

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

Invista S.à r.l.

AUTHORIZING THE OPERATION OF

Victoria Site
HMD/BIO/OLA
Industrial Organic Chemicals

LOCATED AT

Victoria County, Texas

Latitude 28° 40' 41" Longitude 96° 57' 17"

Regulated Entity Number: RN102663671

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: O1902 Issuance Date: September 21, 2011

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, Subpart A, G, FFFF, ZZZZ, or DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.100, § 113.120, § 113.890, § 113.1090, or § 113.1130 respectively, which incorporate the 40 CFR Part 63 Subpart by reference.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)

3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed either before or after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
- (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(1)(E)
 - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
 - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
 - (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
 - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum

required value does not constitute creation of an alternative fuel.

- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (5) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement.

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

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

B. For visible emissions from 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. 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)
 - F. 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 § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 4. For industrial wastewater specified in 30 TAC Chapter 115, Subchapter B, the permit holder shall comply with 40 CFR Part 63, Subpart G as specified in 30 TAC § 115.143(c)(1) - (3).
- 5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
- 6. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 61, unless otherwise stated in the applicable subpart:

- A. Title 40 CFR § 61.05 (relating to Prohibited Activities)
 - B. Title 40 CFR § 61.07 (relating to Application for Approval of Construction or Modification)
 - C. Title 40 CFR § 61.09 (relating to Notification of Start-up)
 - D. Title 40 CFR § 61.10 (relating to Source Reporting and Request Waiver)
 - E. Title 40 CFR § 61.12 (relating to Compliance with Standards and Maintenance Requirements)
 - F. Title 40 CFR § 61.13 (relating to Emissions Tests and Waiver of Emission Tests)
 - G. Title 40 CFR § 61.14 (relating to Monitoring Requirements)
 - H. Title 40 CFR § 61.15 (relating to Modification)
 - I. Title 40 CFR § 61.19 (relating to Circumvention)
7. For facilities where total annual benzene quantity from waste is greater than or equal to 10 megagrams per year and subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
- A. Title 40 CFR § 61.342(c)(1)(i) - (iii) (relating to Standards: General)
 - B. Title 40 CFR § 61.342(c)(2) (relating to Standards: General)
 - C. For exempting waste streams:
 - (i) Title 40 CFR § 61.342(c)(3)(ii)(A) - (C) (relating to Standards: General)
 - D. Title 40 CFR § 61.342(f)(1), and (2) (relating to Standards: General)
 - E. Title 40 CFR § 61.342(g) (relating to Standards: General)
 - F. Title 40 CFR § 61.350(a) and (b) (relating to Standards: Delay of Repair)
 - G. Title 40 CFR § 61.355(a)(1)(iii), (a)(2), (a)(6), (b), and (c)(1) - (3) (relating to Test Methods, Procedures, and Compliance Provisions)
 - H. Title 40 CFR § 61.355(j) (relating to Test Methods, Procedures, and Compliance Provisions), for calculation procedures
 - I. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)

- J. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)
 - K. Title 40 CFR § 61.356(b)(2)(i) - (ii) (relating to Recordkeeping Requirements)
 - L. Title 40 CFR § 61.356(b)(5) (relating to Recordkeeping Requirements)
 - M. Title 40 CFR § 61.356(c) (relating to Recordkeeping Requirements)
 - N. Title 40 CFR § 61.357(a), (d)(1), (d)(2) (d)(6) and (d)(8) (relating to Reporting Requirements)
 - O. Title 40 CFR § 61.357(d)(3) (relating to Reporting Requirements)
8. For facilities with containers subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
- A. Title 40 CFR § 61.345(a)(1) - (3), (b), and (c) (relating to Standards: Containers)
 - B. Title 40 CFR § 61.355(h) (relating to Test Methods, Procedures and Compliance Provisions)
 - C. Title 40 CFR § 61.356(g) (relating to Recordkeeping Requirements)
 - D. Title 40 CFR § 61.356(h) (relating to Recordkeeping Requirements)
9. For facilities with individual drain systems subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
- A. Title 40 CFR § 61.346(a)(1)(i)(A), (B), (ii), (2), and (3) (relating to Standards: Individual Drain Systems)
 - B. Title 40 CFR § 61.346(b)(1), (2), (2)(i), (3), (4)(i) - (iv), and (5) (relating to Standards: Individual Drain Systems)
 - C. Title 40 CFR § 61.355(h) (relating to Test Methods, Procedures and Compliance Provisions)
 - D. Title 40 CFR § 61.356(g) (relating to Recordkeeping Requirements)
 - E. Title 40 CFR § 61.356(h) (relating to Recordkeeping Requirements)
10. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

11. For 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) (relating to Applicability), for 40 CFR Part 63, Subpart G applicability to Group 1 or 2 Wastewater Streams
12. 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)
13. 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
 - C. For facilities not operating flow indicators:
 - (i) Title 40 CFR § 63.148(f)(2) (relating to Leak Inspection Provisions), for monitoring and testing requirements
 - (ii) Title 40 CFR § 63.148(i)(3)(ii) (relating to Leak Inspection Provisions), for recordkeeping requirements
 - (iii) Title 40 CFR § 63.148(j)(3) (relating to Leak Inspection Provisions), for reporting requirements
- 14. 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)
- 15. 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)
- 16. For the Off-Site Waste and Recovery Operations specified in 40 CFR Part 63, Subpart DD, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.350 incorporated by reference):
 - A. Requirements specified with reference to 40 CFR Part 63, Subpart A:
 - (i) Title 40 CFR § 63.680(f) for applicability of the General Provisions of Subpart A
 - (ii) Title 40 CFR § 63.696(a) (relating to Recordkeeping Requirements)
 - (iii) Title 40 CFR § 63.697(a) (relating to Reporting Requirements)

- B. Title 40 CFR § 63.688(b) and (c) (relating to Standards: Containers), for control of air emissions
 - C. Title 40 CFR § 63.689(b) (relating to Standards: Individual Drain Systems), for control of air emissions
17. For the Off-Site Waste and Recovery Operations specified in 40 CFR Part 63, Subpart DD, for off-site materials determined to have an average volatile organic hazardous air pollutant (VOHAP) concentration less than 500 parts per million by weight (ppmw) at the point of delivery that are not combined with off-site materials having a VOHAP concentration of 500 ppmw or greater, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.350 incorporated by reference):
- A. Title 40 CFR § 63.683(b)(1)(iii) (relating to Standards: General)
 - B. Title 40 CFR § 63.694(b)(3) (relating to Testing Methods and Procedures)
18. 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).
19. For site remediation projects subject to 40 CFR Part 63, Subpart GGGGG that will remove remediation material containing less than 1 megagram per year of the HAP listed in Table 1 to Subpart GGGGG, the permit holder shall comply with 40 CFR § 63.7881(c)(1) - (3) (Title 30 TAC Chapter 113, Subchapter C, § 113.1160 incorporated by reference).

Additional Monitoring Requirements

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

New Source Review Authorization Requirements

21. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
 - A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
22. 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.
23. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

24. 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.
25. 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

- 26. 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

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

- A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.
- B. The permit holder shall comply with 40 CFR Part 82, Subpart F related to the disposal requirements for appliances using Class I or Class II (ozone-depleting) substances or non-exempt substitutes as specified in 40 CFR §§ 82.150 - 82.166 and the applicable Part 82 Appendices.

Permit Location

- 28. 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)

