

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
AMERICAN ACRYL LP

AUTHORIZING THE OPERATION OF
American Acryl Bayport Complex
Plastics Material and Resin Manufacturing

LOCATED AT
Harris County, Texas
Latitude 29° 36' 3" Longitude 95° 1' 11"
Regulated Entity Number: RN101379287

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: 02655 Issuance Date: October 9, 2024



For the Commission

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General Terms and Conditions

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

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

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

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

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

Special Terms and Conditions:

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

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
 - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
 - E. Emission units subject to 40 CFR Part 63, Subparts ZZZZ and VVVVV as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter

113, Subchapter C, §§ 113.1090 and 113.1495, respectively, which incorporate the 40 CFR Part 63 Subparts by reference.

- F. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:
 - (i) Title 30 TAC § 101.352 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.353 (relating to Allocation of Allowances)
 - (iii) Title 30 TAC § 101.354 (relating to Allowance Deductions)
 - (iv) Title 30 TAC § 101.356 (relating to Allowance Banking and Trading)
 - (v) Title 30 TAC § 101.359 (relating to Reporting)
 - (vi) Title 30 TAC § 101.360 (relating to Level of Activity Certification)
 - (vii) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit

- G. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 6 (Highly Reactive Volatile Organic Compound Emissions Cap and Trade Program) requirements:
 - (i) Title 30 TAC § 101.393 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.394 (relating to Allocation of Allowances)
 - (iii) Title 30 TAC § 101.396 (relating to Allowance Deductions)
 - (iv) Title 30 TAC § 101.399 (relating to Allowance Banking and Trading)
 - (v) Title 30 TAC § 101.400 (relating to Reporting)
 - (vi) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit

- 2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
 - A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)

- F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
 - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(1)(E)
 - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
 - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
 - (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
 - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

- (3) Records of all observations shall be maintained.
 - (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
 - (5) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
 - (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.
- B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)

- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
 - (4) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of

compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- C. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- D. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- E. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- F. Permit holder shall comply with the following requirements for steam generators:
 - (i) Emissions from any oil or gas fuel-fired steam generator with a heat input capacity greater than 2,500 MMBtu per hour may not exceed 0.1 pound of TSP per MMBtu of heat input, averaged over a two-hour period, as required in 30 TAC § 111.153(c) (relating to Emissions Limits for Steam Generators).
- G. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
 - (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
 - (ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
 - (iii) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
 - (iv) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: Storage of Volatile Organic Compounds, the permit holder shall comply with the requirements of 30 TAC § 115.112(e)(1).
- 5. For industrial wastewater specified in 30 TAC Chapter 115, Subchapter B, the permit holder shall comply with the following requirements for wastewater drains, junction boxes, lift stations and weirs:

- A. Title 30 TAC § 115.142 (relating to Control Requirements)
 - B. Title 30 TAC § 115.142(1)(A) - (D) (relating to Control Requirements)
 - C. Title 30 TAC § 115.142(1)(E) and (F) (relating to Control Requirements)
 - D. Title 30 TAC § 115.142(1)(G) and (H) (relating to Control Requirements)
 - E. Title 30 TAC § 115.144(1), (5), and (6) (relating to Inspection and Monitoring Requirements)
 - F. Title 30 TAC § 115.145 (relating to Approved Test Methods)
 - G. Title 30 TAC § 115.146 (relating to Recordkeeping Requirements)
 - H. Title 30 TAC § 115.147(2) (relating to Exemptions), for streams with an annual VOC loading of 10 megagrams (11.03 tons) or less
 - I. Title 30 TAC § 115.148 (relating to Determination of Wastewater Characteristics)
6. The permit holder shall comply with the following requirements of 30 TAC Chapter 115, Subchapter F, Division 3, Degassing of Storage Tanks, Transport Vessels and Marine Vessels:
- A. For degassing of stationary VOC storage tanks, the permit holder shall comply with the following requirements:
 - (i) Title 30 TAC § 115.541(a) - (c) (relating to Emission Specifications)
 - (ii) Title 30 TAC § 115.541(f) (relating to Emission Specifications), for floating roof storage tanks
 - (iii) Title 30 TAC § 115.542(a) and (a)(1), (a)(2), (a)(3) or (a)(4) (relating to Control Requirements). Where the requirements of 30 TAC Chapter 115, Subchapter F contain multiple compliance options, the permit holder shall keep records of when each compliance option was used.
 - (iv) Title 30 TAC § 115.542(b) - (d), (relating to Control Requirements)
 - (v) Title 30 TAC § 115.543 (relating to Alternate Control Requirements)
 - (vi) Title 30 TAC § 115.544(a)(1) and (a)(2) (relating to Inspection, Monitoring, and Testing Requirements), for inspections
 - (vii) Title 30 TAC § 115.544(b) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring
 - (viii) Title 30 TAC § 115.544(b)(1) and (b)(2) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring of control devices
 - (ix) Title 30 TAC § 115.544(b)(2)(A) - (J) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring (as appropriate to the control device)
 - (x) Title 30 TAC § 115.544(b)(3), (b)(4) and (b)(6) (relating to Inspection, Monitoring, and Testing Requirements), for VOC concentration or lower explosive limit threshold monitoring

- (xi) Title 30 TAC § 115.544(c), and (c)(1) - (c)(3) (relating to Inspection, Monitoring, and Testing Requirements), for testing of control devices used to comply with 30 TAC § 115.542(a)(1)
 - (xii) Title 30 TAC § 115.545(1) - (7), (9) - (11) and (13) (relating to Approved Test Methods)
 - (xiii) Title 30 TAC § 115.546(a), (a)(1) and (a)(3) (relating to Recordkeeping and Notification Requirements), for recordkeeping
 - (xiv) Title 30 TAC § 115.546(a)(2) and (a)(2)(A) - (J) (relating to Recordkeeping and Notification Requirements), for recordkeeping (as appropriate to the control device)
 - (xv) Title 30 TAC § 115.546(a)(4) (relating to Recordkeeping and Notification Requirements), for recordkeeping of testing of control devices used to comply with 30 TAC § 115.542(a)(1)
 - (xvi) Title 30 TAC § 115.546(b) (relating to Recordkeeping and Notification Requirements), for notification
 - (xvii) Title 30 TAC § 115.547(4) (relating to Exemptions)
7. The permit holder shall comply with the following requirements of 30 TAC Chapter 115, Subchapter H, Division 1 for pressure relief devices not controlled by a flare:
- A. Title 30 TAC § 115.725(c)
 - B. Title 30 TAC § 115.725(c)(1), (c)(1)(A) - (C)
 - C. Title 30 TAC § 115.725(c)(2)
 - D. Title 30 TAC § 115.725(c)(3), (c)(3)(A) - (E)
 - E. Title 30 TAC § 115.725(c)(4)
 - F. Title 30 TAC § 115.725(l)
 - G. Title 30 TAC § 115.726(c), (c)(1) - (4)
8. The permit holder shall comply with the requirements of 30 TAC § 115.726(e)(3)(A) for vent streams having no potential to emit HRVOC.
9. The permit holder shall comply with the requirements of 30 TAC § 115.726(e)(3)(A) for vent streams from sources exempt under 30 TAC § 115.727(c)(3).
10. 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)
11. 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)
12. For facilities where total annual benzene quantity from waste is less than 1 megagram per year and subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
- A. Title 40 CFR § 61.355(a)(1)(iii), (a)(2), (a)(5)(i) - (ii), (a)(6), (b), and (c)(1) - (3) (relating to Test Methods, Procedures, and Compliance Provisions), for calculation procedures
 - B. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)
 - C. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)
 - D. Title 40 CFR § 61.357(a), and (b) (relating to Reporting Requirements)
13. 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.
14. For each gasoline dispensing facility, with a throughput of less than 10,000 gallons per month as specified in 40 CFR Part 63, Subpart CCCCCC, the permit holder shall comply with the following requirements (Title 30 TAC, Subchapter C, § 113.1380 incorporated by reference):
- A. Title 40 CFR § 63.11111(e), for records of monthly throughput

- B. Title 40 CFR § 63.11111(i), for compliance due to increase of throughput
 - C. Title 40 CFR § 63.11111(j), for dispensing from fixed tank into portable tank for on-site delivery
 - D. Title 40 CFR § 63.11113(c), for compliance due to increase of throughput
 - E. Title 40 CFR § 63.11115(a), for operation of the source
 - F. Title 40 CFR § 63.11116(a) and (a)(1) - (4), for work practices
 - G. Title 40 CFR § 63.11116(b), for records availability
 - H. Title 40 CFR § 63.11116(d), for portable gasoline containers
15. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

16. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached "CAM Summary" upon issuance of the permit. In addition, the permit holder shall comply with the following:
- A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
 - B. The permit holder shall report, consistent with the averaging time identified in the "CAM Summary," deviations as defined by the deviation limit in the "CAM Summary." Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).
 - C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "CAM Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
 - D. The permit holder shall operate the monitoring, identified in the attached "CAM Summary," in accordance with the provisions of 40 CFR § 64.7.

- E. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.
17. The permit holder shall comply with the periodic monitoring requirements as specified in the attached “Periodic Monitoring Summary” upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the “Periodic Monitoring Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

18. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated March 15, 2024 in the application for project 36204), 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
19. 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.
20. 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

21. 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.

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

- A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
 - (i) For sources in the Houston-Galveston-Brazoria Nonattainment area, 30 TAC § 117.9020:
 - (1) Title 30 TAC § 117.9020(2)(A), (C), and (D)
- B. The permit holder shall comply with the requirements of 30 TAC § 117.354 for Final Control Plan Procedures for Attainment Demonstration Emission Specifications and 30 TAC § 117.356 for Revision of Final Control Plan.

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

- A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) Offsets for Title 30 TAC Chapter 116
- B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)-(d)
 - (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
 - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)-(d)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)

24. 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)

Protection of Stratospheric Ozone

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

Alternative Requirements

26. The permit holder shall comply with the approved alternative means of control (AMOC); alternative monitoring, recordkeeping, or reporting requirements; or requirements determined to be equivalent to an otherwise applicable requirement contained in the Alternative Requirements attachment of this permit. Units complying with an approved alternative requirement have reference to the approval in the Applicable Requirements summary listing for the unit. The permit holder shall maintain the original documentation, from the EPA Administrator, demonstrating the method or limitation utilized. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.

Permit Location

27. 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)

