ₄ = sulfuric acid |
| AOS = alternative operating scenario | HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C |
| AP-42 = Air Pollutant Emission Factors, 5th edition | HC = hydrocarbons |
| APD = Air Permits Division | HCl = hydrochloric acid, hydrogen chloride |
| API = American Petroleum Institute | Hg = mercury |
| APWL = air pollutant watch list | HGB = Houston/Galveston/Brazoria |
| BPA = Beaumont/ Port Arthur | hp = horsepower |
| BACT = best available control technology | hr = hour |
| BAE = baseline actual emissions | IFR = internal floating roof tank |
| bbl = barrel | in H ₂ O = inches of water |
| bbl/day = barrel per day | in Hg = inches of mercury |
| bhp = brake horsepower | IR = infrared |
| BMP = best management practices | ISC3 = Industrial Source Complex, a dispersion model |
| Btu = British thermal unit | ISCST3 = Industrial Source Complex Short-Term, a dispersion model |
| Btu/scf = British thermal unit per standard cubic foot or feet | K = Kelvin; extension of the degree Celsius scaled-down to absolute zero |
| CAA = Clean Air Act | LACT = lease automatic custody transfer |
| CAM = compliance-assurance monitoring | LAER = lowest achievable emission rate |
| CEMS = continuous emissions monitoring systems | lb = pound |
| cfm = cubic feet (per) minute | lb/day = pound per day |
| CFR = Code of Federal Regulations | lb/hr = pound per hour |
| CN = customer ID number | lb/MMBtu = pound per million British thermal units |
| CNG = compressed natural gas | LDAR = Leak Detection and Repair (Requirements) |
| CO = carbon monoxide | LNG = liquefied natural gas |
| COMS = continuous opacity monitoring system | LPG = liquefied petroleum gas |
| CPMS = continuous parametric monitoring system | LT/D = long ton per day |
| DFW = Dallas/ Fort Worth (Metroplex) | m = meter |
| DE = destruction efficiency | m ³ = cubic meter |
| DRE = destruction and removal efficiency | m/sec = meters per second |
| dscf = dry standard cubic foot or feet | MACT = maximum achievable control technology |
| dscfm = dry standard cubic foot or feet per minute | MAERT = Maximum Allowable Emission Rate Table |
| ED = (TCEQ) Executive Director | MERA = Modeling and Effects Review Applicability |
| EF = emissions factor | mg = milligram |
| EFR = external floating roof tank | mg/g = milligram per gram |
| EGU = electric generating unit | mL = milliliter |
| EI = Emissions Inventory | MMBtu = million British thermal units |
| ELP = El Paso | MMBtu/hr = million British thermal units per hour |
| EPA = (United States) Environmental Protection Agency | MSDS = material safety data sheet |
| EPN = emission point number | MSS = maintenance, startup, and shutdown |
| ESL = effects screening level | MW = megawatt |
| ESP = electrostatic precipitator | NAAQS = National Ambient Air Quality Standards |
| FCAA = Federal Clean Air Act | NESHAP = National Emission Standards for Hazardous Air Pollutants |
| FCCU = fluid catalytic cracking unit | NGL = natural gas liquids |
| FID = flame ionization detector | NNSR = nonattainment new source review |
| FIN = facility identification number | NO _x = total oxides of nitrogen |
| ft = foot or feet | NSPS = New Source Performance Standards |
| ft/sec = foot or feet per second | |
| g = gram | |
| gal/wk = gallon per week | |
| gal/yr = gallon per year | |
| GLC = ground level concentration | |

PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM_{2.5} = particulate matter equal to or less than 2.5 microns in diameter
PM₁₀ = total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
POC = products of combustion
ppb = parts per billion
ppm = parts per million
ppmv = parts per million (by) volume
psia = pounds (per) square inch, absolute
psig = pounds (per) square inch, gage
PTE = potential to emit
RA = relative accuracy
RATA = relative accuracy test audit
RM = reference method
RVP = Reid vapor pressure
scf = standard cubic foot or feet
scfm = standard cubic foot or feet (per) minute
SCR = selective catalytic reduction
SIL = significant impact levels
SNCR = selective non-catalytic reduction
SO₂ = sulfur dioxide
SOCMI = synthetic organic chemical manufacturing industry
SRU = sulfur recovery unit
TAC = Texas Administrative Code
TCAA = Texas Clean Air Act
TCEQ = Texas Commission on Environmental Quality
TD = Toxicology Division
TLV = threshold limit value
TMDL = total maximum daily load
tpd = tons per day
tpy = tons per year
TVP = true vapor pressure
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VRU = vapor recovery unit or system

Special Conditions

Permit Numbers 22052, PSDTX1578, N286, and GHGPSDTX201

Emissions Limitations

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates" (MAERT), and those sources are limited to the emission limits and other conditions specified in that table. **(6/22)**
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. **(6/22)**

Federal Applicability

3. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60):
 - A. Subpart A, General Provisions.
 - B. Subpart Kb, Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.
 - C. Subpart VV, Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006.
4. These facilities shall comply with all applicable requirements of the EPA regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63:
 - A. Subpart A, General Provisions.
 - B. Subpart Y, Marine Tank Vessel Loading Operations.

Leak Detection and Repair Program

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

5. Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment: **(02/14)**
 - A. The requirements of paragraphs F and G shall not apply (1) where the volatile organic compounds (VOC) has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68°F or (2) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made available upon request.

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

- (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, agitators, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.
- C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.
- D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph A above.
- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.
- Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the isolation of equipment for hot work or the removal of a component for repair or replacement results in an open ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period;
- (1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or
 - (2) the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 250 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.
- F. Accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device

are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

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

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

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

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

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

- H. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 250 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782(c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative

daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782(c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.

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

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

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

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

$$(V_l + V_s) \times 100/V_t = V_p$$

Where:

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

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

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

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

- K. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.
- L. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standard, or an applicable National Emission Standard for Hazardous Air Pollutants and does not constitute approval of alternative standards for these regulations.

6. The following additional requirements apply to Special Condition No. 5: **(11/09)**

- A. In addition to the weekly physical inspection required by Item E of Special Condition No. 5, all connectors in gas/vapor and light liquid service shall be monitored annually with an approved gas analyzer in accordance with Items F thru J of Special Condition No. 5. Alternative monitoring frequency schedules ("skip options") of Title 40 Code of Federal Regulations Part 63, Subpart H, National Emission Standards for Organic Hazardous Air Pollutants for

Equipment Leaks, may be used in lieu of the monitoring frequency required by this permit condition. Compliance with this condition does not assure compliance with requirements of applicable state or federal regulation and does not constitute approval of alternative standards for these regulations. (28CNTA)

- B. The leak definition level for identifying leaking or damaged valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOCs in Special Condition No. 5H shall be 250 ppmv instead of the applicable 500 ppmv.

Piping, Valves, Pumps, Agitators, and Compressors - Intensive Directed Maintenance – 28LAER

7. Except as may be provided for in the Special Conditions of this permit, the following requirements apply to the above-referenced equipment: **(6/22)**

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

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

- piping and instrumentation diagram (PID);
 - a written or electronic database or electronic file;
 - color coding;
 - a form of weatherproof identification; or
 - designation of exempted process unit boundaries.
- B. Construction of new and reworked piping, valves, pump systems, 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 paragraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified may instead be monitored annually.
- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an

approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance.

Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through. In addition, all connectors shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program in accordance with items F thru J of this special condition.

In lieu of the monitoring frequency specified above, connectors may be monitored on a semiannual basis if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Connectors may be monitored on an annual basis if the percent of connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

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

The percent of connectors leaking shall be determined using the following formula:

$$(Cl + Cs) \times 100/Ct = Cp$$

Where:

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

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

Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including non-accessible and unsafe to monitor connectors.

Cp = the percentage of leaking connectors for the monitoring period.

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

- (1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or
- (2) The open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 250 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

- F. Accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program. Non

accessible valves shall be monitored by leak-checking for fugitive emissions at least annually using an approved gas analyzer with a directed maintenance program. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown. A check of the reading of the pressure-sensing device to verify disc integrity shall be performed at least quarterly and recorded in the unit log or equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph.

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.

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

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

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

- H. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 250 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782

(c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.

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

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

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

- L. The percent of valves leaking used in paragraph K shall be determined using the following formula:

$$(Vl + Vs) \times 100/Vt = Vp$$

Where:

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

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

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

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

- M. Any component found to be leaking by physical inspection (i.e., sight, sound, or smell) shall be repaired or monitored with an approved gas analyzer within 15 days to determine whether the component is leaking in excess of 250 ppmv of VOC. If the component is found to be leaking in excess of 250 ppmv of VOC, it shall be subject to the repair and replacement requirements contained in this special condition.

Storage Tanks

8. 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 95F, 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 weathershield 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 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. Emissions for tanks shall be calculated using: the TCEQ publication titled "Technical Guidance Package for Chemical Sources – Storage Tanks." **(07/11)**

Operational Limitations and Work Practices

9. Docks A and B Marine Loading Facilities shall be used for the following purposes:
 - A. Pressurized loading and unloading of butadiene, butylenes, mixed butadiene, raffinates, butanes, and propane to and from ships and barges.

Special Conditions

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- B. Controlled loading of MTBE/ETBE and diisobutylene (DIB) into ships and barges with the vapors collected and sent to the Marine Loading Flare (EPN E-563). The vapor capture system shall be 100 percent efficient in the collection of the vapors during vacuum operation and 99.9 percent efficient during non-vacuum inert vessel operation. The flare shall operate with a destruction efficiency of 98 percent, prior to the start of operation of the Thermal Oxidizer. After the start of operation of the Thermal Oxidizer, the Thermal Oxidizer shall comply with the applicable conditions. **(6/22)**
10. The combined Docks A and B Barge/Ship Loading Facility is limited to the products, the annual loading rates expressed in gallons per year (gal/yr), and the maximum transfer expressed in gallon per hour (gal/hr) in Table 1. **(02/14)**
11. The holder of this permit shall maintain loading equipment in such a manner that vapor-tight connections can be made. A blower system shall be installed which will service Docks A and B to produce a vacuum at the ship or barge during loading operations of MTBE/ETBE, Isooctene and DIB when authorized by U.S. Coast Guard (USCG) regulations 33 CFR Chapter 154. Should the vapor control system cease operating for any reason during a loading operation, that loading operation may be completed before loading operations must cease. The vapor control system shall be repaired before loading operations can resume. It is not permissible to begin loading MTBE/ETBE, Isooctene and DIB at any time without the vapor control system in proper operating condition.

A pressure/vacuum gauge shall be installed on the vapor system at the dock to verify a negative pressure at the vessel when authorized by USCG regulations. Normal operation will be negative two inches of water. An alarm will indicate operating pressure of greater than negative one inch of water. When loading inerted vessels, pressure will be slightly positive as specified by USCG regulations (33 CFR Chapter 154). Records of all vapor control system maintenance downtime and repairs shall be maintained for a period of at least two years and shall be made available to representatives of the TCEQ or local governmental air pollution control agencies upon request. **(07/11)**

Flare

12. Flare (EPN E-563) shall be designed and operated in accordance with the following requirements: **(10/14)**
- 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 flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications

- C. The flare shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. This shall be ensured by the use of air assist to the flare.
- D. The permit holder shall install a continuous flow monitor and a Btu analyzer/calorimeter on or before February 12, 2015 that provide a record of the vent stream flow and Btu content 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 $\pm 5.0\%$, temperature monitor shall be $\pm 2.0\%$ at absolute temperature, and pressure monitor shall be ± 5.0 mm Hg;
- The calorimeter shall be calibrated, installed, operated, and maintained, in accordance with manufacturer recommendations, to continuously measure and record the net heating value of the gas sent to the flare, in British thermal units/standard cubic foot of the gas.
- The 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.
- E. The following requirements apply to capture systems for the flare.
- (1) The permit holder is subject to the following requirements.
 - (a) Conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or
 - (b) 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 250 ppmv above background.
 - (2) The control device shall not have a bypass.
 - (3) The date and results of each inspection performed shall be recorded. If the results of any inspection are not satisfactory, the deficiencies shall be recorded and the permit holder shall promptly take necessary corrective action, recording each action with the date completed.
- F. The flare is limited to 200 hours per year of operation for use in MSS activities while the thermal oxidizer is down for maintenance. **(6/22)**

Thermal Oxidizer

13. The thermal oxidizer, EPN No. DOCK-TO, shall achieve a VOC destruction efficiency greater than 99.9 percent. **(6/22)**
14. The thermal oxidizer firebox exit temperature shall be maintained at not less than 1400°F and exhaust oxygen concentration not less than 3 percent on a six-minute average while waste gas is being fed into the oxidizer prior to initial stack testing. After the initial stack test has been completed, the six minute average temperature shall be equal to, or greater than the respective

hourly average maintained during the most recent satisfactory stack testing required by Special Condition No. 17. **(6/22)**

15. The thermal oxidizer exhaust temperature shall be continuously monitored and recorded when waste gas is directed to the oxidizer. The temperature measurement device shall reduce the temperature readings to an averaging period of 6 minutes or less and record it at that frequency. The temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of ± 0.75 percent of the temperature being measured expressed in degrees Celsius or $\pm 2.5^{\circ}\text{C}$.

Quality assured (or valid) data must be generated when the thermal oxidizer is operating except during the performance of a daily zero and span check. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the thermal oxidizer operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded. **(6/22)**

16. The oxygen analyzer used to satisfy Special Condition No. 14 shall continuously monitor and record oxygen concentration when waste gas is directed to the oxidizer. It shall reduce the oxygen readings to an averaging period of 6 minutes or less and record it at that frequency.

The oxygen analyzer shall be zeroed and spanned daily and corrective action taken when the 24-hour span drift exceeds two times the amounts specified Performance Specification No. 3, 40 CFR Part 60, Appendix B. Zero and span is not required on weekends and plant holidays if instrument technicians are not normally scheduled on those days.

The analyzer shall be quality-assured at least semiannually using cylinder gas audits (CGAs) in accordance with 40 CFR Part 60, Appendix F, Procedure 1, § 5.1.2, with the following exception: a relative accuracy test audit is not required once every four quarters (i.e., two successive semiannual CGAs may be conducted). An equivalent quality-assurance method approved by the TCEQ may also be used. Successive semiannual audits shall occur no closer than four months. Necessary corrective action shall be taken for all CGA exceedances of ± 15 percent accuracy and any continuous emissions monitoring system downtime in excess of 5 percent of the incinerator operating time. These occurrences and corrective actions shall be reported to the appropriate TCEQ Regional Director on a quarterly basis. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director.

Quality assured (or valid) data must be generated when the thermal oxidizer is operating except during the performance of a daily zero and span check. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the thermal oxidizer operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded. **(6/22)**

Initial Determination of Compliance

17. The permit holder shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the Thermal Oxidizer (EPN DOCK-TO) to demonstrate compliance with the MAERT and Special Condition No.

13. 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. **(6/22)**

A. The appropriate TCEQ Regional Office shall be notified not less than 45 days prior to sampling. The notice shall include:

- (1) Proposed date for pretest meeting.
- (2) Date sampling will occur.
- (3) Name of firm conducting sampling.
- (4) Type of sampling equipment to be used.
- (5) Method or procedure to be used in sampling.
- (6) Description of any proposed deviation from the sampling procedures specified in this permit or TCEQ/EPA sampling procedures.
- (7) Procedure/parameters to be used to determine worst case emissions.

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 Thermal Oxidizer (EPN DOCK-TO) to be tested for include (but are not limited to) VOC, CO, NO_x.
- C. Sampling shall occur within 60 days after achieving the maximum operating rate, but no later than 180 days after initial start-up of the facilities (or increase in production, as appropriate) and at such other times (identify the need for any periodic sampling here) as may be required by the TCEQ Executive Director. Requests for additional time to perform sampling shall be submitted to the appropriate regional office.
- D. The facility being sampled shall operate at the maximum loading rate during stack emission testing. These conditions/parameters and any other primary operating parameters that affect the emission rate shall be monitored and recorded during the stack test. Any additional parameters shall be determined at the pretest meeting and shall be stated in the sampling report. Permit conditions and parameter limits may be waived during stack testing performed under this condition if the proposed condition/parameter range is identified in the test notice specified in paragraph A and accepted by the TCEQ Regional Office. Permit allowable emissions and emission control requirements are not waived and still apply during stack testing periods.

During subsequent operations, if the loading rate is greater than that recorded during the test period, stack sampling shall be performed at the new operating conditions within 120 days. This sampling may be waived by the TCEQ Air Section Manager for the region.

- E. Copies of the final sampling report shall be forwarded to the offices below within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions entitled "Chapter 14, Contents of Sampling Reports" of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:
 - One copy to the appropriate TCEQ Regional Office.
 - One copy to each local air pollution control program.
- F. Sampling ports and platform(s) shall be incorporated into the design of (source stack and EPN) according to the specifications set forth in the attachment entitled "Chapter 2, Guidelines for Stack Sampling Facilities" of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual. Alternate sampling facility designs must be submitted for approval to the TCEQ Regional Director.

Product Loading

- 18. The permit holder shall maintain and update monthly emissions record which includes calculated emissions of VOC from all loading operations over the previous rolling 12-month period. The record shall include the loading spot, control method used, quantity loaded in gallons, name of the liquid loaded, vapor molecular weight, liquid temperature in degrees Fahrenheit, liquid vapor pressure at the liquid temperature in psia, liquid throughput for the previous month and rolling 12 months to date. Records of VOC temperature are not required to be kept for liquids loaded from unheated tanks which receive liquids that are at or below ambient temperatures. Emissions shall be calculated using the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Loading Operations."
- 19. All product loading lines and connectors shall be visually inspected for any defects prior to hookup. Product loading 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.
- 20. "Dry break" loading equipment will be used during pressurized loading and unloading. **(02/14)**
- 21. Before loading a marine vessel without a vacuum, the permit holder shall verify that the marine vessel has passed a semiannual vapor tightness test as specified in 40 CFR §63.565(c) or 40 CFR §61.304(f). **(02/14)**

Recordkeeping Requirements

- 22. Records shall be kept of product loading to marine vessels to demonstrate compliance with Special Condition Nos. 9 and 10. These records shall include (but are not limited to) the following for atmospheric, vacuum and inerted loading: **(02/14)**
 - A. Date of loading;
 - B. Product loaded;
 - C. Amount of product loaded;
 - D. Type of vessel being loaded (ship or barge);
 - E. Loading rate (bbl/hr);

- F. Type of loading (atmospheric, vacuum inerted vessel); and
- G. Cumulative annual total loading rate (lbs/yr).