- 29. 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 18

Applicable Requirements Summary 34

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 |
|----------------------------------|---|--------------------------|---------------|---|-------------------------|
| 04CWA035 | INDUSTRIAL PROCESS COOLING TOWERS | N/A | 63FFFF-6 | 40 CFR Part 63, Subpart FFFF | No changing attributes. |
| 04DGR001 | SOLVENT DEGREASING MACHINES | N/A | R5412 | 30 TAC Chapter 115, Degreasing Processes | No changing attributes. |
| 04DIS501 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111-0001 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 04DIS501 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5112-0006 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 04DIS501 | DISTILLATION OPERATIONS | N/A | 60NNN-0001 | 40 CFR Part 60, Subpart NNN | No changing attributes. |
| 04DIS501 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-0001 | 40 CFR Part 63, Subpart FFFF | No changing attributes. |
| 04DIS506 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-2 | 40 CFR Part 63, Subpart FFFF | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|----------------------------------|---|--------------------------|---------------|--|-------------------------|
| 04DIS510 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111-0002 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 04DIS510 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5112-0007 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 04DIS510 | DISTILLATION OPERATIONS | N/A | 60NNN-0002 | 40 CFR Part 60, Subpart NNN | No changing attributes. |
| 04DIS510 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-0002 | 40 CFR Part 63, Subpart FFFF | No changing attributes. |
| 04DIS550 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-6 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 04DIS550 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-3 | 40 CFR Part 63, Subpart FFFF | No changing attributes. |
| 04DIS551 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-5 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|----------------------------------|---|--------------------------|---------------|--|-------------------------|
| 04DIS551 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-5 | 40 CFR Part 63, Subpart FFFF | No changing attributes. |
| 04DIS552 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-5 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 04DPT001PV | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-6 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 04FLR032 | FLARES | N/A | R5111-1 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 04FLR032 | FLARES | N/A | 60A-1 | 40 CFR Part 60, Subpart A | No changing attributes. |
| 04FLR032 | FLARES | N/A | 63A-1 | 40 CFR Part 63, Subpart A | No changing attributes. |
| 04FUG | FUGITIVE EMISSION UNITS | N/A | 63FFFF-2 | 40 CFR Part 63, Subpart FFFF | No changing attributes. |
| 04LBA006A | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|----------------------------------|---|--------------------------|---------------|--|---|
| 04LRC006 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 04LRC006 | LOADING/UNLOADING OPERATIONS | N/A | R5211-1 | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| 04LTR018 | LOADING/UNLOADING OPERATIONS | N/A | R5211-1 | 30 TAC Chapter 115, Loading and Unloading of VOC | TRUE VAPOR PRESSURE = True vapor pressure is less than 1.5 psia., TRANSFER TYPE = Loading and unloading. |
| 04LTR018 | LOADING/UNLOADING OPERATIONS | N/A | R5211-2 | 30 TAC Chapter 115, Loading and Unloading of VOC | TRUE VAPOR PRESSURE = True vapor pressure is greater than or equal to 1.5 psia., DAILY THROUGHPUT = Loading less than 20,000 gallons per day., TRANSFER TYPE = Only loading. |
| 04MONPWW | TREATMENT PROCESS | N/A | 63FFFF-1 | 40 CFR Part 63, Subpart FFFF | No changing attributes. |
| 04PRC | VOLATILE ORGANIC COMPOUND WATER SEPARATORS | N/A | 63FFFF-8 | 40 CFR Part 63, Subpart FFFF | No changing attributes. |
| 04RSY600 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-3 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|----------------------------------|---|--------------------------|---------------|--|-------------------------|
| 04SEP001 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 04SEP001 | VOLATILE ORGANIC COMPOUND WATER SEPARATORS | N/A | R5131B2 | 30 TAC Chapter 115, Water Separation | No changing attributes. |
| 04TFX026 | STORAGE TANKS/VESSELS | N/A | R5112-0004 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| 04TFX026 | STORAGE TANKS/VESSELS | N/A | 60KB-0003 | 40 CFR Part 60, Subpart Kb | No changing attributes. |
| 04TFX027 | STORAGE TANKS/VESSELS | N/A | 61FF-2 | 40 CFR Part 61, Subpart FF | No changing attributes. |
| 04TFX031 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 04TFX506 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 04TFX508 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|----------------------------------|---|--------------------------|---------------|--|---|
| 04VNT007 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 04VNT007 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 04VNT009 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-6 | 30 TAC Chapter 115, Vent Gas Controls | Combined 24-Hour VOC Weight = Combined VOC weight is greater than 100 pounds (45.4 kg)., VOC Concentration = VOC concentration is greater than or equal to 30,000 ppmv., Alternate Control Requirement = Alternate control is not used., Control Device Type = Smokeless flare |
| 04VNT009 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-7 | 30 TAC Chapter 115, Vent Gas Controls | Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2., Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source., Combined 24-Hour |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|----------------------------------|---|--------------------------|---------------|--|---|
| | | | | | VOC Weight = Combined VOC weight is less than or equal to 100 pounds (45.4 kg)., VOC Concentration/Emission Rate @ Max Operating Conditions = The VOC concentration or emission rate is less than the applicable exemption limit at maximum actual operating conditions and the alternate recordkeeping requirements of 30 TAC § 115.126(4) are being selected. |
| 04VNT010 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-1 | 30 TAC Chapter 115, Vent Gas Controls | Combined 24-Hour VOC Weight = Combined VOC weight is greater than 100 pounds (45.4 kg)., VOC Concentration = VOC concentration is greater than or equal to 30,000 ppmv., Alternate Control Requirement = Alternate control is not used., Control Device Type = Smokeless flare |
| 04VNT010 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-2 | 30 TAC Chapter 115, Vent Gas Controls | Combined 24-Hour VOC Weight = Combined VOC weight is less than or equal to 100 pounds (45.4 kg). |
| 04VNT013 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|----------------------------------|---|--------------------------|---------------|--|-------------------------|
| 04VNT013 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 08SMP018 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 08TNK010 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 08TNK010 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 08TNK011 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 08TNK011 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 10LRC074 | LOADING/UNLOADING OPERATIONS | N/A | R5211-2 | 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 |
|----------------------------------|---|--------------------------|---------------|--|-------------------------|
| 10LRC074 | LOADING/UNLOADING OPERATIONS | N/A | 63G-1 | 40 CFR Part 63, Subpart G | No changing attributes. |
| 11LTR067A | LOADING/UNLOADING OPERATIONS | N/A | R5211-1 | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| 11LTR067A | LOADING/UNLOADING OPERATIONS | N/A | 63G-0001 | 40 CFR Part 63, Subpart G | No changing attributes. |
| 11LTR078A | LOADING/UNLOADING OPERATIONS | N/A | R5211-1 | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| 11PRCo63 | TREATMENT PROCESS | N/A | 61FF-1 | 40 CFR Part 61, Subpart FF | No changing attributes. |
| 11PRCo63PV | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-6 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 11PRCo66 | VOLATILE ORGANIC COMPOUND WATER SEPARATORS | N/A | R5131B1 | 30 TAC Chapter 115, Water Separation | No changing attributes. |
| 11PRCo66 | VOLATILE ORGANIC COMPOUND WATER SEPARATORS | N/A | 61FF-3 | 40 CFR Part 61, Subpart FF | No changing attributes. |
| 11SMPo81 | STORAGE TANKS/VESSELS | N/A | 61FF-1 | 40 CFR Part 61, Subpart FF | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|----------------------------------|--|--------------------------|---------------|--|-------------------------|
| 11TFX018 | STORAGE TANKS/VESSELS | N/A | 61FF-1 | 40 CFR Part 61, Subpart FF | No changing attributes. |
| 11TFX019 | STORAGE TANKS/VESSELS | N/A | 61FF-1 | 40 CFR Part 61, Subpart FF | No changing attributes. |
| 11TFX049 | STORAGE TANKS/VESSELS | N/A | R5112-7 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| 11TFX049 | STORAGE TANKS/VESSELS | N/A | 61FF-1 | 40 CFR Part 61, Subpart FF | No changing attributes. |
| 11TFX067 | STORAGE TANKS/VESSELS | N/A | R5112-8 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| 11TFX067 | STORAGE TANKS/VESSELS | N/A | 61FF-4 | 40 CFR Part 61, Subpart FF | No changing attributes. |
| 11TFX078 | STORAGE TANKS/VESSELS | N/A | 61FF-4 | 40 CFR Part 61, Subpart FF | No changing attributes. |
| 11TFX082 | STORAGE TANKS/VESSELS | N/A | R5112-0002 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| 11TFX082 | STORAGE TANKS/VESSELS | N/A | 63KB-0001 | 40 CFR Part 60, Subpart Kb | No changing attributes. |
| 11TFX082 | VOLATILE ORGANIC COMPOUND WATER SEPARATORS | N/A | 61FF-0001 | 40 CFR Part 61, Subpart FF | No changing attributes. |
| 11TFX082 | VOLATILE ORGANIC COMPOUND WATER SEPARATORS | N/A | 63G-0001 | 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 |
|----------------------------------|---|--------------------------|---------------|--|-------------------------|
| 11TFX083 | STORAGE TANKS/VESSELS | N/A | R5112-0003 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| 11TFX083 | STORAGE TANKS/VESSELS | N/A | 61FF-0002 | 40 CFR Part 61, Subpart FF | No changing attributes. |
| 11TFX083 | STORAGE TANKS/VESSELS | N/A | 63G-0002 | 40 CFR Part 63, Subpart G | No changing attributes. |
| 11TFXTMP | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 13ENG007 | SRIC ENGINES | N/A | 63ZZZZ-7 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| 13ENG00C | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1113 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 13ENG00C | SRIC ENGINES | N/A | 63ZZZZ-8 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| 13ENG00GA | SRIC ENGINES | N/A | 63ZZZZ-8 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| 13ENG00H | SRIC ENGINES | N/A | 60IIII-1 | 40 CFR Part 60, Subpart IIII | No changing attributes. |
| 13ENG00H | SRIC ENGINES | N/A | 63ZZZZ-9 | 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 |
|----------------------------------|---|--------------------------|---------------|--|-------------------------|
| 13ENG00J | SRIC ENGINES | N/A | 60III-1 | 40 CFR Part 60, Subpart III | No changing attributes. |
| 13ENG00J | SRIC ENGINES | N/A | 63ZZZZ-9 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| 13ENG00K | SRIC ENGINES | N/A | 63ZZZZ-2 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| 16DSD001 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-4 | 40 CFR Part 63, Subpart FFFF | No changing attributes. |
| 16STK001 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1112 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 16STK001 | PROCESS HEATERS/FURNACES | N/A | 63DDDDD | 40 CFR Part 63, Subpart DDDDD | No changing attributes. |
| 16TFX005 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 16TFX006 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|----------------------------------|---|---|---------------|--|-------------------------|
| 16TFX521 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 16TFX522 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 16VNT002 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 16VNT004 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| 16VNT004 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| GRPo4DIS001 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | 04DIS502, 04DIS503, 04DIS504, 04DIS505, 04DIS507, 04DIS508 | R5121-2 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|----------------------------------|---|--|---------------|--|-------------------------|
| GRP04LD002 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | 04LDR020B, 04LDR022C, 04LDR022D, 04LDR025B, 04LDR028B, 04LDR033D, 04LDR036B, 04LDR037B | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| GRP04TK002 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | 04TFX020, 04TFX021, 04TFX023A, 04TFX023B, 04TFX023C, 04TFX023D, 04TFX025, 04TFX034A, 04TFX034B | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| GRP04TK004 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | 04TFX033A, 04TFX033B, 04TFX033C, 04TFX033D, 04TFX033E | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| GRP04TK005 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | 04TFX028, 04TFX029, 10TFX035B, 10TFX035C, 10TFX035D | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|----------------------------------|---|--|---------------|--|-------------------------|
| GRPo8CT002 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | 08CLT004, 08CLT005 | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| GRPo8RX003 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | 08RXN006, 08RXN007, 08RXN008, 08RXN009 | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| GRPo8TK001 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | 08CLF012, 08CLF013, 08TFX001, 08TFX002, 08TFX016 | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| GRP13CAD | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | 13CAD001, 13CAD002 | R1111 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| GRP13CAD | CLOSED VENT SYSTEM AND CONTROL DEVICE | 13CAD001, 13CAD002 | 61FF-1 | 40 CFR Part 61, Subpart FF | No changing attributes. |
| GRP13ENG01 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | 13ENG00B, 13ENG00D, 13ENG00E, 13ENG00F, 13ENG00G | R1112 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|----------------------------------|---|--|---------------|--|-------------------------|
| GRP13ENG01 | SRIC ENGINES | 13ENG00B, 13ENG00D, 13ENG00E, 13ENG00F, 13ENG00G | 63ZZZZ-2 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| GRP13ENG02 | SRIC ENGINES | 13ENG00L, 13ENG00N | 60IIII-2 | 40 CFR Part 60, Subpart IIII | No changing attributes. |
| GRP13ENG02 | SRIC ENGINES | 13ENG00L, 13ENG00N | 63ZZZZ-3 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| GRP13ENG03 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | 13ENG001, 13ENG002 | R1112 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| GRP13ENG03 | SRIC ENGINES | 13ENG001, 13ENG002 | 63ZZZZ-4 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| GRP13ENG04 | SRIC ENGINES | 13ENG010, 13ENG011 | 60JJJJ-2 | 40 CFR Part 60, Subpart JJJJ | No changing attributes. |
| GRP13ENG04 | SRIC ENGINES | 13ENG010, 13ENG011 | 63ZZZZ-5 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| GRP13ENG05 | SRIC ENGINES | 13ENG008, 13ENG009 | 63ZZZZ-6 | 40 CFR Part 63, Subpart ZZZZ | 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) |
|---------------------------|-------------------------|---------------|----------------|--|---|--|--|---|---|
| 04CWA035 | EU | 63FFFF-6 | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2490(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 |
| 04DGR001 | EU | R5412 | VOC | 30 TAC Chapter 115, Degreasing Processes | § 115.412(1) [G]§ 115.412(1)(A) § 115.412(1)(B) § 115.412(1)(C) § 115.412(1)(D) § 115.412(1)(E) [G]§ 115.412(1)(F) | Cold solvent cleaning. 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). | [G]§ 115.415(1) § 115.415(3) | None | None |
| 04DIS501 | EP | R1111-0001 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(B) | Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|---|---|---|--|
| 04DIS501 | EP | R5112-0006 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(b) § 115.122(b) § 115.122(b)(2) | In Nueces and Victoria Counties, any process vent containing one or more VOC or classes of VOC specified in §115.121 (b)(1)-(3), shall be controlled properly in accordance with §115.122(b). | [G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2) | § 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2) | None |
| 04DIS501 | EP | 60NNN-0001 | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.662(b) § 60.18 | Each affected facility shall combust the emissions in a flare that meets the requirements of § 60.18. | § 60.663(b) § 60.663(b)(1) § 60.663(b)(2) § 60.664(a) § 60.664(d) [G]§ 60.664(e) | § 60.663(b)(2) § 60.665(b) § 60.665(b)(3) § 60.665(d) § 60.665(f) | § 60.665(a) § 60.665(b) § 60.665(b)(3) § 60.665(k) § 60.665(l) § 60.665(l)(2) § 60.665(l)(4) |
| 04DIS501 | EP | 63FFFF-0001 | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(i) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.997(b)(1) § 63.997(c)(3) | For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare. | [G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(a)(3) § 63.983(a)(3)(i) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.987(c) § 63.997(b) § 63.997(b)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii) | § 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(a)(3)(i) § 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(c)(1) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5) § 63.999(c)(2)(ii) | § 63.2450(f)(2)(ii) § 63.2450(q) § 63.997(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|---|--|--|---|---|
| 04DIS506 | EP | 63FFFF-2 | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(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 |
| 04DIS510 | EP | R1111-0002 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(B) | Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|---|--|--|--|
| 04DIS510 | EP | R5112-0007 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |
| 04DIS510 | EP | 60NNN-0002 | 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) |
| 04DIS510 | EP | 63FFFF-0002 | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(b) § 63.2455(b)(1) § 63.2455(b)(2) § 63.2455(b)(3) | For each continuous process vent, you must either designate the vent as a Group 1 continuous process vent or determine the total resource effectiveness (TRE) index value as specified in §63.115(d), except as specified in paragraphs (b)(1)-(3) of this section. | § 63.115(d) [G]§ 63.115(d)(1) § 63.115(d)(2) § 63.115(d)(2)(i) [G]§ 63.115(d)(2)(ii) § 63.115(d)(2)(iii) § 63.115(d)(2)(iv) § 63.115(d)(3)(i) § 63.115(d)(3)(ii) | None | None |
| 04DIS550 | EP | R5121-6 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(b) § 115.122(b) § 115.122(b)(2) | In Nueces and Victoria Counties, any process vent containing one or more VOC or classes of VOC specified in §115.121 (b)(1)-(3), shall be controlled properly in accordance with §115.122(b). | [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) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|--|---|---|
| 04DIS550 | EP | 63FFFF-3 | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(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 |
| 04DIS551 | EP | R5121-5 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |
| 04DIS551 | EP | 63FFFF-5 | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(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 |
| 04DIS552 | EP | R5121-5 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from § | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|--|---|--|--|
| | | | | | | 115.121(b). | | | |
| o4DPT001PV | EP | R5121-6 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(b) § 115.122(b) § 115.122(b)(2) | In Nueces and Victoria Counties, any process vent containing one or more VOC or classes of VOC specified in §115.121 (b)(1)-(3), shall be controlled properly in accordance with §115.122(b). | [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 |
| o4FLR032 | EU | R5111-1 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(4)(A) | Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b). | § 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii) | § 111.111(a)(4)(A)(ii) | None |
| o4FLR032 | 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 |
| o4FLR032 | 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 60 of this chapter shall be used. | § 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i) | None | None |
| o4FUG | EU | 63FFFF-2 | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2480(a) The permit holder shall comply with | The permit holder shall comply with the applicable requirements of 40 CFR | The permit holder shall comply with the applicable | The permit holder shall comply with the applicable | The permit holder shall comply with the applicable reporting |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|--|--|
| | | | | | the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF | Part 63, Subpart FFFF | monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF | recordkeeping requirements of 40 CFR Part 63, Subpart FFFF | requirements of 40 CFR Part 63, Subpart FFFF |
| 04LBA006A | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |
| 04LRC006 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the | 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) |
|---------------------------|-------------------------|---------------|-------------|--|---|--|--|--|---|
| | | | | | | opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | | | |
| o4LRC006 | EU | R5211-1 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(b)(2) § 115.212(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i) | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division except as specified. | § 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(B) | None |
| o4LTR018 | EU | R5211-1 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(b)(2) § 115.212(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i) | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division except as specified. | § 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(B) | None |
| o4LTR018 | EU | R5211-2 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(b)(3)(A) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i) | Plants, excluding gasoline bulk plants, which load <20,000 gallons of VOC into transport vessels per day with a true vapor pressure of 1.5 psia or greater are exempt from this division, except for the specified requirements. | § 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(B) § 115.216(3)(D) | None |
| o4MONPWW | EU | 63FFFF-1 | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2485(a) The permit holder shall comply with the applicable | 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 | The permit holder shall comply with the applicable recordkeeping | The permit holder shall comply with the applicable reporting requirements of 40 CFR |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|--|---|---|
| | | | | | limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF | | testing requirements of 40 CFR Part 63, Subpart FFFF | requirements of 40 CFR Part 63, Subpart FFFF | Part 63, Subpart FFFF |
| o4PRC | EU | 63FFFF-8 | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2485(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 |
| o4RSY600 | EP | R5121-3 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |
| o4SEP001 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|---|---|--|---|
| | | | | | | capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | | | |
| o4SEPool1 | EU | R5131B2 | VOC | 30 TAC Chapter 115, Water Separation | § 115.137(b)(3) | Any separator which separates materials having a true vapor pressure < 1.5 psia (10.3 kPa) obtained from any equipment is exempt from §115.132(b). | [G]§ 115.135(b) § 115.136(b)(1) § 115.136(b)(3) § 115.136(b)(4) | § 115.136(b)(1) § 115.136(b)(3) § 115.136(b)(4) | None |
| o4TFXo26 | EU | R5112-0004 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(b)(1) § 115.116(b)(2) § 60.18 | Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a). | [G]§ 115.117 | § 115.118(b)(4) § 115.118(b)(5) | None |
| o4TFXo26 | EU | 60KB-0003 | VOC | 40 CFR Part 60, Subpart Kb | [G]§ 60.112b(a)(3) § 60.18 | Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii). | § 60.113b(d) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary | § 60.115b § 60.115b(d)(2) § 60.116b(a) § 60.116b(b) | § 60.115b § 60.115b(d)(1) § 60.115b(d)(3) |
| o4TFXo27 | EU | 61FF-2 | BENZENE | 40 CFR Part 61, Subpart FF | § 61.343(a)(1) § 60.18 § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) | The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. | § 60.18(f)(2) § 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(a)(1)(ii) § 61.349(e) § 61.349(f) | § 61.349(a)(1)(ii) § 61.354(c) § 61.354(c)(3) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(g) | § 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|---|--|
| | | | | | § 61.349(a)(1)(i) § 61.349(a)(1)(ii) § 61.349(a)(1)(ii)(B) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(c) § 61.349(f) § 61.349(g) | | § 61.354(c) § 61.354(c)(3) § 61.354(f)(1) [G]§ 61.355(h) | § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(3)(i) § 61.356(j)(7) | |
| 04TFX031 | EP | R5121 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |
| 04TFX506 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|-------------------------------------|--|--|
| o4TFX508 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |
| o4VNT007 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|--|---|
| 04VNT007 | EP | R5121 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |
| 04VNT009 | EP | R5121-6 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(b) § 115.122(b) § 115.122(b)(2) | In Nueces and Victoria Counties, any process vent containing one or more VOC or classes of VOC specified in §115.121 (b)(1)-(3), shall be controlled properly in accordance with §115.122(b). | [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 |
| 04VNT009 | EP | R5121-7 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |
| 04VNT010 | EP | R5121-1 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(b) § 115.122(b) § 115.122(b)(2) § 60.18 | In Nueces and Victoria Counties, any process vent containing one or more VOC or classes of VOC specified in §115.121 (b)(1)-(3), shall be controlled properly in accordance with §115.122(b). | [G]§ 115.125 § 115.126(2) ** See Periodic Monitoring Summary | § 115.126 § 115.126(2) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|--|--|