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

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Alternative Requirement

Applicable Requirements Summary

Unit Summary 17

Applicable Requirements Summary 22

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
AA-FUG	FUGITIVE EMISSION UNITS	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
AA-FUG	FUGITIVE EMISSION UNITS	N/A	60VV-ALL	40 CFR Part 60, Subpart VV	No changing attributes.
AA-SITE	WASTEWATER UNITS	N/A	115WW-00010	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
AA-UNIT	TREATMENT PROCESS	N/A	63VVVVVV-1	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
BOIL-Y1801	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	117B-BLR00100	30 TAC Chapter 117, Subchapter B	No changing attributes.
BOIL-Y1801	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Db-00148	40 CFR Part 60, Subpart Db	No changing attributes.
FIRE-PUMPS	SRIC ENGINES	N/A	117B-ENG00100	30 TAC Chapter 117, Subchapter B	No changing attributes.
FIRE-PUMPS	SRIC ENGINES	N/A	ZZZZ-ENG0100	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
OS-FUG	FUGITIVE EMISSION UNITS	N/A	R5352ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
OS-FUG	FUGITIVE EMISSION UNITS	N/A	60VVALL	40 CFR Part 60, Subpart VV	No changing attributes.
OS-LOADFUG	LOADING/UNLOADING OPERATIONS	N/A	115NAC-LD00030	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
OS-UNLOAD	LOADING/UNLOADING OPERATIONS	N/A	115NAC-LD00030	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
R-1002A	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	115-VENT053	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
R-1002A	REACTOR	N/A	60III-00001	40 CFR Part 60, Subpart III	No changing attributes.
R-1002B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	115-VENT053	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
R-1002B	REACTOR	N/A	60III-00001	40 CFR Part 60, Subpart III	No changing attributes.
T-1101	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	115-VENT053	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
T-1101	REACTOR	N/A	60III-00004	40 CFR Part 60, Subpart III	No changing attributes.
T-1102	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	115-VENT053	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
T-1102	DISTILLATION OPERATIONS	N/A	60NNN-00011	40 CFR Part 60, Subpart NNN	No changing attributes.
T-1104	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	115-VENT053	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
T-1104	DISTILLATION OPERATIONS	N/A	60NNN-00011	40 CFR Part 60, Subpart NNN	No changing attributes.
T-1105	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	115-VENT053	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
T-1105	DISTILLATION OPERATIONS	N/A	60NNN-00011	40 CFR Part 60, Subpart NNN	No changing attributes.
T-1107	EMISSION	N/A	115-VENT053	30 TAC Chapter 115, Vent	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	POINTS/STATIONARY VENTS/PROCESS VENTS			Gas Controls	
T-1107	DISTILLATION OPERATIONS	N/A	60NNN-00011	40 CFR Part 60, Subpart NNN	No changing attributes.
T-1108	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	115-VENT053	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
T-1108	DISTILLATION OPERATIONS	N/A	60NNN-00011	40 CFR Part 60, Subpart NNN	No changing attributes.
T-1109A	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	115-VENT053	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
T-1109A	DISTILLATION OPERATIONS	N/A	60NNN-00011	40 CFR Part 60, Subpart NNN	No changing attributes.
T-1109B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	115-VENT053	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
T-1109B	DISTILLATION OPERATIONS	N/A	60NNN-00011	40 CFR Part 60, Subpart NNN	No changing attributes.
THOX-Y1170	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	111-VENT00015	30 TAC Chapter 111, Visible Emissions	No changing attributes.
THOX-Y1170	INCINERATOR	N/A	117B-THOX0100	30 TAC Chapter 117, Subchapter B	No changing attributes.
TK-1117	STORAGE TANKS/VESSELS	N/A	115TK-00053	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1124	STORAGE TANKS/VESSELS	N/A	115TK-00056	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
TK-1133	STORAGE TANKS/VESSELS	N/A	115TK-00053	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1138	STORAGE TANKS/VESSELS	N/A	115TK-00056	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1139	STORAGE TANKS/VESSELS	N/A	115TK-00056	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1141	STORAGE TANKS/VESSELS	N/A	115TK-00051	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1145A	STORAGE TANKS/VESSELS	N/A	115TK-00056	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1145B	STORAGE TANKS/VESSELS	N/A	115TK-00051	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1145C	STORAGE TANKS/VESSELS	N/A	115TK-00056	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1147	STORAGE TANKS/VESSELS	N/A	115TK-00051	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1149B	STORAGE TANKS/VESSELS	N/A	115TK-00051	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1160A	WASTEWATER UNITS	N/A	115WW-00010	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
TK-1160B	WASTEWATER UNITS	N/A	115WW-00010	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
TK-1160C	STORAGE TANKS/VESSELS	N/A	115TK-00051	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1160D	STORAGE TANKS/VESSELS	N/A	115TK-00051	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1161	WASTEWATER UNITS	N/A	115WW-00010	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
TK-1161	STORAGE TANKS/VESSELS	N/A	60Kb-00434	40 CFR Part 60, Subpart Kb	No changing attributes.
TK-1172A	STORAGE TANKS/VESSELS	N/A	115TK-00051	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1172B	STORAGE TANKS/VESSELS	N/A	115TK-00051	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1501	STORAGE TANKS/VESSELS	N/A	115TK-00051	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1502	STORAGE TANKS/VESSELS	N/A	115TK-00051	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1503	STORAGE TANKS/VESSELS	N/A	115TK-00051	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1510	WASTEWATER UNITS	N/A	115WW-00010	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
TK-1703	STORAGE TANKS/VESSELS	N/A	115TK-00051	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1901	STORAGE TANKS/VESSELS	N/A	115TK-00052	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1902	STORAGE TANKS/VESSELS	N/A	115TK-00051	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-1908	WASTEWATER UNITS	N/A	115WW-00010	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
TK-1908	STORAGE TANKS/VESSELS	N/A	60Kb-00434	40 CFR Part 60, Subpart Kb	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)
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals that are equipped with a shaft sealing system that prevents or detects emissions of VOCs from the seal shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii)	No compressor seals contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.		[G]§ 115.356(3)(C) § 115.356(5)	
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals that are equipped with a shaft sealing system that prevents or detects emissions of VOCs from the seal shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals in hydrogen service with and the hydrogen content can be expected to always exceed 50.0% by volume shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						based on sight, smell, or sound.			
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(8)	No agitators contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(8)	No agitators contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5)	No flanges or other connectors contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(9) [G]§ 115.355	§ 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8)	No valves contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.357(9)	or exuding of process fluid based on sight, smell, or sound.			
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C)	If the owner or operator elects to use the alternative work practice in §115.358, no component shall be allowed to have a VOC leak, detected as defined in	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2)	[G]§ 115.358(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	§115.358, for more than 15 days after discovery. This includes any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						based on sight, smell, or sound.			
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						this title.			
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Conservation vents or other devices on atmospheric storage tanks that are actuated either by a vacuum or a pressure of no more than 2.5 psig, pressure relief valves equipped with a rupture disk or venting to a control device, components in continuous vacuum service, and valves that are not externally regulated (such as in-line check valves) are exempt from the requirements of this division, except that each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.357(1)	days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.		§ 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						sound.			
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
AA-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
AA-FUG	EU	60VV-ALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-8(b) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(c)(1)	For pumps in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(d) § 60.482-9(f) § 60.486(k)				
AA-FUG	EU	60VV-ALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-8(b) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k)	For valves in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
AA-FUG	EU	60VV-ALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-3(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) [G]§ 60.482-3(b) § 60.482-3(c) § 60.482-3(d) § 60.482-3(e)(1) § 60.482-3(e)(2) § 60.482-3(f) § 60.482-3(g)(1) § 60.482-3(g)(2) § 60.482-3(h) [G]§ 60.482-3(i) § 60.482-3(j) § 60.482-9(a)	Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in §60.482-1(c) and paragraphs (h), (i), and (j) of this section.	§ 60.482-3(e)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

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

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

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-9(f) § 60.486(k)				
AA-FUG	EU	60VV-ALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-6(a)(1) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-6(a)(2) § 60.482-6(b) § 60.482-6(c) § 60.482-6(d) § 60.482-6(e) § 60.486(k)	Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in §60.482-1(c) and paragraphs (d) and (e) of this section.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
AA-FUG	EU	60VV-ALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-5(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) [G]§ 60.482-5(b) § 60.482-5(c) § 60.486(k)	Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system, except as provided in §60.482-1(c) and paragraph (c) of this section.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
AA-FUG	EU	60VV-ALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-1(d) § 60.486(k)	Equipment that is in vacuum service is excluded from the requirements of §60.482-2 to §60.482-10, if it is identified as required in §60.486(e)(5).	None	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(5) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
AA-FUG	EU	60VV-ALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-4(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-4(b)(1) § 60.482-4(c) § 60.482-4(d)(1) § 60.482-4(d)(2) § 60.482-9(a) § 60.482-9(b) § 60.486(k)	Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in § 60.485(c).	§ 60.482-4(b)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
AA-SITE	EU	115WW-00010	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(A) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	[G]§ 115.142(1)(H) § 115.144(3)(A) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None
AA-UNIT	EU	63VVVVV V-1	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
BOIL-Y1801	EU	117B-BLR00100	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.310(c)(3) § 117.340(f)(1)	CO emissions must not exceed 400 ppmv at 3.0% O ₂ , dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a)(2)(B) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) [G]§ 117.340(f)(2)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(B)(iii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A)		§ 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)
BOIL-Y1801	EU	117B-BLR00100	NO _x	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(A) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO _x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a)(2)(B) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)		§ 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)
BOIL-Y1801	EU	60Db-00148	NO _x	40 CFR Part 60, Subpart Db	§ 60.44b(l)(1) § 60.44b(h) § 60.44b(i) § 60.46b(a)	Affected facilities combusting coal, oil, or natural gas, or a mixture of these fuels, or any other fuels: a limit of 86 ng/JI (0.20 lb/million Btu) heat input unless the affected facility meets the specified requirements.	§ 60.46b(c) § 60.46b(e) § 60.46b(e)(1) § 60.46b(e)(4) [G]§ 60.48b(b) § 60.48b(c) § 60.48b(d) § 60.48b(e) [G]§ 60.48b(e)(2) § 60.48b(e)(3) § 60.48b(f) § 60.48b(g)(1)	[G]§ 60.48b(b) § 60.48b(c) [G]§ 60.49b(d) [G]§ 60.49b(g) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b) § 60.49b(h) § 60.49b(h)(4) § 60.49b(i) § 60.49b(v) § 60.49b(w)
BOIL-Y1801	EU	60Db-00148	PM	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).			§ 60.49b(a)(3)
BOIL-Y1801	EU	60Db-00148	PM (Opacity)	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
BOIL-Y1801	EU	60Db-00148	SO ₂	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
FIRE-PUMPS	EU	117B-ENG00100	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						on a rolling 12-month average.			
FIRE-PUMPS	EU	ZZZZ-ENG0100	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						§63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.			
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Conservation vents or other devices on atmospheric storage tanks that are actuated either by a vacuum or a pressure of no more than 2.5 psig, pressure relief valves equipped with a rupture disk or venting to a control device, components in continuous vacuum service, and valves that are not externally regulated	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						(such as in-line check valves) are exempt from the requirements of this division, except that each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.			
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5)	No open-ended valves or lines contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.		§ 115.356(5)	
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter	§ 115.352(1)(A)	No flanges or other	§ 115.354(1)	§ 115.352(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				115, Pet. Refinery & Petrochemicals	§ 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	connectors contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii)	No agitators contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which	[G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(8)	exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.		[G]§ 115.356(3)(C) § 115.356(5)	
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(8)	No agitators contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals in hydrogen service with and the hydrogen content can be expected to always exceed 50.0% by volume shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						sound.			
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals that are equipped with a shaft sealing system that prevents or detects emissions of VOCs from the seal shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i)	No compressor seals contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals that are equipped with a shaft sealing system that prevents or detects emissions of VOCs from the seal shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						based on sight, smell, or sound.			
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	If the owner or operator elects to use the alternative work practice in §115.358, no component shall be allowed to have a VOC leak, detected as defined in §115.358, for more than 15 days after discovery. This includes any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)
OS-FUG	EU	R5352ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B)	No valves contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	
OS-FUG	EU	60VVALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-1(d) § 60.486(k)	Equipment that is in vacuum service is excluded from the requirements of §60.482-2 to §60.482-10, if it is identified as required in §60.486(e)(5).	None	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(5) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
OS-FUG	EU	60VVALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-4(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-4(b)(1) § 60.482-4(c) § 60.482-4(d)(1) § 60.482-4(d)(2) § 60.482-9(a) § 60.482-9(b) § 60.486(k)	Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in § 60.485(c).	§ 60.482-4(b)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
OS-FUG	EU	60VVALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-5(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) [G]§ 60.482-5(b) § 60.482-5(c) § 60.486(k)	Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system, except as provided in §60.482-1(c) and paragraph (c) of this section.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
OS-FUG	EU	60VVALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-6(a)(1) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g)	Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-6(a)(2) § 60.482-6(b) § 60.482-6(c) § 60.482-6(d) § 60.482-6(e) § 60.486(k)	provided in §60.482-1(c) and paragraphs (d) and (e) of this section.		§ 60.486(j)	
OS-FUG	EU	60VVALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-7(b) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-7(d)(1) § 60.482-7(d)(2) [G]§ 60.482-7(e) [G]§ 60.482-7(f) [G]§ 60.482-7(g) [G]§ 60.482-7(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k)	If an instrument reading of 10,000 ppm or greater is measured for valves in gas/vapor service and in light liquid service, a leak is detected.	§ 60.482-1(f)(1) § 60.482-1(f)(2) [G]§ 60.482-1(f)(3) § 60.482-7(a)(1) [G]§ 60.482-7(a)(2) § 60.482-7(c)(1)(i) § 60.482-7(c)(1)(ii) § 60.482-7(c)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
OS-FUG	EU	60VVALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-8(b) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) § 60.486(k)	For pressure relief devices in light liquid or in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
OS-FUG	EU	60VVALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-8(b) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g)	For flanges and other connectors, if an instrument reading of 10,000 ppm or greater is measured, a leak	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