These records shall be kept for a period of at least two years and shall be made available to representatives of the TCEQ or local governmental air pollution control agencies upon request.

Offset Conditions

- 23. This Nonattainment New Source Review (NNSR) permit is issued/approved based on the requirement that the permit holder offset the project emission increase for facilities authorized by this permit prior to the commencement of operation, through participation in the TCEQ Emission Banking and Trading (EBT) Program in accordance with the rules in 30 TAC Chapter 101, Subchapter H. **(6/22)**
- 24. The permit holder shall use the Emissions Banking and Trading (EBT) Programs to meet the offset conditions for the Butadiene Expansion Project (NSR Project No. 312937), as provided in the Offset Conditions of Permit Number 46426. **(8/25)**
- 25. Prior to the commencement of operation, the permit holder shall obtain approval from the TCEQ EBT Program for the allowances and/or credits being used and then submit a permit alteration or amendment request for Permit Number 46426 to the TCEQ Air Permits Division (and copy the TCEQ Regional Office) to identify approved credits by TCEQ credit certificate number. **(8/25)**
- 26. This permit is conditioned on the completion of all emission reduction projects represented in the most recent Table 3F, Project Contemporaneous Changes, submitted for the amendment with the PI-1 dated March 5, 2020. This reduction of emissions shall occur not later than the commencement of operation of the permitted facilities represented by this permit. The holder of this permit shall maintain records of the emission reductions and provide access and/or copies upon request to the TCEQ Executive Director, or representatives, or any local air pollution control program having jurisdiction. Construction of these facilities must commence as defined in 40 CFR 52.21(b)(9) Prevention of Significant Deterioration or 40 CFR 51.165(a)(1)(xvi) (nonattainment) no later than five years after the reductions are actually accomplished, or the above reductions are no longer creditable and the permit is automatically void. **(6/22)**

Greenhouse Gas Emissions

- 27. Permit holders must keep records sufficient to demonstrate compliance with 30 Texas Administrative Code § 116.164. If construction, a physical change or a change in method of operation results in Prevention of Significant Deterioration (PSD) review for criteria pollutants, records shall be sufficient to demonstrate the amount of emissions of Greenhouse Gas (GHG) from the source as a result of construction, a physical change or a change in method of operation does not require authorization under 30 TAC §116.164(a). If there is construction, a physical change or change in the method of operation that will result in a net emission increase of 75,000 tpy or more CO_{2e} and PSD review is triggered for criteria pollutants, greenhouse gas emissions are subject to PSD review. **(6/22)**
- 28. Monitoring, quality assurance/quality control requirements, emission calculation methodologies, record keeping, and reporting requirements related to GHG emissions shall adhere to the applicable requirements in 40 CFR Part 98 and in this permit. **(6/22)**

Special Conditions

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29. Permittee shall calculate the CO_{2e} emissions on a 12-month rolling basis, based on the procedures and Global Warming Potentials (GWP) contained in Greenhouse Gas Regulations, 40 CFR Part 98, Subpart A, Table A-1. **(6/22)**
30. Records of emissions of GHG, and how they were determined, in compliance with Special Condition Nos. 28 29, and 30 must be maintained by the holder of this permit in a form suitable for inspection for a period of five years after collection and must be made available upon request to representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction. **(6/22)**

Date: August 13, 2025

TABLE 1
 Permit Numbers 22052, PSDTX1578, N286, and GHGPSDTX201
 Authorized Products, Marine Loading Rates,
 and Annual Transfers for Dock A and Dock B

| Material Loaded | Loading Vessel | Type of Loading | Throughput | |
|-----------------|----------------|----------------------------|------------------|-------------------|
| | | | Max (100 gal/hr) | Avg (1000 gal/yr) |
| MTBE/ETBE | Ship | Submerged Non-Vacuum Inert | 252 | 208,610 |
| MTBE/ETBE | Ship | Submerged Vacuum-Assist | 252 | 148,990 |
| MTBE/ETBE | Barge | Submerged Vacuum-Assist | 252 | 256,923 |
| Diisobutylene | Ship | Submerged Non-Vacuum Inert | 252 | 59,916 |
| Diisobutylene | Ship | Submerged Vacuum-Assist | 252 | 0 |
| Diisobutylene | Barge | Submerged Vacuum-Assist | 252 | 39,944 |
| Isooctene | Ship | Submerged Vacuum-Assist | 252 | 124,590 |
| Isooctene | Barge | Submerged Vacuum-Assist | 252 | 124,590 |
| Butadiene | Ship or Barge | Pressurized | 126 | 221,329 |
| Butylenes | Ship or Barge | Pressurized | 105 | 36,702 |
| Mixed Butadiene | Ship or Barge | Pressurized | 105 | 231,933 |
| Raffinates | Ship or Barge | Pressurized | 105 | 138,000 |
| Butanes | Ship or Barge | Pressurized | 126 | 99,677 |
| Propane | Ship or Barge | Pressurized | 126 | 23,612 |

Date: June 13, 2022

Emission Sources - Maximum Allowable Emission Rates

Permit Number 22052

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) |
| E-563 | Marine Loading Flare | NOx | 3.14 | 0.08 |
| | | SO ₂ | <0.01 | 0.01 |
| | | CO | 26.85 | 0.72 |
| | | VOC | 39.01 | 0.50 |
| C-5 | Collection Losses | VOC | 0.94 | 0.21 |
| F-Dock | Dock Fugitives (5) | VOC | 0.71 | 3.07 |
| T-87 | MTBE/ETBE/MeOH/EtOH Storage Tank 87 | VOC | 3.87 | 0.60 |
| L-5 | Ship and Barge Loading Dock Fugitives (6) | VOC | 0.10 | 0.44 |
| EP-5 | Plant Flare (6) | VOC | 27.36 | 6.65 |
| | | NOx | 3.77 | 0.92 |
| | | SO ₂ | 0.01 | 0.01 |
| | | CO | 20.49 | 5.00 |
| FUG-BD-D | Dock Fugitives | VOC | 0.03 | 0.12 |
| Dock-TO | Dock Thermal Oxidizer | VOC | 2.90 | 1.84 |
| | | NOx | 0.84 | 3.67 |
| | | SO ₂ | 0.02 | 0.08 |
| | | PM | 0.31 | 1.37 |
| | | PM ₁₀ | 0.31 | 1.37 |
| | | PM _{2.5} | 0.31 | 1.37 |
| | | CO | 0.63 | 2.75 |

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
PM₁₀ - particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Emissions are only those associated with pressurized loading at Docks A and B.

Date: June 13, 2022

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX201

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates |
|------------------------|-----------------------|--------------------------|----------------|
| | | | TPY (4) |
| E-563 | Marine Loading Flare | CO ₂ (5) | 235.04 |
| | | CH ₄ (5) | <0.01 |
| | | N ₂ O (5) | <0.01 |
| | | CO ₂ e | 234.93 |
| Dock-TO | Dock Thermal Oxidizer | CO ₂ (5) | 5781.23 |
| | | CH ₄ (5) | <0.01 |
| | | N ₂ O (5) | <0.01 |
| | | CO ₂ e | 5781.23 |

- (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) CO₂ - carbon dioxide
 N₂O - nitrous oxide
 CH₄ - methane
 HFCs - hydrofluorocarbons
 PFCs - perfluorocarbons
 SF₆ - sulfur hexafluoride
 CO₂e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):
 CO₂ (1), N₂O (298), CH₄(25), SF₆ (22,800), HFC (various), PFC (various)
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
- (5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Date: June 13, 2022



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
TPC Group LLC
Authorizing the Construction and Operation of
Houston Plant
Located at Houston, Harris County, Texas
Latitude 29.699166 Longitude -95.253888

Permits: 46307, GHGPSDTX202, N288 and
PSDTX1580

Revision Date: August 12, 2025

Expiration Date: July 25, 2035

A handwritten signature in black ink that reads "K. Keel".

For the Commission

- 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
- 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]
- 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)]
- 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)]
- 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)]
- 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)]
- Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

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

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

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

Common Acronyms in Air Permits

| | |
|--|---|
| °C = Temperature in degrees Celsius | GLC _{max} = maximum (predicted) ground-level concentration |
| °F = Temperature in degrees Fahrenheit | gpm = gallon per minute |
| °K = Temperature in degrees Kelvin | gr/1000scf = grain per 1000 standard cubic feet |
| µg = microgram | gr/dscf = grain per dry standard cubic feet |
| µg/m ³ = microgram per cubic meter | H ₂ CO = formaldehyde |
| acfm = actual cubic feet per minute | H ₂ S = hydrogen sulfide |
| AMOC = alternate means of control | H ₂ SO ₄ = sulfuric acid |
| AOS = alternative operating scenario | HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C |
| AP-42 = Air Pollutant Emission Factors, 5th edition | HC = hydrocarbons |
| APD = Air Permits Division | HCl = hydrochloric acid, hydrogen chloride |
| API = American Petroleum Institute | Hg = mercury |
| APWL = air pollutant watch list | HGB = Houston/Galveston/Brazoria |
| BPA = Beaumont/ Port Arthur | hp = horsepower |
| BACT = best available control technology | hr = hour |
| BAE = baseline actual emissions | IFR = internal floating roof tank |
| bbl = barrel | in H ₂ O = inches of water |
| bbl/day = barrel per day | in Hg = inches of mercury |
| bhp = brake horsepower | IR = infrared |
| BMP = best management practices | ISC3 = Industrial Source Complex, a dispersion model |
| Btu = British thermal unit | ISCST3 = Industrial Source Complex Short-Term, a dispersion model |
| Btu/scf = British thermal unit per standard cubic foot or feet | K = Kelvin; extension of the degree Celsius scaled-down to absolute zero |
| CAA = Clean Air Act | LACT = lease automatic custody transfer |
| CAM = compliance-assurance monitoring | LAER = lowest achievable emission rate |
| CEMS = continuous emissions monitoring systems | lb = pound |
| cfm = cubic feet (per) minute | lb/day = pound per day |
| CFR = Code of Federal Regulations | lb/hr = pound per hour |
| CN = customer ID number | lb/MMBtu = pound per million British thermal units |
| CNG = compressed natural gas | LDAR = Leak Detection and Repair (Requirements) |
| CO = carbon monoxide | LNG = liquefied natural gas |
| COMS = continuous opacity monitoring system | LPG = liquefied petroleum gas |
| CPMS = continuous parametric monitoring system | LT/D = long ton per day |
| DFW = Dallas/ Fort Worth (Metroplex) | m = meter |
| DE = destruction efficiency | m ³ = cubic meter |
| DRE = destruction and removal efficiency | m/sec = meters per second |
| dscf = dry standard cubic foot or feet | MACT = maximum achievable control technology |
| dscfm = dry standard cubic foot or feet per minute | MAERT = Maximum Allowable Emission Rate Table |
| ED = (TCEQ) Executive Director | MERA = Modeling and Effects Review Applicability |
| EF = emissions factor | mg = milligram |
| EFR = external floating roof tank | mg/g = milligram per gram |
| EGU = electric generating unit | mL = milliliter |
| EI = Emissions Inventory | MMBtu = million British thermal units |
| ELP = El Paso | MMBtu/hr = million British thermal units per hour |
| EPA = (United States) Environmental Protection Agency | MSDS = material safety data sheet |
| EPN = emission point number | MSS = maintenance, startup, and shutdown |
| ESL = effects screening level | MW = megawatt |
| ESP = electrostatic precipitator | NAAQS = National Ambient Air Quality Standards |
| FCAA = Federal Clean Air Act | NESHAP = National Emission Standards for Hazardous Air Pollutants |
| FCCU = fluid catalytic cracking unit | NGL = natural gas liquids |
| FID = flame ionization detector | NNSR = nonattainment new source review |
| FIN = facility identification number | NO _x = total oxides of nitrogen |
| ft = foot or feet | NSPS = New Source Performance Standards |
| ft/sec = foot or feet per second | |
| g = gram | |
| gal/wk = gallon per week | |
| gal/yr = gallon per year | |
| GLC = ground level concentration | |

PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM_{2.5} = particulate matter equal to or less than 2.5 microns in diameter
PM₁₀ = total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
POC = products of combustion
ppb = parts per billion
ppm = parts per million
ppmv = parts per million (by) volume
psia = pounds (per) square inch, absolute
psig = pounds (per) square inch, gage
PTE = potential to emit
RA = relative accuracy
RATA = relative accuracy test audit
RM = reference method
RVP = Reid vapor pressure
scf = standard cubic foot or feet
scfm = standard cubic foot or feet (per) minute
SCR = selective catalytic reduction
SIL = significant impact levels
SNCR = selective non-catalytic reduction
SO₂ = sulfur dioxide
SOCMI = synthetic organic chemical manufacturing industry
SRU = sulfur recovery unit
TAC = Texas Administrative Code
TCAA = Texas Clean Air Act
TCEQ = Texas Commission on Environmental Quality
TD = Toxicology Division
TLV = threshold limit value
TMDL = total maximum daily load
tpd = tons per day
tpy = tons per year
TVP = true vapor pressure
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VRU = vapor recovery unit or system

Special Conditions

Permit Numbers 46307, PSDTX1580, N288, and GHGPSDTX202

Emission 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.

Federal Applicability

3. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources (NSPS) promulgated in Title 40 Code of Federal Regulations (40 CFR) Part 60: **(7/25)**
 - A. Subpart A – General Provisions;
 - B. Subpart Kb – Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984
 - C. Subpart VV – Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry.
 - D. Subpart VVa – Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction or Modification Commenced After November 7, 2006.
 - E. Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
 - F. Subpart NNN - Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations After December 30, 1983, and on or Before April 25, 2023
4. These facilities shall comply with all applicable requirements of the U.S. EPA regulations on National Emission Standards for Hazardous Air Pollutants in 40 CFR Part 61:
 - A. Subparts A - General Provisions;
 - B. Subpart FF - Benzene Waste Operations.
5. These facilities shall comply with all applicable requirements of the U.S. EPA regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63:
 - A. Subpart A – General Provisions;

- B. Subpart F - Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry;
- C. Subpart G – Organic Hazardous Air Pollutants from Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater;
- D. Subpart H – Organic Hazardous Air Pollutants for Equipment Leaks;
- E. Subpart FFFF - Miscellaneous Organic Chemical Manufacturing; and
- F. Subpart ZZZZ - Stationary Reciprocating Internal Combustion Engines.

Operational Limitations

- 6. Safety relief valves that discharge to the atmosphere only as a result of fire or failure of utilities are exempt from quarterly monitoring per 30 TAC Chapter 115 and 40 CFR Part 60 Subparts VV and VVa, and 40 CFR 63 Subparts H and FFFF, provided that each valve is equipped with a rupture disc upstream. A pressure gauge shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity, but no later than the next process shutdown.
- 7. Total production throughput of polyisobutylene (PIB) shall be limited to 340 MMlbs/yr. Annual throughput records shall be maintained at the plant site. **(9/24)**

Upon request by the Texas Commission on Environmental Quality (TCEQ) Executive Director, 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.

Emission Standards and Fuel Specifications

- 8. Fuel for the Diesel Water Blaster Engine (Emission Point No. [EPN] 31G-2350) is limited to commercially available ultra-low sulfur diesel fuel.

Storage of Volatile Organic Compounds (VOC)

- 9. The service of Tanks T-103 and T-114 shall be limited to MTBE/ETBE. The service of Tank T-115 shall be limited to MTBE/ETBE/IC8. Storage of other chemicals is prohibited unless prior approval for such storage is obtained from the Executive Director of the TCEQ. The tanks shall be limited to the specified annual MTBE /ETBE throughput, on a rolling 12-month basis. Records shall be kept of the rolling 12-month MTBE/ETBE throughput for Tanks T-103, T-114, and T-115. These records shall be made available upon request to the TCEQ and to local governmental air pollution control agencies. **(6/22)**

| Tank | Rolling 12-month Throughput (barrels per year) |
|------------------|--|
| Storage Tank 103 | 7,300,320 |
| Storage Tank 114 | 3,099,600 |
| Storage Tank 115 | 3,099,600 |

10. The service and fill rates for Tanks T-117, T-118, T-119, T-204, T-205, and T-206 are limited as indicated in the table below. **(6/18)**

| Tank | Service | Fill Rate (gallons/hour) |
|-------|---------|--------------------------|
| T-117 | PIB | 2,286 |
| T-118 | PIB | 2,286 |
| T-119 | PIB | 2,286 |
| T-204 | PIB | 2,494 |
| T-205 | PIB | 2,494 |
| T-206 | PIB | 2,494 |

11. 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. A domed external floating roof tank is equivalent to an internal floating roof tank. The floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the 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 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. Except for labels, logos, etc. not to exceed 15 percent of the tank total surface area, uninsulated tank exterior surfaces exposed to the sun shall be white or 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. Emissions for tanks shall be calculated using the methods that were used to determine the MAERT limits in the permit application TCEQ NSR Project No. 373831 – 2025 Renewal. Sample calculations from the application shall be attached to a copy of this permit at the plant site. **(7/25)**

12. For any tank associated with this permit that is equipped with a floating roof, the holder of this permit shall (1) conduct annual visual inspections to verify the integrity of the external floating roof seals; (2) conduct annual visual inspections to verify the integrity of the visible portion of the internal floating roof seal or seals; (3) maintain records which describe inspections dates, seal integrity, and corrective actions taken; and (4) make necessary repairs as soon as practicable, if corrective action is necessary.

The floating roof design shall incorporate sufficient flotation to conform to the requirements of API Code 650, Appendix C, or an equivalent degree of flotation, except that an internal floating cover need not be designed to meet rainfall support requirements.