| 04VNT010 | EP | R5121-2 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) § 115.126(3)(B) | § 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B) | None |
| 04VNT013 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |
| 04VNT013 | EP | R5121 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|-------------------------------------|--|--|
| o8SMPo18 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |
| o8TNK010 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|-------------------------------------|--|--|
| o8TNK010 | EP | R5121 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |
| o8TNK011 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |
| o8TNK011 | EP | R5121 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|--|---|--|--|--|---|
| 10LRC074 | EU | R5211-2 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i) | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division except as specified. | § 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(B) | None |
| 10LRC074 | EU | 63G-1 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.126(c) | For each Group 2 transfer rack, maintain records as required in § 63.130(f). No other provisions for transfer racks apply to the Group 2 transfer rack. | None | § 63.130(f) § 63.130(f)(1) § 63.130(f)(2) § 63.130(f)(3) § 63.130(f)(3)(i) § 63.130(f)(3)(ii) | § 63.152(c)(4)(iii) |
| 11LTR067A | EU | R5211-1 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(b)(3)(A) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i) | Plants, excluding gasoline bulk plants, which load <20,000 gallons of VOC into transport vessels per day with a true vapor pressure of 1.5 psia or greater are exempt from this division, except for the specified requirements. | § 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(B) § 115.216(3)(D) | None |
| 11LTR067A | EU | 63G-0001 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.126(c) | For each Group 2 transfer rack, maintain records as required in § 63.130(f). No other provisions for transfer racks apply to the Group 2 transfer rack. | None | § 63.130(f) § 63.130(f)(1) § 63.130(f)(2) § 63.130(f)(3) § 63.130(f)(3)(i) § 63.130(f)(3)(ii) | § 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) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|--|
| 11LTr078A | EU | R5211-1 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i) | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division except as specified. | § 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(B) | None |
| 11PRCo63 | PRO | 61FF-1 | BENZENE | 40 CFR Part 61, Subpart FF | § 61.348(a)(5) § 60.18 § 61.348(b)(1) [G]§ 61.348(b)(2) § 61.348(c) § 61.348(e)(1) § 61.348(c)(2) § 61.348(f) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g) | Process wastewater, product tank drawdown, or landfill leachate subject to §61.342(c)(1) aggregated together with other waste streams, as specified, shall operated in accordance with §61.348(b). | § 60.18(f)(2) [G]§ 61.348(b)(2) § 61.348(e)(1) § 61.348(f) § 61.349(a)(1)(i) § 61.349(f) § 61.354(a)(2) [G]§ 61.354(b) § 61.354(c) § 61.354(c)(3) [G]§ 61.355(h) | § 61.354(a)(2) § 61.354(c) § 61.354(c)(3) § 61.356(b)(6) § 61.356(e) § 61.356(e)(1) § 61.356(e)(2) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2) § 61.356(f)(2)(i) § 61.356(f)(2)(i)(D) § 61.356(h) [G]§ 61.356(i) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7) | § 61.357(d)(7) § 61.357(d)(7)(ii) § 61.357(d)(7)(iii) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F) |
| 11PRCo63PV | EP | R5121-6 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(b) § 115.122(b) § 115.122(b)(2) | In Nueces and Victoria Counties, any process vent containing one or more VOC or classes of VOC specified in §115.121 (b)(1)-(3), shall be controlled properly in accordance with §115.122(b). | [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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|---|---|--|---|
| 11PRCo66 | EU | R5131B1 | VOC | 30 TAC Chapter 115, Water Separation | § 115.132(b)(3) § 115.131(b) | VOC water separator compartments must be equipped with a vapor recovery system which satisfies the provisions of §115.131(b) of this title. | [G]§ 115.135(b) § 115.136(b)(2) § 115.136(b)(3) § 115.136(b)(4) | § 115.136(b)(2) § 115.136(b)(3) § 115.136(b)(4) | None |
| 11PRCo66 | EU | 61FF-3 | BENZENE | 40 CFR Part 61, Subpart FF | § 61.347(a)(1) § 60.18 § 61.347(a)(1)(i)(A) § 61.347(a)(1)(i)(B) § 61.347(b) § 61.347(c) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(c) § 61.349(f) § 61.349(g) | Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the oil-water separator to a control device. | § 60.18(f)(2) § 61.347(a)(1)(i)(A) § 61.347(b) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) § 61.354(e) [G]§ 61.355(h) | § 61.354(c) § 61.354(c)(3) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(f)(2)(i)(D) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7) | § 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F) |
| 11SMPo81 | EU | 61FF-1 | BENZENE | 40 CFR Part 61, Subpart FF | § 61.343(a)(1) § 60.18 § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g) | The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. | § 60.18(f)(2) § 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) [G]§ 61.355(h) | § 61.354(c) § 61.354(c)(3) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7) | § 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|---|--|--|---|
| 11TFX018 | EU | 61FF-1 | BENZENE | 40 CFR Part 61, Subpart FF | § 61.343(a)(1) § 60.18 § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g) | The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. | § 60.18(f)(2) § 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) [G]§ 61.355(h) | § 61.354(c) § 61.354(c)(3) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7) | § 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F) |
| 11TFX019 | EU | 61FF-1 | BENZENE | 40 CFR Part 61, Subpart FF | § 61.343(a)(1) § 60.18 § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g) | The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. | § 60.18(f)(2) § 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) [G]§ 61.355(h) | § 61.354(c) § 61.354(c)(3) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7) | § 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F) |
| 11TFX049 | EU | R5112-7 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(b)(1) § 115.116(b)(2) § 60.18 | Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a). | [G]§ 115.117 | § 115.118(b)(4) § 115.118(b)(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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|---|--|--|---|
| 11TFX049 | EU | 61FF-1 | BENZENE | 40 CFR Part 61, Subpart FF | § 61.343(a)(1) § 60.18 § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g) | The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. | § 60.18(f)(2) § 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) [G]§ 61.355(h) | § 61.354(c) § 61.354(c)(3) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7) | § 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F) |
| 11TFX067 | EU | R5112-8 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(b)(1) § 115.116(b)(2) § 60.18 | Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a). | [G]§ 115.117 | § 115.118(b)(4) § 115.118(b)(5) | None |
| 11TFX067 | EU | 61FF-4 | BENZENE | 40 CFR Part 61, Subpart FF | § 61.343(a)(1) § 60.18 § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g) | The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. | § 60.18(f)(2) § 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) [G]§ 61.355(h) | § 61.354(c) § 61.354(c)(3) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7) | § 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|---|---|--|---|
| 11TFX078 | EU | 61FF-4 | BENZENE | 40 CFR Part 61, Subpart FF | § 61.343(a)(1) § 60.18 § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g) | The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. | § 60.18(f)(2) § 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) [G]§ 61.355(h) | § 61.354(c) § 61.354(c)(3) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(7) | § 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F) |
| 11TFX082 | EU | R5112-0002 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(b)(1) § 115.116(b)(2) § 60.18 | Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a). | [G]§ 115.117 | § 115.118(b)(4) § 115.118(b)(5) | None |
| 11TFX082 | EU | 63KB-0001 | VOC | 40 CFR Part 60, Subpart Kb | [G]§ 60.112b(a)(3) § 60.18 | Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii). | § 60.113b(d) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary | § 60.115b § 60.115b(d)(2) § 60.116b(a) § 60.116b(b) | § 60.115b § 60.115b(d)(1) § 60.115b(d)(3) |
| 11TFX082 | EU | 61FF-0001 | BENZENE | 40 CFR Part 61, Subpart FF | § 61.347(a)(1) § 60.18 § 61.347(a)(1)(i)(A) § 61.347(a)(1)(i)(B) § 61.347(b) § 61.347(c) | Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the oil-water separator to a control | § 60.18(f)(2) § 61.347(a)(1)(i)(A) § 61.347(b) § 61.349(a)(1)(i) § 61.349(a)(1)(ii) § 61.349(e) | § 61.349(a)(1)(ii) § 61.354(c) § 61.354(c)(3) § 61.356(d) § 61.356(f) § 61.356(f)(1) | § 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|--|---|--|--|---|
| | | | | | § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(ii) § 61.349(a)(1)(ii)(B) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g) | device. | § 61.349(f) § 61.354(c) § 61.354(c)(3) § 61.354(f)(1) [G]§ 61.355(h) | § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(3)(i) § 61.356(j)(7) | |
| 11TFX082 | EU | 63G-0001 | 112(B) HAPS | 40 CFR Part 63, Subpart G | § 63.137(a)(1) § 63.11 § 63.132(a)(2)(i)(A) § 63.132(a)(2)(i)(B) [G]§ 63.132(f) § 63.137(b)(1)(ii) § 63.137(d) § 63.137(e)(3) § 63.137(f) § 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) | A fixed roof and a closed vent system that routes the organic hazardous air pollutants vapors vented from the oil-water separator to a control device and which meets §63.137(b). | [G]§ 63.137(e)(1) § 63.137(e)(2) § 63.137(e)(3) § 63.139(d)(3) § 63.139(e) § 63.143(a) § 63.143(e) § 63.143(e)(1) § 63.143(g) [G]§ 63.145(j) § 63.148(b)(1)(ii) § 63.148(b)(2)(iii) § 63.148(b)(3) [G]§ 63.148(c) § 63.148(f)(2) § 63.148(g) § 63.148(g)(2) § 63.148(h) § 63.148(h)(2) | § 63.145(a)(3) [G]§ 63.145(a)(4) § 63.147(b) § 63.147(b)(1) § 63.147(b)(2) § 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) § 63.148(i)(2) § 63.148(i)(3)(ii) [G]§ 63.148(i)(4) § 63.148(i)(5) § 63.148(i)(6) [G]§ 63.152(a) | § 63.146(b)(2) § 63.146(b)(5) § 63.146(b)(6) § 63.146(b)(7) [G]§ 63.146(b)(7)(i) § 63.146(c) § 63.146(e) § 63.146(e)(1) § 63.148(j) § 63.148(j)(1) § 63.148(j)(3) [G]§ 63.151(b) § 63.151(e) § 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(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) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|---|--|---|---|
| 11TFX083 | EU | R5112-0003 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(b)(1) § 115.116(b)(2) § 60.18 | Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a). | [G]§ 115.117 | § 115.118(b)(4) § 115.118(b)(5) | None |
| 11TFX083 | EU | 61FF-0002 | BENZENE | 40 CFR Part 61, Subpart FF | § 61.343(a)(1) § 60.18 § 61.343(a)(1)(i)(A) § 61.343(a)(1)(i)(B) § 61.343(c) § 61.343(d) § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(ii) § 61.349(a)(1)(ii)(B) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(b) § 61.349(e) § 61.349(f) § 61.349(g) | The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. | § 60.18(f)(2) § 61.343(a)(1)(i)(A) § 61.343(c) § 61.349(a)(1)(i) § 61.349(a)(1)(ii) § 61.349(e) § 61.349(f) § 61.354(c) § 61.354(c)(3) § 61.354(f)(1) [G]§ 61.355(h) | § 61.349(a)(1)(ii) § 61.354(c) § 61.354(c)(3) § 61.356(d) § 61.356(f) § 61.356(f)(1) § 61.356(g) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(2) § 61.356(j)(3) § 61.356(j)(3)(i) § 61.356(j)(7) | § 61.357(d)(7) § 61.357(d)(7)(iv) § 61.357(d)(7)(iv)(F) |
| 11TFX083 | EU | 63G-0002 | 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 use record keeping methods in §63.123(a). Not required to comply with §63.119 to §63.123. | 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) |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|---|--|-------------------------------------|--|---|
| 11TFX083 | EU | 63G-0002 | 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(b) § 63.151(e) § 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) |
| 11TFXTMP | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |
| 13ENG007 | EU | 63ZZZZ-7 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6590(c) | A new/reconstructed stationary RICE located at an area source, or located at a major source of HAP emissions and is a spark ignition (SI) 2SLB < 500 HP, SI 4 SLB < 250 HP, or 4SRB, compression | 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) |
|---------------------------|-------------------------|---------------|--------------|---------------------------------------|--|--|---|---|--|
| | | | | | | ignition (CI), emergency or limited use, or which combusts landfill or digester gas at > 10% of the gross heat input < 500 HP must meet the requirements of this part by meeting the requirements of 40 CFR Part 60, Subpart IIII, for CI engines or 40 CFR Part 60, Subpart JJJJ, for SI engines. | | | |
| 13ENG00C | EP | R1113 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) § 111.111(a)(1)(E) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period. | [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary | None | None |
| 13ENG00C | EU | 63ZZZZ-8 | §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(h) § 63.6625(i) § 63.6640(b) § 63.6640(f) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3) | For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c. | § 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii § 63.6640(b) | § 63.6625(e) § 63.6625(e)(2) § 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(e)(2) § 63.6655(f) § 63.6655(f)(1) § 63.6660(a) § 63.6660(b) § 63.6660(c) | § 63.6640(b) § 63.6640(e) § 63.6650(f) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------------------------|---------------------------------------|--|--|---|---|--|
| 13ENG00GA | EU | 63ZZZZ-8 | 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(h) § 63.6625(i) § 63.6640(b) § 63.6640(f) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3) | For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c. | § 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii § 63.6640(b) | § 63.6625(e) § 63.6625(e)(2) § 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(e)(2) § 63.6655(f) § 63.6655(f)(1) § 63.6660(a) § 63.6660(b) § 63.6660(c) | § 63.6640(b) § 63.6640(c) § 63.6650(f) |
| 13ENG00H | EU | 60III-1 | 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) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218 | Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with an NMHC+NO _x emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart. | § 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) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|---|-------------------------------------|--|--|
| 13ENG00H | EU | 60III-1 | PM | 40 CFR Part 60, Subpart IIII | § 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218 | Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart. | § 60.4209(a) | § 60.4214(b) | [G]§ 60.4214(d) |
| 13ENG00H | EU | 63ZZZZ-9 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6590(c) | A new/reconstructed stationary RICE located at an area source, or located at a major source of HAP emissions and is a spark ignition (SI) 2SLB < 500 HP, SI 4 SLB < 250 HP, or 4SRB, compression ignition (CI), emergency or limited use, or which combusts landfill or digester gas at > 10% of the gross heat input < 500 HP must meet the requirements of this part by meeting the requirements of 40 CFR Part 60, Subpart IIII, for CI engines or 40 CFR Part 60, Subpart JJJJ, for SI engines. | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|--------------------------|---------------------------------------|--|--|-------------------------------------|--|--|
| 13ENG00J | EU | 60III-1 | NMHC and NO _x | 40 CFR Part 60, Subpart III | § 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 | Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with an NMHC+NO _x emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart. | § 60.4209(a) | § 60.4214(b) | [G]§ 60.4214(d) |
| 13ENG00J | EU | 60III-1 | PM | 40 CFR Part 60, Subpart III | § 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 | Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart. | § 60.4209(a) | § 60.4214(b) | [G]§ 60.4214(d) |
| 13ENG00J | EU | 63ZZZ-9 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6590(c) | A new/reconstructed stationary RICE located at an area source, or located at a major source of HAP emissions and is a spark ignition (SI) 2SLB < 500 HP, SI 4 SLB < 250 HP, or 4SRB, compression ignition (CI), emergency or | 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) |
|---------------------------|-------------------------|---------------|--------------|---------------------------------------|--|--|---|---|---|
| | | | | | | limited use, or which combusts landfill or digester gas at > 10% of the gross heat input < 500 HP must meet the requirements of this part by meeting the requirements of 40 CFR Part 60, Subpart IIII, for CI engines or 40 CFR Part 60, Subpart JJJJ, for SI engines. | | | |
| 13ENGOok | EU | 63ZZZZ-2 | §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(h) § 63.6625(i) § 63.6640(b) § 63.6640(f) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3) | For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c. | § 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii § 63.6640(b) | § 63.6625(e)(2) § 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(e)(2) § 63.6655(f) § 63.6655(f)(1) § 63.6660(a) § 63.6660(b) § 63.6660(c) | § 63.6640(b) § 63.6640(e) § 63.6650(f) |
| 16DSD001 | EP | 63FFFF-4 | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2460(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 |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|---|--|---|--|--|
| 16STK001 | EP | R1112 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) § 111.111(a)(1)(E) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period. | [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary | None | None |
| 16STK001 | EU | 63DDDDD | 112(B) HAPS | 40 CFR Part 63, Subpart DDDDD | § 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD |
| 16TFX005 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|-------------------------------------|--|--|
| 16TFX006 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |
| 16TFX521 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|-------------------------------------|--|--|
| 16TFX522 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |
| 16VNT002 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|-------------------------------------|--|--|
| 16VNT004 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |
| 16VNT004 | EP | R5121 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(B) § 115.127(b)(2) | A vent gas stream with a concentration of the VOC or classes of compounds specified in § 115.121(b)(2)-(3) of this title < 30,000 ppmv is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |
| GRP04DIS001 | EP | R5121-2 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(b)(2)(A) § 115.127(b)(2) | A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2)-(3) < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from § 115.121(b). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|-------------------------------------|--|--|
| GRP04LD002 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |
| GRP04TK002 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|-------------------------------------|--|--|
| GRP04TK004 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |
| GRP04TK005 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|-------------------------------------|--|--|
| GRP08CT002 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |
| GRP08RX003 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|-------------------------------------|--|--|
| GRPo8TK001 | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |
| GRP13CAD | EP | R1111 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance. | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|--------------------------|---------------------------------------|--|---|---|---|--|
| GRP13CAD | CD | 61FF-1 | BENZENE | 40 CFR Part 61, Subpart FF | § 61.349(a) § 61.349(a)(1)(i) § 61.349(a)(1)(iii) § 61.349(a)(1)(iv) § 61.349(a)(2)(ii) § 61.349(b) § 61.349(c) § 61.349(f) § 61.349(g) | For each closed-vent system and control device used to comply with §§61.343-61.348, properly design, install, operate, and maintain the closed-vent system and control device. | § 61.349(a)(1)(i) § 61.349(e) § 61.349(f) § 61.354(d) [G]§ 61.355(h) | § 61.356(f) § 61.356(f)(1) § 61.356(f)(2) § 61.356(f)(2)(i) § 61.356(f)(2)(i)(G) § 61.356(h) § 61.356(j) § 61.356(j)(1) § 61.356(j)(10) § 61.356(j)(2) § 61.356(j)(3) | None |
| GRP13ENG01 | EP | R1112 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) § 111.111(a)(1)(E) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period. | [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary | None | None |
| GRP13ENG01 | EU | 63ZZZZ-2 | §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(h) § 63.6625(i) § 63.6640(b) § 63.6640(f) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3) | For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c. | § 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii § 63.6640(b) | § 63.6625(e) § 63.6625(e)(2) § 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(e)(2) § 63.6655(f) § 63.6655(f)(1) § 63.6660(a) § 63.6660(b) § 63.6660(c) | § 63.6640(b) § 63.6640(e) § 63.6650(f) |
| GRP13ENG02 | EU | 60III-2 | NMHC and NO _x | 40 CFR Part 60, Subpart III | § 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) | Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to | § 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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|-------------------------------------|---|---|
| | | | | | § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218 | 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with an NMHC+NOx emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart. | | | |
| GRP13ENG02 | EU | 60III-2 | PM | 40 CFR Part 60, Subpart III | § 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218 | Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart. | § 60.4209(a) | § 60.4214(b) | [G]§ 60.4214(d) |
| GRP13ENG02 | EU | 63ZZZ-3 | EXEMPT | 40 CFR Part 63, Subpart ZZZZ | § 63.6590(b)(1) § 63.6595(c) § 63.6605(b) § 63.6640(f) § 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 paragraph (b)(1)(i) through (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(c) § 63.6645(f) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|---|---|---|--|
| GRP13ENG03 | EP | R1112 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A) § 111.111(a)(1)(E) | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period. | [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary | None | None |
| GRP13ENG03 | EU | 63ZZZZ-4 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(b) § 63.6640(f) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3) | For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c. | § 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b) | § 63.6625(e) § 63.6625(e)(2) § 63.6625(i) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(e)(2) § 63.6655(f) § 63.6655(f)(1) § 63.6660(a) § 63.6660(b) § 63.6660(c) | § 63.6640(b) § 63.6640(e) § 63.6650(f) |
| GRP13ENG04 | EU | 60JJJJ-2 | CO | 40 CFR Part 60, Subpart JJJJ | § 60.4233(d)-Table1 § 60.4234 § 60.4243(b) § 60.4243(b)(2) § 60.4243(b)(2)(i) [G]§ 60.4243(d) § 60.4243(g) § 60.4246 | Owners and operators of stationary emergency SI ICE with a maximum engine power greater than 25 HP and less than 130 HP and were manufactured on or after 01/01/2009 must comply with a CO emission limit of 387 g/HP-hr, as listed in Table 1 to this subpart. | § 60.4237(c) § 60.4243(b)(2)(i) § 60.4243(f) § 60.4244(a) § 60.4244(b) § 60.4244(c) § 60.4244(e) | § 60.4243(b)(2)(i) § 60.4245(a)(1) § 60.4245(a)(2) § 60.4245(a)(4) § 60.4245(b) | § 60.4245(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) |
|---------------------------|-------------------------|---------------|------------------------|---------------------------------------|---|---|---|---|--|
| GRP13ENGo4 | EU | 60JJJJ-2 | HC and NO _x | 40 CFR Part 60, Subpart JJJJ | § 60.4233(d)-Table1 § 60.4234 § 60.4243(b) § 60.4243(b)(2) § 60.4243(b)(2)(i) [G]§ 60.4243(d) § 60.4243(g) § 60.4246 | Owners and operators of stationary emergency SI ICE with a maximum engine power greater than 25 HP and less than 130 HP and were manufactured on or after 01/01/2009 must comply with an HC+NO _x emission limit of 10 g/HP-hr, as listed in Table 1 to this subpart. | § 60.4237(c) § 60.4243(b)(2)(i) § 60.4243(f) § 60.4244(a) § 60.4244(b) § 60.4244(c) § 60.4244(d) | § 60.4243(b)(2)(i) § 60.4245(a)(1) § 60.4245(a)(2) § 60.4245(a)(4) § 60.4245(b) | § 60.4245(d) |
| GRP13ENGo4 | EU | 63ZZZZ-5 | §112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6602-Table 2c.6 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(b) § 63.6640(f) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(2)(ii) § 63.6640(f)(2)(iii) § 63.6640(f)(3) | For each existing emergency stationary SI RICE and black start stationary SI RICE with a site rating less than or equal to 500 HP, located at a major source, you must comply with the requirements as specified in Table 2c.6.a-c. | § 63.6625(f) § 63.6625(j) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii § 63.6640(b) | § 63.6625(e) § 63.6625(e)(2) § 63.6625(j) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(e)(2) § 63.6655(f) § 63.6655(f)(1) § 63.6660(a) § 63.6660(b) § 63.6660(c) | § 63.6640(b) § 63.6640(e) § 63.6650(f) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|--|---|---|--|
| GRP13ENG04 | EU | 63ZZZZ-5 | 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 |
| GRP13ENG05 | EU | 63ZZZZ-6 | §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(h) § 63.6625(i) § 63.6640(b) § 63.6640(f) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(2)(ii) § 63.6640(f)(2)(iii) § 63.6640(f)(3) | For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c. | § 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii § 63.6640(b) | § 63.6625(e) § 63.6625(e)(2) § 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(e)(2) § 63.6655(f) § 63.6655(f)(1) § 63.6660(a) § 63.6660(b) § 63.6660(c) | § 63.6640(b) § 63.6640(e) § 63.6650(f) |