Applicable Requirements Summary

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

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-1(g) [G]§ 60.482-2(b)(2) § 60.482-2(c)(1) [G]§ 60.482-2(c)(2) § 60.482-2(d) [G]§ 60.482-2(d)(1) § 60.482-2(d)(2) § 60.482-2(d)(3) [G]§ 60.482-2(d)(4) [G]§ 60.482-2(d)(5) [G]§ 60.482-2(d)(6) [G]§ 60.482-2(e) § 60.482-2(f) [G]§ 60.482-2(g) § 60.482-2(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(d) § 60.482-9(f) § 60.486(k)	liquid service, a leak is detected.	[G]§ 60.482-2(a) [G]§ 60.482-2(b)(2) [G]§ 60.482-2(d)(4) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	[G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(h) § 60.486(j)	§ 60.487(e)
OS-FUG	EU	60VVALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-3(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) [G]§ 60.482-3(b) § 60.482-3(c) § 60.482-3(d) § 60.482-3(e)(1) § 60.482-3(e)(2) § 60.482-3(f) § 60.482-3(g)(1) § 60.482-3(g)(2) § 60.482-3(h) [G]§ 60.482-3(i) § 60.482-3(j) § 60.482-9(a) § 60.482-9(b) § 60.486(k)	Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in §60.482-1(c) and paragraphs (h), (i), and (j) of this section.	§ 60.482-3(e)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
OS-FUG	EU	60VVALL	VOC	40 CFR Part 60, Subpart VV	§ 60.482-8(b) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k)	For valves in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
OS-LOADFUG	EU	115NAC-LD00030	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
OS-UNLOAD	EU	115NAC-LD00030	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
R-1002A	EP	115-VENT053	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(B)	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	** See CAM Summary		
R-1002A	EP	60III-00001	VOC/TOC	40 CFR Part 60, Subpart III	§ 60.612(a)	For each vent stream, reduce emissions of TOC by 98 wt%, or TOC concentration of 20 ppmv, dry basis corrected to 3 % O2 (use less stringent). If boiler/process heater used to comply, insert vent stream in flame zone.	§ 60.13(i) § 60.613(a) § 60.613(a)(1) § 60.613(a)(1)(i) § 60.614(a) § 60.614(b) § 60.614(b)(1) § 60.614(b)(2) § 60.614(b)(3) [G]§ 60.614(b)(4) § 60.703(a)(2) § 60.703(a)(2)(i) § 60.703(a)(2)(ii) ** See Alternative Requirement ** See CAM Summary	§ 60.613(a)(1) § 60.615(b) [G]§ 60.615(b)(1) § 60.615(c)(1) § 60.615(d) § 60.615(g) § 60.615(i) § 60.705(d) § 60.705(d)(1) § 60.705(d)(2)	§ 60.615(a) § 60.615(b) [G]§ 60.615(b)(1) § 60.615(c)(1) § 60.615(g) § 60.615(i) § 60.615(j)(1) § 60.615(j)(2) § 60.705(l) § 60.705(l)(2) § 60.705(l)(7)
R-1002B	EP	115-VENT053	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(B)	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	None
R-1002B	EP	60III-00001	VOC/TOC	40 CFR Part 60, Subpart III	§ 60.612(a)	For each vent stream, reduce emissions of TOC by 98 wt%, or TOC concentration of 20 ppmv,	§ 60.13(i) § 60.613(a) § 60.613(a)(1) § 60.613(a)(1)(i)	§ 60.613(a)(1) § 60.615(b) [G]§ 60.615(b)(1) § 60.615(c)(1)	§ 60.615(a) § 60.615(b) [G]§ 60.615(b)(1) § 60.615(c)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						dry basis corrected to 3 % O2 (use less stringent). If boiler/process heater used to comply, insert vent stream in flame zone.	§ 60.614(a) § 60.614(b) § 60.614(b)(1) § 60.614(b)(2) § 60.614(b)(3) [G]§ 60.614(b)(4) § 60.703(a)(2) § 60.703(a)(2)(i) § 60.703(a)(2)(ii) ** See Alternative Requirement ** See CAM Summary	§ 60.615(d) § 60.615(g) § 60.705(d) § 60.705(d)(1) § 60.705(d)(2)	§ 60.615(g) § 60.615(i) § 60.615(j) § 60.615(j)(1) § 60.615(j)(2) § 60.705(l) § 60.705(l)(2) § 60.705(l)(7)
T-1101	EP	115-VENT053	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(B)	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	None
T-1101	EP	60III-00004	VOC/TOC	40 CFR Part 60, Subpart III	§ 60.612(a)	For each vent stream, reduce emissions of TOC by 98 wt%, or TOC concentration of 20 ppmv, dry basis corrected to 3 % O2 (use less stringent). If boiler/process heater used to comply, insert vent stream in flame zone.	§ 60.13(i) § 60.613(a) § 60.613(a)(1) § 60.613(a)(1)(i) § 60.614(a) § 60.614(b) § 60.614(b)(1) § 60.614(b)(2) § 60.614(b)(3) [G]§ 60.614(b)(4) § 60.703(a)(2) § 60.703(a)(2)(i) § 60.703(a)(2)(ii) ** See Alternative	§ 60.613(a)(1) § 60.615(b) [G]§ 60.615(b)(1) § 60.615(c)(1) § 60.615(d) § 60.615(g) § 60.705(d) § 60.705(d)(1) § 60.705(d)(2)	§ 60.615(a) § 60.615(b) [G]§ 60.615(b)(1) § 60.615(c)(1) § 60.615(g) § 60.615(i) § 60.615(j) § 60.615(j)(1) § 60.615(j)(2) § 60.705(l) § 60.705(l)(2) § 60.705(l)(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							Requirement		
T-1102	EP	115-VENT053	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(B)	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	None
T-1102	EP	60NNN-00011	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.662(a)	Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater.	§ 60.13(i) § 60.663(a) § 60.663(a)(1) § 60.663(a)(1)(i) § 60.664(a) § 60.664(b) § 60.664(b)(1) § 60.664(b)(2) § 60.664(b)(3) [G]§ 60.664(b)(4) § 60.703(a)(2) § 60.703(a)(2)(i) § 60.703(a)(2)(ii) ** See Alternative Requirement ** See CAM Summary	§ 60.663(a)(1) § 60.663(a)(2) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(c) § 60.665(c)(1) § 60.665(c)(1) § 60.705(d) § 60.705(d)(1) § 60.705(d)(2)	§ 60.665(a) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(c) § 60.665(c)(1) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.705(l) § 60.705(l)(2) § 60.705(l)(7)
T-1104	EP	115-VENT053	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(B)	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0%	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						oxygen for combustion devices).			
T-1104	EP	60NNN-00011	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.662(a)	Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater.	§ 60.13(i) § 60.663(a) § 60.663(a)(1) § 60.663(a)(1)(i) § 60.664(a) § 60.664(b) § 60.664(b)(1) § 60.664(b)(2) § 60.664(b)(3) [G]§ 60.664(b)(4) § 60.703(a)(2) § 60.703(a)(2)(i) § 60.703(a)(2)(ii) ** See Alternative Requirement ** See CAM Summary	§ 60.663(a)(1) § 60.663(a)(2) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(c) § 60.665(c)(1) § 60.705(d) § 60.705(d)(1) § 60.705(d)(2)	§ 60.665(a) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(c) § 60.665(c)(1) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.705(l) § 60.705(l)(2) § 60.705(l)(7)
T-1105	EP	115-VENT053	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(B)	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	None
T-1105	EP	60NNN-00011	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.662(a)	Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater.	§ 60.13(i) § 60.663(a) § 60.663(a)(1) § 60.663(a)(1)(i) § 60.664(a) § 60.664(b) § 60.664(b)(1) § 60.664(b)(2)	§ 60.663(a)(1) § 60.663(a)(2) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(c) § 60.665(c)(1) § 60.705(d) § 60.705(d)(1)	§ 60.665(a) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(c) § 60.665(c)(1) § 60.665(k) § 60.665(l) § 60.665(l)(1)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 60.664(b)(3) [G]§ 60.664(b)(4) § 60.703(a)(2) § 60.703(a)(2)(i) § 60.703(a)(2)(ii) ** See Alternative Requirement ** See CAM Summary	§ 60.705(d)(2) § 60.705(l) § 60.705(l)(2) § 60.705(l)(7)	
T-1107	EP	115-VENT053	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(B)	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	None
T-1107	EP	60NNN-00011	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.662(a)	Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater.	§ 60.13(i) § 60.663(a) § 60.663(a)(1) § 60.663(a)(1)(i) § 60.664(a) § 60.664(b) § 60.664(b)(1) § 60.664(b)(2) § 60.664(b)(3) [G]§ 60.664(b)(4) § 60.703(a)(2) § 60.703(a)(2)(i) § 60.703(a)(2)(ii) ** See Alternative Requirement ** See CAM Summary	§ 60.663(a)(1) § 60.663(a)(2) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(c) § 60.665(c)(1) § 60.665(c)(1) § 60.705(d) § 60.705(d)(1) § 60.705(d)(2)	§ 60.665(a) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(c) § 60.665(c)(1) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.705(l) § 60.705(l)(2) § 60.705(l)(7)
T-1108	EP	115-	VOC	30 TAC Chapter	§ 115.122(a)(2)	Any vent gas streams	[G]§ 115.125	§ 115.126	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)
		VENT053		115, Vent Gas Controls	§ 115.121(a)(2) § 115.122(a)(2)(B)	affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	§ 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2) ** See CAM Summary	§ 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	
T-1108	EP	60NNN-00011	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.662(a)	Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater.	§ 60.13(i) § 60.663(a) § 60.663(a)(1) § 60.663(a)(1)(i) § 60.664(a) § 60.664(b) § 60.664(b)(1) § 60.664(b)(2) § 60.664(b)(3) § 60.664(b)(4) [G]§ 60.664(b)(4) § 60.703(a)(2) § 60.703(a)(2)(i) § 60.703(a)(2)(ii) ** See Alternative Requirement ** See CAM Summary	§ 60.663(a)(1) § 60.663(a)(2) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(c) § 60.665(c)(1) § 60.665(k) § 60.705(d) § 60.705(d)(1) § 60.705(d)(2)	§ 60.665(a) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(c) § 60.665(c)(1) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.705(l) § 60.705(l)(2) § 60.705(l)(7)
T-1109A	EP	115-VENT053	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(B)	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 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)
T-1109A	EP	60NNN-00011	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.662(a)	Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater.	§ 60.13(i) § 60.663(a) § 60.663(a)(1) § 60.663(a)(1)(i) § 60.664(a) § 60.664(b) § 60.664(b)(1) § 60.664(b)(2) § 60.664(b)(3) [G]§ 60.664(b)(4) § 60.703(a)(2) § 60.703(a)(2)(i) § 60.703(a)(2)(ii) ** See Alternative Requirement ** See CAM Summary	§ 60.663(a)(1) § 60.663(a)(2) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(c) § 60.665(c)(1) § 60.665(k) § 60.705(d) § 60.705(d)(1) § 60.705(d)(2)	§ 60.665(a) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(c) § 60.665(c)(1) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.705(l) § 60.705(l)(2) § 60.705(l)(7)
T-1109B	EP	115-VENT053	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(B)	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	None
T-1109B	EP	60NNN-00011	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.662(a)	Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater.	§ 60.13(i) § 60.663(a) § 60.663(a)(1) § 60.663(a)(1)(i) § 60.664(a) § 60.664(b) § 60.664(b)(1) § 60.664(b)(2) § 60.664(b)(3) [G]§ 60.664(b)(4)	§ 60.663(a)(1) § 60.663(a)(2) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(c) § 60.665(c)(1) § 60.705(d) § 60.705(d)(1) § 60.705(d)(2)	§ 60.665(a) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(c) § 60.665(c)(1) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.705(l) § 60.705(l)(2)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 60.703(a)(2) § 60.703(a)(2)(i) § 60.703(a)(2)(ii) ** See Alternative Requirement ** See CAM Summary		§ 60.705(l)(7)
THOX-Y1170	EP	111-VENT00015	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
THOX-Y1170	EU	117B-THOX0100	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(A) § 117.340(f)(1)	CO emissions must not exceed 400 ppmv at 3.0% O ₂ , dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(3) § 117.335(g) § 117.340(a)(2)(A) § 117.340(e) [G]§ 117.340(f)(2) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(ii)) § 117.8100(a)(1)(B)(iii)) § 117.8100(a)(1)(C) § 117.8100(a)(2)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(2) § 117.345(f)(7) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(2) § 117.345(d)(3) § 117.345(d)(4) § 117.345(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							[G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A)		
THOX-Y1170	EU	117B-THOX0100	NO _x	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) [G]§ 117.310(a)(16) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO _x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a)(2)(A) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii)) § 117.8100(a)(1)(C) § 117.8100(a)(2)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9) § 117.8100(a)(5)(C)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							[G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)		
TK-1117	EU	115TK-00053	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
TK-1124	EU	115TK-00056	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(3) § 115.112(e)(3)(A) § 115.112(e)(3)(A)(ii)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.115(a) § 115.115(a)(1) § 115.116(a)(1) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(A) § 115.118(a)(5) § 115.118(a)(7)	None
TK-1133	EU	115TK-00053	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						1.5 psia is exempt from the requirements of this division.			
TK-1138	EU	115TK-00056	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(3) § 115.112(e)(3)(A) § 115.112(e)(3)(A)(ii)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.115(a) § 115.115(a)(1) § 115.116(a)(1) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(A) § 115.118(a)(5) § 115.118(a)(7)	None
TK-1139	EU	115TK-00056	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(3) § 115.112(e)(3)(A) § 115.112(e)(3)(A)(ii)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.115(a) § 115.115(a)(1) § 115.116(a)(1) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(A) § 115.118(a)(5) § 115.118(a)(7)	None
TK-1141	EU	115TK-	VOC	30 TAC Chapter	§ 115.111(a)(1)	Except as provided in §	[G]§ 115.117	§ 115.118(a)(1)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
		00051		115, Storage of VOCs		115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.		§ 115.118(a)(5) § 115.118(a)(7)	
TK-1145A	EU	115TK-00056	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(3) § 115.112(e)(3)(A) § 115.112(e)(3)(A)(ii)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.115(a) § 115.115(a)(1) § 115.116(a)(1) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(A) § 115.118(a)(5) § 115.118(a)(7)	None
TK-1145B	EU	115TK-00051	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK-1145C	EU	115TK-00056	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(3) § 115.112(e)(3)(A) § 115.112(e)(3)(A)(ii)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the	§ 115.115(a) § 115.115(a)(1) § 115.116(a)(1) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(A) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.			
TK-1147	EU	115TK-00051	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK-1149B	EU	115TK-00051	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK-1160A	EU	115WW-00010	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(A) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	[G]§ 115.142(1)(H) § 115.144(3)(A) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK-1160B	EU	115WW-00010	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(A) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	[G]§ 115.142(1)(H) § 115.144(3)(A) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None
TK-1160C	EU	115TK-00051	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK-1160D	EU	115TK-00051	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK-1161	EU	115WW-00010	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(A) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3)	[G]§ 115.142(1)(H) § 115.144(3)(A) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148		
TK-1161	EU	60Kb-00434	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3)	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).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b
TK-1172A	EU	115TK-00051	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK-1172B	EU	115TK-00051	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TK-1501	EU	115TK-00051	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						division.			
TK-1502	EU	115TK-00051	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
TK-1503	EU	115TK-00051	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
TK-1510	EU	115WW-00010	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(A) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	[G]§ 115.142(1)(H) § 115.144(3)(A) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None
TK-1703	EU	115TK-00051	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
TK-1901	EU	115TK-00052	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
TK-1902	EU	115TK-00051	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
TK-1908	EU	115WW-00010	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(A) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	[G]§ 115.142(1)(H) § 115.144(3)(A) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None
TK-1908	EU	60Kb-00434	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3)	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).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							Monitoring Summary		