Product Loading

13. The total hourly loading transfer rate of PIB at all loading stations combined (EPN LOADGRP) shall not exceed 49,500 gallons per hour. **(1/18)**
14. The permit holder shall maintain and update monthly emissions record which includes calculated emissions of VOC from all loading operations over the previous rolling 12-month period. The record shall include the loading spot, control method used, quantity loaded in gallons, name of the liquid loaded, vapor molecular weight, liquid temperature in degrees Fahrenheit, liquid vapor pressure at the liquid temperature in psia, liquid throughput for the previous month and rolling 12-months to date. Records of VOC temperature are not required to be kept for liquids loaded from unheated tanks which receive liquids that are at or below ambient temperatures. Emissions shall be calculated using the TCEQ publication titled "Technical Guidance Package for Chemical Sources Loading Operations."
15. All product loading lines and connectors shall be visually inspected for any defects prior to hookup. Product loading 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.
16. All loading shall be submerged. Any liquid spill that occurs during loading/unloading activities shall be reported pursuant to 30 TAC §§ 101.201 or 101.211 and shall be cleaned up immediately to minimize air emissions. **(1/18)**
17. "Dry break" loading equipment will be used during loading and unloading of butadiene from railcars.
18. No more than three tank trucks shall be loaded with PIB at any time. No more than four railcars shall be loaded with PIB at any time. PIB tank truck and railcar loading may occur simultaneously. **(1/18)**

19. PIB-HOF loading operations are subject to the following requirements. **(1/18)**
- A. All loading shall be controlled by the plant vapor recovery system.
 - B. All tank trucks shall pass vapor-tight testing every 12-months using the methods described in 40 CFR Part 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.

Cooling Tower Requirements

20. Cooling towers shall be monitored for VOC emissions in accordance with the following requirements: **(6/22)**
- A. The highly reactive VOC (HRVOC) associated with cooling tower water shall be monitored and tested as specified by 30 TAC § 115.764 (effective November 13, 2003) and 30 TAC § 115.766 (effective January 17, 2003). The total strippable VOC associated with cooling tower water shall be monitored by methods at least as stringent as monthly testing using the method represented in the TCEQ Sampling Procedures Manual, Appendix P. Continuous monitoring of total strippable VOCs according to the methods specified in § 115.766, if performed, shall also satisfy the monitoring requirements of this permit. Records shall be kept in compliance with 30 TAC § 115.767 effective November 13, 2003. The results of the monitoring and maintenance efforts shall be recorded, and such records shall be maintained for a period of five years. The records shall be made available to the TCEQ Executive Director upon request.
 - B. The VOC associated with cooling tower water shall be monitored weekly with an air stripping system meeting the requirements of the TCEQ Sampling Procedures Manual, Appendix P (dated January 2003 or a later edition) or an approved equivalent sampling method.
 - C. The cooling towers to be monitored include EPNs: CT-7, CT-11, CT-14, CT-17 and CT-18. **(01/18)**
 - D. For Cooling Towers, CT-7, CT-11, CT-14, CT-17, and CT-18, the appropriate equipment shall be maintained so as to minimize fugitive VOC emissions from the cooling towers. Upon a reading of VOC concentration greater than 0.08 ppmw (0.042 ppmw on an annual basis) in the cooling tower heater exchange system, the permit holder shall identify the source of VOC and repair the equipment at the earliest opportunity but no later than the next scheduled shutdown of the process unit in which the leak occurs. **(7/25)**
 - E. For Cooling Towers, CT-7, CT-11, CT-14, CT-17, and CT-18, emissions from the cooling tower are not authorized if the VOC concentration of the water returning to the cooling tower exceeds 0.08 ppmw (0.42 ppmw on an annual basis). The VOC concentrations above 0.8 ppmw (0.42 ppmw on an annual basis) are not subject to extensions for delay of repair under this permit condition. The results of the monitoring and maintenance efforts shall be recorded. **(7/25)**
21. The cooling tower (EPN F-CT-10) and heat exchange system water shall be continuously monitored for emissions of Highly Reactive Volatile Organic Compounds (HRVOCs) and at least monthly for total VOC emissions.

- A. Cooling water sampling shall be representative of the water being cooled in the tower and ensure potential heat exchanger VOC leaks to the cooling water can be detected and shall be conducted using approved methods as follows:
 - (1) The analysis method for HRVOCs and hourly cooling water circulation rate monitoring shall be conducted in accordance with the requirements of 30 TAC Chapter 115, Subchapter H for cooling towers with a water circulation rate design capacity greater than 8,000 gallons per minute.
 - (2) The analysis method for VOC shall be an air stripping system meeting the requirements of the TCEQ Sampling Procedures Manual, Appendix P (dated January 2003 or a later edition), or an approved equivalent sampling method. If the continuous HRVOC analysis method measures total VOC that analysis may be used.
 - (3) Alternate sampling and analysis methods may be used to comply, with written approval from the TCEQ Regional Director.
 - B. Emissions from the cooling tower heat exchange system shall be determined as follows:
 - (1) HRVOC hourly emissions shall be calculated in accordance with the requirements of 30 TAC Chapter 115, Subchapter H. The rolling 12-month emissions shall be determined from the sum of the hourly emissions.
 - (2) VOC hourly emissions shall be calculated using the higher of the measured VOC cooling water concentration or the total HRVOC concentration and the hourly cooling water circulation rate per the calculation method in the permit application. The rolling 12-month emissions shall be determined from the sum of the hourly emissions.
 - C. Records of all instrument calibrations and test results and process measurements made for the emission calculations shall be retained and emission records shall be updated monthly.
22. The cooling towers, F-CT-7, F-CT-10, and F-CT-11, shall be operated and monitored in accordance with the following: **(7/25)**
- A. Each cooling tower shall be equipped with drift eliminators having manufacturer's design assurance of:
 - (1) F-CT-7: 0.001% drift or less.
 - (2) F-CT-10: 0.0005% drift or less.
 - (3) F-CT-11: 0.002% drift or less.Drifts eliminators shall be maintained and inspected at least annually. The permit holder shall maintain records of all inspections and repairs.
 - B. Total dissolved solids (TDS) shall not exceed 3,500 parts per million by weight (ppmw). Dissolved solids in the cooling water drift are considered to be emitted as PM, PM₁₀, and PM_{2.5} as represented in the permit application calculations.
 - C. Cooling water shall be sampled at least once per week for TDS.
 - D. A sample of cooling tower water shall be taken from the circulated water stream(s) entering the cooling tower. The analysis shall be conducted using the approved methods below:
 - (1) The analysis method for TDS shall be EPA Method 160.1, ASTM D5907, and SM 2540 C [SM - 19th edition of Standard Methods for Examination of Water]. Water samples should be capped upon collection, and transferred to a laboratory area for analysis.

- (2) Alternate sampling and analysis methods may be used to comply with D(1) with written approval from the TCEQ Regional Director. If approved by the TCEQ Regional Director, the permit holder shall submit a permit application to incorporate the alternative sampling and analysis method into the permit within 2 months of the date of written approval.
 - (3) Records of all instrument calibrations and test results and process measurements used for the emission calculations shall be retained.
 - E. Emission rates of PM, PM₁₀ and PM_{2.5} shall be calculated using the measured TDS, the design drift rate and the daily maximum and average actual cooling water circulation rate for the short term and annual average rates. Alternately, the design maximum circulation rate may be used for all calculations. Emission records shall be updated monthly.
23. The cooling towers, EPNs F-CT-14, F-CT-17, and F-CT-18, shall be operated and monitored in accordance with the following: **(7/25)**
 - A. Cooling towers shall each be equipped with drift eliminators having manufacturer's design assurance of
 - (1) F-CT-14: 0.0005% drift or less.
 - (2) F-CT-17: 0.001% drift or less.
 - (3) F-CT-18: 0.001% drift or less.Drift eliminators shall be maintained and inspected at least annually. The permit holder shall maintain records of all inspections and repairs.
 - B. Total dissolved solids (TDS) shall not exceed 3,500 parts per million by weight (ppmw). Dissolved solids in the cooling water drift are considered to be emitted as PM, PM₁₀, and PM_{2.5} as represented in the permit application calculations.
 - C. Cooling towers shall be analyzed for particulate emissions using one of the following methods:
 - (1) Cooling water shall be sampled at least once per day for total dissolved solids (TDS); or
 - (2) TDS monitoring may be reduced to weekly if conductivity is monitored daily and TDS is calculated using a ratio of TDS-to-conductivity (in ppmw per µmho/cm or ppmw/siemens). The ratio of TDS-to-conductivity shall be determined by concurrently monitoring TDS and conductivity on a weekly basis. The permit holder may use the average of two consecutive TDS-to-conductivity ratios to calculate daily TDS; or
 - (3) TDS monitoring may be reduced to quarterly if conductivity is monitored daily and TDS is calculated using a correlation factor established for each cooling tower. The correlation factor shall be the average of nine consecutive weekly TDS-to-conductivity ratios determined using C(2) above provided the highest ratio is not more than 10% larger than the smallest ratio.
 - (4) The permit holder shall validate the TDS-to-conductivity correlation factor once each calendar quarter. If the ratio of concurrently sampled TDS and conductivity is more than 10% higher or lower than the established factor, the permit holder shall increase TDS monitoring to weekly until a new correlation factor can be established.

- D. A sample of cooling tower water shall be taken from the circulated water stream(s) entering the cooling tower. The analysis shall be conducted using the approved methods below:
- (1) The analysis method for TDS shall be EPA Method 160.1, ASTM D5907, or SM 2540 C [SM - 19th edition of Standard Methods for Examination of Water]. Water samples should be capped upon collection, and transferred to a laboratory area for analysis.
 - (2) The analysis method for conductivity shall be either ASTM D1125-14 Test Method A (field or routine laboratory testing) or ASTM D1125-14 Test Method B (continuous monitor). The analysis may be conducted at the sample site or with a calibrated process conductivity meter. If a conductivity meter is used, it shall be calibrated at least annually. Documentation of the method and any associated calibration records shall be maintained.
 - (3) Alternate sampling and analysis methods may be used to comply with D(1) and D(2) with written approval from the TCEQ Regional Director. If approved by the TCEQ Regional Director, the permit holder shall submit a permit application to incorporate the alternative sampling and analysis method into the permit within 2 months of the date of written approval.
 - (4) Records of all instrument calibrations and test results and process measurements used for the emission calculations shall be retained.
- E. Emission rates of PM, PM10 and PM2.5 shall be calculated using the measured TDS and the ratio or correlation of TDS to conductivity measurements, the design drift rate and the daily maximum and average actual cooling water circulation rate for the short term and annual average rates. Alternately, the design maximum circulation rate may be used for all calculations. Emission records shall be updated monthly.

Flare Requirements

24. The Plant Flare (EPN EP-5) shall be designed and operated in accordance with the following requirements: **(7/25)**
- A. The flare systems shall be designed such that the combined assist natural gas and waste stream to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity at all times when emissions may be vented to them.

The heating value and velocity requirements shall be satisfied during operations authorized by this permit. Flare testing per 40 CFR § 60.18(f) may be requested by the appropriate regional office to demonstrate compliance with these requirements.
 - B. The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple, infrared monitor, or ultraviolet monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.
 - C. The flare shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. This shall be ensured by the use of steam (or air) assist to the flare.
 - D. The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow and composition total VOC 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 or have a calibration check performed on an annual basis to meet the following accuracy specifications: the flow monitor shall be $\pm 5.0\%$, temperature monitor shall be $\pm 2.0\%$ at absolute temperature, and pressure monitor shall be ± 5.0 mm Hg. (Calibration check means, at a minimum, using a second device or method to verify that the monitor is accurate as specified in the permit. The permit reviewer should request and review the applicant's representations for how the calibration check will be performed.)

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

- E. The monitors and analyzers shall operate as required by this section at least 95% of the time when the flare is operational, averaged over a rolling 12-month period. Flared gas net heating value and actual exit velocity determined in accordance with 40 CFR §§60.18(f)(3) and 60.18(f)(4) shall be recorded at least once every hour. Hourly mass emission rates shall be determined and recorded using the above readings and the emission factors used in the permit (amendment) application, (PI-1 dated?). The flare shall comply with the Vent Gas Control provisions for HRVOCs found in 30 TAC Chapter 115, Subchapter H, effective December 23, 2004.
- 25. The Plant Flare (EPN EP-5) HRVOC emissions shall be monitored and recorded by a continuous online analyzer at least 95 percent of the time when the flare is operated as required in 30 TAC § 115.725(d)(3) to ensure the maximum allowable emission rates table HRVOC's annual CAP is not exceeded. Compliance with the HRVOC CAP is based on a rolling 12-month period. During periods of monitor downtimes the requirements of 30 TAC § 115.725(d)(4) will be followed to determine compliance with the HRVOC annual CAP. The permit holder shall comply with all requirements of 30 TAC § 115.725(d).
 - 26. Fuel gas combusted at this facility shall be sweet natural gas containing no more than 5 grains of total sulfur per 100 dry standard cubic feet. **(7/25)**

Continuous Assurance Monitoring (CAM)

- 27. The following requirements apply to the capture system for the flare.
 - A. The permit holder shall comply with the following:
 - (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 250 ppmv above background.
- B. The control device shall not have a bypass.
- C. Records of the inspections required shall be maintained and if the results of any of the above inspections are not satisfactory, the permit holder shall promptly take necessary corrective action.

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

- 28. Except as may be provided for in the Special Conditions of this permit, the following requirements apply to the above-referenced equipment: **(1/17)**
 - A. The requirements of paragraphs G and H shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68°F or (2) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made readily available upon request.

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

 - (1) piping and instrumentation diagram (PID);
 - (2) a written or electronic database or electronic file;
 - (3) color coding;
 - (4) a form of weatherproof identification; or
 - (5) designation of exempted process unit boundaries.
 - B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.
 - C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.
 - D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in Paragraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified may instead be monitored annually.
 - E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an

approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

- F. 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 250 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.

- G. 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.

- H. 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 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.

- I. Damaged or leaking valves or connectors found to be emitting VOC in excess of 250 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.
- J. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging within 15 days of the detection of the leak. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shut down as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shut down or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.
- K. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.
- L. 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 G through H of this condition.
- M. 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.

29. The leak definition level for identifying leaking or damaged valves, connectors, pumps, compressors, and agitator seals found to be emitting VOCs in Special Condition No. 29 shall be 250 ppmv instead of the applicable 500 ppmv, 2,000 ppmv, or 10,000 ppmv.

28CNTQ (Connectors Inspected Quarterly)

30. In addition to the weekly physical inspection required by Item E of Special Condition No. 28 all accessible connectors in gas/vapor and light liquid service shall be monitored quarterly with an approved gas analyzer in accordance with Items G thru K of Special Condition No. 28.
- A. Allowance for reduced monitoring frequencies.
- (1) The frequency of monitoring may be reduced from quarterly to semiannually if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.
- (2) The frequency of monitoring may be reduced from semiannually to annually if the percent of connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.
- B. If the percent of connectors leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph. The percent of connectors leaking used in paragraph A shall be determined using the following formula:
- $$(CI + Cs) \times 100 / Ct = Cp$$
- Where:
- CI = the number of connectors found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.
- Cs = the number of connectors for which repair has been delayed and are listed on the facility shutdown log.
- Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to-monitor connectors.
- Cp = the percentage of leaking connectors for the monitoring period.

Piping, Valves, Pumps, Agitators, and Compressors - Intensive Directed Maintenance – 28LAER (FUG-BD-V)

31. Except as may be provided for in the Special Conditions of this permit, the following requirements apply to the above-referenced equipment: **(6/22)**
- A. The requirements of paragraphs F and G shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68°F or (2) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made readily available upon request.

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

- piping and instrumentation diagram (PID);
 - a written or electronic database or electronic file;
 - color coding;
 - a form of weatherproof identification; or
 - designation of exempted process unit boundaries.
- B. Construction of new and reworked piping, valves, pump systems, 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 paragraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified may instead be monitored annually.
- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance.

Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through. In addition, all connectors shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program in accordance with items F thru J of this special condition.

In lieu of the monitoring frequency specified above, connectors may be monitored on a semiannual basis if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Connectors may be monitored on an annual basis if the percent of connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

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

The percent of connectors leaking shall be determined using the following formula:

$$(Cl + Cs) \times 100/Ct = Cp$$

Where:

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

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

Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including non-accessible and unsafe to monitor connectors.

Cp = the percentage of leaking connectors for the monitoring period.

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

- (1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or
- (2) The open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 250 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

- F. Accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program. Non accessible valves shall be monitored by leak-checking for fugitive emissions at least annually using an approved gas analyzer with a directed maintenance program. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown. A check of the reading of the pressure-sensing device to verify disc integrity shall be performed at least quarterly and recorded in the unit log or equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph.

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, than the instrument may be calibrated with one of the VOC to be measured

or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

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

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

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

- H. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 250 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.
- I. 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, 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.
- J. 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.

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

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

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

- L. The percent of valves leaking used in paragraph K shall be determined using the following formula:

$$(Vl + Vs) \times 100/Vt = Vp$$

Where:

- Vl = the number of valves found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.
- Vs = the number of valves for which repair has been delayed and are listed on the facility shutdown log.
- Vt = the total number of valves in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe to monitor valves.
- Vp = the percentage of leaking valves for the monitoring period.
- M. Any component found to be leaking by physical inspection (i.e., sight, sound, or smell) shall be repaired or monitored with an approved gas analyzer within 15 days to determine whether the component is leaking in excess of 250 ppmv of VOC. If the component is found to be leaking in excess of 250 ppmv of VOC, it shall be subject to the repair and replacement requirements contained in this special condition.

Aqueous Ammonia Handling (NH₃)

32. Aqueous ammonia storage tanks shall be located within a physical barrier to traffic. Tank containment shall be employed with a minimum of 110 percent of tank volume. Vapors resulting from the filling operations of the aqueous ammonia storage tank(s) shall be collected and vapor returned back to the transport vessel.
33. The relief valve system shall be designed and operated to ensure that there are no working loss emissions to the atmosphere resulting from filling operations, and that there are no breathing losses during normal non-filling (standing) operations. The fill level of the aqueous ammonia storage tank shall not exceed a level that is in line with good engineering practices, and shall include a high level alarm and a high-high level alarm. In addition, sealless pumps shall be used in all piping handling aqueous ammonia.
34. Audio, visual and olfactory (AVO) checks for ammonia leaks shall be made once per day within the operating area.
- A. No later than one hour following detection of a leak, plant personnel shall take the following actions:

- (1) Locate and isolate the leak; and
 - (2) Use a leak collection or containment system to control the leak until repair or replacement can be made.
- B. A component in no instance may be allowed to have a leak for more than 15 calendar days after the leak is found.