Additional Monitoring Requirements

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Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------|
| ID No.: 04DIS550 | |
| Control Device ID No.: 04FLR032 | Control Device Type: Flare |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-6 |
| Pollutant: VOC | Main Standard: § 115.121(b) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Once per hour | |
| Averaging Period: N/A | |
| Deviation Limit: Lack of a pilot flame, except for periods during which 04DIS550 is shut down. | |
| <p>Periodic Monitoring Text: Measure and record the presence of the pilot flame, using a thermocouple or any other equivalent device, or maintain records of alarm events and duration of alarm events, using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame. Maintain, calibrate and operate the monitoring instrumentation in accordance with manufacturer's specifications or other written procedures. Any monitoring data which indicates the lack of a pilot flame shall be considered and reported as a deviation, except for periods during which 04DIS550 is shut down. Records shall be maintained such that a minimum of one data point is recorded for each hour of flare operation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------|
| ID No.: 04DPT001PV | |
| Control Device ID No.: 04FLR032 | Control Device Type: Flare |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-6 |
| Pollutant: VOC | Main Standard: § 115.121(b) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Once per hour | |
| Averaging Period: N/A | |
| Deviation Limit: Lack of a pilot flame, except for periods during which 04DPT001PV is shut down. | |
| <p>Periodic Monitoring Text: Measure and record the presence of the pilot flame, using a thermocouple or any other equivalent device, or maintain records of alarm events and duration of alarm events, using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame. Maintain, calibrate and operate the monitoring instrumentation in accordance with manufacturer's specifications or other written procedures. Any monitoring data which indicates the lack of a pilot flame shall be considered and reported as a deviation, except for periods during which 04DPT001PV is shut down. Records shall be maintained such that a minimum of one data point is recorded for each hour of flare operation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: 04TFX026 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 40 CFR Part 60, Subpart Kb | SOP Index No.: 60KB-0003 |
| Pollutant: VOC | Main Standard: [G]§ 60.112b(a)(3) |
| Monitoring Information | |
| Indicator: VOC Concentration | |
| Minimum Frequency: Once per year | |
| Averaging Period: n/a | |
| Deviation Limit: Failure to record fugitive emissions from the vapor collection system in accordance with 40 CFR Part 60, Appendix A, Method 21. | |
| 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.: 04TFX026 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 40 CFR Part 60, Subpart Kb | SOP Index No.: 60KB-0003 |
| Pollutant: VOC | Main Standard: [G]§ 60.112b(a)(3) |
| Monitoring Information | |
| Indicator: Visual Inspection | |
| Minimum Frequency: Once per year | |
| Averaging Period: n/a | |
| Deviation Limit: Failure to repair defects. | |
| Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------|
| ID No.: 04VNT009 | |
| Control Device ID No.: 04FLR032 | Control Device Type: Flare |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-6 |
| Pollutant: VOC | Main Standard: § 115.121(b) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Once per hour | |
| Averaging Period: n/a | |
| Deviation Limit: Lack of a pilot flame, except for periods during which 04VNT009 is shut down. | |
| <p>Periodic Monitoring Text: Measure and record the presence of the pilot flame, using a thermocouple or any other equivalent device, or maintain records of alarm events and duration of alarm events, using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame. Maintain, calibrate and operate the monitoring instrumentation in accordance with manufacturer's specifications or other written procedures. Any monitoring data which indicates the lack of a pilot flame shall be considered and reported as a deviation, except for periods during which 04VNT009 is shut down. Records shall be maintained such that a minimum of one data point is recorded for each hour of flare operation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|-------------------------------|
| ID No.: 04VNT010 | |
| Control Device ID No.: Flare | Control Device Type: 04VNT032 |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-1 |
| Pollutant: VOC | Main Standard: § 115.121(b) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Once per hour | |
| Averaging Period: N/A | |
| Deviation Limit: Lack of a pilot flame, except for periods during which 04VNT010 is shut down or not venting to flare 04FLR032 | |
| <p>Periodic Monitoring Text: Measure and record the presence of the pilot flame, using a thermocouple or any other equivalent device, or maintain records of alarm events and duration of alarm events, using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame. Maintain, calibrate and operate the monitoring instrumentation in accordance with manufacturer's specifications or other written procedures. Any monitoring data which indicates the lack of a pilot flame shall be considered and reported as a deviation, except for periods during which 04VNT010 is shut down or not venting to flare 04FLR032. Records shall be maintained such that a minimum of one data point is recorded for each hour of flare operation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------|
| ID No.: 11PRCo63PV | |
| Control Device ID No.: 04FLR032 | Control Device Type: Flare |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-6 |
| Pollutant: VOC | Main Standard: § 115.121(b) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Once per hour | |
| Averaging Period: N/A | |
| Deviation Limit: Lack of a pilot flame, except for periods during which 11PRCo63PV is shut down. | |
| <p>Periodic Monitoring Text: Measure and record the presence of the pilot flame, using a thermocouple or any other equivalent device, or maintain records of alarm events and duration of alarm events, using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame. Maintain, calibrate and operate the monitoring instrumentation in accordance with manufacturer's specifications or other written procedures. Any monitoring data which indicates the lack of a pilot flame shall be considered and reported as a deviation, except for periods during which 11PRCo63PV is shut down. Records shall be maintained such that a minimum of one data point is recorded for each hour of flare operation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: 11TFX082 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 40 CFR Part 60, Subpart Kb | SOP Index No.: 63KB-0001 |
| Pollutant: VOC | Main Standard: [G]§ 60.112b(a)(3) |
| Monitoring Information | |
| Indicator: VOC Concentration | |
| Minimum Frequency: Once per year | |
| Averaging Period: n/a | |
| Deviation Limit: Failure to record fugitive emissions from the vapor collection system in accordance with 40 CFR Part 60, Appendix A, Method 21. | |
| 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.: 11TFX082 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 40 CFR Part 60, Subpart Kb | SOP Index No.: 63KB-0001 |
| Pollutant: VOC | Main Standard: [G]§ 60.112b(a)(3) |
| Monitoring Information | |
| Indicator: Visual Inspection | |
| Minimum Frequency: Once per year | |
| Averaging Period: n/a | |
| Deviation Limit: Failure to repair defects. | |
| Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|-----------------------------------|
| ID No.: 13ENGoOC | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: R1113 |
| Pollutant: OPACITY | Main Standard: § 111.111(a)(1)(A) |
| Monitoring Information | |
| Indicator: Visible Emissions | |
| Minimum Frequency: once per quarter | |
| Averaging Period: n/a | |
| Deviation Limit: Opacity exceeding 30% averaged over a six-minute period. | |
| <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|-----------------------------------|
| ID No.: 16STK001 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: R1112 |
| Pollutant: OPACITY | Main Standard: § 111.111(a)(1)(A) |
| Monitoring Information | |
| Indicator: Visible Emissions | |
| Minimum Frequency: once per quarter | |
| Averaging Period: n/a | |
| Deviation Limit: Visible emissions shall not exceed 30% averaged over a six-minute period. | |
| <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|-----------------------------------|
| ID No.: GRP13ENGO1 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: R1112 |
| Pollutant: OPACITY | Main Standard: § 111.111(a)(1)(A) |
| Monitoring Information | |
| Indicator: Visible Emissions | |
| Minimum Frequency: once per quarter | |
| Averaging Period: n/a | |
| Deviation Limit: Visible emissions shall not exceed 30% averaged over a six-minute period. | |
| <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p> | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|-----------------------------------|
| ID No.: GRP13ENG03 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: R1112 |
| Pollutant: OPACITY | Main Standard: § 111.111(a)(1)(A) |
| Monitoring Information | |
| Indicator: Visible Emissions | |
| Minimum Frequency: once per quarter | |
| Averaging Period: n/a | |
| Deviation Limit: Visible emissions shall not exceed 30% averaged over a six-minute period. | |
| <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p> | |

Permit Shield

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Permit Shield

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

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|-----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| 04DGR001 | N/A | 40 CFR Part 63, Subpart T | The solvent degreaser does not use solvents containing methylene chloride, trichloroethylene, perchloroethylene, 1,1,1-trichlorethane, carbon tetrachloride, or chloroform in a concentration > 5%. |
| 04DIS501 | N/A | 40 CFR Part 60, Subpart NNN | Exempt since distillation column was constructed prior to 12/30/83. |
| 04DIS501 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 04DIS550 | N/A | 40 CFR Part 60, Subpart NNN | No listed chemicals present. |
| 04DIS550 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 04DIS551 | N/A | 40 CFR Part 60, Subpart NNN | No listed chemicals present. |
| 04DIS551 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 04DIS552 | N/A | 40 CFR Part 60, Subpart NNN | No listed chemicals present. |

Permit Shield

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

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|-----------------------------|--|
| ID No. | Group/Inclusive Units | | |
| 04DIS552 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 04DPT001 | N/A | 40 CFR Part 61, Subpart FF | The flow-weighted annual average benzene concentration for the waste stream is less than 10 ppmw. |
| 04DPT001 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 04DPT001PV | N/A | 40 CFR Part 60, Subpart NNN | No listed chemicals present. |
| 04DPT001PV | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 04RSY600 | N/A | 40 CFR Part 60, Subpart RRR | Exempt since reactor was constructed prior to 6/29/90. |
| 04RSY600 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |

Permit Shield

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

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|--|
| ID No. | Group/Inclusive Units | | |
| 04SEPO01 | N/A | 40 CFR Part 61, Subpart FF | No listed chemicals present; Material stored is not a benzene waste. |
| 04SEPO01 | N/A | 40 CFR Part 63, Subpart DD | No off-site waste is processed by this separator. |
| 04SEPO01 | N/A | 40 CFR Part 63, Subpart VV | Subpart VV is not referenced by another subpart of 40 CFR 60, 61, or 63 for this separator. |
| 04TFX026 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 04TFX027 | N/A | 40 CFR Part 60, Subpart Kb | Exempt since non-petroleum liquid storage tank was constructed prior to 7/23/84. |
| 04TFX027 | N/A | 40 CFR Part 63, Subpart DD | No off-site waste is stored in this tank. |
| 04TFX027 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 04TFX031 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |

Permit Shield

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

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|-------------------------------------|--|
| ID No. | Group/Inclusive Units | | |
| 04TFX044 | N/A | 40 CFR Part 60, Subpart Kb | True vapor pressure is less than 0.5 psia |
| 04TFX044 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 04TFX504 | N/A | 40 CFR Part 60, Subpart Kb | Capacity less than 75 m ³ (19,800 gallons). |
| 04TFX504 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 04TFX506 | N/A | 40 CFR Part 60, Subpart Kb | Exempt since non-petroleum liquid storage tank was constructed prior to 7/23/84. |
| 04TFX506 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 04TFX508 | N/A | 30 TAC Chapter 115, Storage of VOCs | Capacity less than 1000 gallons. |
| 04TFX508 | N/A | 40 CFR Part 60, Subpart Kb | Capacity less than 75 m ³ (19,800 gallons). |
| 04TFX508 | N/A | 40 CFR Part 61, Subpart FF | No listed chemicals present; Material stored is not a benzene waste. |

Permit Shield

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

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|--|
| ID No. | Group/Inclusive Units | | |
| 04TFX508 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 04VNT007 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 04VNT009 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 04VNT010 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 08SMP018 | N/A | 40 CFR Part 60, Subpart Kb | Capacity less than 75 m ³ (19,800 gallons). |
| 08SMP018 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |

Permit Shield

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

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|--|
| ID No. | Group/Inclusive Units | | |
| 11LTR067A | N/A | 40 CFR Part 61, Subpart BB | The loading of benzene-laden waste covered under 40 CFR 61, Subpart FF is exempt. |
| 11LTR078A | N/A | 40 CFR Part 61, Subpart BB | The loading of benzene-laden waste covered under 40 CFR 61, Subpart FF is exempt. |
| 11LTR078A | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 11PRCo63 | N/A | 40 CFR Part 63, Subpart DD | No off-site waste is processed by this unit. |
| 11PRCo66 | N/A | 40 CFR Part 63, Subpart DD | No off-site waste is processed by this separator. |
| 11PRCo66 | N/A | 40 CFR Part 63, Subpart VV | Subpart VV is not referenced by another subpart of 40 CFR 60, 61, or 63 for this separator. |
| 11SMPO81 | N/A | 40 CFR Part 60, Subpart Kb | Capacity less than 75 m ³ (19,800 gallons). |
| 11TFX018 | N/A | 40 CFR Part 60, Subpart Kb | Exempt since non-petroleum liquid storage tank was constructed prior to 7/23/84. |

Permit Shield

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

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| 11TFX019 | N/A | 40 CFR Part 60, Subpart Kb | Exempt since non-petroleum liquid storage tank was constructed prior to 7/23/84. |
| 11TFX049 | N/A | 40 CFR Part 60, Subpart Kb | Exempt since non-petroleum liquid storage tank was constructed prior to 7/23/84. |
| 11TFX050 | N/A | 40 CFR Part 60, Subpart Kb | Exempt since non-petroleum liquid storage tank was constructed prior to 7/23/84. |
| 11TFX050 | N/A | 40 CFR Part 61, Subpart FF | The flow-weighted annual average benzene concentration for the waste stream is less than 10 ppmw. |
| 11TFX067 | N/A | 40 CFR Part 60, Subpart Kb | Capacity less than 75 m3 (19,800 gallons). |
| 11TFX078 | N/A | 40 CFR Part 60, Subpart Kb | True vapor pressure is less than 0.5 psia |
| 11TFX078 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3) |
| 11TFXTMP | N/A | 40 CFR Part 60, Subpart Kb | Capacity less than 75 m3 (19,800 gallons). |
| 11TFXTMP | N/A | 40 CFR Part 61, Subpart FF | Exempt since this tank does not contain a benzene waste. |

Permit Shield

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

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|-----------------------------|--|
| ID No. | Group/Inclusive Units | | |
| 11TFXTMP | N/A | 40 CFR Part 61, Subpart Y | Exempt since this is not a benzene storage tank. |
| 11TFXTMP | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 16STK001 | N/A | 40 CFR Part 60, Subpart NNN | No listed chemicals present. |
| 16STK001 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 16TFX521 | N/A | 40 CFR Part 60, Subpart Kb | Exempt since non-petroleum liquid storage tank was constructed prior to 7/23/84. |
| 16TFX521 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| 16TFX522 | N/A | 40 CFR Part 60, Subpart Kb | Capacity less than 75 m3 (19,800 gallons). |
| 16TFX522 | N/A | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |

Permit Shield

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

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|--|-----------------------------|--|
| ID No. | Group/Inclusive Units | | |
| GRPo4DIS001 | 04DIS502, 04DIS503, 04DIS504, 04DIS505, 04DIS507, 04DIS508 | 40 CFR Part 60, Subpart NNN | No listed chemicals present. |
| GRPo4DIS001 | 04DIS502, 04DIS503, 04DIS504, 04DIS505, 04DIS507, 04DIS508 | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| GRPo4TK001 | 04TFX022A, 04TFX022B | 40 CFR Part 60, Subpart Kb | Exempt since non-petroleum liquid storage tank was constructed prior to 7/23/84. |
| GRPo4TK001 | 04TFX022A, 04TFX022B | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| GRPo4TK002 | 04TFX020, 04TFX021, 04TFX023A, 04TFX023C, 04TFX023D, 04TFX025, 04TFX034A, 04TFX034B | 40 CFR Part 60, Subpart Kb | Exempt since non-petroleum liquid storage tank was constructed prior to 7/23/84. |
| GRPo4TK002 | 04TFX020, 04TFX021, 04TFX023A, 04TFX023C, 04TFX023D, 04TFX025, 04TFX034A, 04TFX034B | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |

Permit Shield

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

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|---|----------------------------|--|
| ID No. | Group/Inclusive Units | | |
| GRPo4TK003 | 04TFX030A, 04TFX030B | 40 CFR Part 60, Subpart Kb | Exempt since non-petroleum liquid storage tank was constructed prior to 7/23/84. |
| GRPo4TK003 | 04TFX030A, 04TFX030B | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| GRPo4TK004 | 04TFX033A, 04TFX033B, 04TFX033C, 04TFX033D, 04TFX033E | 40 CFR Part 60, Subpart Kb | Exempt since non-petroleum liquid storage tank was constructed prior to 7/23/84. |
| GRPo4TK004 | 04TFX033A, 04TFX033B, 04TFX033C, 04TFX033D, 04TFX033E | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| GRPo4TK005 | 04TFX028, 04TFX029, 10TFX035B, 10TFX035C, 10TFX035D | 40 CFR Part 60, Subpart Kb | Exempt since non-petroleum liquid storage tank was constructed prior to 7/23/84. |
| GRPo4TK005 | 04TFX028, 04TFX029, 10TFX035B, 10TFX035C, 10TFX035D | 40 CFR Part 61, Subpart FF | Tanks in this group do not contain a benzene waste. |
| GRPo4TK005 | 04TFX028, 04TFX029, 10TFX035B, 10TFX035C, 10TFX035D | 40 CFR Part 61, Subpart Y | The tanks in this group do not store benzene. |

Permit Shield

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

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|---|-------------------------------------|--|
| ID No. | Group/Inclusive Units | | |
| GRPo4TK005 | 04TFX028, 04TFX029, 10TFX035B, 10TFX035C, 10TFX035D | 40 CFR Part 63, Subpart F | Vessels storing organic liquids that contain organic hazardous air pollutants only as impurities. |
| GRPo4TK006 | 11TFX051, 11TFX052 | 40 CFR Part 60, Subpart Kb | Exempt since non-petroleum liquid storage tank was constructed prior to 7/23/84. |
| GRPo4TK006 | 11TFX051, 11TFX052 | 40 CFR Part 61, Subpart FF | Flow-weighted annual average benzene concentration for the waste stream from the tanks in this group is less than 10 ppmw. |
| GRPo4TK006 | 11TFX051, 11TFX052 | 40 CFR Part 61, Subpart Y | The tanks in this group are not benzene storage tanks. |
| GRPo4TK006 | 11TFX051, 11TFX052 | 40 CFR Part 63, Subpart F | Vessels storing organic liquids that contain organic hazardous air pollutants only as impurities. |
| GRPo8CT002 | 08CLT004, 08CLT005 | 40 CFR Part 63, Subpart Q | No chromium compounds used after 9/8/94. |
| GRPo8RX003 | 08RXN006, 08RXN007, 08RXN008, 08RXN009 | 30 TAC Chapter 115, Storage of VOCs | Not used to store VOCs. |
| GRPo8RX003 | 08RXN006, 08RXN007, 08RXN008, 08RXN009 | 40 CFR Part 60, Subpart RRR | Exempt since biotreatment is not a SOCOMI process. |