Additional Monitoring Requirements

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CAM Summary

Unit/Group/Process Information	
ID No.: R-1002A	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: 115-VENT053
Pollutant: VOC	Main Standard: § 115.122(a)(2)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: four times per hour	
Averaging Period: three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: R-1002A	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart III	SOP Index No.: 60III-00001
Pollutant: VOC/TOC	Main Standard: § 60.612(a)
Monitoring Information	
Indicator: Combustion temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three Hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: R-1002B	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: 115-VENT053
Pollutant: VOC	Main Standard: § 115.122(a)(2)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: R-1002B	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart III	SOP Index No.: 60III-00001
Pollutant: VOC/TOC	Main Standard: § 60.612(a)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1101	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: 115-VENT053
Pollutant: VOC	Main Standard: § 115.122(a)(2)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1102	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: 115-VENT053
Pollutant: VOC	Main Standard: § 115.122(a)(2)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1102	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart NNN	SOP Index No.: 60NNN-00011
Pollutant: VOC/TOC	Main Standard: § 60.662(a)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1104	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: 115-VENT053
Pollutant: VOC	Main Standard: § 115.122(a)(2)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times an hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1104	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart NNN	SOP Index No.: 60NNN-00011
Pollutant: VOC/TOC	Main Standard: § 60.662(a)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1105	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: 115-VENT053
Pollutant: VOC	Main Standard: § 115.122(a)(2)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1105	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart NNN	SOP Index No.: 60NNN-00011
Pollutant: VOC/TOC	Main Standard: § 60.662(a)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1107	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: 115-VENT053
Pollutant: VOC	Main Standard: § 115.122(a)(2)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1107	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart NNN	SOP Index No.: 60NNN-00011
Pollutant: VOC/TOC	Main Standard: § 60.662(a)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1108	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: 115-VENT053
Pollutant: VOC	Main Standard: § 115.122(a)(2)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1108	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart NNN	SOP Index No.: 60NNN-00011
Pollutant: VOC/TOC	Main Standard: § 60.662(a)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1109A	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: 115-VENT053
Pollutant: VOC	Main Standard: § 115.122(a)(2)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1109A	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart NNN	SOP Index No.: 60NNN-00011
Pollutant: VOC/TOC	Main Standard: § 60.662(a)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1109B	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: 115-VENT053
Pollutant: VOC	Main Standard: § 115.122(a)(2)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: T-1109B	
Control Device ID No.: THOX-Y1170	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart NNN	SOP Index No.: 60NNN-00011
Pollutant: VOC/TOC	Main Standard: § 60.662(a)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <p>± 0.75 % of the temperature being measured expressed in degrees Celsius; or</p> <p>± 2.5 degrees Celsius.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: THOX-Y1170	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: 111-VENT00015
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per week	
Averaging Period: N/A	
Deviation Limit: Opacity of visible emissions observed shall not exceed 15% averaged over a six-minute period.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: TK-1161	
Control Device ID No.: THOX-1907	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-00434
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Once per week	
Averaging Period: n/a*	
Deviation Limit: Maintain a minimum three hour average combustion temperature of 760 degrees Celsius.	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: TK-1908	
Control Device ID No.: THOX-1907	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-00434
Pollutant: VOC	Main Standard: [G]§ 60.112b(a)(3)
Monitoring Information	
Indicator: Combustion Temperature/ Exhaust Gas Temperature	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum temperature at least 819C.	
<p>Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p>	

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
AA-HRSG	N/A	40 CFR Part 60, Subpart Db	The facility does not meet the definition of a "Steam Generating Unit".
BOIL-Y1801	N/A	30 TAC Chapter 112, Sulfur Compounds	Solid fossil fuel or liquid fuel is not fired.
BOIL-Y1801	N/A	40 CFR Part 60, Subpart D	Maximum design heat input capacity is less than 250 MMB/hr.
BOIL-Y1801	N/A	40 CFR Part 60, Subpart Da	Steam generating unit does not meet the definition of an electric utility steam generating unit as defined by 40 CFR Subpart Da.
BOIL-Y1801	N/A	40 CFR Part 60, Subpart Dc	Maximum design heat input capacity is greater than 100 MMBtu/hr.
CLF-1601	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 101.1(108).
CLF-1601	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
CLF-1601	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
CLF-1601	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
CLF-1603A	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 101.1(108).
CLF-1603A	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
CLF-1603A	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23,

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			1984.
CLF-1603A	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile liquids.
CLF-1603B	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 101.1(108).
CLF-1603B	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
CLF-1603B	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
CLF-1603B	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
DIESEL-TK2	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
DIESEL-TK2	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
DIESEL-TK2	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
DIESEL-TNK	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
DIESEL-TNK	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
DIESEL-TNK	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
FUELDSIP	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Facility does not meet the definition of a “motor vehicle fuel dispensing facility”. The facility does not dispense fuel to vehicles traveling on a street or highway.
GAS-TK	N/A	30 TAC Chapter 115, Storage of VOCs	The capacity of the vessel is less than or equal to 1,000 gallons.
GAS-TK	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
GAS-TK	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
GAS-TK	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
LUBE-TK	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
LUBE-TK	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
LUBE-TK	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
PAINT-1	N/A	30 TAC Chapter 115, Surface Coating Operations	Aerosol coatings (spray paint) are exempt from 30 TAC Chapter 115.
POND-FW	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 101.1(108).
POND-FW	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19,

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			1978.
POND-FW	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
POND-FW	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
POND-SLG	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 101.1(108).
POND-SLG	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
POND-SLG	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
POND-SLG	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
R-1002A	N/A	40 CFR Part 60, Subpart RRR	The reactor is not an affected facility because it does not meet the definition of a reactor process as defined in 40 CFR §60.701.
R-1002B	N/A	40 CFR Part 60, Subpart RRR	The reactor is not an affected facility because it does not meet the definition of a reactor process as defined in 40 CFR §60.701.
SM-1176	N/A	30 TAC Chapter 115, Industrial Wastewater	Does not meet the definition of an affected VOC wastewater stream.
SM-1180	N/A	30 TAC Chapter 115, Industrial Wastewater	Does not meet the definition of an affected VOC wastewater stream.
SM-1182	N/A	30 TAC Chapter 115, Industrial Wastewater	Does not meet the definition of an affected VOC wastewater stream.

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
SM-1183	N/A	30 TAC Chapter 115, Industrial Wastewater	Does not meet the definition of an affected VOC wastewater stream.
SM-1909	N/A	30 TAC Chapter 115, Industrial Wastewater	Does not meet the definition of an affected VOC wastewater stream.
SM-1916	N/A	30 TAC Chapter 115, Industrial Wastewater	Does not meet the definition of an affected VOC wastewater stream.
SM-1925	N/A	30 TAC Chapter 115, Industrial Wastewater	Does not meet the definition of an affected VOC wastewater stream.
SUMP-LAB	N/A	30 TAC Chapter 115, Industrial Wastewater	Does not meet the definition of an affected VOC wastewater stream.
SUMP-MAINT	N/A	30 TAC Chapter 115, Industrial Wastewater	Does not meet the definition of an affected VOC wastewater stream.
T-1101	N/A	40 CFR Part 60, Subpart RRR	The reactor is not an affected facility because it does not meet the definition of a reactor process as defined in 40 CFR 60.701.
THOX-Y1907	N/A	30 TAC Chapter 117, Subchapter B	Incinerator less than 40 MMBtu/hr.
TK-1005B	N/A	30 TAC Chapter 115, Storage of VOCs	Tank vessel does not store a VOC as defined by 101.1(108).
TK-1005B	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1005B	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1005B	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
TK-1117	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1117	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1117	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure of liquid stored is less than 0.5 psi.
TK-1124	N/A	40 CFR Part 60, Subpart K	Construction and any modification or reconstruction all commenced after May 19, 1978.
TK-1124	N/A	40 CFR Part 60, Subpart Ka	Construction and any modification or reconstruction all commenced after July 23, 1984.
TK-1124	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is between 19,812 and 39,900 gallons and maximum true vapor pressure of liquid stored is less than 2.0 psi.
TK-1133	N/A	40 CFR Part 60, Subpart K	Construction and any modification or reconstruction all commenced after May 19, 1978.
TK-1133	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1133	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure of liquid stored is less than 0.5 psi.
TK-1138	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions after May 19, 1978.

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
TK-1138	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1138	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1139	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1139	N/A	40 CFR Part 60, Subpart Ka	Construction and any reconstructions all commenced after July 23, 1984.
TK-1139	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1141	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1141	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1141	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19, 812 gallons.
TK-1145A	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1145A	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1145A	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1145B	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19,

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			1978.
TK-1145B	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1145B	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1145C	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1145C	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications of reconstructions commenced after July 23, 1984.
TK-1145C	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1147	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1147	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1147	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1149A1	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by §101.1(108).
TK-1149A1	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1149A1	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
TK-1149A1	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
TK-1149A2	N/A	30 TAC Chapter 115, Storage of VOCs	Tank vessel does not store a VOC as defined by 101.1(108).
TK-1149A2	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1149A2	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1149A2	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
TK-1149B	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1149B	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1149B	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1160A	N/A	30 TAC Chapter 115, Storage of VOCs	Tank is an industrial wastewater storage facility that stores material other than crude oil, condensate, or VOC.
TK-1160A	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1160A	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			1984.
TK-1160A	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1160B	N/A	30 TAC Chapter 115, Storage of VOCs	Tank is an industrial wastewater storage facility that stores material other than crude oil, condensate, or VOC.
TK-1160B	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1160B	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1160B	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1160C	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1160C	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1160C	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1160D	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1160D	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1160D	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
TK-1161	N/A	30 TAC Chapter 115, Storage of VOCs	Tank is an industrial wastewater storage facility that stores material other than crude oil, condensate, or VOC.
TK-1161	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1161	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1172A	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1172A	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1172A	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1172B	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1172B	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1172B	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1501	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
TK-1501	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1501	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure of liquid stored is less than 0.5 psi.
TK-1502	N/A	40 CFR Part 60, Subpart K	Construction and any modification or reconstructions all commenced after May 19, 1978.
TK-1502	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1502	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure of liquids stored is less than 0.5 psia.
TK-1503	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1503	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1503	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure of liquid stored is less than 0.5 psi.
TK-1507	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
TK-1507	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
TK-1507	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1507	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
TK-1510	N/A	30 TAC Chapter 115, Storage of VOCs	Tank is an industrial wastewater storage facility that stores material other than crude oil, condensate, or VOC.
TK-1510	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1510	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1510	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1604	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
TK-1604	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1604	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1604	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
TK-1605	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
TK-1605	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			reconstructions all commenced after May 19, 1978.
TK-1605	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1605	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
TK-1606	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
TK-1606	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1606	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1606	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
TK-1607	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
TK-1607	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1607	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1607	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
TK-1610	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
TK-1610	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1610	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1610	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
TK-1614	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
TK-1614	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1614	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1614	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
TK-1625	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
TK-1625	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1625	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1625	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
TK-1630	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			by 30 TAC 101.1(116).
TK-1630	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1630	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1630	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
TK-1703	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1703	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1703	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1901	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1901	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1901	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is between 19,812 and 39,900 gallons and maximum true vapor pressure of liquid stored is less than 2.2 psi.
TK-1902	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19,

Permit Shield

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			1978.
TK-1902	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1902	N/A	40 CFR Part 60, Subpart Kb	Maximum true vapor pressure of liquid stored is less than 0.5 psi.
TK-1906	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
TK-1906	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1906	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1906	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
TK-1907	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
TK-1907	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1907	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1907	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
TK-1908	N/A	30 TAC Chapter 115, Storage of VOCs	Tank is an industrial wastewater storage facility that stores material other than crude oil,

Permit Shield

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			condensate, or VOC.
TK-1908	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1908	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1926	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
TK-1926	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
TK-1926	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
TK-1926	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
V-1001	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1001	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1001	N/A	40 CFR Part 60, Subpart Kb	Vessel designed to operate in excess of 204.9 kPa without emissions to the atmosphere.
V-1002	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19,

Permit Shield

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			1978.
V-1002	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1002	N/A	40 CFR Part 60, Subpart Kb	Vessel to operate in excess of 204.9 kPa without emissions to the atmosphere.
V-1005A	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
V-1005A	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1005A	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1005A	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1005B	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
V-1005B	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1005B	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1005B	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1040	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 101.1(108).

Permit Shield

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
V-1040	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 1978.
V-1040	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1040	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1070	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1070	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1070	N/A	40 CFR Part 60, Subpart Kb	Vessel designed to operate in excess of 204.9 kPa without emissions to the atmosphere.
V-1101	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
V-1101	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1101	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1101	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1167	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.

Permit Shield

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
V-1167	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1167	N/A	40 CFR Part 60, Subpart Kb	Vessel designed to operate in excess of 204.9 kPa without emissions to the atmosphere.
V-1169	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1169	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1169	N/A	40 CFR Part 60, Subpart Kb	Vessel designed to operate in excess of 204.9 kPa without emissions to the atmosphere.
V-1171	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 101.1(108).
V-1171	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1171	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1171	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1173	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
V-1173	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19,

Permit Shield

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			1978.
V-1173	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1173	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1174	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
V-1174	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1174	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after May 23, 1984.
V-1174	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1501	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1501	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1501	N/A	40 CFR Part 60, Subpart Kb	Vessel designed to operate in excess of 204.9 kPa without emissions to the atmosphere.
V-1502	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1502	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or

Permit Shield

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			reconstructions all commenced after July 23, 1984.
V-1502	N/A	40 CFR Part 60, Subpart Kb	Vessel designed to operate in excuse of 204.9 kPa without emissions to the atmosphere.
V-1503	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1503	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1503	N/A	40 CFR Part 60, Subpart Kb	Vessel designed to operate in excess of 204.9 kPa without emissions to the atmosphere.
V-1605	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
V-1605	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1605	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1605	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1609	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
V-1609	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.