Wastewater Collection and Treatment

35. Process wastewater shall be immediately directed to a covered system. All lift stations, manholes, junction boxes and conveyances shall be covered to minimize emissions.
36. Wastewater treatment plant emissions shall be estimated every month using the following procedure.
 - A. The permit holder shall sample the wastewater prior to the Wastewater Aeration Ponds (EPN: WW-PN) monthly to determine the concentrations of all air contaminants. Sampling locations, sampling procedures, test methods and calculations shall be as specified in permit application, submitted October 1, 2012. The influent wastewater flow rates shall be measured and recorded when a sample required by this condition is collected. Records of sampling results shall be maintained for all air contaminants.
 - B. The permit holder shall calculate short term loading rate in terms of pounds per hour (lb/hr) and rolling 12-month loading rate in terms of tons per year (tpy) for each air contaminant. The measured concentrations of each speciated air contaminant shall be converted to an equivalent mass emission rate based upon the flow rates during the sample collection period using the calculation methods and assumptions in the permit application, submitted October 1, 2012. The short term emission rate calculations for such air contaminants shall be based on the concentrations and flow rates measured during sampling. The rolling 12-month emission rate calculation for each air contaminant shall be based on the rolling 12-month average contaminant concentration and the rolling 12-month wastewater flow. All other inputs into the calculation shall match those in the permit application for that averaging period (worst case). Total VOC mass emission rates shall be calculated as the sum of the individual speciated VOC mass emission rates.

Maintenance, Startup, and Shutdown

37. This permit authorizes the emissions for the following planned maintenance, startup, and shutdown (MSS) activities (EPN MSS-FLR):

Vessel clearing

Floating roof tank landings

Additionally, this permit authorizes emissions from the following temporary facilities used to support planned MSS activities at permanent site facilities: portable control devices identified in Special Condition 42 and controlled recovery systems. Emissions from temporary facilities are authorized provided the temporary facility (a) does not remain on the plant site for more than 12 consecutive months, (b) is used solely to support planned MSS activities at the permanent site facilities listed in this Attachment, and (c) does not operate as a replacement for an existing authorized facility.

The performance of each planned MSS activity and the emissions associated with it shall be recorded and include at least the following information: **(6/22)**

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

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

All other MSS activities associated with these operating units are authorized under NSR Permit No. 98149.

38. Process units and facilities, with the exception of those identified in Special Condition No. 40 shall be depressurized, emptied, degassed, and placed in service in accordance with the following requirements. **(6/22)**
- A. The process equipment shall be depressurized to a control device or a controlled recovery system prior to venting to atmosphere, degassing, or draining liquid. Equipment that only contains material that is liquid with VOC partial pressure less than 0.50 psi at the normal process temperature and 95°F may be opened to atmosphere and drained in accordance with paragraph C of this special condition. 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 partial pressure is greater than 0.50 psi at either the normal process temperature or 95°F, any vents in the system must be routed to a control device or a controlled recovery system. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. Control must remain in place until degassing has been completed or the system is no longer vented to atmosphere.
 - C. All liquids from process equipment or storage vessels must be removed to the maximum extent practical prior to opening equipment to commence degassing and/or maintenance. Liquids must be drained into a closed vessel or closed liquid recovery system unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid must be covered or transferred to a covered vessel within one hour of being drained.
 - D. If the VOC partial pressure is greater than 0.50 psi at the normal process temperature or 95°F, facilities shall be degassed using good engineering practice to ensure air contaminants are removed from the system through the control device or controlled recovery system to the

extent allowed by process equipment or storage vessel design. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. The facilities to be degassed shall not be vented directly to atmosphere, except as necessary to establish isolation of the work area or to monitor VOC concentration following controlled depressurization. The venting shall be minimized to the maximum extent practicable and actions taken recorded. The control device or recovery system utilized shall be recorded with the estimated emissions from controlled and uncontrolled degassing calculated using the methods that were used to determine allowable emissions for the permit application.

- (1) 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] 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 Special Condition 40. 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. If there is not a connection (such as a sample, vent, or drain valve) available from which a representative sample may be obtained, a sample may be taken upon entry into the system after degassing has been completed. The sample shall be taken from inside the vessel so as to minimize any air or dilution from the entry point. 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.

39. Air contaminant concentration shall be measured using an instrument/detector meeting one set of requirements specified below. **(6/22)**

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:

$$\text{VOC Concentration} = \text{Concentration as read from the instrument} * \text{RF}$$

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 5 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.

- 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 as defined in (3) is less than 80 percent of the range of the tube and is at least 20 percent of the maximum range of the tube.
 - (2) The tube is used in accordance with the manufacturer's guidelines.
 - (3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:

measured contaminant concentration (ppmv) < release concentration.

Where the release concentration is:

500*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.

40. This permit authorizes emissions from EPN MSS-FLR for storage tank EPN TK-TBD during 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. Emissions from change of service tank landings, for which the tank is not cleaned and degassed, shall not exceed 10 tons of VOC in any rolling 12-month period. Tank roof landings include all operations when the tank floating roof is on its supporting legs. These emissions are subject to the maximum allowable emission rates indicated on the MAERT. The following requirements apply to tank roof landings. **(6/22)**

- A. The tank liquid level shall be continuously lowered after the tank floating roof initially lands on its supporting legs until the tank has been drained to the maximum extent practicable without entering the tank. Liquid level may be maintained steady for a period of up to two hours if necessary to allow for valve lineups and pump changes necessary to drain the tank. This requirement does not apply where the vapor under a floating roof is routed to control or a controlled recovery system during this process.
- B. If the VOC partial pressure of the liquid previously stored in the tank is greater than 0.50 psi at 95°F, tank refilling or degassing of the vapor space under the landed floating roof must begin within 24 hours after the tank has been drained unless the vapor under the floating roof is routed to control or a controlled recovery system during this period. The tank shall not be opened except as necessary to set up for degassing and cleaning. Floating roof tanks with liquid capacities less than 100,000 gallons may be degassed without control if the VOC partial pressure of the standing liquid in the tank has been reduced to less than 0.02 psia prior to ventilating the tank. Controlled degassing of the vapor space under landed roofs shall be completed as follows:
- (1) Any gas or vapor removed from the vapor space under the floating roof must be routed to a control device or a controlled recovery system and controlled degassing must be

maintained until the VOC concentration is less than 250 ppmv. The locations and identifiers of vents other than permanent roof fittings and seals, control device or controlled recovery system, and controlled exhaust stream shall be recorded. There shall be no other gas/vapor flow out of the vapor space under the floating roof when degassing to the control device or controlled recovery system.

- (2) The vapor space under the floating roof shall be vented using good engineering practice to ensure air contaminants are flushed out of the tank through the control device or controlled recovery system to the extent allowed by the storage tank design.
 - (3) A volume of purge gas equivalent to twice the volume of the vapor space under the floating roof must have passed through the control device or into a controlled recovery system, before the vent stream may be sampled to verify acceptable VOC concentration. The measurement of purge gas volume shall not include any make-up air introduced into the control device or recovery system. The VOC sampling and analysis shall be performed as specified in Special Condition 40.
 - (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) or (2) below until one of the criteria in part D of this condition is satisfied.
- (1) Minimize air circulation in the tank vapor space.
 - (a) One manway may be opened to allow access to the tank to remove or de-volatilize the remaining liquid. Other manways or access points may be opened as necessary to remove or de-volatilize the remaining liquid. Wind barriers shall be installed at all open manways and access points to minimize air flow through the tank.
 - (b) Access points shall be closed when not in use
- D. The tank may be opened without restriction and ventilated without control, after all standing liquid has been removed from the tank or the liquid remaining in the tank has a VOC partial pressure less than 0.02 psia. These criteria shall be demonstrated in any one of the following ways.
- (1) Low VOC partial pressure liquid that is soluble with the liquid previously stored may be added to the tank to lower the VOC partial pressure of the liquid mixture remaining in the tank to less than 0.02 psia. This liquid shall be added during tank degassing if practicable. The estimated volume of liquid remaining in the drained tank and the volume and type of liquid added shall be recorded. The liquid VOC partial pressure may be estimated based on this information and engineering calculations.
 - (2) If water is added or sprayed into the tank to remove standing VOC, one of the following must be demonstrated:
 - (a) Take a representative sample of the liquid remaining in the tank and verify no visible sheen using the static sheen test from 40 CFR 435 Subpart A Appendix 1.

- (b) Take a representative sample of the liquid remaining in the tank and verify hexane soluble VOC concentration is less than 1000 ppmw using EPA method 1664 (may also use 8260B or 5030 with 8015 from SW-846).
- (c) Stop ventilation and close the tank for at least 24 hours. When the tank manway is opened after this period, verify VOC concentration is less than 1000 ppmv through the procedure in Special Condition 39.

(3) No standing liquid verified through visual inspection.

The permit holder shall maintain records to document the method used to release the tank.

E. Tanks shall be refilled as rapidly as practicable until the roof is off its legs with the following exceptions:

- (1) Only one tank with a landed floating roof can be filled at any time at a rate not to exceed the rates represented in the application, PI-1 dated March 5, 2020.
- (2) The vapor space below the tank roof is directed to a control device when the tank is refilled until the roof is floating on the liquid. The control device used and the method and locations used to connect the control device shall be recorded. All vents from the tank being filled must exit through the control device.

F. The occurrence of each roof landing and the associated emissions shall be recorded and the rolling 12-month tank roof landing emissions shall be updated on a monthly basis. These records shall include at least the following information:

- (1) the identification of the tank and emission point number, and any control devices or recovery systems used to reduce emissions;
- (2) the reason for the tank roof landing;
- (3) for the purpose of estimating emissions, the date, time, and other information specified for each of the following events:
 - (a) the roof was initially landed,
 - (b) all liquid was pumped from the tank to the extent practical,
 - (c) start and completion of controlled degassing, and total volumetric flow,
 - (d) all standing liquid was removed from the tank or any transfers of low VOC partial pressure liquid to or from the tank including volumes and vapor pressures to reduce tank liquid VOC partial pressure to <0.02 psi,
 - (e) if there is liquid in the tank, VOC partial pressure of liquid, start and completion of uncontrolled degassing, and total volumetric flow,
 - (f) refilling commenced, liquid filling the tank, and the volume necessary to float the roof; and
 - (g) tank roof off supporting legs, floating on liquid;
- (4) the estimated quantity of each air contaminant, or mixture of air contaminants, emitted between events c and g with the data and methods used to determine it. The emissions associated with roof landing activities shall be calculated using the methods described in Sections 7.1.3.3 and 7.1.3.4 of AP-42 "Compilation of Air Pollution Emission Factors, Chapter 7 – Liquid Storage Tanks" dated March 2020 and the permit application.

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

Controlled recovery systems identified in this permit shall be directed to an operating process or to a collection system that is vented through a control device meeting the requirements of this permit condition. **(6/22)**

A. Portable Flare

- (1) The heating value and velocity requirements in 40 CFR 60.18 shall be satisfied during operations authorized by this permit.
- (2) The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.

Recordkeeping

42. Records required in these special conditions shall be kept on site and made available upon request to the Executive Director of the Texas Commission on Environmental Quality (TCEQ), to his representative, and to air quality agencies with jurisdiction over this site. **(1/18)**
43. 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, EPA, or any local air pollution control program having jurisdiction:
- A. Annual throughput records in accordance with Special Condition No. 7.
 - B. Records demonstrating compliance with AVO checks and maintenance as required by Special Condition No. 34.

Permit by Rule Sources (PBR)

44. The following sources and/or activities are authorized under a Permit by Rule (PBR) by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106). These lists are not intended to be all inclusive and can be altered without modifications to this permit. **(7/25)**

| Authorization | Source or Activity |
|---------------|---------------------------------------|
| PBR 146289 | Tanks T-73 & T-74 |
| PBR 161519 | Boilers 9, 10, 11 & Fugitives FUG-VAU |
| PBR 163064 | Crude C4 Transloading |

| Authorization | Source or Activity |
|----------------------------------|---|
| PBR 165336 | PIB Wastewater Treatment |
| PBR 164501 | Multiple Management of change projects for Fugitives EPNs: PLANT-FUG & F-20 (CY2020) |
| PBR 168520 | Multiple Management of change projects for Fugitives EPNs: PLANT-FUG & F-20 (CY 2021) |
| PBR 172273 | Multiple Management of change projects for Fugitives EPNs: PLANT-FUG & F-20 (CY 2022) |
| PBR 176059 | Multiple Management of change projects for Fugitives EPNs: PLANT-FUG & F-20 (CY 2023) |
| PBR 130241 | Tank T-46 DIB Storage |
| 106.473 (effective Sept 4, 2000) | Organic Liquid Loading and Unloading |
| 106.472 (effective Sept 4, 2000) | Organic and Inorganic Liquid Loading and Unloading |
| PBR 177324 | Furfural Wash |
| PBR 177872 | New Lab Authorization |

Offset Conditions

45. This Nonattainment New Source Review (NNSR) permit is issued/approved based on the requirement that the permit holder offset the project emission increase for facilities authorized by this permit prior to the commencement of operation, through participation in the TCEQ Emission Banking and Trading (EBT) Program in accordance with the rules in 30 TAC Chapter 101, Subchapter H. **(6/22)**
46. The permit holder shall use the Emissions Banking and Trading (EBT) Programs to meet the offset conditions for the Butadiene Expansion Project (NSR Project No 312937), as provided in the Offset Conditions of Permit Number 46426. **(08/25)**
47. Prior to the commencement of operation, the permit holder shall obtain approval from the TCEQ EBT Program for the allowances and/or credits being used and then submit a permit alteration or amendment request for Permit Number 46426 to the TCEQ Air Permits Division (and copy the TCEQ Regional Office) to identify approved credits by TCEQ credit certificate number. **(08/25)**
48. This permit is conditioned on the completion of all emission reduction projects represented in the most recent Table 3F, Project Contemporaneous Changes, submitted for the amendment with the

PI-1 dated March 5, 2020. This reduction of emissions shall occur not later than the commencement of operation of the permitted facilities represented by this permit. The holder of this permit shall maintain records of the emission reductions and provide access and/or copies upon request to the TCEQ Executive Director, or representatives, or any local air pollution control program having jurisdiction. Construction of these facilities must commence as defined in 40 CFR 52.21(b)(9) Prevention of Significant Deterioration or 40 CFR 51.165(a)(1)(xvi) (nonattainment) no later than five years after the reductions are actually accomplished, or the above reductions are no longer creditable and the permit is automatically void. **(6/22)**

Greenhouse Gas Emissions

49. Permit holders must keep records sufficient to demonstrate compliance with 30 Texas Administrative Code § 116.164. If construction, a physical change or a change in method of operation results in Prevention of Significant Deterioration (PSD) review for criteria pollutants, records shall be sufficient to demonstrate the amount of emissions of Greenhouse Gas (GHG) from the source as a result of construction, a physical change or a change in method of operation does not require authorization under 30 TAC §116.164(a). If there is construction, a physical change or change in the method of operation that will result in a net emission increase of 75,000 tpy or more CO_{2e} and PSD review is triggered for criteria pollutants, greenhouse gas emissions are subject to PSD review. **(6/22)**
50. Monitoring, quality assurance/quality control requirements, emission calculation methodologies, record keeping, and reporting requirements related to GHG emissions shall adhere to the applicable requirements in 40 CFR Part 98 and in this permit. **(6/22)**
51. Permittee shall calculate the CO_{2e} emissions on a 12-month rolling basis, based on the procedures and Global Warming Potentials (GWP) contained in Greenhouse Gas Regulations, 40 CFR Part 98, Subpart A, Table A-1. **(6/22)**
52. Records of emissions of GHG, and how they were determined, in compliance with Special Condition Nos. 50, 51, and 52 must be maintained by the holder of this permit in a form suitable for inspection for a period of five years after collection and must be made available upon request to representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction. **(6/22)**