Permit Shield

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

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|--|----------------------------|--|
| ID No. | Group/Inclusive Units | | |
| GRPo8RX003 | o8RXN006, o8RXN007, o8RXN008, o8RXN009 | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |
| GRPo8TK001 | o8CLF012, o8CLF013, o8TFX001, o8TFX002, o8TFX016 | 40 CFR Part 60, Subpart Kb | True vapor pressure is less than 0.5 psia. |
| GRPo8TK001 | o8CLF012, o8CLF013, o8TFX001, o8TFX002, o8TFX016 | 40 CFR Part 63, Subpart G | The equipment is associated with a process unit that does not meet the criteria for a chemical manufacturing unit specified in 63.100(b)(1)-(3). |

New Source Review Authorization References

New Source Review Authorization References 105

New Source Review Authorization References by Emission Unit..... 106

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.: PSDTX1416 | Issuance Date: 03/11/2016 |
| 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.: 23271 | Issuance Date: 03/11/2016 |
| Authorization No.: 31376 | Issuance Date: 12/13/2010 |
| Permits By Rule (30 TAC Chapter 106) for the Application Area | |
| Number: 106.261 | Version No./Date: 03/14/1997 |
| Number: 106.261 | Version No./Date: 12/24/1998 |
| Number: 106.261 | Version No./Date: 09/04/2000 |
| Number: 106.261 | Version No./Date: 11/01/2003 |
| Number: 106.262 | Version No./Date: 03/14/1997 |
| Number: 106.262 | Version No./Date: 12/24/1998 |
| Number: 106.262 | Version No./Date: 09/04/2000 |
| Number: 106.262 | Version No./Date: 11/01/2003 |
| Number: 106.263 | Version No./Date: 11/01/2001 |
| Number: 106.371 | Version No./Date: 09/04/2000 |
| Number: 106.373 | Version No./Date: 09/04/2000 |
| Number: 106.454 | Version No./Date: 11/01/2001 |
| Number: 106.472 | Version No./Date: 03/14/1997 |
| Number: 106.472 | Version No./Date: 09/04/2000 |
| Number: 106.511 | Version No./Date: 09/04/2000 |
| Number: 106.512 | Version No./Date: 06/13/2001 |
| Number: 106.532 | Version No./Date: 03/14/1997 |
| Number: 106.532 | 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 |
|---------------------------|---|---|
| 04CWA035 | COOLING WATER BASIN | 23271, 106.371/09/04/2000, PSDTX1416 |
| 04DGR001 | DIAMINE DEGREASER | 106.454/11/01/2001 |
| 04DIS501 | FORESHOTS COLUMN | 23271, PSDTX1416 |
| 04DIS502 | PURGE COLUMN | 23271, PSDTX1416 |
| 04DIS503 | PURGE ENRICHER COLUMN | 23271, PSDTX1416 |
| 04DIS504 | PARALLEL PURGE COLUMN | 23271, PSDTX1416 |
| 04DIS505 | PURGE CONCENTRATOR COLUMN | 23271, PSDTX1416 |
| 04DIS506 | REFINING-AMMONIA LOW PRESSURE ABSORBER SCRUBBER | 23271, PSDTX1416 |
| 04DIS507 | REFINER COLUMN | 23271, PSDTX1416 |
| 04DIS508 | TAILS CONCENTRATOR COLUMN | 23271, PSDTX1416 |
| 04DIS510 | N112 COLUMN | 23271, PSDTX1416 |
| 04DIS550 | SP STRIPPER COLUMN | 23271, PSDTX1416 |
| 04DIS551 | SPECIALTY PRODUCTS COLUMN 1 | 23271, 106.261/11/01/2003, 106.262/11/01/2003, PSDTX1416 |
| 04DIS552 | SPECIALTY PRODUCTS COLUMN 2 | 23271, 106.261/11/01/2003, 106.262/11/01/2003, PSDTX1416 |
| 04DPT001 | PRETREATMENT COLUMN 1 | 23271, PSDTX1416 |
| 04DPT001PV | PRETREATMENT COLUMN 1 VENT | 23271, PSDTX1416 |

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 |
|---------------------------|--------------------------------|--|
| 04FLR032 | DIAMINE FLARE | 23271, 106.261/11/01/2003, 106.262/11/01/2003, PSDTX1416 |
| 04FUG | FUGITIVES | 23271, PSDTX1416 |
| 04LBA006A | LOADING: BARGE | 23271, PSDTX1416 |
| 04LDR020B | DRUM LOADING OF DCH | 23271, PSDTX1416 |
| 04LDR022C | DRUM LOADING OF CRUDE HMI | 23271, PSDTX1416 |
| 04LDR022D | DRUM LOADING OF REFINED HMI | 23271, PSDTX1416 |
| 04LDR025B | DRUM LOADING OF CRUDE DCH | 23271, PSDTX1416 |
| 04LDR028B | DRUM LOADING OF REFINED HMD | 23271, PSDTX1416 |
| 04LDR033D | DRUM LOADING OF BHMT | 23271, PSDTX1416 |
| 04LDR036B | DRUM LOADING OF CRUDE MGN | 23271, PSDTX1416 |
| 04LDR037B | DRUM LOADING OF REFINED MGN | 23271, PSDTX1416 |
| 04LRC006 | RAILCAR LOADING | 23271, 106.261/11/01/2003, 106.262/11/01/2003, PSDTX1416 |
| 04LTR018 | TRUCK LOADING SPOT | 23271, 106.261/11/01/2003, 106.262/11/01/2003, 106.472/03/14/1997, 106.472/09/04/2000, PSDTX1416 |
| 04MONPWW | HMD UNIT PROCESS WASTEWATER | 23271, PSDTX1416 |
| 04PRC | HMD PROCESS | 23271, PSDTX1416 |

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 |
|---------------------------|--------------------------------|--|
| 04RSY600 | SYNTHESIS CONVERTERS | 23271, PSDTX1416 |
| 04SEPO01 | OIL AND SAND SEPARATOR | 23271, 106.532/09/04/2000, PSDTX1416 |
| 04TFX020 | NORTH DCH TANK | 23271, 106.261/11/01/2003, 106.262/11/01/2003, 106.472/03/14/1997, PSDTX1416 |
| 04TFX021 | SOUTH DCH TANK | 23271, 106.472/03/14/1997, PSDTX1416 |
| 04TFX022A | REFINED HMI STORAGE TANK | 23271, 106.261/03/14/1997, 106.261/11/01/2003, 106.262/03/14/1997, 106.262/11/01/2003, PSDTX1416 |
| 04TFX022B | REFINED DCH STORAGE TANK | 23271, 106.261/03/14/1997, 106.261/11/01/2003, 106.262/03/14/1997, 106.262/11/01/2003, 106.472/09/04/2000, PSDTX1416 |
| 04TFX023A | A HMD BLEND TANK | 23271, PSDTX1416 |
| 04TFX023B | B HMD BLEND TANK | 23271, PSDTX1416 |
| 04TFX023C | C HMD BLEND TANK | 23271, PSDTX1416 |
| 04TFX023D | D HMD BLEND TANK | 23271, PSDTX1416 |
| 04TFX025 | F CRUDE DCH TANK | 23271, 106.472/03/14/1997, PSDTX1416 |
| 04TFX026 | E HMD REWORK TANK | 23271, 106.261/11/01/2003, 106.262/11/01/2003, 106.472/03/14/1997, PSDTX1416 |

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 |
|---------------------------|--------------------------------|--|
| 04TFX027 | WASTE ORGANIC TANK | 23271, 106.261/12/24/1998, 106.262/12/24/1998, PSDTX1416 |
| 04TFX028 | A REFINED HMD RECYCLE TANK | 23271, PSDTX1416 |
| 04TFX029 | B REFINED HMD RECYCLE TANK | 23271, PSDTX1416 |
| 04TFX030A | A CRUDE HMD RECYCLE TANK | 23271, 106.261/11/01/2003, 106.262/11/01/2003, PSDTX1416 |
| 04TFX030B | B CRUDE HMD RECYCLE TANK | 23271, PSDTX1416 |
| 04TFX031 | RECYCLE WATER TANK | 23271, PSDTX1416 |
| 04TFX033A | TAILS CONCENTRATOR TANK | 23271, PSDTX1416 |
| 04TFX033B | N112 TANK | 23271, 106.472/09/04/2000, PSDTX1416 |
| 04TFX033C | HMI STORAGE TANK | 23271, PSDTX1416 |
| 04TFX033D | BHMT STORAGE TANK | 23271, PSDTX1416 |
| 04TFX033E | CRUDE DCH TANK | 23271, PSDTX1416 |
| 04TFX034A | BIG A CRUDE HMD TANK | 23271, PSDTX1416 |
| 04TFX034B | BIG B CRUDE HMD TANK | 23271, PSDTX1416 |
| 04TFX044 | HMD PRETREATER TANK | 23271, PSDTX1416 |
| 04TFX504 | SPECIALTY PRODUCTS SUMP | 23271, PSDTX1416 |
| 04TFX506 | AQUEOUS WASTE TANK | 23271, 106.472/03/14/1997, PSDTX1416 |

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 |
|---------------------------|--------------------------------|---------------------------------|
| 04TFX508 | PERMEATE TANK | 23271, PSDTX1416 |
| 04VNT007 | SYNTHESIS PROCESS VENT | 23271, PSDTX1416 |
| 04VNT009 | REFINING PROCESS VENT | 23271, PSDTX1416 |
| 04VNT010 | FORESHOTS COLUMN VS VENT | 23271, PSDTX1416 |
| 04VNT013 | REFINING JET CONDENSER VENT | 23271, PSDTX1416 |
| 08CLF012 | CLARIFIER NO 1 TANK | 31376 |
| 08CLF013 | CLARIFIER NO 1 TANK | 31376 |
| 08CLT004 | COOLING TOWER NO. 1 INFLUENT | 31376 |
| 08CLT005 | COOLING TOWER NO. 2 INFLUENT | 31376 |
| 08RXN006 | ANAEROBIC BIOTREATER A | 31376 |
| 08RXN007 | ANAEROBIC BIOTREATER B | 31376 |
| 08RXN008 | AEROBIC BIOTREATER A | 31376 |
| 08RXN009 | AEROBIC BIOTREATER B | 31376 |
| 08SMP018 | DEWATERING BLD SUMP | 31376 |
| 08TFX001 | ACIDS EQUALIZATION TANK | 31376 |
| 08TFX002 | ADN EQUALIZATION TANK | 31376, 106.472/09/04/2000 |
| 08TFX016 | SLUDGE STORAGE TANK | 31376 |
| 08TNK010 | HEAD TANK 1 | 31376 |

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 |
|---------------------------|---|--|
| 08TNK011 | HEAD TANK 2 | 31376 |
| 10LRC074 | LOW BOILER WASTE RAILCAR LOADING | 23271, PSDTX1416 |
| 10TFX035B | 2PN MULTIPUR 1B TANK | 23271, PSDTX1416 |
| 10TFX035C | 2PN MULTIPUR 1C TANK | 23271, PSDTX1416 |
| 10TFX035D | 2PN MULTIPUR 1B TANK | 23271, PSDTX1416 |
| 11LTR067A | P/S FLASHER ORGANICS LOADING | 23271, 106.261/11/01/2003, 106.262/11/01/2003, PSDTX1416 |
| 11LTR078A | SELF LEACHATE TANK TRUCK LOADING | 106.472/09/04/2000, PSDTX1416 |
| 11PRC063 | BZ FLASHER/LEACHATE CONCENTRATOR | 23271, 106.261/11/01/2003, 106.262/11/01/2003, PSDTX1416 |
| 11PRC063PV | BZ FLASHER/LEACHATE CONCENTRATOR PROCESS VENT | 23271, 106.261/11/01/2003, 106.262/11/01/2003, PSDTX1416 |
| 11PRC066 | NORTH ORGANICS TANK (DECANTER) | 23271, PSDTX1416 |
| 11SMP081 | MISC. SLURRIES SUMP | 23271, PSDTX1416 |
| 11TFX018 | EAST NITRILE AWST | 23271, 106.261/11/01/2003, 106.262/11/01/2003, PSDTX1416 |
| 11TFX019 | WEST NITRILE AWST | 23271, 106.261/11/01/2003, 106.262/11/01/2003, PSDTX1416 |
| 11TFX049 | EAST BZ RECEIVER | 23271, PSDTX1416 |

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 |
|---------------------------|------------------------------------|--|
| 11TFX050 | WEST BZ RECEIVER | 23271, 106.261/11/01/2003, 106.262/11/01/2003, PSDTX1416 |
| 11TFX051 | RPF EAST FD TK | 23271, PSDTX1416 |
| 11TFX052 | RPF WEST FD TK | 23271, PSDTX1416 |
| 11TFX067 | SOUTH ORGANIC TANK | 23271, PSDTX1416 |
| 11TFX078 | SELF LEACHATE TANK | 23271, PSDTX1416 |
| 11TFX082 | ORGANIC COLLECTION TANK | 23271, PSDTX1416 |
| 11TFX083 | WET ORGANICS TANK | 23271, PSDTX1416 |
| 11TFXTMP | BOOSTER PUMP DIESEL TANK | 106.472/09/04/2000 |
| 13CAD001 | SELF KNOCKOUT POT CARBON CANISTERS | 106.261/09/04/2000 |
| 13CAD002 | SELF CELL 4/5 CARBON CANISTERS | 106.261/09/04/2000 |
| 13ENG001 | WATER PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG002 | WATER PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG007 | EMERGENCY GENERATOR ENGINE | 106.511/09/04/2000 |
| 13ENG008 | EMERGENCY GENERATOR ENGINE | 106.511/09/04/2000 |
| 13ENG009 | EMERGENCY GENERATOR ENGINE | 106.511/09/04/2000 |
| 13ENG00B | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG00C | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |

New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|-------------------------------------|--|
| 13ENG00D | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG00E | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG00F | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG00GA | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG00G | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG00H | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG00J | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG00K | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG00L | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG00M | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG00N | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG00O | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG00P | FIRE PUMP ENGINE | 106.263/11/01/2001, 106.511/09/04/2000 |
| 13ENG010 | EMERGENCY GENERATOR ENGINE | 106.511/09/04/2000 |
| 13ENG011 | EMERGENCY GENERATOR ENGINE | 106.511/09/04/2000 |
| 16DSD001 | HYDROGEN PLANT DESULFURIZATION DRUM | 23271, PSDTX1416 |
| 16STK001 | HYDROGEN REFORMER STACK | 23271, PSDTX1416 |
| 16TFX005 | MDEA TANK | 23271, PSDTX1416 |

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 |
|----------------------------------|---------------------------------------|--|
| 16TFX006 | MDEA TANK | 23271, PSDTX1416 |
| 16TFX521 | DILUTE AMINE HUT | 106.261/11/01/2003, 106.472/03/14/1997 |
| 16TFX522 | AMINE STORAGE TANK | 106.261/11/01/2003, 106.472/03/14/1997 |
| 16VNT002 | AMINE STRIPPER VENT | 23271, PSDTX1416 |
| 16VNT004 | HYDROGEN PLANT VENT | 23271, PSDTX1416 |

Appendix A

Acronym List 116

Acronym List

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

| | | |
|------------------|-------|---|
| ACFM | ..... | actual cubic feet per minute |
| AMOC | ..... | alternate means of control |
| ARP | ..... | Acid Rain Program |
| ASTM | ..... | American Society of Testing and Materials |
| B/PA | ..... | Beaumont/Port Arthur (nonattainment area) |
| CAM | ..... | Compliance Assurance Monitoring |
| CD | ..... | control device |
| COMS | ..... | continuous opacity monitoring system |
| CVS | ..... | closed-vent system |
| D/FW | ..... | Dallas/Fort Worth (nonattainment area) |
| DR | ..... | Designated Representative |
| ELP | ..... | El Paso (nonattainment area) |
| EP | ..... | emission point |
| EPA | ..... | U.S. Environmental Protection Agency |
| EU | ..... | emission unit |
| FCAA Amendments | ..... | Federal Clean Air Act Amendments |
| FOP | ..... | federal operating permit |
| GF | ..... | grandfathered |
| gr/100 scf | ..... | grains per 100 standard cubic feet |
| HAP | ..... | hazardous air pollutant |
| H/G/B | ..... | Houston/Galveston/Brazoria (nonattainment area) |
| H ₂ S | ..... | hydrogen sulfide |
| ID No. | ..... | identification number |
| lb/hr | ..... | pound(s) per hour |
| MMBtu/hr | ..... | Million British thermal units per hour |
| MRRT | ..... | monitoring, recordkeeping, reporting, and testing |
| NA | ..... | nonattainment |
| N/A | ..... | not applicable |
| NADB | ..... | National Allowance Data Base |
| NO _x | ..... | nitrogen oxides |
| NSPS | ..... | New Source Performance Standard (40 CFR Part 60) |
| NSR | ..... | New Source Review |
| ORIS | ..... | Office of Regulatory Information Systems |
| Pb | ..... | lead |
| PBR | ..... | Permit By Rule |
| PM | ..... | particulate matter |
| ppmv | ..... | parts per million by volume |
| PSD | ..... | prevention of significant deterioration |
| RO | ..... | Responsible Official |
| SO ₂ | ..... | sulfur dioxide |
| TCEQ | ..... | Texas Commission on Environmental Quality |
| TSP | ..... | total suspended particulate |
| TVP | ..... | true vapor pressure |
| U.S.C. | ..... | United States Code |
| VOC | ..... | volatile organic compound |