Permit Shield

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
V-1609	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1609	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1621A	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1621A	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1621A	N/A	40 CFR Part 60, Subpart Kb	Vessel designed to operate in excess of 204.9 kPa without emissions to the atmosphere.
V-1621B	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1621B	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1621B	N/A	40 CFR Part 60, Subpart Kb	Vessel designed to operate in excess of 204.9 kPa without emissions to the atmosphere.
V-1622A	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1622A	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.

Permit Shield

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
V-1622A	N/A	40 CFR Part 60, Subpart Kb	Vessel designed to operate in excess of 204.9 kPa without emissions to the atmosphere.
V-1622B	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1622B	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1622B	N/A	40 CFR Part 60, Subpart Kb	Vessel designed to operate in excess of 204.9 kPa without emissions to the atmosphere.
V-1713	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1713	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1713	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
V-1714	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1714	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after May 23, 1984.
V-1714	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
V-1723	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19,

Permit Shield

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			1978.
V-1723	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1723	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
V-1733	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1733	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1733	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,812 gallons.
V-1801	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
V-1801	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1801	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1801	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1802	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
V-1802	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.

Permit Shield

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
V-1802	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1802	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1803	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
V-1803	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1803	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1803	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1805A	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
V-1805A	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1805A	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1805A	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1805B	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
V-1805B	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19,

Permit Shield

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			1978.
V-1805B	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1805B	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1806A	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
V-1806A	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1806A	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1806A	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1806B	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).
V-1806B	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1806B	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1806B	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1807	N/A	30 TAC Chapter 115, Storage of VOCs	Tank or vessel does not store a VOC as defined by 30 TAC 101.1(116).

Permit Shield

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
V-1807	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1807	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1807	N/A	40 CFR Part 60, Subpart Kb	Vessel does not store volatile organic liquids.
V-1905	N/A	40 CFR Part 60, Subpart K	Construction and any modifications or reconstructions all commenced after May 19, 1978.
V-1905	N/A	40 CFR Part 60, Subpart Ka	Construction and any modifications or reconstructions all commenced after July 23, 1984.
V-1905	N/A	40 CFR Part 60, Subpart Kb	Vessel designed to operate in excess of 204.9 kPa without emissions to the atmosphere.

New Source Review Authorization References

New Source Review Authorization References 127

New Source Review Authorization References by Emission Unit..... 128

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.

Nonattainment (NA) Permits	
NA Permit No.: N009	Issuance Date: 10/16/2025
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 37979	Issuance Date: 10/16/2025
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.433	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**
AA-FUG	AA UNIT FUGITIVES	37979, N009, 106.262/11/01/2003 [173079]
AA-HRSG	HRSG UNIT	37979, N009
AA-SITE	ACRYLIC ACID/OSBL ACCOUNT SITE-WIDE REQUIREMENTS	37979, N009
AA-UNIT	CHEMICAL MANUFACTURING PROCESS UNIT (CMPU)	37979, N009
BOIL-Y1801	OSBL 30-BAR START-UP STEAM PACKAGE BOILER	37979, N009
CLF-1601	LAMELLA CLARIFIER	37979, N009
CLF-1603A	TRIMITE A CLARIFIER	37979, N009
CLF-1603B	TRIMITE B CLARIFIER	37979, N009
DIESEL-TK2	CONTRACTOR OFF-ROAD DIESEL DISPENSING TANKS	37979, N009
DIESEL-TNK	OSBL DIESEL STORAGE TANKS FOR FIREWATER PUMPS	37979, N009
FIRE-PUMPS	OSBL FIREWATER PUMP ENGINES	37979, N009
FUELSIP	CONTRACTOR OFF-ROAD FUEL DISPENSING	37979, N009
GAS-TK	CONTRACTOR OFF-ROAD GASOLINE DISPENSING TANKS	37979, N009
LUBE-TK	CONTRACTOR OFF-ROAD LUBE OIL DISPENSING TANK	37979, N009
OS-FUG	OSBL FUGITIVES	37979, N009
OS-LOADFUG	TRUCK LOADING	37979, N009
OS-UNLOAD	OS UNLOADING OPERATIONS	37979, N009
PAINT-1	SURFACE COATING OPERATIONS	106.433/09/04/2000 [70730]
POND-FW	FIREWATER POND	37979, N009
POND-SLG	SLUDGE POND	37979, N009
R-1002A	AA OXIDATION REACTOR A	37979, N009

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**
R-1002B	AA OXIDATION REACTOR B	37979, N009
SM-1176	AA REACTION AREA SUMP	37979, N009
SM-1180	AA SUMP	37979, N009
SM-1182	AA PURIFICATION NORTH SUMP	37979, N009
SM-1183	AA PURIFICATION SOUTH SUMP	37979, N009
SM-1909	WEST UTILITY AREA SUMP	37979, N009
SM-1916	WASTE PRODUCT STORAGE AREA SUMP	37979, N009
SM-1925	STEAM BOILER AREA SUMP	37979, N009
SUMP-LAB	LABORATORY SUMP	37979, N009
SUMP-MAINT	MAINTENANCE BUILDING SUMP	37979, N009
T-1101	AA ABSORBING COLUMN	37979, N009
T-1102	AA STRIPPING DISTILLATION COLUMN	37979, N009
T-1104	AA SOLVENT RECOVERY DISTILLATION COLUMN	37979, N009
T-1105	AA WATER SEPARATION DISTILLATION COLUMN	37979, N009
T-1107	AA HEAVY ENDS CUT DISTILLATION COLUMN	37979, N009
T-1108	AA MALEIC ANHYDRIDE SEPARATION DISTILLATION COLUMN	37979, N009
T-1109A	AA RECTIFYING DISTILLATION COLUMN	37979, N009
T-1109B	AA RECOVERY DISTILLATION COLUMN	37979, N009
THOX-Y1170	AA THERMAL OXIDIZER	37979, N009, 106.261/11/01/2003 [164564]
THOX-Y1907	OSBL THERMAL OXIDIZER	37979, N009
TK-1005B	AA HTS SEAL POT	37979, N009

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**
TK-1117	T-1107 FEED TANK	37979, N009
TK-1124	T-1105 REFLUX TANK	37979, N009
TK-1133	T-1105 FEED TANK	37979, N009
TK-1138	DIMER DECOMPOSING TANK	37979, N009
TK-1139	WASTE WATER TANK	37979, N009
TK-1141	T-1141 INHIBITOR TANK A	37979, N009
TK-1145A	T-1145 INHIBITOR TANK A	37979, N009
TK-1145B	T-1145 INHIBITOR TANK B	37979, N009
TK-1145C	T-1145 INHIBITOR TANK C	37979, N009
TK-1147	T-1147 INHIBITOR TANK	37979, N009
TK-1149A1	CHEMICAL TANK 1	37979, N009
TK-1149A2	CHEMICAL TANK 2	37979, N009
TK-1149B	T-1149B INHIBITOR TANK	37979, N009
TK-1160A	EJECTOR SEAL/AA RECOVERY TANK	37979, N009
TK-1160B	AA PROCESS WATER TANK	37979, N009
TK-1160C	EJECTOR SEAL/AA RECOVERY TANK	37979, N009
TK-1160D	LIQUID RECOVERY TANK	37979, N009
TK-1161	AA WASTEWATER STORAGE TANK	37979, N009
TK-1172A	AA CLEANING VAT	37979, N009
TK-1172B	AA FILTER CLEANER	37979, N009
TK-1501	OSBL TECHNICAL GRADE AA STORAGE TANK	37979, N009

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**
TK-1502	OSBL TECHNICAL GRADE AA STORAGE TANK	37979, N009
TK-1503	OSBL GLACIAL GRADE AA STORAGE TANK	37979, N009
TK-1507	OSBL TEMPERED WATER TANK	37979, N009
TK-1510	OSBL TANK FARM DRAIN STORAGE TANK	37979, N009
TK-1604	OSBL SERVICE WATER STORAGE TANK	37979, N009
TK-1605	OSBL POTABLE WATER TANK	37979, N009
TK-1606	OSBL DEMINERALIZATION WATER STORAGE TANK	37979, N009
TK-1607	OSBL DEMINERALIZATION BLOWDOWN TANK	37979, N009
TK-1610	OSBL H2SO4/NAOH NEUTRALIZATION STORAGE TANK	37979, N009
TK-1614	OSBL H2SO4/NAOH NEUTRALIZATION STORAGE TANK	37979, N009
TK-1625	TRIMITE SHC TANK	37979, N009
TK-1630	RAW WATER TANK	37979, N009
TK-1703	OSBL ETHYLENE GLYCOL AND WATER STORAGE TANK	37979, N009
TK-1901	OSBL BA LIGHTS/HEAVIES STORAGE TANK	37979, N009
TK-1902	OSBL TAA/GAA HEAVIES STORAGE TANK	37979, N009
TK-1906	OSBL SANITARY COLLECTION TANK #1	37979, N009
TK-1907	OSBL UTILITY BLOWDOWN/STORM WATER STORAGE TANK	37979, N009
TK-1908	OSBL POTW WASTEWATER STORAGE TANK	37979, N009
TK-1926	OSBL SANITARY COLLECTION TANK #2	37979, N009
V-1001	AA FEED GAS MIXER	37979, N009
V-1002	AA B-1001A SUCTION DRUM	37979, N009

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**
V-1005A	AA HTS EXPANSION DRUM	37979, N009
V-1005B	AA HTS HOLDER	37979, N009
V-1040	AA N2 HOLDER	37979, N009
V-1070	AA PROPYLENE METERING TANK	37979, N009
V-1101	AA T-1101 EMERGENCY WATER TANK	37979, N009
V-1167	AA BAROMETRIC CONDENSER	37979, N009
V-1169	AA BAROMETRIC CONDENSER	37979, N009
V-1171	AA OXYGEN STORAGE TANK	37979, N009
V-1173	AA STEAM CONDENSATE COLLECTION VESSEL	37979, N009
V-1174	AA BOILER BLOWDOWN COLLECTION VESSEL	37979, N009
V-1501	TAA EMERGENCY INHIBITOR TANK	37979, N009
V-1502	TAA EMERGENCY INHIBITOR TANK	37979, N009
V-1503	GAA EMERGENCY INHIBITOR TANK	37979, N009
V-1605	POTABLE WATER PRESSURE TANK	37979, N009
V-1609	OSBL H2SO4/NAOH NEUTRALIZATION STORAGE TANK	37979, N009
V-1621A	CATION EXCHANGER A	37979, N009
V-1621B	CATION EXCHANGER B	37979, N009
V-1622A	ANION EXCHANGER A	37979, N009
V-1622B	ANION EXCHANGER B	37979, N009
V-1713	OIL SEPARATOR FOR C-1703A	37979, N009
V-1714	OIL SEPARATOR FOR C-1703B	37979, N009

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**
V-1723	OIL DISTILLER	37979, N009
V-1733	REFRIGERANT RECEIVER	37979, N009
V-1801	OXYGEN POOR AIR RECEIVER	37979, N009
V-1802	STEAM DRUM	37979, N009
V-1803	DEAERATOR	37979, N009
V-1805A	MOISTURE TRAP A	37979, N009
V-1805B	MOISTURE TRAP B	37979, N009
V-1806A	INSTRUMENT AIR DRYER A	37979, N009
V-1806B	INSTRUMENT AIR DRYER B	37979, N009
V-1807	INSTRUMENT AIR RECEIVER	37979, N009
V-1905	OSBL/BA VENT GAS WATER SEAL DRUM	37979, N009

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

Alternative Requirement

Alternative Requirement..... 135



File: AR. AA/OSBL NSPS

cc: RWA

PR 620.50

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

JUN 04 2003

Mr. Harry Lewis
Environmental Manager
American Acryl LP
12100 Port Road
Pasadena, Texas 77507

AMERICANACRYL
HES DEPARTMENT

DATE JUN 12 2003

Re: Request for Approval - Alternative Monitoring Plan,
New Source Performance Standards (NSPS) 40 CFR Part 60,
Subparts A, NNN, and RRR
TCEQ Account No. HX-1772-C

Dear Mr. Lewis:

This letter is in response to your request for approval of an alternative monitoring plan (AMP), dated February 28, 2002. You said in your AMP request that you are seeking approval of the use of certain monitoring, recordkeeping, and reporting provisions of NSPS Part 60, Subpart RRR as an alternative to certain monitoring, recordkeeping, and reporting requirements in NSPS Part 60, Subpart NNN. You indicated that the AMP approval request is for specific distillation units which are affected facilities at the American Acryl Bayport Complex which are subject to NSPS Subpart NNN, 40 CFR 60.663(a)(2). These affected facilities are located at the Pasadena, Texas facility, owned and operated by American Acryl LP ("American Acryl").

Your AMP request letter, dated February 28, 2002, indicated that distillation units T-1102, T-1104, T-1105, and T-1107, T-1108, T-1109A, and T-1109B in the Acrylic Acid Unit are subject to the emission standards of NSPS Part 60, Subpart NNN, specifically 40 Code of Federal Regulations (CFR) § 60.662(a). You requested the approval of the monitoring requirements of NSPS Subpart RRR, specifically, 40 CFR 60.703(a)(2), (a)(2)(i), and (a)(2)(ii) as an alternative means of demonstrating compliance with the requirements of NSPS Subpart NNN 60.663(a)(2).

On May 1, 2002, the Texas Commission on Environmental Quality (TCEQ) forwarded your request, dated February 28, 2002, to EPA Region 6 for review. In that letter, the State agency recommended approval of your request.