Date: August 12, 2025

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 46307, PSDTX1580, and N288

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) |
| FUG-BD-V | VERP Fugitives | VOC | 0.27 | 1.18 |
| TK-TBD | IFR MTBE/ETBE/DIB/IC8 Tank | VOC | 0.95 | 2.08 |
| MSS-FLR | BD MSS Flare | VOC | 3.76 | 0.04 |
| | | CO | 1.69 | 0.02 |
| | | NO _x | 0.20 | <0.01 |
| | | SO ₂ | <0.01 | <0.01 |
| EP-5 | Plant Flare (6) | VOC | 190.74 | 20.90 |
| | | NO _x | 29.09 | 3.44 |
| | | SO ₂ | 2.65 | 0.10 |
| | | CO | 148.21 | 17.51 |
| | | BD | -- | 4.42 |
| | | HRVOC | -- | 15.00 |
| 12DG-15 | Boilerhouse Emergency Generator | VOC | 1.04 | 0.44 |
| | | NO _x | 12.87 | 5.47 |
| | | SO ₂ | 0.85 | 0.36 |
| | | PM | 0.91 | 0.39 |
| | | PM ₁₀ | 0.91 | 0.39 |
| | | PM _{2.5} | 0.91 | 0.39 |
| | | CO | 2.77 | 1.18 |
| | | HAP | 0.01 | 0.01 |
| 3DG-14 | OXO Emergency Generator | VOC | 0.37 | 0.16 |
| | | NO _x | 4.62 | 1.96 |
| | | SO ₂ | 0.31 | 0.13 |
| | | PM | 0.33 | 0.14 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|------------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| | | PM ₁₀ | 0.33 | 0.14 |
| | | PM _{2.5} | 0.33 | 0.14 |
| | | CO | 1.00 | 0.42 |
| | | HAP | 0.01 | 0.01 |
| 31G-2350 | Diesel Water Blaster Engine | VOC | 0.75 | 0.78 |
| | | NO _x | 3.04 | 3.16 |
| | | SO ₂ | 0.01 | 0.01 |
| | | PM | 0.10 | 0.10 |
| | | PM ₁₀ | 0.10 | 0.10 |
| | | PM _{2.5} | 0.10 | 0.10 |
| | | CO | 1.72 | 1.79 |
| | | HAP | 0.01 | 0.01 |
| 13G-2629 | No. 10 Firewater Pump Engine | VOC | 0.15 | 0.01 |
| | | NO _x | 4.22 | 0.11 |
| | | SO ₂ | 0.12 | 0.01 |
| | | PM | 0.07 | 0.01 |
| | | PM ₁₀ | 0.07 | 0.01 |
| | | PM _{2.5} | 0.07 | 0.01 |
| | | CO | 0.41 | 0.01 |
| | | HAP | 0.01 | 0.01 |
| 20DG-16 | Dock Emergency Generator | VOC | 0.10 | 0.01 |
| | | NO _x | 1.24 | 0.03 |
| | | SO ₂ | 0.08 | 0.01 |
| | | PM | 0.09 | 0.01 |
| | | PM ₁₀ | 0.09 | 0.01 |
| | | PM _{2.5} | 0.09 | 0.01 |
| | | CO | 0.27 | 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) |
| | | HAP | 0.01 | 0.01 |
| 21G-2216 | Diesel Fire Pump Engine | VOC | 0.40 | 0.01 |
| | | NO _x | 6.10 | 0.16 |
| | | SO ₂ | 0.60 | 0.02 |
| | | PM | 0.24 | 0.01 |
| | | PM ₁₀ | 0.24 | 0.01 |
| | | PM _{2.5} | 0.24 | 0.01 |
| | | CO | 0.50 | 0.01 |
| | | HAP | 0.01 | 0.01 |
| 19G-3789 | Diesel Driven Fire Water Engine | VOC | 0.08 | 0.01 |
| | | NO _x | 2.46 | 0.06 |
| | | SO ₂ | 0.31 | 0.01 |
| | | PM | 0.10 | 0.01 |
| | | PM ₁₀ | 0.10 | 0.01 |
| | | PM _{2.5} | 0.10 | 0.01 |
| | | CO | 0.63 | 0.02 |
| | | HAP | 0.01 | 0.01 |
| N14-C475 | Cummins Diesel Air Compressor | VOC | 1.17 | 0.03 |
| | | NO _x | 14.73 | 0.38 |
| | | SO ₂ | 0.97 | 0.03 |
| | | PM | 1.05 | 0.03 |
| | | PM ₁₀ | 1.05 | 0.03 |
| | | PM _{2.5} | 1.05 | 0.03 |
| | | CO | 3.17 | 0.08 |
| | | Total HAPs | 0.01 | 0.01 |
| F-CT-7 | Cooling Tower CT-7 | PM | 0.26 | 1.15 |
| | | PM ₁₀ | 0.11 | 0.50 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|---|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| | | PM _{2.5} | 0.01 | 0.01 |
| | | VOC (5) | 0.60 | 1.38 |
| F-CT-10 | Cooling Tower CT-10 | PM | 0.26 | 1.15 |
| | | PM ₁₀ | 0.11 | 0.50 |
| | | PM _{2.5} | 0.01 | 0.01 |
| | | VOC (5) | 0.63 | 2.76 |
| F-CT-11 | Cooling Tower CT-11 | PM | 0.03 | 0.14 |
| | | PM ₁₀ | 0.01 | 0.06 |
| | | PM _{2.5} | 0.01 | 0.01 |
| | | VOC (5) | 0.04 | 0.08 |
| F-CT-14 | Cooling Tower CT-14 | PM | 0.19 | 0.84 |
| | | PM ₁₀ | 0.08 | 0.37 |
| | | PM _{2.5} | <0.01 | <0.01 |
| | | VOC (5) | 0.88 | 2.03 |
| F-CT-17 | Cooling Tower CT-17 | PM | 0.89 | 3.91 |
| | | PM ₁₀ | 0.39 | 1.71 |
| | | PM _{2.5} | <0.01 | <0.01 |
| | | VOC (5) | 2.04 | 4.69 |
| F-CT-18 | Cooling Tower CT-18 | PM | 0.68 | 2.99 |
| | | PM ₁₀ | 0.3 | 1.31 |
| | | PM _{2.5} | <0.01 | <0.01 |
| | | VOC (5) | 1.56 | 3.59 |
| F-TTR | Truck Rack Loading Facility | VOC | 6.47 | 0.26 |
| E-PIBTT | PIB-1 Product Loading B Tank Trucks | VOC | (8) | (8) |
| E-PIB1RC1 | PIB-1 Product Loading Rail Cars – Station 1 | VOC | (8) | (8) |
| E-PIB1RC2 | PIB-1 Product Loading Rail Cars – Station 2 | VOC | (8) | (8) |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|--|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| E-PIB2RC1 | PIB-2 Product Loading Rail Cars - Station 1 | VOC | (8) | (8) |
| E-PIB2RC2 | PIB-2 Product Loading Rail Cars - Station 2 | VOC | (8) | (8) |
| E-PIB2TT1 | PIB-2 Product Loading Tank Truck - Station 1 | VOC | (8) | (8) |
| E-PIB2TT2 | PIB-2 Product Loading Tank Truck - Station 2 | VOC | (8) | (8) |
| LOAD-GRP | Loading Emissions Cap | VOC | 0.60 | 1.94 |
| T-P1WW1 | PIB-1 Wastewater Tank 1 | VOC | <0.01 | <0.01 |
| | | NH ₃ | 0.07 | 0.01 |
| T-P1WW2 | PIB-1 Wastewater Tank 2 | VOC | <0.01 | <0.01 |
| | | NH ₃ | 0.07 | 0.01 |
| T-P2WW1 | PIB-2 Wastewater Tank 1 | VOC | <0.01 | <0.01 |
| | | NH ₃ | 0.07 | 0.01 |
| T-31 | No. 31 Tank | VOC | 0.40 | 0.81 |
| T-32 | No. 32 Tank | VOC | 0.24 | 0.42 |
| T-71 | Methanol/Ethanol Tank | VOC | 0.36 | 1.14 |
| T-72 | Methanol/Ethanol Tank | VOC | 0.26 | 0.94 |
| T-73 | MTBE/ETBE Storage Tank 73 | VOC | 0.87 | 1.03 |
| T-74 | MTBE/ETBE Storage Tank 74 | VOC | 0.87 | 1.03 |
| T-77 | Tank | VOC | 0.12 | 0.21 |
| T-78 | Tank | VOC | 0.12 | 0.21 |
| T-79 | Tank | VOC | 0.12 | 0.16 |
| T-80 | MeOH/EtOH Storage Tank 80 | VOC | 1.71 | 2.01 |
| T-81 | No. 81 Tank | VOC | 0.33 | 0.02 |
| T-82 | No. 82 Tank | VOC | 4.74 | 1.06 |
| T-84 | No. 84 Tank | VOC | 0.35 | 0.63 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| T-85 | No. 85 Tank | VOC | 0.10 | 0.01 |
| T-86 | No. 86 Tank | VOC | 0.18 | 0.01 |
| T-103 | MTBE/ETBE Tank | VOC | 0.70 | 1.63 |
| T-111 | Tank | VOC | 1.37 | 0.01 |
| T-112 | Tank | VOC | 1.37 | 0.01 |
| T-114 | MTBE/ETBE Tank | VOC | 0.65 | 1.53 |
| T-115 | MTBE/ETBE/IC8 Tank | VOC | 0.65 | 1.53 |
| T-117 | PIB-1 Process Tank 117 | VOC | 0.32 | (7) |
| T-118 | PIB-1 Process Tank 118 | VOC | 0.32 | (7) |
| T-119 | PIB-1 Process Tank 119 | VOC | 0.32 | (7) |
| T-204 | PIB-2 Process Tank 1 | VOC | 0.35 | (7) |
| T-205 | PIB-2 Process Tank 2 | VOC | 0.35 | (7) |
| T-206 | PIB-2 Process Tank 3 | VOC | 0.35 | (7) |
| TNK-GRP | Tank Emissions Cap | VOC | -- | 1.4 |
| T-Diesel2 | Tank | VOC | 0.28 | 0.01 |
| T-155 | TEA Storage Tank | VOC | 0.01 | 0.01 |
| 1F-511 | Tank | VOC | 1.80 | 0.01 |
| Gas-2 | Tank | VOC | 53.56 | 0.86 |
| T01 | Diesel Tank | VOC | 0.03 | 0.01 |
| 2F26 | Furfural Sump Tank | VOC | 0.01 | 0.01 |
| 4F14 | Furfural Sump Tank | VOC | 0.01 | 0.01 |
| 5F3 | Furfural Sump Tank | VOC | 0.01 | 0.01 |
| PLANT-FUG | Plant Fugitives (5) | VOC | 17.75 | 77.73 |
| | | BD | 2.41 | 10.51 |
| | | Other HAPs | 1.24 | 5.42 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|---------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| F-10A | Oil Separation | VOC | 0.27 | 1.18 |
| WW-IDS | Wastewater Drain System | VOC | 0.88 | 3.84 |
| WW-PN | Wastewater Aeration Ponds | VOC | 0.75 | 3.27 |
| DEGREAS1 | Cold Solvent Degreaser | VOC | 3.34 | 0.07 |
| DEGREAS2 | Cold Solvent Degreaser | VOC | 3.34 | 0.07 |
| LABST-1 | Lab Sump Tank | VOC | 0.04 | 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
HRVOC - highly reactive volatile organic compounds as defined in 30 TAC § 115.10 (ethylene, propylene, butenes and 1,3-butadiene are present at this facility)
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon dioxide
BD - 1,3-butadiene
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
PM₁₀ - particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
NH₃ - ammonia
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (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 of BD and total HRVOCs are limited as indicated. The allowable emission rate listed for HRVOCs from this EPN are included in the total VOC emission rate. The HRVOC CAP of 15 tons per year includes the BD emission rate.
- (7) The total annual emission rates for PIB process and storage tanks are limited to the annual cap indicated under EPN TNK-GRP.
- (8) The total PIB product loading emission rates are limited to the hourly and annual caps indicated under EPN LOADGRP which may be loaded through either tank trucks or tank cars or both.

Date: July 25, 2025

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX202

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates |
|------------------------|-----------------|--------------------------|----------------|
| | | | TPY (4) |
| MSS-FLR | BD MSS Flare | CO ₂ (5) | 11.57 |
| | | CH ₄ (5) | <0.01 |
| | | N ₂ O (5) | <0.01 |
| | | CO ₂ e | 11.58 |
| EP-5 | Plant Flare | CO ₂ (5) | 6869.86 |
| | | CH ₄ (5) | 4.44 |
| | | N ₂ O (5) | 0.01 |
| | | CO ₂ e | 6984.26 |

- (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) CO₂ - carbon dioxide
 N₂O - nitrous oxide
 CH₄ - methane
 HFCs - hydrofluorocarbons
 PFCs - perfluorocarbons
 SF₆ - sulfur hexafluoride
 CO₂e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):
 CO₂ (1), N₂O (298), CH₄(25), SF₆ (22,800), HFC (various), PFC (various)
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
- (5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Date: June 13, 2022



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
TPC Group LLC
Authorizing the Continued Operation of
Houston Plant
Located at Houston, Harris County, Texas
Latitude 29.699166 Longitude -95.253888

Permits: 46426 and N290

Issuance Date: August 13, 2025

Expiration Date: August 13, 2035



For the Commission

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

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

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

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

Common Acronyms in Air Permits

| | |
|--|---|
| °C = Temperature in degrees Celsius | GLC _{max} = maximum (predicted) ground-level concentration |
| °F = Temperature in degrees Fahrenheit | gpm = gallon per minute |
| °K = Temperature in degrees Kelvin | gr/1000scf = grain per 1000 standard cubic feet |
| µg = microgram | gr/dscf = grain per dry standard cubic feet |
| µg/m ³ = microgram per cubic meter | H ₂ CO = formaldehyde |
| acfm = actual cubic feet per minute | H ₂ S = hydrogen sulfide |
| AMOC = alternate means of control | H ₂ SO ₄ = sulfuric acid |
| AOS = alternative operating scenario | HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C |
| AP-42 = Air Pollutant Emission Factors, 5th edition | HC = hydrocarbons |
| APD = Air Permits Division | HCl = hydrochloric acid, hydrogen chloride |
| API = American Petroleum Institute | Hg = mercury |
| APWL = air pollutant watch list | HGB = Houston/Galveston/Brazoria |
| BPA = Beaumont/ Port Arthur | hp = horsepower |
| BACT = best available control technology | hr = hour |
| BAE = baseline actual emissions | IFR = internal floating roof tank |
| bbl = barrel | in H ₂ O = inches of water |
| bbl/day = barrel per day | in Hg = inches of mercury |
| bhp = brake horsepower | IR = infrared |
| BMP = best management practices | ISC3 = Industrial Source Complex, a dispersion model |
| Btu = British thermal unit | ISCST3 = Industrial Source Complex Short-Term, a dispersion model |
| Btu/scf = British thermal unit per standard cubic foot or feet | K = Kelvin; extension of the degree Celsius scaled-down to absolute zero |
| CAA = Clean Air Act | LACT = lease automatic custody transfer |
| CAM = compliance-assurance monitoring | LAER = lowest achievable emission rate |
| CEMS = continuous emissions monitoring systems | lb = pound |
| cfm = cubic feet (per) minute | lb/day = pound per day |
| CFR = Code of Federal Regulations | lb/hr = pound per hour |
| CN = customer ID number | lb/MMBtu = pound per million British thermal units |
| CNG = compressed natural gas | LDAR = Leak Detection and Repair (Requirements) |
| CO = carbon monoxide | LNG = liquefied natural gas |
| COMS = continuous opacity monitoring system | LPG = liquefied petroleum gas |
| CPMS = continuous parametric monitoring system | LT/D = long ton per day |
| DFW = Dallas/ Fort Worth (Metroplex) | m = meter |
| DE = destruction efficiency | m ³ = cubic meter |
| DRE = destruction and removal efficiency | m/sec = meters per second |
| dscf = dry standard cubic foot or feet | MACT = maximum achievable control technology |
| dscfm = dry standard cubic foot or feet per minute | MAERT = Maximum Allowable Emission Rate Table |
| ED = (TCEQ) Executive Director | MERA = Modeling and Effects Review Applicability |
| EF = emissions factor | mg = milligram |
| EFR = external floating roof tank | mg/g = milligram per gram |
| EGU = electric generating unit | mL = milliliter |
| EI = Emissions Inventory | MMBtu = million British thermal units |
| ELP = El Paso | MMBtu/hr = million British thermal units per hour |
| EPA = (United States) Environmental Protection Agency | MSDS = material safety data sheet |
| EPN = emission point number | MSS = maintenance, startup, and shutdown |
| ESL = effects screening level | MW = megawatt |
| ESP = electrostatic precipitator | NAAQS = National Ambient Air Quality Standards |
| FCAA = Federal Clean Air Act | NESHAP = National Emission Standards for Hazardous Air Pollutants |
| FCCU = fluid catalytic cracking unit | NGL = natural gas liquids |
| FID = flame ionization detector | NNSR = nonattainment new source review |
| FIN = facility identification number | NO _x = total oxides of nitrogen |
| ft = foot or feet | NSPS = New Source Performance Standards |
| ft/sec = foot or feet per second | |
| g = gram | |
| gal/wk = gallon per week | |
| gal/yr = gallon per year | |
| GLC = ground level concentration | |

PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM_{2.5} = particulate matter equal to or less than 2.5 microns in diameter
PM₁₀ = total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
POC = products of combustion
ppb = parts per billion
ppm = parts per million
ppmv = parts per million (by) volume
psia = pounds (per) square inch, absolute
psig = pounds (per) square inch, gage
PTE = potential to emit
RA = relative accuracy
RATA = relative accuracy test audit
RM = reference method
RVP = Reid vapor pressure
scf = standard cubic foot or feet
scfm = standard cubic foot or feet (per) minute
SCR = selective catalytic reduction
SIL = significant impact levels
SNCR = selective non-catalytic reduction
SO₂ = sulfur dioxide
SOCMI = synthetic organic chemical manufacturing industry
SRU = sulfur recovery unit
TAC = Texas Administrative Code
TCAA = Texas Clean Air Act
TCEQ = Texas Commission on Environmental Quality
TD = Toxicology Division
TLV = threshold limit value
TMDL = total maximum daily load
tpd = tons per day
tpy = tons per year
TVP = true vapor pressure
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VRU = vapor recovery unit or system

Special Conditions

Permit Numbers 46426 and N290

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates" (MAERT), and those sources are limited to the emission limits and other conditions specified in that table. **(6/22)**
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. **(6/22)**

Federal Applicability

3. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60): **(6/22)**
 - A. Subpart A, General Provisions.
 - B. Subpart Db, Industrial-Commercial-Institutional Steam Generating Units.
4. These facilities shall comply with all applicable requirements of the EPA regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63: **(6/22)**
 - A. Subpart A, General Provisions.
 - B. Subpart DDDDD, Industrial for Institutional, Commercial, and Industrial Boilers and Process Heaters.

Emission Standards and Operating Specifications

5. Fuel for the boilers authorized by this permit shall be limited to: **(12/24)**
 - A. Pipeline-quality, sweet natural gas containing no more than 0.25 grains total sulfur (hourly basis) and 0.25 grain (annual basis) total sulfur per 100 dscf.
 - B. Plant fuel gas containing no more than 2.0 grains total sulfur (hourly basis) and 0.4 grain (annual basis) total sulfur per 100 dscf.
 - C. The sulfur dioxide (SO₂) emissions from Boiler 9, Boiler 10, and Boiler 11 shall be calculated on a monthly basis using the sulfur monitoring of the feed to the DH2 unit, authorized under Permit 19806, and assuming 98% of all sulfur in the feed to the DH2 unit transfers to the DH2 off gas and is converted to SO₂ from the boilers, assuming 100%. The daily sulfur monitoring shall be used in conjunction with records of plant fuel gas and natural gas use to determine the 12-month rolling average SO₂ emissions from the boilers. Hourly emissions shall be calculated on a daily basis using the highest hourly ratio of plant gas to natural gas recorded each day.

Firing of any other fuel will require authorization from the permitting authority.
6. Boilers shall be limited to the following heat input capacity and fuel flow rates: **(12/24)**

- A. Boiler 9 shall be limited to a maximum heat input capacity of 535 Million British Thermal Units per hour (MMBtu/hr) based on the higher heating value (HHV) of the fuel fired.
- B. Boiler 10, Boiler 11, and shall each be limited to a maximum heat input capacity of 664 MMBtu/hr based on the HHV of the fuel fired.
- C. Authorized fuels that may be fired in Boiler 9, Boiler 10, and Boiler 11 are: natural gas, plant off gas, VAU off gas, and DH2 off gas. Fuel flow rates may consist of combinations of authorized fuels to either Boiler 9, 10, or 11. The maximum fuel flow rates listed below may be fired in a single boiler, provided the combination of total fuel flow rates to both boilers does not exceed the total fuel flow rates listed below. Fuel flow rate limitations listed in the table below do not include supplemental natural gas or plant off gas.