Appendix B

Major NSR Summary Table..... 118

Major NSR Summary Table

| Permit Number: 23271, PSDTX1416 | | | Issuance Date: 03/11/2016 | | | | |
|---------------------------------|-------------------------|---|---------------------------|---------|-------------------------------------|----------------------------|------------------------|
| 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) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| 16STK-001 | Hydrogen Reformer Stack | CO | 14.40 | 63.07 | 25 | 5 7 25 | |
| | | NH ₃ | 0.55 | 2.40 | 25 | 5 7 25 | |
| | | NO _x | 10.80 | 47.30 | 25 | 5 7 25 | |
| | | PM/PM ₁₀ / PM _{2.5} | 1.30 | 5.71 | 6 25 | 5 6 7 25 | |
| | | SO ₂ | 0.03 | 0.11 | 8 25 | 5 7 8 25 | |
| | | VOC | 0.94 | 4.13 | 4 25 | 4 5 7 25 | 4 |
| 16VNT-002 | Amine Stripper Vent | CO | 7.17 | 29.88 | 25 | 25 | |
| 04FUG | Fugitives (5) | Boric Acid | <0.01 | <0.01 | 14 15 | 14 15 | 14 |
| | | CO | <0.01 | <0.01 | 14 15 | 14 15 | 14 |
| | | NH ₃ | 0.37 | 1.61 | 14 15 17 | 14 15 17 | 14 |
| | | VOC | 9.79 | 42.82 | 4 14 15 | 4 14 15 | 4 14 |

Major NSR Summary Table

| Permit Number: 23271, PSDTX1416 | | | Issuance Date: 03/11/2016 | | | | |
|---|---|--------------------------|---------------------------|---------|-------------------------------------|----------------------------|------------------------|
| 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) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| 04LRC-006 | Railcar Loading Scrubber Emissions | VOC | 2.88 | 0.04 | 11 | 11 12 | |
| 04LRC-006F | Railcar Loading Uncaptured Emissions | VOC | 2.88 | 0.04 | 13 | 12 13 | |
| 04VNT-013 | Refining System Vent | NH ₃ | 1.14 | 1.06 | | 7 | |
| | | VOC | 0.35 | 1.55 | | 7 | |
| 04LTR-018 | Truck Loading Scrubber Emissions | NH ₃ | 0.84 | 0.02 | 11 | 11 12 | |
| | | VOC | 5.46 | 0.16 | 4 11 | 4 11 12 | 4 |
| 04LTR-018F | Truck Loading Uncaptured Emissions | NH ₃ | 0.22 | 0.01 | 13 | 12 13 | |
| | | VOC | 1.29 | 0.03 | 13 | 12 13 | |
| 04TVS-023 | HMD Blend Tanks A-D Breather Pots | VOC | 0.22 | 0.08 | 21 | 7 21 | |
| 04TFX-025 | "F" Crude DCH Tank Breather Pot | NH ₃ | 0.01 | 0.01 | 21 | 21 | |
| | | VOC | 11.56 | 2.86 | 21 | 21 | |
| 04TFX-028 | "A" Refined Tank Breather Pot | VOC | 0.10 | 0.01 | 21 | 7 21 | |
| 04TFX-029 | "B" Refined Tank Breather Pot | VOC | 0.10 | 0.01 | 21 | 7 21 | |
| Combined emissions from EPNs 04TFX-028 and 04TFX-029 shall not exceed | | VOC | 0.16 | 0.02 | 21 | 7 21 | |
| 04FLR-032 | Diamine Flare (HMD Flare) (Normal Operation Only) | CO | 74.29 | 69.56 | 24 | 7 24 | 24 |
| | | H ₂ S | 0.19 | 0.01 | 24 | 7 24 | 24 |
| | | NH ₃ | 10.20 | 16.86 | 3 24 | 3 7 24 | 3 24 |

Major NSR Summary Table

| Permit Number: 23271, PSDTX1416 | | | Issuance Date: 03/11/2016 | | | | |
|---------------------------------|--|--------------------------|---------------------------|---------|-------------------------------------|----------------------------|------------------------|
| 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) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| | | NO _x | 25.08 | 27.29 | 24 | 7 24 | 24 |
| | | SO ₂ | 17.62 | 0.11 | 8 24 | 7 8 24 | 24 |
| | | VOC | 13.81 | 6.75 | 3 10 19 24 | 3 7 10 19 24 | 3 24 |
| 04FLR-032 | Diamine Flare (HMD Flare) (Maintenance, Startup, and Shutdown [MSS] Activities Only) | CO | 12.04 | 0.32 | | 26 | |
| | | NH ₃ | 0.60 | 0.01 | 28 | 26 28 | |
| | | NO _x | 5.00 | 0.13 | | 26 | |
| | | VOC | 24.35 | 0.66 | 28 | 26 28 | |
| 04TVS-033 | Co-Product Storage Tanks A - E Breather Pot | VOC | 13.16 | 0.71 | 21 | 21 | |
| 04TVS-034 | Crude HMD Tanks A and B | NH ₃ | 3.53 | 16.62 | 21 23 | 7 21 23 | 23 |
| | | VOC | 1.18 | 2.29 | 21 23 | 7 21 23 | 23 |
| 04CWA-035 | Cooling Basin (5) | NH ₃ | 0.34 | 1.49 | 22 | 22 | |
| | | VOC | 1.79 | 7.86 | 4 22 | 4 22 | 4 22 |
| 04TFX-508 | HMD Permeate Tank | NH ₃ | 0.16 | 0.09 | | 7 | |
| | | VOC | 0.01 | 0.01 | | 7 | |
| 04TFX-506 | Aqueous Waste Tank | NH ₃ | 0.97 | 0.01 | | 7 | |
| | | VOC | 0.01 | 0.01 | 3 | 3 7 | 3 |

Major NSR Summary Table

| Permit Number: 23271, PSDTX1416 | | | Issuance Date: 03/11/2016 | | | | |
|---------------------------------|------------------------------------|--------------------------|---------------------------|---------|-------------------------------------|----------------------------|------------------------|
| 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) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| 04LBA-006A | Barge Loading | VOC | 0.06 | 0.02 | 11 | 11 12 | |
| 04LBA-006F | Barge Loading Uncaptured Emissions | VOC | 0.06 | 0.02 | 13 | 12 13 | |
| 16TFX006 | MDEA Tank | VOC | 0.16 | 0.01 | | | |
| 16TFX005 | Dilute MDEA Tank | VOC | 0.13 | 0.01 | | | |
| 04LDR022C | Drum Loading of Crude HMI | NH ₃ | 0.11 | 0.01 | | | |
| | | VOC | 0.10 | 0.01 | | | |
| 04DGR001 | HMD Maintenance Degreaser Area | VOC | 0.36 | 0.33 | | | |
| 16VNT-004 | Hydrogen Plant Vent (MSS) | CO | 466.88 | 10.55 | | 26 | |
| | | VOC | 106.54 | 3.41 | 27 28 | 26 28 | |
| 04VNT-007 | Synthesis Process Vent | NH ₃ | 0.02 | 0.01 | | 7 | |
| | | VOC | 0.01 | 0.01 | 27 | 7 | |
| 04VNT-007 | Synthesis Process Vent (MSS) | NH ₃ | 6.75 | 0.01 | 28 | 26 28 | |
| | | VOC | 0.02 | 0.01 | 27 28 | 26 28 | |
| 04VNT-009 | Refining Process Vent (MSS) | NH ₃ | 0.38 | 0.01 | 28 | 26 28 | |
| | | VOC | 0.01 | 0.01 | 28 | 26 28 | |
| 04TANK-OPEN | Tank Depressure (MSS) | NH ₃ | 6.31 | 0.01 | 27 28 29 | 26 27 28 29 | |
| | | VOC | 2.23 | 0.02 | 27 28 29 | 26 27 28 29 | |

Major NSR Summary Table

| Permit Number: 23271, PSDTX1416 | | | Issuance Date: 03/11/2016 | | | | |
|---------------------------------|--------------------------------------|---|---------------------------|---------|-------------------------------------|----------------------------|------------------------|
| 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) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| 04FUG-MSS | Fugitive Emissions (MSS) (5) | NH ₃ | 8.80 | 0.47 | 28 29 | 26 28 29 | |
| | | PM/PM ₁₀ / PM _{2.5} | 0.08 | <0.01 | 29 | 26 29 | |
| | | VOC | 27.51 | 4.68 | 28 29 30 | 26 28 29 30 | |
| | | HCL | 0.10 | 0.43 | 28 29 | 26 28 29 | |
| 04SWT-002 | Flushing N112 Unloading Line to Sump | VOC | 0.01 | 0.01 | | | |
| 11LTR067AF | WOTL Uncaptured Emissions | VOC | 0.22 | 0.01 | | | |
| 04LDR-022D | Drum Loading Refined HMI | VOC | 0.09 | 0.01 | | | |
| 04LDR-036B | Drum Loading Crude MGN | VOC | 0.01 | 0.01 | | | |
| 04LDR-037B | Drum Loading Refined MGN | VOC | 0.01 | 0.01 | | | |
| 04LDR-025B | Drum Loading Crude DCH | NH ₃ | 0.01 | 0.01 | | | |
| | | VOC | 0.07 | 0.01 | | | |
| 04LDR-020B | Drum Loading Refined DCH | VOC | 0.01 | 0.01 | | | |
| 04LDR-028B | Drum Loading Refined HMD | VOC | 0.02 | 0.01 | | 7 | |
| 04LDR-033D | Drum Loading BHMT | VOC | 0.02 | 0.01 | | | |
| 04SEP-001 | Oil/Sand Separator | NH ₃ | 0.36 | 0.11 | | | |
| | | VOC | 0.01 | 0.01 | | | |
| 11BAG311 | Wastewater Baghouse | PM/PM ₁₀ /PM _{2.5} | 0.04 | 0.17 | 9 | 9 | |
| 11BAGACID | Wastewater Baghouse | PM/PM ₁₀ /PM _{2.5} | 0.04 | 0.17 | 9 | 9 | |
| 11BAG311 & 11BAGACID | Wastewater Baghouses | VOC | 0.02 | 0.11 | 3 | 3 | 3 |
| 11BAGFLTR | Wastewater Baghouse | PM/PM ₁₀ /PM _{2.5} | 0.14 | 0.60 | 9 | 9 | |
| 04TFX022B | Refined DCH Tank | VOC | 0.71 | 0.10 | | | |
| 04TFXACID | Acid Cleaning Storage Tank | VOC | 0.01 | 0.01 | 28 | 26 28 | |

Major NSR Summary Table

| Permit Number: 23271, PSDTX1416 | | | Issuance Date: 03/11/2016 | | | | |
|---------------------------------|-----------------|--------------------------|---------------------------|---------|-------------------------------------|----------------------------|------------------------|
| 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) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| | | HCL | 0.03 | 0.01 | 28 | 26 28 | |

Footnotes:

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3)
 - CO - carbon monoxide
 - H₂S - hydrogen sulfide
 - NH₃ - ammonia
 - NO_x - total oxides of nitrogen
 - PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - SO₂ - sulfur dioxide
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - HCL - hydrochloric acid
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To

INVISTA S.a r.l.

*Authorizing the Construction and Operation of
Victoria Plant*

Located at Victoria, Victoria County, Texas

Latitude 28° 40' 41" Longitude -96° 57' 17"

Permits: 23271 and PSDTX1416

Amendment Date: March 11, 2016

Expiration Date: November 29, 2017

A handwritten signature in black ink, appearing to read "R. Q. A. Hyle".

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)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled “Emission Sources--Maximum Allowable Emission Rates.” [30 TAC § 116.115(b)(2)(F)] ¹
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to “air pollution” as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. ¹

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

Special Conditions

Permit Number 23271 and PSDTX1416

Emission Standards

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. **(11/07)**
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 one percent are not authorized by this permit unless authorized on the maximum allowable emission rates table (MAERT). Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration greater than 1 percent by weight are not consistent with good practice for minimizing emission with the exception of those devices listed in Attachment 2. **(11/07)**

Federal Applicability

3. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on National Emission Standards for Hazardous Air Pollutants (NESHAPS) promulgated in Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61), Subparts A, General Provisions; and FF, Benzene Waste Operations. **(11/07)**
4. These facilities shall comply with all applicable requirements of the EPA regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories (MACT) promulgated in 40 CFR Part 63: Subparts A, General Provisions; Subpart FFFF, National Emission Standard for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing; and Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters. **(11/07)**

Operational Practices

5. Nitrogen oxides (NO_x) emissions from the hydrogen reformer burners shall not exceed 0.060 pound of NO_x per MMBtu, higher heating value (HHV) basis. This emission factor does not apply to firing rates less than 130 MMBtu per hour, HHV basis. The natural gas fuel feed rate to the hydrogen reformer burners shall not exceed 180 MMBtu per hour, HHV basis. **(04/12)**
6. The Hydrogen Reformer Stack, Emission Point Number (EPN) 16STK-001 shall have no visible emissions exceeding 30 seconds in any six-minute period as determined using EPA Test Method 22. **(09/05)**

7. Production of hexamethylenediamine (HMD) shall not exceed the rate represented in the confidential section of the revised permit amendment application, dated June 16, 2014 during any 12-rolling month period. In order to ensure compliance, records shall be kept of the daily production rates and the cumulative production rate for the proceeding 12-rolling month period. These records shall be updated monthly. **(11/07)**
8. Fuel used in the Hydrogen Reformer (EPN 16STK-001) shall be limited to pipeline quality, sweet natural or liquid petroleum gas. Supplemental fuel used in the Diamine Flare (EPN 04FLR-032) shall be limited to pipeline quality, sweet natural gas or liquid petroleum gas. The natural gas shall be analyzed for total sulfur content at least once per year and shall not exceed 5.0 grains of total sulfur per 100 dry standard cubic feet. **(03/16)**

Baghouses

9. Particulate matter outlet grain loading shall not exceed 0.01 grain per dscf of air from any vent. There shall be no visible emissions exceeding 30 seconds in any six-minute period as determined using U.S. Environmental Protection Agency (EPA) Test Method 22.

The vents covered by this permit shall not operate unless control devices and associated equipment are maintained in good working order and operating. All vents will be inspected for visible emissions once per day and a spare-parts filter inventory will be maintained on site. Records shall be maintained of all inspections and maintenance performed.

A pressure monitor shall be installed on baghouses EPN's 11BAG311, 11BAGACID and 11BAGFLTR within 180 days from issuance of the permit amendment application correspondence dated June 14, 2014.

The differential pressure across each baghouse shall be monitored and recorded at least once during each 12 hour shift that the baghouses are in use. The pressure drop shall be at least 1 inch of water and shall not exceed 20 inches of water.

Monitoring data shall be quality assured. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or at least annually, whichever is more frequent, and shall be accurate to within 0.5 inches water gauge pressure or 0.5% of span. **(03/16)**

Flares

10. Diamine Flare (EPN 04FLR-032) shall be designed and operated in accordance with the following requirements:

- A. The flare system shall be designed such that the combined assist natural gas, liquid petroleum gas and waste stream to the flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity under normal, upset, and maintenance flow conditions.
- The 40 CFR § 60.18 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 Texas Commission on Environmental Quality (TCEQ) 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 pilot flame 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.
- D. The permit holder shall maintain a constant minimum flow of 1,300 standard cubic feet per hour (SCFH) of pilot and supplemental natural gas flow to the Diamine Flare (EPN 04FLR-032) any time there is waste stream flow to the flare. The permit holder shall operate a continuous natural gas flow monitor near the inlet to the flare. Natural gas readings shall be taken at least once every 15 minutes.
- The permit holder shall utilize a continuous flow monitor to measure supplemental natural gas flow. The natural gas flow monitor shall be calibrated on an annual basis to an accuracy of ± 5.0 percent. The flow monitor shall operate as required by this special condition at least 95 percent of the time when the flare is operational, averaged over a rolling 12-month period.
- E. The permit holder may use propane for up to 500 hours per year in the Diamine Flare (EPN 04FLR-032) to fuel the pilots and provide equivalent heating value in the Diamine Flare (EPN 04/FLR-032).
- The permit holder shall maintain a constant minimum flow of 600 standard cubic feet per hour (SCFH) of pilot and supplemental liquid petroleum gas to the Diamine Flare (EPN 04FLR-032) any time there is waste stream flow to the flare. The permit holder shall operate a continuous liquid petroleum gas flow monitor. Liquid petroleum gas readings shall be taken at least once every hour. **03/16**

Loading

11. During loading, the emissions from the EPNs listed below shall be directed to an absorber, the liquid flow in each absorber shall be an amount sufficient to ensure

95 percent removal of Ammonia (NH₃) and organo-amines. Additionally, the hourly average liquid flow in each absorber shall be maintained at or above the following minimum flow rates, expressed in gallons per minute (GPM): **(12/08)**

| <u>EPN</u> | <u>GPM</u> |
|------------|------------|
| 04LRC-006 | 22 |
| 04LTR-018 | 3 |
| 04LBA-006A | 22 |

12. Loading operations (barge, rail, truck) are limited to the liquids and loading rates identified in the confidential section of the permit amendment application correspondence dated June 14, 2014. **(03/16)**
13. All loading lines and connectors shall be visually inspected for any defects prior to hookup. Loading lines and connectors that are visibly damaged shall be removed from service. Loading operations shall cease immediately upon detection of any liquid leaking from the lines or connections. **(11/07)**

Fugitive Monitoring

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

14. Except as may be provided for in the special conditions of this permit, the following requirements apply to the piping, valves, connectors, pumps, agitators, and compressors:
 - 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 pound 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 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 at the end of the 72- hour period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings 500 ppmv above background and must be repaired within

24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

- 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. 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 weekly 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.

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

- G. Except as may be provided for in the special conditions of this permit, all pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly or be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. Seal systems designed and operated to prevent emissions or seals equipped with an automatic seal failure detection and alarm system need not be monitored. These seal systems may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.
- H. Damaged or leaking valves or connectors found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be

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

- I. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging within 15 days of the detection of the leak. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC § 115.782(c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC § 115.782(c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.
- J. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.
- K. Alternative monitoring frequency schedules of 30 TAC §§ 115.352 - 115.359 or National Emission Standards for Organic Hazardous Air Pollutants, 40 CFR Part 63, Subpart H, may be used in lieu of Items F through G of this condition.
- L. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standard (NSPS), or an applicable NESHAPS and does not constitute approval of alternative standards for these regulations.

(07/11)

15. Relief valves equipped with Rupture disks, but are not equipped with alarmed pressure gauges, shall meet the quarterly monitoring requirements of Special Condition No. 14.F.
16. Reserved.