Pursuant to NSPS Part 60, Subpart A at 40 CFR § 60.13(i), EPA has determined that the flow indicator provisions of NSPS Part 60, Subpart RRR at § 60.703(a)(2), (a)(2)(i), and (a)(2)(ii) are suitable as alternative flow monitoring provisions for those required under NSPS Part 60, Subpart NNN at § 60.663(a)(2) for the Acrylic Acid Unit at the American Acryl Bayport Complex's facility located at Pasadena, Texas. This approval is granted under the provisions of NSPS Part 60, Subpart A at § 60.13(i)(4), because American Acryl LP at Pasadena, Texas indicates that it can demonstrate that installation at alternative locations will enable accurate and representative measurements of vent stream bypass events.

Based on the above approval, American Acryl must comply with the recordkeeping requirements for flow indicators in NSPS Part 60, Subpart RRR at § 60.705(d), including (d)(1) and (d)(2), as an alternative to those required under NSPS Part 60, Subpart NNN at § 60.665(d).

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Also based on the above approval, American Acryl must comply with the reporting requirements for flow indicators in NSPS Part 60, Subpart RRR at § 60.705(l), including (l)(2) and (l)(7), as an alternative to those required under NSPS Part 60, Subpart NNN at § 60.665(l), including (l)(2).

In addition to the above requirements, as a condition of approval of the requested AMP, American Acryl shall meet the following requirement under NSPS Part 60, Subpart RRR at § 60.705(s):

“(s) Each owner or operator who seeks to demonstrate compliance with Sec. 60.702 (a) or (b) using a control device must maintain on file a schematic diagram of the affected vent streams, collection system(s), fuel systems, control devices, and bypass systems as part of the initial report. This schematic diagram must be retained for the life of the system.”

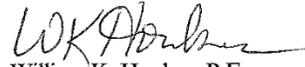
except that the applicable VOC air emission standard is NSPS Part 60, Subpart NNN at § 60.662(a). This documentation shall include the identification, location, and function of all monitoring systems and devices required under NSPS Part 60, Subpart RRR at § 60.703(a) and (a)(2). The “schematic diagram” documentation shall be submitted to the Texas Commission on Environmental Quality (TCEQ) in Austin, Texas and EPA Region 6 in Dallas, Texas, in accordance with a deadline to be established by the State agency that has been delegated by EPA the implementation and enforcement of NSPS Part 60 in the State of Texas: TCEQ.

This approval of an AMP determination is based on the information submitted to TCEQ on February 28, 2002 and forwarded by TCEQ to EPA Region 6 on May 1, 2002. If any information is found that would reverse this determination, then it would become invalid and a new determination would be needed.

Alternative monitoring system determinations for other process units subject to NSPS Part 60 are to be addressed on a request-by-request basis. Also, this alternative monitoring system determination was coordinated with EPA's Office of Compliance in Washington, D.C. and with EPA's Emission Standards Division, Organic Chemicals Group in Research Triangle Park, North Carolina.

If you have any questions concerning this determination, please contact Ms. Anupa Ahuja of my staff, at (214) 665-2701.

Sincerely yours,



William K. Honker, P.E.
Chief
Air/Toxics and Inspection
Coordination Branch

cc: Olga Salinas (MC 171)
(TCEQ @ Austin, TX)

Jeff Greif (MC 171)
(TCEQ @ Austin, TX)

Marcia Mia (MC 2223A)
(EPA, OECA, OC, CCSMD, CIB)

Warren Johnson (MC C504-04)
(EPA, OAQPS, ESD, OCG)

File: AR Air, AAOSBL NSPS Notificin

cc: RWA

PR 620.50



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

AMERICANACRYL
HES DEPARTMENT

JUN 12 2003

DATE JUN 23 2003

Mr. Harry Lewis
Environmental Manager
American Acryl LP
12100 Port Road
Pasadena, Texas 77507

Re: Request for Approval - Alternative Monitoring Plan,
New Source Performance Standards (NSPS) 40 CFR Part 60,
Subparts III and RRR TCEQ Account No. HX-1772-C and HX-1773-A

Dear Mr. Lewis:

This letter is in response to your request for approval of an alternative monitoring plan (AMP), dated February 28, 2002. You said in your AMP request that you are seeking approval of the use of certain monitoring, recordkeeping, and reporting provisions of NSPS Part 60, Subpart RRR as an alternative to certain monitoring, recordkeeping, and reporting requirements in NSPS Part 60, Subpart III. These affected facilities are located at the Pasadena, Texas facility, owned and operated by American Acryl LP ("American Acryl").

Your AMP request letter, dated February 28, 2002, indicated that the Reactors and Recovery system (R1002A, R-1002B, and T1101) in the Acrylic Acid Unit are subject to the emission standards of NSPS Part 60, Subpart III, specifically 40 Code of Federal Regulations (CFR) § 60.612(a). You requested the approval of the monitoring requirements of NSPS Subpart RRR, specifically, 40 CFR 60.703(a)(2), (a)(2)(i), and (a)(2)(ii) as an alternative means of demonstrating compliance with the requirements of NSPS Subpart III 60.613(a)(2).

On May 1, 2002, the Texas Commission on Environmental Quality (TCEQ) forwarded your request, dated February 28, 2002, to EPA Region 6 for review. In that letter, the State agency recommended approval of your request.

Pursuant to NSPS Part 60, Subpart A at 40 CFR § 60.13(i), EPA has determined that the flow indicator provisions of NSPS Part 60, Subpart RRR at § 60.703(a)(2), (a)(2)(i), and (a)(2)(ii) are suitable as alternative flow monitoring provisions for those required under NSPS Part 60, Subpart III at § 60.613(a)(2) for affected facilities the Acrylic Acid Unit at the American Acryl Bayport Complex's facility located at Pasadena, Texas. This approval is granted under the provisions of NSPS Part 60, Subpart A at § 60.13(i)(4), because American Acryl LP at Pasadena, Texas indicates that it can demonstrate that installation at alternative locations will enable accurate and representative measurements of vent stream bypass events.

Based on the above approval, American Acryl must comply with the recordkeeping requirements for flow indicators in NSPS Part 60, Subpart RRR at § 60.705(d), including (d)(1) and (d)(2).

Also based on the above approval, American Acryl must comply with the reporting requirements for flow indicators in NSPS Part 60, Subpart RRR at § 60.705(l), including (l)(2) and (l)(7).

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In addition to the above requirements, as a condition of approval of the requested AMP, American Acryl shall meet the following requirement under NSPS Part 60, Subpart RRR at § 60.705(s):

“(s) Each owner or operator who seeks to demonstrate compliance with Sec. 60.702 (a) or (b) using a control device must maintain on file a schematic diagram of the affected vent streams, collection system(s), fuel systems, control devices, and bypass systems as part of the initial report. This schematic diagram must be retained for the life of the system.”

except that the applicable VOC air emission standard is NSPS Part 60, Subpart III at § 60.612(a). This documentation shall include the identification, location, and function of all monitoring systems and devices required under NSPS Part 60, Subpart RRR at § 60.703(a) and (a)(2). The “schematic diagram” documentation shall be submitted to the Texas Commission on Environmental Quality (TCEQ) in Austin, Texas and EPA Region 6 in Dallas, Texas, in accordance with a deadline to be established by the State agency that has been delegated by EPA the implementation and enforcement of NSPS Part 60 in the State of Texas: TCEQ.

This approval of an AMP determination is based on the information submitted to TCEQ on February 28, 2002 and forwarded by TCEQ to EPA Region 6 on May 1, 2002. If any information is found that would reverse this determination, then it would become invalid and a new determination would be needed.

Alternative monitoring system determinations for other process units subject to NSPS Part 60 are to be addressed on a request-by-request basis. Also, this alternative monitoring system determination was coordinated with EPA's Office of Compliance in Washington, D.C. and with EPA's Emission Standards Division, Organic Chemicals Group in Research Triangle Park, North Carolina.

If you have any questions concerning this determination, please contact Ms. Anupa Ahuja of my staff, at (214) 665-2701.

Sincerely yours,


William K. Honker, P.E.
Chief
Air/Toxics and Inspection
Coordination Branch

cc: Olga Salinas (MC 171)
(TCEQ @ Austin, TX)

Jeff Greif (MC 171)
(TCEQ @ Austin, TX)

Marcia Mia (MC 2223A)
(EPA, OECA, OC, CCSMD, CIB)

Warren Johnson (MC C504-04)
(EPA, OAQPS, ESD, OCG)



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

File: AR. ~~11758~~ NSPS
cc: RWA

JUN 04 2003

AMERICANACRYL
RES DEPARTMENT

Mr. Harry Lewis
Environmental Manager
ATOFINA Chemicals, Inc.
12100 Port Road
Pasadena, Texas 77507

DATE JUN 12 2003

Re: Request for Approval - Alternative Monitoring Plan,
New Source Performance Standards (NSPS) 40 CFR Part 60,
Subparts A, NNN, and RRR
TCEQ Account No. HX-1773-A

Dear Mr. Lewis:

This letter is in response to your request for approval of an alternative monitoring plan (AMP), dated February 28, 2002. You said in your AMP request that you are seeking approval of the use of certain monitoring, recordkeeping, and reporting provisions of NSPS Part 60, Subpart RRR as an alternative to certain monitoring, recordkeeping, and reporting requirements in NSPS Part 60, Subpart NNN. You indicated that the AMP approval request is for specific distillation units which are affected facilities at the American Acryl Bayport Complex which are subject to NSPS Subpart NNN, 40 CFR 60.663(a)(2). These affected facilities are located at the Pasadena, Texas facility, owned and operated by ATOFINA Chemicals, Inc. ("ATOFINA").

Your AMP request letter, dated February 28, 2002, indicated that distillation units T-1401, T-1405, T-1406, and T-1407 in the Butyl Acrylate Unit are subject to the emission standards of NSPS Part 60, Subpart NNN, specifically 40 Code of Federal Regulations (CFR) § 60.662(a). You requested the approval of the monitoring requirements of NSPS Subpart RRR, specifically, 40 CFR 60.703(a)(2), (a)(2)(i), and (a)(2)(ii) as an alternative means of demonstrating compliance with the requirements of NSPS Subpart NNN 60.663(a)(2).

On May 1, 2002, the Texas Commission on Environmental Quality (TCEQ) forwarded your request, dated February 28, 2002, to EPA Region 6 for review. In that letter, the State agency recommended approval of your request.

Pursuant to NSPS Part 60, Subpart A at 40 CFR § 60.13(i), EPA has determined that the flow indicator provisions of NSPS Part 60, Subpart RRR at § 60.703(a)(2), (a)(2)(i), and (a)(2)(ii) are suitable as alternative flow monitoring provisions for those required under NSPS Part 60, Subpart NNN at § 60.663(a)(2) for the Butyl Acrylate Unit at the American Acryl Bayport Complex facility located at Pasadena, Texas. This approval is granted under the provisions of NSPS Part 60, Subpart A at § 60.13(i)(4), because ATOFINA Chemicals, Inc., at Pasadena, Texas indicates that it can demonstrate that installation at alternative locations will enable accurate and representative measurements of vent stream bypass events.

Based on the above approval, ATOFINA must comply with the recordkeeping requirements for flow indicators in NSPS Part 60, Subpart RRR at § 60.705(d), including (d)(1) and (d)(2), as an alternative to those required under NSPS Part 60, Subpart NNN at § 60.663(d).

Also based on the above approval, ATOFINA must comply with the reporting requirements for flow indicators in NSPS Part 60, Subpart RRR at § 60.705(l), including (l)(2) and (l)(7), as an alternative to those required under NSPS Part 60, Subpart NNN at § 60.665(l), including (l)(2).

In addition to the above requirements, as a condition of approval of the requested AMP, ATOFINA shall meet the following requirement under NSPS Part 60, Subpart RRR at § 60.705(s):

“(s) Each owner or operator who seeks to demonstrate compliance with Sec. 60.702 (a) or (b) using a control device must maintain on file a schematic diagram of the affected vent streams, collection system(s), fuel systems, control devices, and bypass systems as part of the initial report. This schematic diagram must be retained for the life of the system.”

except that the applicable VOC air emission standard is NSPS Part 60, Subpart NNN at § 60.662(a). This documentation shall include the identification, location, and function of all monitoring systems and devices required under NSPS Part 60, Subpart RRR at § 60.703(a) and (a)(2). The “schematic diagram” documentation shall be submitted to the Texas Commission on Environmental Quality (TCEQ) in Austin, Texas and EPA Region 6 in Dallas, Texas, in accordance with a deadline to be established by the State agency that has been delegated by EPA the implementation and enforcement of NSPS Part 60 in the State of Texas: TCEQ.

This approval of an AMP determination is based on the information submitted to TCEQ on February 28, 2002 and forwarded by TCEQ to EPA Region 6 on May 1, 2002. If any information is found that would reverse this determination, then it would become invalid and a new determination would be needed.

Alternative monitoring system determinations for other process units subject to NSPS Part 60 are to be addressed on a request-by-request basis. Also, this alternative monitoring system determination was coordinated with EPA's Office of Compliance in Washington, D.C. and with EPA's Emission Standards Division, Organic Chemicals Group in Research Triangle Park, North Carolina.

If you have any questions concerning this determination, please contact Ms. Anupa Ahuja of my staff, at (214) 665-2701.