Table 1. Maximum Combined Fuel Flow Rates for Boiler 9, Boiler 10, and Boiler 11

| Fuel Type | Maximum Fuel Flow Rate Standard Cubic Feet per Hour (scf/hr) | Annual Average Flow Rate* (scf/hr) |
|-------------|--|---------------------------------------|
| VAU Off Gas | 60,000 | 34,000 |
| DH2 Off Gas | 180,000 | 125,254 |

*Annual Average Flow Rates are based on a rolling monthly average

- D. Records of the fuels used in each boiler shall be kept as per Special Condition No. 17.C.
 - E. Boiler 9 shall be equipped with a Selective Catalytic Reduction (SCR) system and low NOx burners systems. This boiler shall not exceed the following limitations during operation:
 - 0.01 lb NOx/MMBtu (Based on HHV of fuel) on an hourly basis.
 - 0.011 lb NOx/MMBtu (Based on HHV of fuel) on an annual average basis.
 - 10 ppmv CO corrected to 3% O2 on an hourly and annual average basis.
 - F. Maintenance, startup and shutdown emissions as defined in Special Condition 24 are excluded from the limits listed above. The emissions from startup and shutdown shall not exceed the hourly emission rates authorized as MSS (EPN EP-H9: Boiler 9) in the MAERT. **(12/24)**
7. Except during planned maintenance, startup, and shutdown (MSS) activities identified in Special Condition No. 22, the emissions of nitrogen oxides (NO_x) shall comply with the following: **(12/24)**
- A. Boiler 10 and Boiler 11 shall not exceed a one-hour rolling average of 0.02 lb/MMBtu.
 - B. Boiler 9 shall not exceed a one-hour rolling average of 0.01 lb/MMBtu.
8. Opacity of emissions from any one stack authorized by this permit shall not exceed five percent averaged over a six-minute period from each stack. This determination shall be made by first observing for visible emissions while each facility is in operation. Observations shall be made at least 15 feet and no more than 0.25 miles from the emission point(s). Up to three emissions points may be read concurrently, provided that all three emissions points are within a 70 degree viewing sector or angle in front of the observer such that the proper sun position (at the observer's back) can be maintained for all three emission points. If visible emissions are observed from an emission

point, then the opacity shall be determined and documented within 24 hours for that emission point using Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9 or 22. Observations shall be performed and recorded quarterly. If the opacity exceeds five percent, corrective action to eliminate the source of visible emissions shall be taken promptly and documented within one week of first observation. If Test Method 22 is utilized, any visible emissions are assumed to be 100 percent opacity for their duration. **(8/25)**

9. Upon request by the Executive Director of the Texas Commission on Environmental Quality (TCEQ) or any air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuel fired in the boilers or shall allow air pollution control agency representatives to obtain a sample for analysis.

Initial Determination of Compliance

10. The holder of this permit shall perform stack sampling and other testing as required to establish the actual quantities of air contaminants being emitted into the atmosphere from Boiler 9. 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 201A and 202 or Reference Method 5, modified to include back-half condensibles, for the concentration of particulate matter less than 10 microns in diameter (PM₁₀); Reference Method 8 or Reference Methods 6 or 6c for SO₂; Reference Method 9 for opacity (consisting of 30 six-minute readings as provided in 40 CFR § 60.11[b]); Reference Method 10 for the concentration of carbon monoxide (CO), Reference Method 25A, modified to exclude methane and ethane, for the concentration of volatile organic compounds (VOC) (to measure total carbon as propane); and Reference Method 20 for the concentrations of NO_x, and oxygen (O₂) or equivalent methods.

Fuel sampling may be conducted in lieu of stack sampling for SO₂, with emission rates based on 100 percent conversion of the sulfur in the fuel to SO₂. Any deviations from those procedures must be approved by the Executive Director of the TCEQ prior to sampling. The TCEQ Regional Director or his designated representative shall be afforded the opportunity to observe all such sampling.

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

- A. The TCEQ Houston Regional Office shall be contacted as soon as testing is scheduled but not less than 30 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 used to determine turbine loads during and after the sampling period.

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

any deviation from sampling procedures specified in permit conditions or the TCEQ or the EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in this condition shall be submitted to the TCEQ Office of Air, Air Permits Division. Test waivers and alternate or equivalent procedure proposals for New Source Performance Standards testing which must have the EPA approval shall be submitted to the TCEQ Regional Office.

- B. Air contaminants and diluents to be sampled and analyzed include (but are not limited to) NO_x, CO, VOC, SO₂, PM₁₀, opacity, and O₂. (As noted above, fuel sampling using the methods and procedures of 40 CFR § 60.335[d] may be conducted in lieu of stack sampling for SO₂.)
- C. Sampling shall occur within 60 days after achieving the maximum operating rate, but no later than 180 days after initial start-up of the facilities (or increase in production, as appropriate) and at such other times as may be required by the TCEQ Executive Director. Requests for additional time to perform sampling shall be submitted to the appropriate regional office.
- D. Dates for prior stack testing for Boiler 9: January 28, 1994;
- E. Due to the increased firing rate, sampling shall occur within 60 days after achieving the maximum operating rate but no later than 180 days after startup of the facilities following issuance of TCEQ NSR Project No. 370966 authorized on December 10, 2024 to increase the Boiler 9 firing rate from 450 MMBtu/hr to 535 MMBtu/hr. **(8/25)**
- F. Each boiler shall be tested at or near 100 percent load. If the boilers are unable to reach the maximum firing rate during testing, then future firing maybe 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 under the operating scenarios described above during the test, then future firing will be limited to the maximum emissions-complying firing tested. Additional stack testing maybe required for higher firing outside the emissions-complying maximum achieved during the test to be authorized.
- G. Copies of the final sampling report shall be forwarded to the offices below within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions entitled "Chapter 14, Contents of Sampling Reports" of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:
 - One copy to the appropriate TCEQ Regional Office.
 - One copy to each local air pollution control program.
- H. Sampling ports and platform(s) shall be incorporated into the design of (source stack and EPN) according to the specifications set forth in the attachment entitled "Chapter 2, Guidelines for Stack Sampling Facilities" of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual. Alternate sampling facility designs must be submitted for approval to the TCEQ Regional Director. **(12/24)**

Continuous Determination of Compliance

- 11. The holder of this permit shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) to measure and record the concentrations of NO_x CO, and diluent gases (O₂ or carbon dioxide [CO₂]) from exhaust stacks Boiler 9, Boiler 10, and Boiler 11. In

addition, the permit holder shall install, calibrate and maintain a continuous emission monitoring system (CEMS) to measure and record the in-stack concentration of ammonia from Boiler 9 (EPN EP-H9).

12. The concentration of ammonia (NH₃) from Boiler 9 shall not exceed 10 parts per million by volume dry (ppmvd) corrected to 3 percent oxygen (O₂), on a rolling 24-hour average and an annual average. This concentration limit shall not apply to MSS activities, during which emissions are limited by the emission rates shown on the MAERT. **(12/24)**
13. The NH₃ concentration in the Exhaust Stack (EPN Boiler 9) shall be monitored/calculated according to one of the methods listed below. Monitoring/calculating NH₃ slip is only required on days when the SCR unit is in operation. In addition, the permit holder shall install, calibrate, and maintain a continuous emission monitoring system (CEMS) to measure and record the in-stack concentration of O₂ from the SCR. **(12/24)**

The holder of this permit may install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) to measure and record the concentrations of NH₃.

- A. As an approved alternative to NH₃ 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 NH₃ converter to convert NH₃ to NO_x and then to a second NO_x CEMS. The NH₃ slip concentration shall be calculated from the delta between the two NO_x CEMS readings (converted and unconverted).
- B. Any other method used for measuring NH₃ slip shall require prior approval from the TCEQ Regional Office.

Quality assured (or valid) data must be generated when the SCR 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 corresponding SCR is 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.

14. Continuous emission monitoring systems shall comply with the following requirements. **(12/24)**
 - 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, 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 in Austin for requirements to be met. The CEMS shall comply with the following requirements:
 - B. The holder of this permit shall assure that the CEMS meets the applicable quality-assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1, or an acceptable alternative. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix P, Section 5.2.3 and any CEMS downtime and all cylinder gas audit exceedances of ± 15 percent accuracy shall be reported semi-annually to the appropriate TCEQ Regional Director,

- and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director.
- C. The monitoring data shall be reduced to hourly average values at least once every 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. All monitoring data and quality-assurance data shall be maintained by the source for a period of two years and shall be made available to the TCEQ Executive Director or the designated representative upon request. The hourly average data from the CEMS may be used to determine compliance with the conditions of this permit. Hourly average concentrations from Boiler 9, Boiler 10 and Boiler 11 shall be summed to tons per year and used to determine compliance with the emission limits of this permit. **(8/25)**
 - E. The appropriate TCEQ Regional Office shall be notified at least 21 days prior to any required relative accuracy test audit in order to provide them the opportunity to observe the testing.
15. If any emission monitor fails to meet specified performance, it shall be repaired or replaced as soon as reasonably practicable. **(8/25)**
16. The holder of this permit shall additionally install, calibrate, maintain, and operate continuous monitoring systems to monitor and record the average hourly natural gas and plant fuel gas consumption of Boiler 9, Boiler 10, and Boiler 11. The systems shall be accurate to ± 5.0 percent of the unit's maximum flow and shall be calibrated in accordance with the manufacturer's recommendations. **(8/25)**
17. The holder of this permit shall either measure or develop a program to calculate the total mass flow rate through Boiler 9, Boiler 10 and Boiler 11 to ensure continuous compliance with the emission limitations specified in the attached table entitled "Emission Sources-Maximum Allowable Emission Rates." The permit holder shall calculate hourly mass emissions in lbs/hr using the measured or calculated exhaust flow rate and the measured concentrations of NO_x and CO from the CEMS required in Special Condition No. 11. The hourly calculated values will be cumulatively added during each hour of the month and stored on a computer hard drive and on computer disk or other TCEQ-accepted computer media. Records of this information shall also be available in a form suitable for inspection. **(12/24)**

Recordkeeping Requirements

18. The following records shall be kept at the plant for the life of the permit. All records required in this permit shall be made available at the request of personnel from the TCEQ, the EPA, or any air pollution control agency with jurisdiction.
- A. A copy of this permit.
 - B. Permit application dated November 2000 and subsequent representations submitted to the TCEQ.
 - C. Permit renewal application for Permit No. 19806 dated November 2004 and subsequent representations submitted to the TCEQ respecting Boiler No. 9.
 - D. A complete copy of the testing reports and records of the initial performance testing completed pursuant to Special Condition No. 10 to demonstrate initial compliance.

- E. Stack sampling results or other air emissions testing (other than CEMS data) that may be conducted on units authorized under this permit after the date of issuance of this permit.
19. 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, the EPA, or any local air pollution control program having jurisdiction: **(12/24)**
- A. The NO_x, CO, and diluent gases, (O₂, or CO₂) CEMS emissions data to demonstrate compliance with the emission rates listed in the MAERT.
 - B. Raw data files of all CEMS data including calibration checks and adjustments and maintenance performed on these systems.
 - C. In order to show compliance with Special Conditions Nos. 5 and 6:
 - (1) Records of hourly and monthly total heat input (for all fuels) to Boiler 9, Boiler 10, and Boiler 11.
 - (2) Records of hourly and monthly fuel flow rates of VAU off gas and DH2 off gas to Boiler 9, Boiler 10, and Boiler 11.
 - (3) The monthly rolling average of the feed rate is the arithmetic mean of the monthly 60-minute averages beginning and ending during each monthly operating period.
 - (4) The combined heat input (in MMBtu/hr) of plant fuel gas shall be continuously monitored and recorded at a minimum of four equally-spaced intervals per hour and averaged at least every 60 minutes.
 - D. Records of visible emissions observations, opacity readings, and any corrective actions taken to demonstrate compliance with Special Condition No. 8.

Reporting

20. The holder of this permit shall submit to the TCEQ Houston Regional Office and the Air Enforcement Branch of EPA in Dallas semi-annual reports as described in 40 CFR §60.7. Such reports are required for each emission unit which is required to be continuously monitored pursuant to this permit.
21. Except during planned MSS activities, if the average NO_x stack outlet concentrations exceeds the concentration limits in Special Condition No. 7 or the NO_x or CO maximum allowable emissions rates are exceeded for more than three hours, the holder of this permit shall investigate and determine the reason for the exceedance and, if needed, make necessary repairs and/or adjustments as soon as possible. If the above NO_x or CO exceedance occurs for more than 24 hours, the permit holder shall create a report detailing the cause of the increase in emissions, all efforts being made to correct the problem and make the report readily available to the TCEQ Regional Office Staff upon request. **(8/25)**

Maintenance, Startup, and Shutdown Activities

22. Emissions during planned maintenance, startup, and shutdown are authorized provided the facilities and emissions are compliant with the respective MAERT and Special Conditions.

- 23. The holder of this permit shall minimize emissions during planned MSS activities by operating the facility and associated air pollution control equipment in accordance with good air pollution control practices, safe operating practices, and protection of the facility.
- 24. Emissions from Boiler 9, Boiler 10, and Boiler 11 during planned startup and shutdown activities will be minimized by limiting the duration of operation in planned startup and shutdown mode as follows: **(12/24)**
 - A. A planned startup is defined as the period that begins when a flame is established in the boiler and ends when the boiler begins to produce steam at a rate of 120,000 lbs/hr or greater. A planned “warm” startup is limited to 360 minutes. A planned “cold” startup is limited to 900 minutes.
 - B. A planned shutdown is defined as the period that begins when the production of steam falls below 120,000 lbs/hr and ends when there is no longer a flame present in the boiler. A planned shutdown is limited to 360 minutes.
- 25. The permit holder shall keep record of periods of startup and shutdown of Boiler 9, Boiler 10, and Boiler 11 as defined in Special Condition No. 24 and the NO_x and CO emissions associated with startup and shutdown as determined by the CEMS for each boiler. **(12/24)**

Offset Conditions

- 26. This Nonattainment New Source Review (NNSR) permit is issued/approved based on the requirement that the permit holder offset the project emission increase for facilities authorized by this permit prior to the commencement of operation, through participation in the TCEQ Emission Banking and Trading (EBT) Program in accordance with the rules in 30 TAC Chapter 101, Subchapter H. **(6/22)**
- 27. The permit holder shall use 32.0 tons per year (tpy) of VOC ECs to offset the 26.67 tpy VOC project emission increase for the facilities authorized by this permit at a ratio of 1.2 to 1.0. **(12/24)**
 - A. The permit holder shall use 26.7 tpy of VOC Emission Credits from TCEQ credit certificate numbers 3993, 4005, 4079, 4080, 4081, 4082, 4083, 4084, and 4086 to offset a portion of the VOC project emission increase for the facilities authorized by this permit at a ratio of 1.2 to 1.0.
- 28. In addition to, or in place of, using credits as described in Special Condition No.27, the permit holder may use up to 5.3 tpy of Highly Reactive Volatile Organic Compounds Emission Cap and Trade (HECT) allowances to offset the 5.3 tpy VOC of the project emission increase for the following HECT facilities authorized by this permit at a ratio of 1.2 to 1.0.

| FIN | EPN |
|------------|------------|
| PROCFLARE | EP-5 |

- 29. The following sources and/or activities are authorized under a Permit by Rule (PBR) by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106). These lists are not intended to be all inclusive and can be altered without modifications to this permit. **(8/25)**

| Authorization | Source or Activity |
|----------------------|--|
| PBR 154654 | MSS Railcar Venting. |
| PBR 176061 | Authorize one aqueous ammonia tank and associated fugitive components to support Boiler 9's SCR. |

Date: August 13, 2025

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 46426 and N290

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) |
| EP-H9 | Boiler 9 (6) | VOC | 0.70 | 5.88 |
| | | NO _x | 5.35 | 23.43 |
| | | NO _x MSS (5) | 58.45 | 5.84 |
| | | SO ₂ | 2.30 | 2.63 |
| | | PM | 3.99 | 17.46 |
| | | PM ₁₀ | 3.99 | 17.46 |
| | | PM _{2.5} | 3.99 | 17.46 |
| | | CO | 3.95 | 21.26 |
| | | CO MSS (5) | 39.53 | |
| | | NH ₃ | 2.40 | 10.53 |
| Boiler 10 | Boiler 10 (6) | NO _x | 13.30 | 55.50 |
| | | NO _x MSS (5) | 17.24 | |
| | | SO ₂ | 12.27 | 5.02 |
| | | PM | 4.95 | 20.70 |
| | | PM ₁₀ | 4.95 | 20.70 |
| | | PM _{2.5} | 4.95 | 20.70 |
| | | CO | 47.90 | 200.40 |
| | | CO MSS (5) | 65.76 | |
| Boiler 11 | Boiler 11 (6) | NO _x | 13.30 | 55.50 |
| | | NO _x MSS (5) | 17.24 | |
| | | SO ₂ | 12.27 | 5.02 |
| | | PM | 4.95 | 20.70 |
| | | PM ₁₀ | 4.95 | 20.70 |
| | | PM _{2.5} | 4.95 | 20.70 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|---|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| | | CO | 47.90 | 200.40 |
| | | CO MSS (5) | 65.76 | |
| Boilers 10 and 11 | VOC Emission CAP for Boilers 10 and 11(6) | VOC | 14.86 | 39.90 |

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
 - NH₃ - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission limits apply during startup and shutdown as defined in the special conditions of this permit.
- (6) Planned MSS emissions are included within normal operation limits except where noted for NO_x and CO.