Piping, Valves, Pumps, and Compressors in NH₃ Service

17. Except as may be provided for in the special conditions of this permit, the following requirements apply to piping, valves, pumps, and compressors in NH₃ service:
 - A. Audio, olfactory, and visual checks for NH₃ leaks within the operating area shall be made once per shift (every 12 hours).
 - B. Immediately, but no later than one hour upon detection of a leak, plant personnel shall take the following actions:
 - (1) Isolate the leak.
 - (2) Commence repair or replacement of the leaking component.
 - (3) Use a leak collection/containment system to contain the leak until repair or replacement can be made if immediate repair is not possible. Water suppression may be used as a method of containment until repairs are made.

The date and time of each inspection shall be noted in the operator's log or equivalent. Records shall be maintained at the plant site of all repairs and replacements made due to leaks. These records shall be made available to representatives of the TCEQ upon request. **(11/07)**

Tanks

18. Tanks approved by this permit and liquids they are authorized to store are listed in Attachment 1. **(11/07)**
19. The following storage tanks shall have emissions routed to the Diamine Flare (EPN 04FLR-032): **(07/11)**

| | | | | |
|-----------|------------|------------|------------|------------|
| 11TFX-078 | 11SMP-081 | 11TFX-067 | 11PRC-063 | 11TFX-050 |
| 11TFX-049 | 11PRC-066 | 11TFX-019 | 11TFX-018 | 04TFX-504 |
| 04TFX-044 | 04TFX-026 | 04TFX-027 | 04TFX-022B | 04TFX-022A |
| 04TFX-031 | 04TFX-030A | 04TFX-030B | | |

Breather Pot

20. Breather Pots, EPNs: 04TVS-023, 04TFX-025, 04TFX-028, 04TFX-029, 04TVS-034, and 04TVS-033 shall operate with no less than 95 percent removal efficiency for HMD and NH₃. **(03/16)**
21. The water flow in each breather pot identified in Special Condition No. 20 shall be monitored and the monitored results recorded at least once per day. **(11/07)**

Cooling Basins

22. The cooling basin water shall be monitored at the inlet and outlet of the HMD Unit monthly for Total Organic Carbon (TOC) and NH₃ leakage from heat exchangers. The TOC concentrations shall be determined using EPA Test Method 415.1. Ammonia concentrations shall be determined using EPA Test Methods 0350.1, 0350.2, or 0350.3. Within 180 days of issuance of this permit, the permit holder will evaluate whether the ammonia concentrations as measured by EPA Test Methods 0350.1, 0350.2, or 0350.3 are adequate to determine an ammonia leak, as defined below. If the holder of this permit determines that these methods do not adequately detect the concentrations of ammonia required to detect a leak, the holder shall submit to the TCEQ, within the 180 day period, for approval, an alternative method of determining an ammonia leak.
 - A. Equipment shall be maintained so as to minimize VOC and ammonia emissions into the cooling water. A leak is detected whenever the difference between the cooling water concentrations measured at the inlet and outlet of the HMD unit exceeds 3.0 ppmw of TOC or 0.1 ppmw of ammonia (delta samples) unless three consecutive daily delta samples are taken, the first of which shall be taken within 12 hours of the original samples, and all three samples indicate concentrations below 3.0 ppmw of TOC or 0.1 ppmw of ammonia. The leak shall be repaired as soon as practical. Except as provided in paragraph C of this condition, cooling water emissions are not authorized if repair is not completed within 45 calendar days after the monitoring test indicating a leak. Within 7 calendar days of the repair or start-up, whichever is later, the owner or operator shall confirm that the heat exchange system has been repaired.

If a leak is detected the cooling water shall be sampled weekly until a leak is confirmed repaired.
 - B. If the cooling basin water entering the Diamine Unit has a concentration greater than 3.0 ppmw of TOC or 0.1 ppmw of ammonia or shows an increase of 3.0 ppmw of TOC or 0.10 ppmw of ammonia over the prior monthly sample, the permit holder shall determine if any equipment from any other process contacting the cooling water system is leaking as determined by the authorization for that equipment. Evaluations of equipment in other processes is not required if the make-up river water in the inlet canal has a

TOC concentration within 1 ppm of the cooling basin water entering the Diamine Unit. If a leak is found the permit holder shall make repairs required by the authorization for that equipment in which the leak was found. **(12/08)**

- C. The repair of leaking heat exchange equipment within the Diamine Unit may be delayed if:
- (1) the leaking equipment is isolated from the process;
 - (2) a shutdown for repair would cause greater emissions than the potential emissions from delaying repair, or
 - (3) written TCEQ approval is obtained, in which case the repair may be delayed up to a maximum of 120 calendar days if necessary parts or personnel are not available.

Time periods and emissions shall be determined from the date when the owner or operator determines that delay of repair is necessary. Within 15 calendar days after determining the need for a delay in repair, not to exceed 45 days from the monitoring test indicating a leak, the TCEQ Regional office shall be notified of the need for the delay of repair, the reason for the delay, the expected repair date, and provided a copy of all cooling water sampling results since the initial test indicating a leak.

When evaluating Delay of Repair eligibility, VOC emissions (lb/day VOC) shall be estimated by converting the measured TOC increase (lb/day TOC) across the HMD unit to VOC emissions using process stream specific TOC to VOC factors or a conservative factor of 1.6 for HMD.

- D. The following methodologies are to be utilized in determining if the shutdown for repair would cause greater emissions than the potential emissions from delaying repair:
- (1) The potential cooling water emissions shall be initially determined by using the most recent cooling water sampling results and cooling water flow rate represented in the permit application, PI-1 dated July 14, 2006, and the time to the next projected shutdown.
 - (2) The emissions estimate shall be updated with each subsequent cooling water sample as follows:
 - (a) The actual emissions since the need for delay of repair was identified shall be determined by summing the VOC (calculated based on measured TOC concentrations and process knowledge) emissions between each of the cooling water samples taken. The emissions between VOC cooling water samples shall be obtained by multiplying the total cooling water mass flow between cooling water monitoring periods by the higher of the two VOC sample results for the given time period.

- (b) These actual emissions shall be added to the updated projected cooling water VOC emissions as of the date of the sample. The projected cooling tower water VOC emissions shall be determined using the most recent sampling results and the projected shutdown date.

The sum of the actual emissions and the updated projected cooling tower emissions shall be compared to the projected shutdown emissions with each cooling water sample. The calculations used to determine the estimated cooling water and shutdown emissions shall be recorded and updated with each cooling water sample. Ammonia emissions shall be determined using Water 9, the sampled ammonia concentration, the highest measured cooling water pH during the period, and the cooling water flow rate as represented in permit application, PI-1 dated July 14, 2006, and the temperature parameters during the period. **(12/08)**

Stack Sampling

23. The permit holder shall perform testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from EPN 04TVS-034, to demonstrate compliance with the MAERT and the required VOC and NH₃ removal efficiencies. The permit holder is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and the EPA Reference Methods.

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

- A. The 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, VOC and NH₃ removal efficiencies, tank temperatures, water flow rates,

and VOC and NH₃ stream concentrations (both condensibles and noncondensibles) during the sampling period to be observed during the testing.

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

- B. Air contaminants to be tested for include (but are not limited to) VOC and NH₃ (both condensibles and noncondensibles).
- C. Sampling shall occur within 90 days after the date of issuance of this permit 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 TCEQ Regional Office.
- D. The facility being sampled shall operate during stack emission testing at conditions which send maximum emissions to the Breather Pot, which is anticipated to be during filling of tanks connected to the Breather Pot. 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.

If during subsequent operations,, the tank temperatures or the stream concentrations are greater than that recorded during the test period or the VOC and NH₃ removal efficiencies or the water flow rates are less than recorded during the test prior, 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. **(07/11)**

Compliance Assurance Monitoring

24. The following requirements apply to capture systems for the Diamine Flare identified as EPN No. 04FLR-032:
- A. Once a year, verify the capture system is leak-free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.
 - B. Once a month, inspect all bypass valves to verify that the position of the valves and the condition of the car seals prevent flow out of the bypass.
 - C. If the inspections indicate bypass of the control device, the permit holder shall promptly take necessary corrective action and a deviation shall be reported.
 - D. 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. **(07/11)**
25. The permit holder shall install and operate a continuous flow meter to measure the HMD offgas and HMD oil flow to Boilers 7 and 8 (EPN 17STK-007), the natural gas fuel to the Reformer (EPN 16STK-001) and the natural gas feed to the Reformer (EPN 16VNT-002). Fuel flow for each shall be recorded monthly.

Rolling 12 month flow rates shall not exceed the following:

HMD offgas flow to boilers: 2028 MM scf/yr
Natural Gas fuel flow to Reformer (EPN 16STK-001): 1501.7 MM scf/yr
Natural Gas feed to Reformer (EPN 16VNT-002): 2438 MM scf/yr

The monthly flow rate of HMD Oil to the boilers shall be converted to a lb/yr rolling 12 month average and shall not exceed 48 MM/lb/yr.

The permit holder shall install and operate one or more continuous steam flow meters to measure the 550# steam flow from Boilers 7 and 8 (EPN 17STK-007) to the HMD process unit. Steam flow shall be recorded monthly and a rolling 12 month period record must be kept.

The 550# steam flow from boilers utilized by the HMD process unit shall not exceed 2,2770 MMlb/yr on a rolling 12 month period record must be kept.

Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or at least annually, whichever is more frequent, and shall be accurate to within 5 percent.

Quality assured (or valid) data must be generated when the boilers (EPN 17STK-007), Reformer (EPN 16STK-001 and EPN 16STK-002) is operating. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the boiler (heater or furnace) operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

Maintenance, Startup, and Shutdown (MSS)

26. This permit authorizes the emissions from the planned MSS activities summarized in the MSS Activity Summary, Attachment C, attached to this permit. **(07/11)**

Attachment A identifies the inherently low emitting MSS activities that may be performed at the plant. Emissions from activities identified in Attachment A shall be considered to be equal to the potential to emit represented in the permit application. The estimated emissions from the activities listed in Attachment A must be revalidated annually. This revalidation shall consist of the estimated emissions for each type of activity and the basis for that emission estimate.

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

The performance of each planned MSS activity not identified in Attachment A or B, and the emissions associated with it, shall be recorded and include at least the following information:

- A. The process unit at which emissions from the MSS activity occurred, including the emission point number and common name of the process unit;
- B. the type of planned MSS activity and the reason for the planned activity;
- C. the common name 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 amendment applications, PI-1 dated February 6, 2007, and PI-1 dated January 4, 2008, 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.

27. Process units and facilities, with the exception of those identified in Special Condition No. 29, and in Attachment A, shall be depressurized, emptied, degassed, and placed in service in accordance with the following requirements: **(07/11)**
 - 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.

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 No. 28. 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. If a TVA-1000 series FID analyzer calibrated with methane is used to determine the VOC concentration, a measured concentration of 34,000 ppmv may be considered equivalent to 10,000 ppmv as VOC.

- E. Gases and vapors with VOC partial pressure greater than 0.50 psia may be vented directly to atmosphere if all the following criteria are met:
- (1) It is not technically practicable to depressurize or degas, as applicable, into the process;
 - (2) There is not an available connection to a plant control system (such as a boiler or a flare); and
 - (3) There is no more than 50 lbs of air contaminant to be vented to atmosphere during shutdown or start-up, as applicable.

All instances of venting directly to atmosphere per E of this condition must be documented when occurring as part of any MSS activity. The emissions associated with venting without control must be included in the work order or equivalent for those planned MSS activities identified in Attachment B.

28. Air contaminant concentration shall be measured using an instrument/detector meeting one set of requirements specified below: **(02/14)**

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

- (1) The instrument shall be calibrated within 24 hours of use with a calibration gas 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.
- (3) If a TVA-1000 series FID analyzer calibrated with methane is used to determine the VOC concentration, a measured concentration of 34,000 ppmv may be considered equivalent to 10,000 ppmv as VOC.

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

- (1) The air contaminant concentration measured 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:

$$\text{measured contaminant concentration (ppmv)} < \text{release concentration.}$$

Where the release concentration is:

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

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

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

- C. Lower explosive limit (LEL) measured with an LEL detector may be used to determine air contaminant concentrations if used in accordance with the following requirements:
- (1) The detector shall be calibrated monthly with a certified pentane gas standard at 25% of the LEL for pentane. Records of the calibration date/time and calibration result (pass/fail) shall be maintained.
 - (2) A daily functionality test shall be performed on each detector using the same certified gas standard used for calibration. The LEL monitor shall read no lower than 90% of the calibration gas certified value. Records, including the date/time and test results, shall be maintained.
 - (3) A certified methane gas standard equivalent to 25% of the LEL for pentane may be used for calibration and functionality tests provided that the LEL response is within 95% of that for pentane.
- D. The VOC sampling and analysis may be performed using an instrument with a photo ionization detector (PID) or an approved alternative detector. The instrument/PID must meet all requirements specified in Section 8.1 of EPA Method 21 (40 CFR Part 60, Appendix A).

The instrument/PID shall be calibrated with zero and span calibration gas mixtures prior to sampling and in accordance with the instrument manufacturer's specifications. Zero gas shall be certified to contain between 0 and 5 ppmv total hydrocarbons. The span calibration gas shall be isobutylene at a concentration between 100 and 1000 ppmv and certified by the manufacturer to be accurate to within 2 percent. Calibration error for the zero and span calibration gas checks must be less than 10 percent of the span calibration gas value before sampling may be conducted. The results of these checks shall be recorded.

29. Fixed-roof storage tanks are subject to the following requirements: **(07/11)**

- A. The tank shall not be opened or ventilated without control, to minimize air circulation in the tank vapor space, except as allowed by (1), (2) or (3) below, until one of the criteria in part B of this condition is satisfied.
- (1) One manway may be opened to allow access to the tank to remove or de-volatilize the remaining liquid. Other manways or access points may be opened as necessary to remove or de-volatilize the remaining liquid. Wind barriers shall be installed at all open manways and access points to minimize air flow through the tank.
 - (2) Access points shall be closed when not in use.

- (3) Conservation vent and emergency vent (CV/EV) and water seal inspections and maintenance in storage tanks may be conducted as follows: **(3/16)**

| True Vapor Pressure (psia) | Tank Capacity (gal) | CV/EV and Water Seal Inspection Requirement Time Limit |
|-----------------------------------|----------------------------|---|
| ≤0.5 | Any | None |
| >0.5 and < 1.5 | <25,00 | None |
| ≥1.5 | ≤25,000 | 1 hour |
| ≥1.5 | >25,000 | 1 Hour |

- B. The tank may be opened without restriction and ventilated without control, after all standing liquid has been removed from the tank or the liquid remaining in the tank has a VOC partial pressure less than 0.02 psia. These criteria shall be demonstrated in any one of the following ways.
- (1) Low VOC partial pressure liquid that is soluble with the liquid previously stored may be added to the tank to lower the VOC partial pressure of the liquid mixture remaining in the tank to less than 0.02 psia. This liquid shall be added during tank degassing if practicable. The estimated volume of liquid remaining in the drained tank and the volume and type of liquid added shall be recorded. The liquid VOC partial pressure may be estimated based on this information and engineering calculations.
 - (2) If water is added or sprayed into the tank to remove standing VOC, one of the following must be demonstrated:
 - (a) Take a representative sample of the liquid remaining in the tank and verify no visible sheen using the static sheen test from 40 CFR Part 435, Subpart A, Appendix 1.
 - (b) Take a representative sample of the liquid remaining in the tank and verify hexane soluble VOC concentration is less than 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 No. 28.

(3) No standing liquid verified through visual inspection.

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

C. If the ventilation of the vapor space is controlled, the emission control system shall meet the following requirements:

(1) Any gas or vapor removed from the vapor space under the fixed roof must be routed to a control device or a controlled recovery system and controlled degassing must be maintained until the VOC concentration is less than 10,000 ppmv or 10 percent of the LEL. The locations and identifiers of vents other than permanent roof fittings and seals, control device or controlled recovery system, and controlled exhaust stream shall be recorded. There shall be no other gas/vapor flow out of the vapor space under the fixed roof when degassing to the control device or controlled recovery system.

(2) The vapor space under the fixed 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 fixed 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 No. 28.

(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.

D. Records shall be maintained as follows:

(1) For the purpose of estimating emissions, the date, time, and other information specified for each of the following events:

(a) start and completion of controlled degassing, and total volumetric flow,

(b) 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, and
- (c) if there is liquid in the tank, VOC partial pressure of liquid, start and completion of uncontrolled degassing, and total volumetric flow.
- (2) The estimated quantity of each air contaminant, or mixture of air contaminants, emitted in the events listed in D.1 of this condition, with the data and methods used to determine it. The emissions associated with MSS activities shall be calculated using the methods described in Section 7.1.3.2 of AP-42 "Compilation of Air Pollution Emission Factors, Chapter 7 - Storage of Organic Liquids" dated November 2006 and the permit application.
- E. Each fixed-roof tank containing liquid with a VOC partial pressure which is less than 0.02 psia at the maximum stored liquid temperature may be opened without restriction and ventilated without control, and shall be subject to the following:
- (1) Parts A, B, C, and D of this condition do not apply.
 - (2) The permit holder shall maintain a record which includes:
 - (a) tank identification number, name of the material stored, and VOC vapor pressure, in psia, at the maximum stored liquid temperature, and
 - (b) estimated quantity of each air contaminant, or mixture of air contaminants, emitted during MSS activities, with the data and methods used to determine it. The emissions shall be calculated using the methods described in Section 7.1.3.2 of AP-42 "Compilation of Air Pollution Emission Factors, Chapter 7 - Storage of Organic Liquids" dated November 2006 and the permit application.
30. The following requirements apply to vacuum and air mover truck operations to support planned MSS activities at this site: **(07/11)**
- A. Prior to initial use, identify any liquid in the truck. Record the liquid level and document the VOC partial pressure. After each liquid transfer, identify the liquid, the volume transferred, and its VOC partial pressure.
 - B. If vacuum pumps or blowers are operated when liquid is in or being transferred to the truck, the following requirements apply:
 - (1) If the VOC partial pressure of the liquid in or being transferred to the truck is greater than 0.50 psi at 95°F, the vacuum/blower exhaust shall be routed to a control device or a controlled recovery system.
 - (2) Equip fill line intake with a "duckbill" or equivalent attachment if the hose end cannot be submerged in the liquid being collected.