Sincerely yours,



William K. Honker, P.E.
Chief
Air/Toxics and Inspection
Coordination Branch

cc: Olga Salinas (MC 171)
(TCEQ @ Austin, TX)

Jeff Greif (MC 171)
(TCEQ @ Austin, TX)

Marcia Mia (MC 2223A)
(EPA, OECA, OC, CCSMD, CIB)

Warren Johnson (MC C504-04)
(EPA, OAQPS, ESD, OCG)

Appendix A

Acronym List 142

Acronym List

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

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

Appendix B

Major NSR Summary Table 144

Major NSR Summary Table

Permit Numbers: 37979 and N009					Issuance Date: October 16, 2025		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
BOIL-Y1801	30-Barg Boiler	NOx	1.99	8.72	3, 21, 25, 27, 33, 42	3, 25, 27, 33, 42	3, 25, 27
		SO2	2.79	12.21			
		CO	13.93	30.51			
		PM	2.06	9.01			
		PM10	2.06	9.01			
		PM2.5	2.06	9.01			
		VOC	1.09	4.79			
	Boiler startup	NOx (8)	20.00	-			
		CO (8)	41.79	-			
CTWR-1701	Cooling Tower	PM	0.12	0.53	26	26	26
		PM10	0.12	0.53			
		PM2.5	0.12	0.53			
		VOC	1.26	5.52			
LOAD-FUG	Tank Truck Loading Losses	VOC	0.08	0.02	13, 14	13, 14	13, 14
		Organic HAPs	0.08	0.02			
OSBL-FUG	Fugitives (4)	VOC	0.73	3.20			

Major NSR Summary Table

Permit Numbers: 37979 and N009				Issuance Date: October 16, 2025			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		HAPs	0.49	2.12	3, 23, 24	3, 23, 24	3, 23, 24
		NH3	0.01	0.06			
THOX-Y1907	OSBL Thermal Oxidizer	NOx	1.00	4.38	19, 25, 28, 33, 42	19, 25, 28, 33, 42	19, 25, 28
		SO2	3.46	15.16			
		CO	1.10	4.82			
		PM	1.23	5.39			
		PM10	1.23	5.39			
		PM2.5	1.23	5.39			
		VOC	5.96	0.62			
	Organic HAPs	1.73	0.11				
	OSBL Thermal Oxidizer Startup	NOx (8)	3.00	-			
CO (8)		3.30	-				
FIRE-PUMPS	Firewater Pumps	NOx	23.25	2.56	5	5	5
		CO	5.01	0.55			
		SO2	1.54	0.17			
		PM	1.65	0.18			
		PM10	1.65	0.18			

Major NSR Summary Table

Permit Numbers: 37979 and N009					Issuance Date: October 16, 2025		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM2.5	1.65	0.18			
		VOC	1.89	0.21			
DIESEL-TNK	Diesel Fuel Storage Tanks	VOC	0.02	<0.01	37	37	
GAS-TK		VOC	3.91	0.02	37	37	
DIESEL-TK2		VOC	0.70	0.02	37	37	
LUBE-TK		VOC	0.14	0.01	37	37	
TK-1703		VOC	0.09	<0.01	37	37	
AA-FUG	AA Fugitives (4)	Total VOC (5)	2.14	9.37	3, 23, 24	3, 23, 24	3, 23, 24
		Total HAPs	1.72	7.56			
		Hydrazine Hydrate	0.15	0.65			
		NH3	0.01	0.01			
		CO	0.01	0.01			
THOX-Y1170 and SK-1186	AA Thermal Oxidizer & HRSG Stacks (6)	Total VOC (5)	5.90	23.02	19, 25, 28, 33	19, 25, 28, 29, 33	19, 25, 27/8
		Total HAPs	1.72	6.51			
		NOx	13.51	35.04			
		SO2	2.20	9.62			

Major NSR Summary Table

Permit Numbers: 37979 and N009					Issuance Date: October 16, 2025		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		CO	8.85	32.28			
		PM	3.00	10.51			
		PM10	3.00	10.51			
		PM2.5	3.00	10.51			
		NH3	0.27	1.17			
	AA Thermal Oxidizer & HRSG Stacks Startup (6)	NOx (8)	40.53	-	33, 42	33, 42	33, 42
		CO (8)	47.61	-			
AA-MATL	Material Handling	PM	0.78	0.06			
		PM10	0.78	0.06			
		PM2.5	0.78	0.06			
DEGREASE-1	Degreaser	VOC	0.01	0.01			
WASH-PAD	Wash Pad	VOC	0.26	0.12			
		Organic HAPs	0.26	0.12			
AA-MNTC	Maintenance Activities	Total VOC	19.47	1.09	33, 34, 35, 36, 37, 38, 39, 40	33, 34, 35, 36, 37, 38, 39, 40	
		NOx	0.04	0.01			
		CO	0.04	0.01			

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas administrative Code § 101.1.
 - NH₃ - ammonia
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
 - HAP - hazardous air pollutants
- (4) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (5) The total VOC emissions include propylene and organic HAPs.
- (6) Emissions represent total combined emission rates from EPNs THOX-Y1170 and SK1186.
- (7) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (8) Annual emissions from MSS activities (startup) are included in annual limits for the respective production EPNs.



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
American Acryl L.P.
Authorizing the Construction and Operation of
American Acryl Pasadena
Located at **Seabrook, Harris County, Texas**
Latitude 29.600833 *Longitude* -95.019722

Permits: 37979 and N009

Amendment Date: October 16, 2025

Expiration Date: July 13, 2030



For the Commission

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

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

1. **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
2. **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)]
3. **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)]
4. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
5. **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)]
6. **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.
7. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.¹

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

Common Acronyms in Air Permits

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

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

Special Conditions

Permit Numbers 37979 and N009

Emission Standards

1. This permit authorizes the Acrylic Acid plant located at Seabrook, Harris County, Texas.

This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates" (MAERT), and those sources are limited to the emission limits and other conditions specified in that table.
2. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing volatile organic compounds (VOC) at a concentration of greater than 1 percent are not authorized by this permit unless authorized on the MAERT. Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration greater than 1 weight percent are not consistent with good practice for minimizing emissions.

Federal Applicability

3. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60):
 - A. Subpart A, General Provisions.
 - B. Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.
 - C. Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction or Modification Commenced after July 23, 1984.
 - D. Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction or Modification Commenced after January 5, 1981 and on or Before November 7, 2006.
 - E. Subpart III, Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Synthetic Organic Chemicals Manufacturing Industry (SOCMI) Air Oxidation Unit Processes.
 - F. Subpart NNN, Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Synthetic Organic Chemicals Manufacturing Industry (SOCMI) Distillation Operations.
 - G. Subpart DDDD, Emission Guidelines and Compliance Times for Commercial and Industrial Solid Waste Incineration Units.
4. These facilities shall comply with all applicable requirements of the EPA regulations on National Emission Standards for Hazardous Air Pollutants in 40 CFR Part 61:
 - A. Subpart A, General Provisions.
 - B. Subpart M, National Emission Standards for Asbestos.
 - C. Subpart FF, National Emission Standards for Benzene Waste Operations.

Special Conditions

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5. These facilities shall comply with all applicable requirements of the EPA regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63:
 - A. Subpart A, General Provisions.
 - B. Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Source Categories (MACT) promulgated for Stationary Reciprocating Internal Combustion Engines.
 - C. Subpart CCCCCC, National Emission Standards for Hazardous Air Pollutants for Source Categories (MACT) promulgated for Gasoline Dispensing Facilities.
 - D. Subpart VVVVVV, National Emission Standards for Hazardous Air Pollutants for Source Categories (MACT) promulgated for Chemical Manufacturing Area Sources.
6. If any condition of this permit is more stringent than the applicable regulations in Special Condition Nos. 3, 4, and 5, then for the purposes of complying with this permit, the permit shall govern and be the standard by which compliance shall be demonstrated.

Operational Limitations

7. Production for the Acrylic Acid Unit is limited to 158,400 tons per calendar year of technical grade acrylic acid. Throughput for the purification section is limited to 127,000 tons per calendar year of glacial acrylic acid.
8. All storage tanks shall be limited to the hourly and annual throughputs contained in the CONFIDENTIAL submittal dated September 2003.
9. All storage tank vents shall be routed to the OSBL (Outside Battery Limits Unit) Thermal Oxidizer (EPN THOX-Y1907) or the Acrylic Thermal Oxidizer (EPNs THOX-Y1170 or SK-1186) with the following exceptions: storage tanks with allowable emission rates listed on the maximum allowable emission rates table (MAERT) or storage tanks listed on page 8 of the CONFIDENTIAL attachment to the September 2003 permit amendment application. The emission rates related to these vents have been incorporated in the emission limits for the OSBL Thermal Oxidizer (EPN THOX-Y1907).
10. The non-aqueous liquid organic waste from the Acrylic Acid Unit shall be stored for off-site disposal, recycle, or other use.
11. Dust emissions during solid materials handling shall be minimized by keeping all conveyance drop heights to a minimum.
12. Heat exchangers involved in the cooling water cycle shall be inspected during a planned shutdown at least once every five years.

Loading

13. The following requirements apply to loading VOC liquids to tank trucks.
 - A. The loading of VOC liquids to tank trucks is limited to a maximum loading rate of 19,200 gallons per hour.
 - B. All lines and connectors shall be visually inspected for any defects prior to hookup. Lines and connectors that are visibly damaged shall be removed from service. Operations shall cease immediately upon detection of any liquid leaking from the lines or connections.

Operation without visible liquid leaks or spills shall be maintained at all VOC loading/unloading facilities, regardless of vapor pressure. This does not apply to momentary dripping associated with the initial connection or disconnection of fittings. Sustained dripping from fittings during loading/unloading operations is not permitted. Any liquid spill that results in an upset that occurs during loading/unloading activities shall be reported pursuant to Title 30 Texas Administrative Code (30 TAC) 101.6 or 101.7. All spills shall be cleaned up immediately to minimize air emissions.

- C. The permit holder shall maintain and update monthly an emissions record which includes calculated emissions of VOC from all loading operations over the previous rolling 12 month period. The record shall include the loading spot, control method used, quantity loaded in gallons, name of the liquid loaded, vapor molecular weight, liquid temperature in degrees Fahrenheit, liquid vapor pressure at the liquid temperature in psia, liquid throughput for the previous month and rolling 12 months to date. Records of VOC temperature are not required to be kept for liquids loaded from unheated tanks which receive liquids that are at or below ambient temperatures. Emissions shall be calculated using the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Loading Operations."
14. Each tank truck shall pass vapor-tight testing every 12 months conforming to the requirements of 40 CFR 63, Subpart R. The permit holder shall not allow a tank truck to be filled unless it has passed a leak-tight test within the past year as evidenced by a certificate which shows the date the tank truck last passed the leak-tight test required by this condition and the identification number of the tank truck.
 15. All emissions from VOC loading operations will be controlled by routing the emissions to the OSBL Thermal Oxidizer (EPN THOX-Y1907).
 16. Waste gas from the oxidation section of the Acrylic Acid Unit and non-hazardous wastewater shall be routed to AA Thermal Oxidizer, Emission Point No. (EPN) THOX-Y1170 or SK-1186. The non-hazardous wastewater may also be discharged to an appropriate disposal authority.
 17. During periods that a thermal oxidizer is out of service due to planned maintenance, emissions normally routed to that thermal oxidizer shall be rerouted to the other thermal oxidizer for control of emissions. At no time shall both thermal oxidizers be out of service due to planned maintenance.
 18. The OSBL Thermal Oxidizer (EPN THOX-Y1907) and Acrylic Thermal Oxidizer (EPNs THOX-Y1170 and SK-1186) shall be designed and operated to assure at least 99.9 percent destruction of volatile organic compounds (VOC).
 19. The exhaust temperature for the OSBL Thermal Oxidizer (EPN THOX-Y1907) and Acrylic Thermal Oxidizer (EPNs THOX-Y1170 and SK-1186) shall be continuously monitored and recorded when waste gas is directed to the oxidizer. The minimum temperature shall be at least that maintained during the most recent stack testing conducted pursuant to Special Condition No. 25 which demonstrated compliance with Special Condition No. 18.
 - A. The temperature measurement device from the Acrylic Thermal Oxidizer (EPNs THOX-Y1170 and SK-1186) shall reduce the temperature readings to an averaging period of 6 minutes or less and record it at that frequency. The temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of ± 0.75 percent of the temperature being measured expressed in degrees Celsius or $\pm 2.5^{\circ}\text{C}$.

Quality assured (or valid) data must be generated when the thermal oxidizer is operating except during annual calibration following procedures required by the manufacturer. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the thermal oxidizer operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded. **(02/22)**

- B. The firebox exhaust oxygen concentration for the Acrylic Thermal Oxidizer (EPNs THOX-Y1170 and SK-1186) shall be maintained at not less than 3 percent while waste gas is being fed into the oxidizer prior to initial stack testing. After the initial stack test has been completed, the six minute average oxygen concentration shall be at greater than the respective hourly average maintained during the most recent satisfactory stack testing required by Special Condition No. 25. **(02/22)**
- C. The Acrylic Thermal Oxidizer (EPNs THOX-Y1170 and SK-1186) oxygen analyzer used to satisfy paragraph B of this condition shall continuously monitor and record oxygen concentration when waste gas is directed to the oxidizer. It shall reduce the oxygen readings to an averaging period of 6 minutes or less and record it at that frequency.