Date: August 13, 2025



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
TPC Group LLC
Authorizing the Construction and Operation of
Houston Plant
Located at Houston, Harris County, Texas
Latitude 29.699166 Longitude -95.253888

Permits: 19806 and PSDTX1586

Revision Date: February 28, 2025

Expiration Date: September 19, 2028



For the Commission

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

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

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

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

Common Acronyms in Air Permits

| | |
|--|---|
| °C = Temperature in degrees Celsius | GLC _{max} = maximum (predicted) ground-level concentration |
| °F = Temperature in degrees Fahrenheit | gpm = gallon per minute |
| °K = Temperature in degrees Kelvin | gr/1000scf = grain per 1000 standard cubic feet |
| µg = microgram | gr/dscf = grain per dry standard cubic feet |
| µg/m ³ = microgram per cubic meter | H ₂ CO = formaldehyde |
| acfm = actual cubic feet per minute | H ₂ S = hydrogen sulfide |
| AMOC = alternate means of control | H ₂ SO ₄ = sulfuric acid |
| AOS = alternative operating scenario | HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C |
| AP-42 = Air Pollutant Emission Factors, 5th edition | HC = hydrocarbons |
| APD = Air Permits Division | HCl = hydrochloric acid, hydrogen chloride |
| API = American Petroleum Institute | Hg = mercury |
| APWL = air pollutant watch list | HGB = Houston/Galveston/Brazoria |
| BPA = Beaumont/ Port Arthur | hp = horsepower |
| BACT = best available control technology | hr = hour |
| BAE = baseline actual emissions | IFR = internal floating roof tank |
| bbl = barrel | in H ₂ O = inches of water |
| bbl/day = barrel per day | in Hg = inches of mercury |
| bhp = brake horsepower | IR = infrared |
| BMP = best management practices | ISC3 = Industrial Source Complex, a dispersion model |
| Btu = British thermal unit | ISCST3 = Industrial Source Complex Short-Term, a dispersion model |
| Btu/scf = British thermal unit per standard cubic foot or feet | K = Kelvin; extension of the degree Celsius scaled-down to absolute zero |
| CAA = Clean Air Act | LACT = lease automatic custody transfer |
| CAM = compliance-assurance monitoring | LAER = lowest achievable emission rate |
| CEMS = continuous emissions monitoring systems | lb = pound |
| cfm = cubic feet (per) minute | lb/day = pound per day |
| CFR = Code of Federal Regulations | lb/hr = pound per hour |
| CN = customer ID number | lb/MMBtu = pound per million British thermal units |
| CNG = compressed natural gas | LDAR = Leak Detection and Repair (Requirements) |
| CO = carbon monoxide | LNG = liquefied natural gas |
| COMS = continuous opacity monitoring system | LPG = liquefied petroleum gas |
| CPMS = continuous parametric monitoring system | LT/D = long ton per day |
| DFW = Dallas/ Fort Worth (Metroplex) | m = meter |
| DE = destruction efficiency | m ³ = cubic meter |
| DRE = destruction and removal efficiency | m/sec = meters per second |
| dscf = dry standard cubic foot or feet | MACT = maximum achievable control technology |
| dscfm = dry standard cubic foot or feet per minute | MAERT = Maximum Allowable Emission Rate Table |
| ED = (TCEQ) Executive Director | MERA = Modeling and Effects Review Applicability |
| EF = emissions factor | mg = milligram |
| EFR = external floating roof tank | mg/g = milligram per gram |
| EGU = electric generating unit | mL = milliliter |
| EI = Emissions Inventory | MMBtu = million British thermal units |
| ELP = El Paso | MMBtu/hr = million British thermal units per hour |
| EPA = (United States) Environmental Protection Agency | MSDS = material safety data sheet |
| EPN = emission point number | MSS = maintenance, startup, and shutdown |
| ESL = effects screening level | MW = megawatt |
| ESP = electrostatic precipitator | NAAQS = National Ambient Air Quality Standards |
| FCAA = Federal Clean Air Act | NESHAP = National Emission Standards for Hazardous Air Pollutants |
| FCCU = fluid catalytic cracking unit | NGL = natural gas liquids |
| FID = flame ionization detector | NNSR = nonattainment new source review |
| FIN = facility identification number | NO _x = total oxides of nitrogen |
| ft = foot or feet | NSPS = New Source Performance Standards |
| ft/sec = foot or feet per second | |
| g = gram | |
| gal/wk = gallon per week | |
| gal/yr = gallon per year | |
| GLC = ground level concentration | |

PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM_{2.5} = particulate matter equal to or less than 2.5 microns in diameter
PM₁₀ = total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
POC = products of combustion
ppb = parts per billion
ppm = parts per million
ppmv = parts per million (by) volume
psia = pounds (per) square inch, absolute
psig = pounds (per) square inch, gage
PTE = potential to emit
RA = relative accuracy
RATA = relative accuracy test audit
RM = reference method
RVP = Reid vapor pressure
scf = standard cubic foot or feet
scfm = standard cubic foot or feet (per) minute
SCR = selective catalytic reduction
SIL = significant impact levels
SNCR = selective non-catalytic reduction
SO₂ = sulfur dioxide
SOCMI = synthetic organic chemical manufacturing industry
SRU = sulfur recovery unit
TAC = Texas Administrative Code
TCAA = Texas Clean Air Act
TCEQ = Texas Commission on Environmental Quality
TD = Toxicology Division
TLV = threshold limit value
TMDL = total maximum daily load
tpd = tons per day
tpy = tons per year
TVP = true vapor pressure
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VRU = vapor recovery unit or system

Special Conditions

Permit Numbers 19806 and PSDTX1586

Emission Standards

1. This permit authorizes chemical manufacturing and associated operations located at 8600 Park Place Boulevard, Houston, Harris County.
2. 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.
3. All sources of air contaminants shall be physically marked in a conspicuous location with the emission point numbers (EPNs) and/or the source names as identified on the Maximum Allowable Emission Rates Table (MAERT).

Federal Applicability

4. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources (NSPS) promulgated in Title 40 Code of Federal Regulations (40 CFR) Part 60 for:
 - A. Subpart A – General Provisions;
 - B. Subpart Db – Industrial-Commercial-Institutional Steam Generating Units;
 - C. Subpart VV – Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry;
 - D. Subpart IIII - Stationary Compression Ignition Internal Combustion Engines.
5. These facilities shall comply with all applicable requirements of EPA regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories (MACT) in 40 CFR Part 63, promulgated for:
 - A. Subpart A – General Provisions;
 - B. Subpart G – Organic Hazardous Air Pollutants from Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater;
 - C. Subpart H – Organic Hazardous Air Pollutants for Equipment Leaks;
 - D. Subpart ZZZZ – Stationary Reciprocating Internal Combustion Engines; and
 - E. Subpart DDDDD - Industrial, Commercial, and Institutional Boilers and Process Heaters.
6. If any condition of this permit is more stringent than the regulations so incorporated, the permit shall govern and be the standard by which compliance shall be demonstrated.

Emissions Limitations

7. Authorized fuels are limited to the following for fired sources associated with the Dehydro #2 (DH2) unit:

- A. Fuel for the DH2 Feed Heater [Facility Identification Number (FIN) EB-1B-2501], DH2 Air Heater (FIN 1B-2502), DH2 Regen Gas Generator Turbine (FIN 1G-2520), DH2 Turbine (FIN 1G-2502T), and DH2 Heat Recovery Boilers (FINs 1B-505 and 1B-506) authorized by this permit shall be limited to pipeline-quality, sweet natural gas or a mixture of natural gas and fuel gas containing no more than 5.0 grains total sulfur per 100 dry standard cubic feet (dscf) on daily basis and 0.5 grains total sulfur per 100 dscf on an annual basis.
 - B. The permit holder shall monitor fuel consumption for the sources listed in Paragraph A of this condition continuously using a monitoring device that is accurate to $\pm 5\%$ and maintained, calibrated, and operated in accordance with the manufacturer's specifications. The monitoring device shall be calibrated in accordance with the manufacturer's recommendations or at least annually. Maximum fuel usage shall not exceed 12,500 million standard cubic feet per year for natural gas and plant gas combined.
 - C. Upon request by the Executive Director of the Texas Commission on Environmental Quality (TCEQ) or any air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuel fired in the sources listed in Paragraph A of this condition or shall allow air pollution control agency representatives to obtain a sample for analysis.
8. Except during periods of maintenance and start-up, emissions from the DH2 Feed Heater (EPN EB-1B-2501, hereinafter FH2501) shall not exceed the limits below.
 - A. Nitrogen Oxides (NO_x): 0.03 lb/MMBtu on a one hour average.
 - B. Carbon Monoxide (CO): 50 parts per million by volume dry (ppmvd) at 3 percent (%) oxygen (O_2) on a one hour average.
 9. Except during periods of maintenance and start-up, emissions from the DH2 Heat Recovery Boiler (EPN EB-1B-505, hereinafter HRB505) shall not exceed the following:
 - A. NO_x : 11.55 ppmvd at 15% O_2 on a one hour average, 8.0 ppmvd at 15% O_2 on an annual average.
 - B. Ammonia (NH_3): 10 ppmvd at 15% O_2 on a one hour average, 10 ppmvd at 15% O_2 on an annual average.
 - C. CO: 50 ppmvd at 15% O_2 on a one hour average.
 10. Except during periods of maintenance and start-up missions, from the DH2 Heat Recovery Boiler (EPN EB-1B-506, hereinafter HRB506) shall not exceed the following:
 - A. NO_x : 5.0 ppmvd at 15% O_2 on a one hour average.
 - B. Ammonia (NH_3): 10 ppmvd at 15% O_2 on one hour average.
 - C. CO: 50 ppmvd at 15% O_2 on a one hour average.
 11. Within 24 months of the approval of this amendment, the permit holder shall evaluate the NO_x and NH_3 emissions from HRB505; copies of the full analysis shall be forwarded to both the Regional Director and the Air Permits Division. If the 2-year, end-of-catalyst life concentration is less than 80% of the concentration limits (one hour or annual) in Special Condition 9, the permit holder shall alter the allowable concentration/s to within 10% of the measured value.

12. A selective catalytic reduction (SCR) system using aqueous NH₃ and an oxidation catalyst shall be installed and operated on HRB505 and HRB506 to meet the NO_x, NH₃ and CO emission limits of Special Condition No. 9 and 10 and the MAERT.
13. In the event that the continuous emission monitoring system (CEMS) for NO_x is not operating for a period longer than one hour while the sources emitting through HRB505 and HRB506 are operating, the permit holder shall operate at no less than the NH₃ feed rate to the SCR that was measured prior to the outage of the CEMS, adjusted for load or other operating parameters.
14. Opacity of emissions from any one stack authorized by this permit shall not exceed 5% averaged over a six-minute period. During periods of start-up, shutdown, or maintenance, the opacity shall not exceed 15%. This determination shall be made by first observing for visible emissions while each facility is in operation. Observations shall be made at least 15 feet and no more than 0.25 miles from the emission point(s). If visible emissions are observed from an emission point, then the opacity shall be determined for that emission point by Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Contributions from uncombined water shall not be included in determining compliance with this condition. Observations shall be performed and recorded quarterly.
15. The feedstock to the DH2 unit shall be limited to 160 parts per million by weight (ppmw) sulfur on a one hour average and 47 ppmw sulfur on a 12-month rolling average.
16. Particulate matter (PM) vent emissions from any spent catalyst transfer operations shall be controlled using filter systems and will not exceed 0.01 grain per dscf of air.
17. Off-gas from the DH2 absorber overhead routed to HRB505 or HRB506 shall be controlled by 99.5%. Alternatively the off-gas may be routed to Boilers 9, 10, or 11 authorized in Permit 46426. The permit holder shall comply with the following requirements for any bypass between DH2 absorber overhead and HRB505, HRB506, Boiler 9, Boiler 10, or Boiler 11. **(02/25)**
 - A. Install a flow indicator that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or
 - B. Install valve position indicators that record all openings of the valves allowing flow through the bypass. Once a month, inspect the valves, verifying that the position of the valves is accurately reflected by the valve position indicators.
 - C. Records of the inspections required shall be maintained and if the results of any of the above inspections are not satisfactory, the permit holder shall promptly take necessary corrective action.

A bypass does not include authorized analyzer vents, highpoint bleeder vents, low point drains, or rupture discs upstream of pressure relief valves if the pressure between the disc and relief valve is monitored and recorded at least weekly. A deviation shall be reported if the monitoring or inspections indicate bypass of the control device when it is required to be in service.

Operational Limitations

18. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration of greater than 1% 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.
19. Safety relief valves that discharge to the atmosphere only as a result of fire or failure of utilities are exempt from quarterly monitoring per 30 TAC Chapter 115 and 40 CFR Part 60 Subpart VV, provided that each valve is equipped with a rupture disc upstream. A pressure sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity, but no later than the next process shutdown.
20. Sampling ports and platform(s) shall be incorporated into the design of FH2501, HRB505, and HRB506 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 Texas Commission on Environmental Quality (TCEQ) Regional Director.
21. Upon request by the TCEQ Executive Director, 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.

Aqueous Ammonia Handling (NH₃)

22. Aqueous ammonia storage tanks shall be located within a physical barrier to traffic. Tank containment shall be employed with a minimum of 110% of tank volume. Vapors resulting from the filling operations of the aqueous ammonia storage tank(s) shall be collected and vapor returned back to the transport vessel.
23. The relief valve system shall be designed and operated to ensure that there are no working loss emissions to the atmosphere resulting from filling operations, and that there are no breathing losses during normal non-filling (standing) operations. The fill level of the aqueous ammonia storage tank shall not exceed a level that is in line with good engineering practices, and shall include a high level alarm and a high-high level alarm. In addition, sealless pumps shall be used in all piping handling aqueous ammonia.
24. Audio, visual and olfactory (AVO) checks for ammonia leaks shall be made once per day within the operating area.
 - A. No later than one hour following detection of a leak, plant personnel shall take the following actions:
 - (1) Locate and isolate the leak; and
 - (2) Use a leak collection or containment system to control the leak until repair or replacement can be made.
 - B. A component in no instance may be allowed to have a leak for more than 15 calendar days after the leak is found.

Cooling Tower

25. The cooling tower (EPN F-CT-3) shall be operated and monitored in accordance with the following:
(6/22)

- 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.
- B. Cooling tower water VOC concentrations above 0.042 ppmw indicate faulty equipment. Equipment shall be maintained so as to minimize VOC emissions into the cooling water. Faulty equipment shall be repaired at the earliest opportunity but no later than the next scheduled shutdown of the process unit in which the leak occurs.

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

26. The cooling tower (EPN F-CT-3) shall be operated and monitored in accordance with the following:
(6/22)

- A. Cooling towers shall each be equipped with drift eliminators having manufacturer's design assurance of 0.0005% drift or less. Drift eliminators shall be maintained and inspected at least annually. The permit holder shall maintain records of all inspections and repairs.
- B. Total dissolved solids (TDS) shall not exceed 3,500 parts per million by weight (ppmw). Dissolved solids in the cooling water drift are considered to be emitted as PM, PM₁₀, and PM_{2.5} as represented in the permit application calculations.
- C. Cooling towers shall be analyzed for particulate emissions using one of the following methods:
 - (1) Cooling water shall be sampled at least once per day for total dissolved solids (TDS);
or
 - (2) TDS monitoring may be reduced to weekly if conductivity is monitored daily and TDS is calculated using a ratio of TDS-to-conductivity (in ppmw per $\mu\text{mho/cm}$ or ppmw/siemens). The ratio of TDS-to-conductivity shall be determined by concurrently monitoring TDS and conductivity on a weekly basis. The permit holder may use the average of two consecutive TDS-to-conductivity ratios to calculate daily TDS; or
 - (3) TDS monitoring may be reduced to quarterly if conductivity is monitored daily and TDS is calculated using a correlation factor established for each cooling tower. The correlation factor shall be the average of nine consecutive weekly TDS-to-conductivity ratios determined using C(2) above provided the highest ratio is not more than 10% larger than the smallest ratio.
 - (4) The permit holder shall validate the TDS-to-conductivity correlation factor once each calendar quarter. If the ratio of concurrently sampled TDS and conductivity is more than 10% higher or lower than the established factor, the permit holder shall increase TDS monitoring to weekly until a new correlation factor can be established.

- D. Cooling water sampling shall be representative of the cooling tower feed water and shall be conducted using approved methods.
- (1) The analysis method for TDS shall be EPA Method 160.1, ASTM D5907, or SM 2540 C [SM - 19th edition of Standard Methods for Examination of Water]. Water samples should be capped upon collection, and transferred to a laboratory area for analysis.
 - (2) The analysis method for conductivity shall be either ASTM D1125-14 Test Method A (field or routine laboratory testing) or ASTM D1125-14 Test Method B (continuous monitor). The analysis may be conducted at the sample site or with a calibrated process conductivity meter. If a conductivity meter is used, it shall be calibrated at least annually. Documentation of the method and any associated calibration records shall be maintained.
 - (3) Alternate sampling and analysis methods may be used to comply with D(1) and D(2) with written approval from the TCEQ Regional Director.
 - (4) Records of all instrument calibrations and test results and process measurements used for the emission calculations shall be retained.
- E. Emission rates of PM, PM₁₀ and PM_{2.5} shall be calculated using the measured TDS and the ratio or correlation of TDS to conductivity measurements, the design drift rate and the daily maximum and average actual cooling water circulation rate for the short term and annual average rates. Alternately, the design maximum circulation rate may be used for all calculations. Emission records shall be updated monthly.

Piping, Valves, Pumps, Agitators, and Compressors - Intensive Directed Maintenance – 28LAER

27. Except as may be provided for in the Special Conditions of this permit, the following requirements apply to the above-referenced equipment: **(6/22)**
- A. The requirements of paragraphs F and G shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68°F or (2) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made readily available upon request.
- The exempted components may be identified by one or more of the following methods:
- piping and instrumentation diagram (PID);
 - a written or electronic database or electronic file;
 - color coding;
 - a form of weatherproof identification; or
 - designation of exempted process unit boundaries.
- B. Construction of new and reworked piping, valves, pump systems, 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 paragraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified may instead be monitored annually.
- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance.

Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through. In addition, all connectors shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program in accordance with items F thru J of this special condition.

In lieu of the monitoring frequency specified above, connectors may be monitored on a semiannual basis if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Connectors may be monitored on an annual basis if the percent of connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

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

The percent of connectors leaking shall be determined using the following formula:

$$(Cl + Cs) \times 100/Ct = Cp$$

Where:

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

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

Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including non-accessible and unsafe to monitor connectors.

Cp = the percentage of leaking connectors for the monitoring period.

Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be

closed. If the isolation of equipment for hot work or the removal of a component for repair or replacement results in an open ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period;

- (1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or
- (2) The open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 250 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

- F. Accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program. Non accessible valves shall be monitored by leak-checking for fugitive emissions at least annually using an approved gas analyzer with a directed maintenance program. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown. A check of the reading of the pressure-sensing device to verify disc integrity shall be performed at least quarterly and recorded in the unit log or equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph.

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.

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

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

to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

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

- H. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 250 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.
- I. 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, 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.
- J. 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.
- K. In lieu of the monitoring frequency specified in paragraph F, valves in gas and light liquid service may be monitored on a semiannual basis if the percent of valves leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.
- Valves in gas and light liquid service may be monitored on an annual basis if the percent of valves leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.
- If the percent of valves leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.
- L. The percent of valves leaking used in paragraph K shall be determined using the following formula:

$$(Vl + Vs) \times 100/Vt = Vp$$

Where:

- Vl = the number of valves found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.
 - Vs = the number of valves for which repair has been delayed and are listed on the facility shutdown log.
 - Vt = the total number of valves in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe to monitor valves.
 - Vp = the percentage of leaking valves for the monitoring period.
- M. Any component found to be leaking by physical inspection (i.e., sight, sound, or smell) shall be repaired or monitored with an approved gas analyzer within 15 days to determine whether the component is leaking in excess of 250 ppmv of VOC. If the component is found to be leaking in excess of 250 ppmv of VOC, it shall be subject to the repair and replacement requirements contained in this special condition.

Routine Maintenance, Startup, and Shutdown (MSS)

- 28. The maintenance startup and shutdown (MSS) emissions associated with FH2501, HRB505, HRB506, and DH2CAT-MSS activities are reflected in the MAERT. The MSS emissions associated with all other sources are included in the site wide MSS emissions contained in the MAERT for Permit No. 46307.
- 29. MSS emissions will be minimized by the following:
 - A. Facility and air pollution control equipment will be operated in a manner consistent with good practices for minimizing emissions.
 - B. The duration of operation in MSS mode will be minimized and the applicable emissions monitoring systems will be kept in operation.
 - C. MSS activities are authorized provided that the NO_x, CO and VOC emission rates in pounds per hour (lb/hr) do not exceed those specified in the MAERT for MSS operations and comply with the annual limits specified in the MAERT.
- 30. Startup is defined as the period that begins when fuel is introduced to any combustion source. Ammonia will be injected within two hours of SCR bed reaching 450°F for NO_x control. Startup is concluded once unit is in production and off-gas has been introduced into combustion devices.
(6/22)
- 31. During startup events, the Heat Recovery Boilers (FINs 1B-505 and 1B-506), Regen Gas Generator Turbine (FIN 1G-2520), and Turbine (FIN 2502T) shall be limited to natural gas firing only until the SCR catalyst beds for HRB505 and HRB506 have achieved the minimum operating temperature of 450° F and ammonia injection has commenced.
- 32. Unplanned or emergency shutdowns are required to comply with the requirements of 30 TAC § 101.201.

Initial Demonstration of Compliance

33. 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 HRB505 and HRB506 to demonstrate compliance with the MAERT and Special Condition Nos. 9 and 10. The permit holder is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. Sampling shall be conducted in accordance with the appropriate procedures of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual and the U.S. Environmental Protection Agency (EPA) Reference Methods.

Requests to waive testing for any pollutant specified in this condition shall be submitted to the TCEQ Office of Air, Air Permits Division. Test waivers and alternate/equivalent procedure proposals for Title 40 Code of Federal Regulation Part 60 (40 CFR Part 60) testing which must have EPA approval shall be submitted to the TCEQ Regional Director.

- A. The appropriate TCEQ Regional Office shall be notified not less than 45 days prior to sampling. The notice shall include:

- (1) Proposed date for pretest meeting.
- (2) Date sampling will occur.
- (3) Name of firm conducting sampling.
- (4) Type of sampling equipment to be used.
- (5) Method or procedure to be used in sampling.
- (6) Description of any proposed deviation from the sampling procedures specified in this permit or TCEQ/EPA sampling procedures.
- (7) Procedure/parameters to be used to determine worst case emissions during the sampling period.

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

- B. Air contaminants emitted from HRB505 and HRB506 to be tested for include (but are not limited to): NO_x, CO, VOC, PM, NH₃, SO₂ and opacity.
- C. Sampling shall occur within 180 days after the approval of this amendment, and at such other times as may be required by the TCEQ Executive Director. Requests for additional time to perform sampling shall be submitted to the appropriate regional office.
- D. During stack emission testing, each facility shall operate under conditions necessary to demonstrate maximum emissions. HRB505 and HRB506 shall operate at maximum stack flow rate. These conditions/parameters and any other primary operating parameters that affect the emission rate shall be monitored and recorded during the stack test. Any additional parameters shall be determined at the pretest meeting and shall be stated in the sampling report. Permit conditions and parameter limits may be waived during stack testing performed under this condition if the proposed condition/parameter range is identified in the test notice specified in paragraph A and accepted by the TCEQ Regional Office. Permit allowable emissions and emission control requirements are not waived and still apply during stack testing periods.

During subsequent operations, if the stack flow rate is greater than that recorded during the test period, stack sampling shall be performed at the new operating conditions within 180 days. This sampling may be waived by the TCEQ Air Section Manager for the region.

- E. Copies of the final sampling report shall be forwarded to the offices below within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions entitled "Chapter 14, Contents of Sampling Reports" of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:
 - One copy to the appropriate TCEQ Regional Office.
 - One copy to each local air pollution control program.
- F. Sampling ports and platform(s) shall be incorporated into the design of (source stack and EPN) according to the specifications set forth in the attachment entitled "Chapter 2, Guidelines for Stack Sampling Facilities" of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual. Alternate sampling facility designs must be submitted for approval to the TCEQ Regional Director.

Continuous Determination of Compliance

- 34. The holder of this permit shall install, calibrate, and maintain a continuous emission monitoring system (CEMS), to measure and record the in-stack concentration of NO_x, CO, and O₂ from HRB505 and HRB506, and a continuous flow monitoring system to measure and record the flow from HRB505.
 - 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 Specifications No. 1 through 6, 40 CFR Part 60, Appendix B. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Office of Permitting and Registration, Air Permits Division for requirements to be met. The continuous flow monitoring system shall meet the design and performance recommendations of the manufacturer for use with the CEMS.
 - B. The permit holder shall assure that the CEMS meet 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, Procedure 1, Section 5.2.3 and any CEMS downtime shall be reported to the appropriate TCEQ Regional Manager, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Manager. The continuous flow monitoring system shall meet the quality-assurance recommendations of the manufacturer for use with the CEMS.
 - C. The monitoring data shall be reduced to hourly average concentrations at least once every day, using a minimum of four equally-spaced data points from each one-hour period.

The individual average concentrations of NO_x and CO shall be reduced to units of ppmvd, corrected to 15% O₂, at least once every week. In addition, the NO_x and CO concentrations shall be reduced to units of pounds per hour at least once every week. The flow rate used to calculate the mass emissions shall be as-measured concurrently with the emissions concentrations.

- D. All monitoring data and quality-assurance data shall be maintained by the source. The data from these monitoring systems may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit.
 - E. Quality-assured (or valid) data must be generated when emissions are routed to HRB505 or HRB506 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% of the time (in minutes) that emissions are generated over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded. Options to increase system reliability to an acceptable value, including redundant monitoring systems, may be required by the TCEQ Regional Manager.
35. The NH₃ concentration in HRB505 and HRB506 exhaust stacks 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 NH₃ 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 NH₃. The NH₃ concentrations shall be corrected and reported in accordance with Special Condition Nos. 9 and 10.
 - B. As an approved alternative, the NH₃ slip may be measured using a sorbent or stain tube device specific for NH₃ measurement in the 5 to 15 parts per million (ppm) range. The frequency of sorbent or stain tube testing shall be daily for the first 60 days of operation, after which, the frequency may be reduced to weekly testing if operating procedures have been developed to prevent excess amounts of NH₃ from being introduced in the SCR unit and when operation of the SCR unit has been proven successful with regard to controlling NH₃ 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 Special Condition Nos. 9 and 10. If the sorbent or stain tube testing indicates an ammonia slip concentration which exceeds 7 ppm at any time, the permit holder shall begin NH₃ testing by either the Phenol-Nitroprusside Method, the Indophenol Method, or EPA Conditional Test Method (CTM) 27 on a quarterly basis in addition to the weekly sorbent or stain tube testing. The quarterly testing shall continue until such time as the SCR unit catalyst is replaced; or if the quarterly testing indicates NH₃ slip is 5 ppm or less, the Phenol-Nitroprusside/Indophenol/CTM 27 tests may be suspended until sorbent or stain tube testing again indicate 7 ppm NH₃ slip or greater. These results shall be recorded and used to determine compliance with Special Condition Nos. 9 and 10.
 - C. As an approved alternative, the permit holder may install and operate a second NO_x CEMS probe located upstream of the SCR, which may be used in association with the SCR efficiency and NH₃ injection rate to estimate NH₃ slip. This condition shall not be construed to set a minimum NO_x reduction efficiency on the SCR unit. These results shall be recorded and used to determine compliance with Special Condition Nos. 9 and 10.
 - D. As an approved alternative, 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 NH₃ converter to convert NH₃ to NO_x and then to a second NO_x CEMS. The NH₃ slip concentration shall be calculated from the delta between the two NO_x CEMS readings (converted and unconverted). These results shall be recorded and used to determine compliance with Special Condition Nos. 9 and 10.

- E. Any other method used for measuring NH₃ slip shall require prior approval from the TCEQ Houston Regional Office.
36. In addition to the weekly physical inspection required by Item E of Special Condition No. 37, all accessible connectors in gas/vapor and light liquid service shall be monitored quarterly with an approved gas analyzer in accordance with Items F through J of Special Condition No. 37. (28CNTQ)
- A. Connectors may be monitored on a semiannual basis if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5%. Connectors may be monitored on an annual basis if the percent of connectors leaking for two consecutive semiannual monitoring periods is less than 0.5%. If the percent of connectors leaking for any semiannual or annual monitoring period is 0.5% or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.
- B. The percent of connectors leaking used in paragraph A shall be determined using the following formula:
- $$(Cl + Cs) \times 100/Ct = Cp$$
- Where:
- Cl = the number of connectors found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.
- Cs = the number of connectors for which repair has been delayed and are listed on the facility shutdown log.
- Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including non-accessible and unsafe-to-monitor connectors.
- Cp = the percentage of leaking connectors for the monitoring period.

37. Piping, Valves, Connectors, Pumps, and Compressors in Contact with VOC – 28VHP

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

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

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

- (1) piping and instrumentation diagram (PID);
- (2) a written or electronic database or electronic file;
- (3) color coding;
- (4) a form of weatherproof identification; or

- (5) designation of exempted process unit boundaries.
- B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.
- C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.
- D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph A above. If an unsafe-to-monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe-to-monitor times. A difficult-to-monitor component for which quarterly monitoring is specified may instead be monitored annually.
- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

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

- (1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or
 - (2) the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once within the 72 hour period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 250 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 250 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. (See exception in Special Condition No. 38.)
- 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.
38. The leak definition level for identifying leaking or damaged valves, connectors, pumps, compressors, and agitator seals found to be emitting VOCs in Special Condition No. 37 shall be 250 ppmv instead of the applicable 500 ppmv, 2,000 ppmv, or 10,000 ppmv.

Emergency Engine

39. The diesel emergency engine, EPN PHE-GEN, is authorized to fire diesel fuel containing no more than 15 ppmw total sulfur and is limited to a maximum of 100 hours of operation annually. Records kept shall include the Emission Point Number, the date of the non-emergency operation, and the event duration. Records shall be kept for a period of 5 years.

Recordkeeping

40. Records shall be maintained for Special Condition Nos. 34, 35, 36, and 37 of this permit and kept at the plant site. These records shall be made available to representatives of the TCEQ or any local pollution control program having jurisdiction upon request. These records shall be kept for five years after the data is obtained.
41. The following records shall be kept at the plant for the life of the permit. All records required in this permit shall be made available at the request of personnel from the TCEQ, EPA, or any air pollution control agency with jurisdiction.
- A. A copy of this permit.
 - B. Permit application dated October 2010 and subsequent representations submitted to the TCEQ.
 - C. Stack sampling results or other air emissions testing (other than CEMS data) that may be conducted on units authorized under this permit after the date of issuance of this permit.

42. 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, EPA, or any local air pollution control program having jurisdiction:
- A. Intentionally omitted.
 - B. Records of sulfur content of natural gas and plant gas as required by Special Condition No. 7.A and fuel usage as required by Special Condition No. 7.B.
 - C. The NO_x, CO, and diluent gases, O₂ or CO₂, CEMS emissions data to demonstrate compliance with the emission rates listed in the maximum allowable emission rates table (MAERT) and the concentration limits in Special Conditions No. 9 and 10.
 - D. Raw data files of all CEMS data including calibration checks and adjustments and maintenance performed on these systems.
 - E. Records to identify the times emission data have been excluded from the calculation of average concentration for purposes of demonstrating compliance with the emission limitations in Special Condition No. 9 and 10.
 - F. Results of NO_x concentration evaluation pursuant to Special Condition No. 11.
 - G. Field records of visible emissions observations as specified in Special Condition No. 14.
 - H. Records of one hour and 12-month rolling average sulfur concentrations in DH2 feedstock as specified in Special condition No. 15.
 - I. Records demonstrating compliance with AVO checks and maintenance as required by Special Condition No. 24.

Miscellaneous

43. 30 TAC §116.116(e) (Changes to Qualified Facilities) may not be used in association with HRB505.

Permit by Rule

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

| Authorization | Source or Activity |
|---|---|
| TAC 106.261 and 106.262. PBR registration 139673 issued May 18, 2016. | Fugitive components associated with NSR Permit Nos. 19806 and 46307. |
| TAC 106.262. PBR 142511 registration issued October 17, 2016. | Aqueous Ammonia Storage. |
| TAC 106.261 and 106.262. PBR registration 146025 issued November 6, 2017. | Authorized the net increase of fugitive components associated with minor projects implemented during the 2016 calendar year. Associated with NSR Permit Nos. 19806 and 46307. |
| TAC 106.261 and 106.262. PBR registration 151169 issued May 17, 2018. | Fugitive components associated with NSR Permit Nos. 19806 and 46307. |

Date: February 28, 2025

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 19806 and PSDTX1586

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) |
| EB-1B-505 | Dehydro No. 2 Heat Recovery Boiler, Dehydro No. 2 Air Heater, DH2 Reactors, Dehydro No. 2 Regen Gas Generator Turbine | NO _x | 26.21 | 76.87 |
| | | CO | 56.35 | 134.37 |
| | | VOC | 3.79 | 14.44 |
| | | PM | 17.31 | 66.21 |
| | | PM ₁₀ | 17.31 | 66.21 |
| | | PM _{2.5} | 17.31 | 66.21 |
| | | SO ₂ | 21.81 | 20.07 |
| | | NH ₃ | 8.40 | 35.57 |
| EB-1B-505MSS | Dehydro No. 2 Heat Recovery Boiler, Dehydro No. 2 Air Heater, DH2 Reactors, Dehydro No. 2 Regen Gas Generator | NO _x | 29.75 | 4.46 |
| | | CO | 44.67 | 6.70 |
| | | VOC | 2.38 | 0.36 |
| | | PM | 0.89 | 0.13 |
| | | PM ₁₀ | 0.89 | 0.13 |
| | | PM _{2.5} | 0.89 | 0.13 |
| | | SO ₂ | 0.07 | 0.01 |
| EB-1B-506 | Dehydro No. 2 Heat Recovery Boiler, Dehydro No. 2 Regen Gas Generator | NO _x | 6.61 | 26.87 |
| | | CO | 3.95 | 16.48 |
| | | VOC | 1.16 | 4.51 |
| | | PM | 8.48 | 32.19 |
| | | PM ₁₀ | 8.48 | 32.19 |
| | | PM _{2.5} | 8.48 | 32.19 |
| | | SO ₂ | 8.67 | 11.95 |
| | | NH ₃ | 4.79 | 20.01 |
| EB-1B-506MSS | Dehydro No. 2 Heat | NO _x | 74.24 | 11.14 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|---|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| | Recovery Boiler, Dehydro No. 2 Regen Gas Generator | CO | 35.89 | 5.38 |
| | | VOC | 2.15 | 0.32 |
| | | PM | 3.15 | 0.47 |
| | | PM ₁₀ | 3.15 | 0.47 |
| | | PM _{2.5} | 3.15 | 0.47 |
| | | SO ₂ | 0.11 | 0.41 |
| EB-1B-2501 | Dehydro No. 2 Unit Feed Heater | NO _x | 2.94 | 12.88 |
| | | CO | 3.28 | 14.36 |
| | | VOC | 0.53 | 2.31 |
| | | PM | 0.73 | 3.20 |
| | | PM ₁₀ | 0.73 | 3.20 |
| | | PM _{2.5} | 0.73 | 3.20 |
| | | SO ₂ | 0.06 | 0.25 |
| F-20 | Dehydro 2 Unit Fugitives (5) | VOC | 0.62 | 2.72 |
| | | NH ₃ | 0.93 | 4.08 |
| DH2CAT-MSS | DH2 Catalyst Change Out Fugitives | PM | 0.39 | 0.04 |
| | | PM ₁₀ | 0.39 | 0.04 |
| | | PM _{2.5} | 0.39 | 0.04 |
| PHEN-GEN | Emergency Diesel Generator | NO _x | 0.88 | 0.05 |
| | | CO | 1.10 | 0.06 |
| | | VOC | 0.88 | 0.05 |
| | | PM | 0.22 | 0.01 |
| | | PM ₁₀ | 0.22 | 0.01 |
| | | PM _{2.5} | 0.22 | 0.01 |
| | | SO ₂ | 0.01 | 0.01 |
| T-IF-924 | Dehydro No.2 Unit Tank IF-924 | VOC | 0.91 | 0.04 |
| F-CT-3 | Cooling Tower CT-3 | PM | 0.61 | 2.67 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|-----------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| | | PM ₁₀ | 0.27 | 1.16 |
| | | PM _{2.5} | < 0.01 | < 0.01 |
| | | VOC | 2.79 | 7.63 |

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- NH₃ - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: June 13, 2022