- (3) A daily record containing the information identified below is required for each vacuum truck in operation at the site each day.
 - (a) For each liquid transfer made with the vacuum operating, record the duration of any periods when air may have been entrained with the liquid transfer. The reason for operating in this manner and whether a “duckbill” or equivalent was used shall be recorded. Short, incidental periods, such as those necessary to walk from the truck to the fill line intake, do not need to be documented.
 - (b) If the vacuum truck exhaust is controlled with a control device other than an engine or oxidizer, VOC exhaust concentration upon commencing each transfer, at the end of each transfer, and at least every hour during each transfer shall be recorded, measured using an instrument meeting the requirements of Special Condition No. 28.A or B.
 - C. Record the volume in the vacuum truck at the end of the day, or the volume unloaded, as applicable.
 - D. The permit holder shall determine the vacuum truck emissions each month using the daily vacuum truck records and the calculation methods utilized in the permit application. If records of the volume of liquid transferred for each pick-up are not maintained, the emissions shall be determined using the physical properties of the liquid vacuumed with the greatest potential emissions. Rolling 12 month vacuum truck emissions shall also be determined on a monthly basis.
 - E. If the VOC partial pressure of all the liquids vacuumed into the truck is less than 0.10 psia, this shall be recorded when the truck is unloaded or leaves the plant site and the emissions may be estimated as the maximum potential to emit for a truck in that service as documented in the permit application. The recordkeeping requirements in A through D of this special condition do not apply.
31. Additional occurrences of MSS activities authorized by this permit may be authorized under permit by rule only if conducted in compliance with this permit’s procedures, emission controls, monitoring, and recordkeeping requirements applicable to the activity. **(07/11)**
 32. This special condition applies only to the control of emissions from planned MSS activities. 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. **(07/11)**

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

- A. The plant flare system. Flares used to control emissions from planned MSS activities shall comply with Special Condition No. 10.
 - B. Reserved.
33. Except for previously authorized MSS emissions, Special Condition Nos. 26 through 32 shall become effective 180 days after issuance of the amendment requested with the Form PI-1 dated January 4, 2008. During this 180-day period, monitoring and recordkeeping shall satisfy the requirements of Special Condition No. 26.A through 26.D. Emissions shall be estimated using good engineering practice and methods to provide reasonably accurate representations for emissions. The basis used for determining the quantity of air contaminants to be emitted shall be recorded. The permit holder may maintain abbreviated records of emissions from activities listed in Attachments A and B, as allowed in Special Condition No. 26, rather than documenting all the information required by Special Condition Nos. 26.A through 26.D. **(07/11)**

Dated: March 11, 2016

Attachment 1

Permit Number 23271

Tanks approved by this permit and liquids they are authorized to store:

| <u>Tank EPN</u> | <u>Product Authorized to be Stored</u> |
|-----------------|--|
| 04TFX-023A | HMD |
| 04TFX-023B | HMD |
| 04TFX-023C | HMD |
| 04TFX-023D | HMD |
| 04TFX-025 | VOC mixture |
| 04TFX-028 | HMD |
| 04TFX-029 | HMD |
| 04TFX-030A | VOC mixture |
| 04TFX-030B | VOC mixture |
| 04TFX-033A | VOC mixture |
| 04TFX-033B | VOC mixture |
| 04TFX-033C | VOC mixture |
| 04TFX-033D | VOC mixture |
| 04TFX-033E | VOC mixture |
| 04TFX-034A | VOC mixture |
| 04TFX-034B | VOC mixture |
| 04TFX-508 | Waste Organics |
| 04TFX-506 | Waste Organics |
| 10TFX035B | VOC mixture* (12/08) |
| 10TFX035C | VOC mixture* (12/08) |
| 10TFX035D | VOC mixture* (12/08) |
| 16TFX-006 | MDEA |
| 16TFX-005 | MDEA |

| | |
|-------------|-------------------------------|
| 11TFX-078 | Leachate |
| 11SMP-081 | Wastewater |
| 11TFX-067 | VOC mixture |
| 11PRC-066 | Wastewater |
| 11PRC-063 | Wastewater |
| 11TFX-050 | Process wastewater |
| 11TFX-049 | VOC mixture |
| 11TFX-019 | Aqueous Waste |
| 11TFX-018 | Aqueous Waste |
| 11TFX051 | Aqueous Waste* (12/08) |
| 11TFX052 | Aqueous Waste* (12/08) |
| 04TFX-504 | VOC mixture |
| 04TFX-044 | VOC mixture |
| 04TFX-027 | Waste Organics |
| 04TFX-022B | VOC mixture |
| 04TFX022A | VOC mixture |
| 04TFX023A-D | HMD |
| 04TFX026 | VOC mixture |
| 04TFX031 | VOC mixture |

Unless noted otherwise vapor pressures and weight percent of compounds stored are represented in the revised permit application dated February 6, 2007.

* Vapor pressures and weight percent of compounds stored are represented in confidential files in the revised permit application dated July 18, 2008.

Dated: March 11, 2016

Attachment 2

Permit Number 23271
List of Exempted HMD Unit Relief Devices

3321-8400-0102

3312-8200-55.21

3312-7032-0212

3312-7013-0203

3312-7013-0221

3312-7010-0201

3312-7031-0211

3312-7035-0225

3312-7036-0200

3312-7011-0202

3312-8200-0120

3312-8200-0122

3314-8300-0102

3312-8100-0120

3302-0000-0131

3302-0000-0132

3302-0000-0606

3302-0000-0609

0539-0D1A-001A

0539-0D1A-001B

0539-0000-0008

0539-00H1-0013

0539-00D2-0020

Dated: February 25, 2014

Attachment A

Permit Number 23271
Inherently Low Emitting Activities

| Activity | Emissions | | | | |
|---|-----------|-----------------|----|----|----------------------------------|
| | VOC | NO _x | CO | PM | H ₂ S/SO ₂ |
| Management of sludge from pits, ponds, sumps, and water conveyances | X | | | | |
| Aerosol Cans | X | | | | |
| Calibration of analytical equipment | X | X | X | | X |
| Catalyst Charging/handling | | | | X | |
| Instrumentation/analyzer maintenance | X | | | | |
| Meter proving | X | | | | |
| Replacement of analyzer filters and screens | X | | | | |
| Maintenance on water treatment systems (cooling, boiler, potable) | X | | | | |
| Soap and other aqueous based cleaners | X | | | | |
| Hose disconnections | X | | | | |
| Filter purges with N ₂ | X | | | | |
| Filters cleaning/Draining | X | | | | |
| Empty drum washing | X | | | | |
| Sample purging | X | | | | |

Dated: March 11, 2016

Attachment B

Permit Number 23271
Routine Maintenance Activities

Pump repair/replacement

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

Compressor repair/replacement

Heat exchanger repair/replacement

Vessel repair/replacement

Vacuum truck loading

Pump maintenance

Railcar degassing to scrubber

Tank Cleaning/Draining

Column Opening to Atmosphere

Column Cleaning/Draining

Scrubber Cleaning/Draining

Relief Valve / Emergency Vent / Conservation Vent / Flame Arrestor Maintenance

Acid Cleaning Storage Tank

Fugitives from acid Cleaning

Hose disconnect

Dated: March 11, 2016

Attachment C

Permit Number 23271
MSS Activity Summary

| Facilities | Description | Emissions Activity | EPN |
|------------|--|--|------------------------|
| 16VNT004 | Hydrogen Unit startups and shutdowns. (Previously authorized.) | Hydrogen Unit shutdown, venting, depressurization and subsequent startup and venting. | 16VNT-004 |
| 04VNT027 | Synthesis Unit startups and shutdowns. (Previously authorized.) | Synthesis Unit shutdown, venting, depressurization and subsequent startup. | 04VNT-007 04FLR-032 |
| 04VNT007 | Synthesis Unit MSS. (Previously authorized.) | Synthesis Unit LPA and HPA clear-up and CRU venting. | 04VNT-007 04FLR-032 |
| 11LTRO67A | Waste organics truck loading purge. (Previously authorized.) | Truck loading activity vented to flare | 04FLR-032 |
| NH3FINES | Ammonia fines filter maintenance. (Previously authorized.) | Depressure through the LPA to flare. | 04FLR-032 |
| NH3INJECT | Ammonia injection pump maintenance. (Previously authorized.) | Depressure through the HPA to flare. | 04FLR-032 |
| PUMPPRG | Ammonia pump maintenance. | NH3 pumps purged to the flare with N2 prior to water-flushing and opening to the atmosphere. | 04FLR-032 |
| 04VNT009 | Refining Unit annual startup and shutdown. (Previously authorized.) | Refining Unit clear-up and startup venting. | 04VNT-009 04FLR-032 |
| 04VNT027 | Additional Synthesis Unit startups and shutdowns. | Synthesis Unit shutdown, venting, depressurization and subsequent startup. | 04VNT-007 |
| 04VNT009 | Additional emissions from Refining Unit annual startup and shutdown. | Refining Unit clear-up and startup venting. | 04VNT-009 |
| 16VNT004 | Additional Hydrogen Unit startups and shutdowns. | Hydrogen Unit shutdown, venting, depressurization and subsequent startup and venting. | 16VNT-004 |

| Facilities | Description | Emissions Activity | EPN |
|-----------------------------------|--|--|-------------------------|
| NH ₃ FINES | Additional ammonia fines filter maintenance. | Depressure through the LPA to flare. | 04FLR-032 |
| VARIOUS | Tank depressurization. | Tank Depressure/ Openings to atmosphere. | 04TANKOPEN 04FLR-032 |
| see Attachment A | Inherently low emitting activities | vent to atmosphere | 04FUG-MSS |
| see Attachment B | Routine maintenance activities | vent to atmosphere | 04FUG-MSS |
| DRMCLN | Drumming of Solids from Tank Cleaning | vent to atmosphere | 04FUG-MSS |
| ACID CLEAN, ACIDFUG, TEMPTK | Acid Cleaning | vent to atmosphere | 04FUG-MSS, 04TFXACID |

Dated: March 11, 2016

Emission Sources - Maximum Allowable Emission Rates

Permit Number 23271 and PSDTX1416

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) |
| 16STK-001 | Hydrogen Reformer Stack | CO | 14.40 | 63.07 |
| | | NH ₃ | 0.55 | 2.40 |
| | | NO _x | 10.80 | 47.30 |
| | | PM | 1.30 | 5.71 |
| | | PM _{2.5} | 1.30 | 5.71 |
| | | PM ₁₀ | 1.30 | 5.71 |
| | | SO ₂ | 0.03 | 0.11 |
| | | VOC | 0.94 | 4.13 |
| 16VNT-002 | Amine Stripper Vent | CO | 7.17 | 29.88 |
| 04FUG | Fugitives (5) | Boric Acid | 0.01 | 0.01 |
| | | CO | 0.01 | 0.01 |
| | | NH ₃ | 0.37 | 1.61 |
| | | VOC | 9.79 | 42.82 |
| 04LRC-006 | Railcar Loading Scrubber Emissions | VOC | 2.88 | 0.04 |
| 04LRC-006F | Railcar Loading Uncaptured Emissions | VOC | 2.88 | 0.04 |
| 04VNT-013 | Refining System Vent | NH ₃ | 1.14 | 1.06 |
| | | VOC | 0.35 | 1.55 |
| 04LTR-018 | Truck Loading Scrubber Emissions | NH ₃ | 0.84 | 0.02 |
| | | VOC | 5.46 | 0.16 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|---|--|-----------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| 04LTR-018F | Truck Loading Uncaptured Emissions | NH ₃ | 0.22 | 0.01 |
| | | VOC | 1.29 | 0.03 |
| 04TVS-023 | HMD Blend Tanks A-D Breather Pots | VOC | 0.22 | 0.08 |
| 04TFX-025 | "F" Crude DCH Tank Breather Pot | NH ₃ | 0.01 | 0.01 |
| | | VOC | 11.56 | 2.86 |
| 04TFX-028 | "A" Refined Tank Breather Pot | VOC | 0.10 | 0.01 |
| 04TFX-029 | "B" Refined Tank Breather Pot | VOC | 0.10 | 0.01 |
| Combined emissions from EPNs 04TFX-028 and 04TFX-029 shall not exceed | | VOC | 0.16 | 0.02 |
| 04FLR-032 | Diamine Flare (HMD Flare) (Normal Operation Only) | CO | 74.29 | 69.56 |
| | | H ₂ S | 0.19 | 0.01 |
| | | NH ₃ | 10.20 | 16.86 |
| | | NO _x | 25.08 | 27.29 |
| | | SO ₂ | 17.62 | 0.11 |
| | | VOC | 13.81 | 6.75 |
| 04FLR-032 | Diamine Flare (HMD Flare) (Maintenance, Startup, and Shutdown [MSS] Activities Only) | CO | 12.04 | 0.32 |
| | | NH ₃ | 0.60 | 0.01 |
| | | NO _x | 5.00 | 0.13 |
| | | VOC | 24.35 | 0.66 |
| 04TVS-033 | Co-Product Storage Tanks A - E Breather Pot | VOC | 13.16 | 0.71 |
| 04TVS-034 | Crude HMD Tanks A and B | NH ₃ | 3.53 | 16.62 |
| | | VOC | 1.18 | 2.29 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|------------------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| 04CWA-035 | Cooling Basin (5) | NH ₃ | 0.34 | 1.49 |
| | | VOC | 1.79 | 7.86 |
| 04TFX-508 | HMD Permeate Tank | NH ₃ | 0.16 | 0.09 |
| | | VOC | 0.01 | 0.01 |
| 04TFX-506 | Aqueous Waste Tank | NH ₃ | 0.97 | 0.01 |
| | | VOC | 0.01 | 0.01 |
| 04LBA-006A | Barge Loading | VOC | 0.06 | 0.02 |
| 04LBA-006F | Barge Loading Uncaptured Emissions | VOC | 0.06 | 0.02 |
| 16TFX006 | MDEA Tank | VOC | 0.16 | 0.01 |
| 16TFX005 | Dilute MDEA Tank | VOC | 0.13 | 0.01 |
| 04LDR022C | Drum Loading of Crude HMI | NH ₃ | 0.11 | 0.01 |
| | | VOC | 0.10 | 0.01 |
| 04DGR001 | HMD Maintenance Degreaser Area | VOC | 0.36 | 0.33 |
| 16VNT-004 | Hydrogen Plant Vent (MSS) | CO | 466.88 | 10.55 |
| | | VOC | 106.54 | 3.41 |
| 04VNT-007 | Synthesis Process Vent | NH ₃ | 0.02 | 0.01 |
| | | VOC | 0.01 | 0.01 |
| 04VNT-007 | Synthesis Process Vent (MSS) | NH ₃ | 6.75 | 0.01 |
| | | VOC | 0.02 | 0.01 |
| 04VNT-009 | Refining Process Vent (MSS) | NH ₃ | 0.38 | 0.01 |
| | | VOC | 0.01 | 0.01 |
| 04TANK-OPEN | Tank Depressure (MSS) | NH ₃ | 6.31 | 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) |
| | | VOC | 2.23 | 0.02 |
| 04FUG-MSS | Fugitive Emissions (MSS) (5) | NH ₃ | 8.80 | 0.47 |
| | | PM | 0.08 | <0.01 |
| | | PM _{2.5} | 0.08 | <0.01 |
| | | PM ₁₀ | 0.08 | <0.01 |
| | | VOC | 27.51 | 4.68 |
| | | HCL | 0.10 | 0.43 |
| 04SWT-002 | Flushing N112 Unloading Line to Sump | VOC | 0.01 | 0.01 |
| 11LTR067AF | WOTL Uncaptured Emissions | VOC | 0.22 | 0.01 |
| 04LDR-022D | Drum Loading Refined HMI | VOC | 0.09 | 0.01 |
| 04LDR-036B | Drum Loading Crude MGN | VOC | 0.01 | 0.01 |
| 04LDR-037B | Drum Loading Refined MGN | VOC | 0.01 | 0.01 |
| 04LDR-025B | Drum Loading Crude DCH | NH ₃ | 0.01 | 0.01 |
| | | VOC | 0.07 | 0.01 |
| 04LDR-020B | Drum Loading Refined DCH | VOC | 0.01 | 0.01 |
| 04LDR-028B | Drum Loading Refined HMD | VOC | 0.02 | 0.01 |
| 04LDR-033D | Drum Loading BHMT | VOC | 0.02 | 0.01 |
| 04SEP-001 | Oil/Sand Separator | NH ₃ | 0.36 | 0.11 |
| | | VOC | 0.01 | 0.01 |
| 11BAG311 | Wastewater Baghouse | PM | 0.04 | 0.17 |
| | | PM ₁₀ | 0.04 | 0.17 |
| | | PM _{2.5} | 0.04 | 0.17 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|----------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| 11BAGACID | Wastewater Baghouse | PM | 0.04 | 0.17 |
| | | PM ₁₀ | 0.04 | 0.17 |
| | | PM _{2.5} | 0.04 | 0.17 |
| 11BAG311 & 11BAGACID | Wastewater Baghouses | VOC | 0.02 | 0.11 |
| 11BAGFLTR | Wastewater Baghouse | PM | 0.14 | 0.60 |
| | | PM _{2.5} | 0.14 | 0.60 |
| | | PM ₁₀ | 0.14 | 0.60 |
| 04TFX022B | Refined DCH Tank | VOC | 0.71 | 0.10 |
| 04TFXACID | Acid Cleaning Storage Tank | VOC | 0.01 | 0.01 |
| | | HCL | 0.03 | 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)
 - CO - carbon monoxide
 - H₂S - hydrogen sulfide
 - NH₃ - ammonia
 - NO_x - total oxides of nitrogen
 - PM - particulate matter, suspended in the atmosphere, including PM₁₀
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter
 - SO₂ - sulfur dioxide
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - HCL - hydrochloric acid
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: March 11, 2016