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

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

Quality assured (or valid) data must be generated when the thermal oxidizer is operating except during the performance of a daily zero and span check. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the thermal oxidizer operated over the previous rolling 12 month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded. **(02/22)**

- D. As an alternative to the monitoring requirements above, the carbon monoxide (CO) exit concentration shall be continuously monitored, recorded, and maintained at or below 60 ppmvd corrected to 3 percent O₂. The CO monitor shall comply with all the requirements for the oxygen monitor as specified above.
- E. The NO_x emission factor of the AA Thermal Oxidizer (EPN THOX-Y1170) shall be limited to 0.068 lb/MMBtu on rolling 12-month average; and shall be limited to 0.085 lb/MMBtu on an hourly average except during low turn down (firing rate < 100 MMBTU/hr) and process transitions, which include the following: **(09/24)**
 - (1) Feed Change: defined as a period of change to the purity of the propylene feed depending on supplier.

Special Conditions

Permit Numbers 37979 and N009

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- (2) Stack Change: defined as a period of transition between stacks for the AA Thermal Oxidizer and Heat Recovery Steam Generator (EPNs THOX-Y1170 and SK-1186).
- (3) Flow Change: defined as the period of throughput change (natural gas, waste gas, etc.) to the AA Thermal Oxidizer.
- (4) Wastewater Flow Change: defined as the period when there are changes to the wastewater flow.

The exception for the hourly average NO_x factor for process transitions listed above is limited to 720 hours per year. Update and maintain a record of each transition period monthly noting the date and times and nature of the transition, with the total annual hours of transition for the past 12 months.

20. All equipment in contact with VOC must be freed of liquid and purged before opening for maintenance. All wash liquid will be routed to Tank TK-1908. Tank emissions shall be routed through a closed system to a thermal oxidizer in accordance with this permit.
21. The following requirements shall apply to Boiler EPN BOIL-Y1801.
 - A. NO_x, CO and NH₃ concentrations from Boiler (EPN BOIL-Y1801) shall not exceed the following:
 - (1) 0.01 lb NO_x/MMBtu on an hourly average
 - (2) 100 ppmvd CO corrected to 3 percent oxygen on an hourly average
 - (3) 50 ppmvd CO corrected to 3 percent oxygen on an annual average
 - (4) 10 ppmvd NH₃ corrected to 3 percent oxygen on an hourly average
 - B. Opacity of emissions from the boiler shall not exceed five percent averaged over a six-minute period. Visible emission observations shall be performed monthly while the facility is in operation following the procedures of 40 CFR Part 60, Appendix A, Reference Method No. 22. Observations shall be made at least 15 feet and no more than 0.25 mile from the emission point. If visible emissions are present opacity shall be determined by 40 CFR Part 60, Appendix A, Reference Method No. 9.
 - C. The permit holder shall maintain prevention and protection measures for the NH₃ storage system which includes the following:

The NH₃ storage tank area will be marked and secured so as to protect the NH₃ storage tank from accidents that could cause a rupture.
 - D. The permit holder shall maintain the piping and valves in NH₃ service as follows:
 - (1) Audio, olfactory, and visual checks for NH₃ leaks within the operating area shall be made once per day.
 - (2) As soon as practicable, following the detection of a leak, plant personnel shall take one or more of the following actions:
 - (a) Locate and isolate the leak, if necessary.
 - (b) Commence repair or replacement of the leaking component.
 - (c) Use a leak collection or containment system to control the leak until repair or replacement can be made if immediate repair is not possible.

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Permit Numbers 37979 and N009

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- E. In lieu of determining opacity using Method 9 in paragraph B of this condition, any period of visible emissions based on Method 22 shall be presumed to exceed the five percent opacity limitation.
22. The owner or operator shall not add more than 4 grains of total sulfur per 100 dry standard cubic feet (dscf) of natural gas supplied to the site. Records shall be updated monthly showing the total sulfur added in the amount of natural gas received for the previous month and rolling 12-month period.

The incoming natural gas shall contain no more than 1 grain of total sulfur per 100 dscf. Records shall be updated annually. **(05/21)**

The boiler (EPN BOIL-Y1801) shall be fired with natural gas containing no more than 5 grains of total sulfur per 100 dscf.

Fugitives

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

23. Except as may be provided for in the Special Conditions of this permit, the following requirements apply to the above-referenced equipment:
- A. The requirements of paragraphs F and G shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68°F or (2) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made readily available upon request.
- The exempted components may be identified by one or more of the following methods:
- piping and instrumentation diagram (PID);
 - a written or electronic database or electronic file;
 - color coding;
 - a form of weatherproof identification; or
 - designation of exempted process unit boundaries.
- B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.
- C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.
- D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in paragraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it

shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified may instead be monitored annually.

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

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

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

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

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

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

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

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

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

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

- H. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.
- I. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates, times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.
- J. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standard (NSPS), or an applicable National Emission Standard for Hazardous Air Pollutants (NESHAPS), and does not constitute approval of alternative standards for these regulations.

- K. In lieu of the monitoring frequency specified in paragraph F, valves in gas and light liquid service may be monitored on a semiannual basis if the percent of valves leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.
- Valves in gas and light liquid service may be monitored on an annual basis if the percent of valves leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.
- If the percent of valves leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.
- L. The percent of valves leaking used in paragraph K shall be determined using the following formula:
- $$(Vl + Vs) \times 100/Vt = Vp$$
- Where:
- Vl = the number of valves found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.
- Vs = the number of valves for which repair has been delayed and are listed on the facility shutdown log.
- Vt = the total number of valves in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe to monitor valves.
- Vp = the percentage of leaking valves for the monitoring period.
- M. Any component found to be leaking by physical inspection (i.e., sight, sound, or smell) shall be repaired or monitored with an approved gas analyzer within 15 days to determine whether the component is leaking in excess of 500 ppmv of VOC. If the component is found to be leaking in excess of 500 ppmv of VOC, it shall be subject to the repair and replacement requirements contained in this special condition.

Physical Inspections of Piping, Valves, Pumps, and Compressors in contact with ultra heavy liquids (VOC aggregate partial pressure < 0.0147 psia) – 28PI

24. Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment:
- A. 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.
- B. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical.
- C. 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. Non-accessible valves, as defined in Title 30 Texas Administrative Code (30 TAC) Chapter 115, shall be identified in a list to be made available upon request.
- D. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter.

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- E. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve. Except during sampling, the second valve shall be closed.
- F. All piping components shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.
- G. Damaged or leaking valves, connectors, compressor seals, and pump seals found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown, 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. At the discretion of the TCEQ Executive Director or designated representative, early unit shutdown or other appropriate action may be required based on the number and severity of tagged leaks awaiting shutdown.
- H. Date and time of each inspection shall be noted in the operator's log or equivalent. Records shall be maintained at the plant site of all repairs and replacements made due to leaks. These records shall be made available to representatives of the Texas Commission on Environmental Quality (TCEQ) upon request.

Initial Demonstration of Compliance

- 25. The permit holder shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the Start-up Boiler (EPN BOIL-Y1801), OSBL Thermal Oxidizer (EPN THOX-Y1907), and AA Thermal Oxidizer (EPNs THOX-Y1170 and/or SK-1186) to demonstrate compliance with the MAERT. The permit holder is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. Sampling shall be conducted in accordance with the appropriate procedures of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual and the U.S. Environmental Protection Agency (EPA) Reference Methods.

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

- A. The appropriate TCEQ Regional Office shall be notified not less than 30 days prior to sampling. The notice shall include:
 - (1) Proposed date for pretest meeting.
 - (2) Date sampling will occur.
 - (3) Name of firm conducting sampling.
 - (4) Type of sampling equipment to be used.
 - (5) Method or procedure to be used in sampling.
 - (6) Description of any proposed deviation from the sampling procedures specified in this permit or TCEQ/EPA sampling procedures.
 - (7) Procedure/parameters to be used to determine worst case emissions during the sampling period.

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

- B. Air contaminants emitted from the boiler to be tested for include (but are not limited to) NO_x, carbon monoxide (CO), NH₃, opacity, and VOC.

Air contaminants emitted from the thermal oxidizers to be tested for include (but are not limited to) VOC, NO_x, CO, particulate matter, particulate matter equal to or less than 10 microns and particulate matter equal to or less than 2.5 microns. The test shall also include the VOC destruction efficiency as well as EPA Methods 1 through 4 to determine stream flow rates. Additionally, the NO_x lb/MMBtu from the AA Thermal Oxidizer shall be tested for and shall not exceed 0.12 lb/MMBtu. (1/19)

- C. Subsequent to the issuance of the permit dated March 28, 2013, sampling of the condition where a thermal oxidizer is taken out of service and the combined waste streams of both thermal oxidizers are vented to a single oxidizer shall occur within 30 days of a planned outage of a thermal oxidizer resulting in the condition or 1 year whichever comes first. The thermal oxidizer being sampled shall operate with the combined streams normally vented to both oxidizers vented to the oxidizer being sampled. Additional sampling shall be conducted at other times as may be required by the TCEQ Executive Director. Sampling of the boiler shall occur within 90 days after construction and operation of the SCR. Sampling shall also occur at other times as may be required by the TCEQ Executive Director. Requests for additional time to perform sampling shall be submitted to the appropriate regional office.
- D. The thermal oxidizer being sampled shall operate at maximum operating rates during stack emission testing. Testing of NO_x lb/hr emissions from the AA Thermal Oxidizer corresponding to EPN THOX-Y1170 shall occur when ammonia is injected at the maximum rate into the wastewater stream sent to the AA Thermal Oxidizer. The boiler being sampled shall operate at the maximum firing rate. These conditions/parameters and any other primary operating parameters that affect the emission rate shall be monitored and recorded during the stack test. Any additional parameters shall be determined at the pretest meeting and shall be stated in the sampling report. Permit conditions and parameter limits may be waived during stack testing performed under this condition if the proposed condition/parameter range is identified in the test notice specified in paragraph A and accepted by the TCEQ Regional Office. Permit allowable emissions and emission control requirements are not waived and still apply during stack testing periods.
- During subsequent operations, if the operating rate is greater than that recorded during the test period, stack sampling shall be performed at the new operating conditions within 120 days. This sampling may be waived by the TCEQ Air Section Manager for the region.
- E. Hard copies and electronic copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

One copy to the appropriate TCEQ Regional Office.

One copy to each appropriate local air pollution control program

Continuous Demonstration of Compliance

26. The holder of this permit shall perform sampling and other testing as necessary to demonstrate ongoing compliance with the emission limits for the cooling tower. The VOC associated with

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cooling tower water shall be monitored monthly with an approved air stripping system or equivalent. The sample obtained from the air stripping system shall be collected in a Tedlar bag or canister and analyzed by gas chromatography. The minimum detection level of the testing system shall be 0.4 ppmv (air-stripped concentration). The appropriate equipment shall be maintained so as to minimize fugitive VOC emissions from the cooling tower. The results of the monitoring and maintenance efforts shall be recorded, and such records shall be maintained for a period of two years. The records shall be made available to the TCEQ Executive Director upon request.

If a leak equivalent to more than 5 tpy of VOC emissions above baseline is detected, the owner or operator shall comply with the requirements in Special Condition No. 26.A, except as provided in Special Condition No. 26.B through E.

Documentation of a decision to delay repair shall state the reasons repair was delayed and shall specify a schedule for completing the repair as soon as practical. For the purposes of this permit condition, delay of repair means exceeding the time frame established in Special Condition No. 26.A. Prior to exceeding the time frame established in Special Condition No. 26.A, all documentation of a decision to delay repair shall be submitted to the TCEQ Houston Regional Office for approval.

- A. The leak shall be repaired as soon as practical but not later than 45 calendar days after the owner or operator receives results of monitoring tests indicating a leak. The leak shall be repaired unless the owner or operator demonstrates that the results are due to a condition other than a leak.
 - B. Delay of repair of heat exchange systems for which leaks have been detected is allowed if the equipment is isolated from the process.
 - C. Delay of repair is also allowed if repair is technically infeasible without a shutdown and a shutdown is expected within the next two months.
 - D. Delay of repair is also allowed for up to 120 calendar days if necessary parts or personnel were not available.
 - E. Delay of repair is also allowed if repair is technically infeasible without a shutdown and the shutdown would cause greater emissions than the potential emissions from delaying repair. The owner or operator may delay repair until the next shutdown of the process equipment associated with the leaking heat exchanger. The owner or operator shall document the basis for the determination that a shutdown for repair would cause greater emissions than the emissions likely to result from delaying repair. If the delay will exceed two years, and the projected emissions due to this leak will exceed the rates as listed on the MAERT for this source, then the owner or operator shall amend or alter the MAERT to reflect the increase in VOC emissions and following the repair, the owner or operator shall determine a new baseline of VOC emissions and amend or alter the MAERT to reflect the decrease in VOC emissions.
27. The permit holder shall install, calibrate, and maintain a continuous emission monitoring system (CEMS) to measure and record the in-stack concentration of NO_x, CO, NH₃, and O₂ from the Boiler Stack (EPN BOIL-Y1801).
- A. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specification Nos. 1 through 9, Title 40 Code of Federal Regulation Part 60 (40 CFR Part 60), Appendix B. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Office of Air, Air Permits Division for requirements to be met.

- B. Section 1 below applies to sources subject to the quality-assurance requirements of 40 CFR Part 60, Appendix F; section 2 applies to all other sources:
- (1) The permit holder shall assure that the CEMS meets the applicable quality-assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, 5.2.3 and any CEMS downtime shall be reported in accordance with 40 CFR Part 60.7 to the appropriate TCEQ Regional Manager, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Manager.
 - (2) The system shall be zeroed and spanned daily, and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B, or as specified by the TCEQ if not specified in Appendix B. Zero and span is not required on weekends and plant holidays if instrument technicians are not normally scheduled on those days.

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

All CGA exceedances of +15 percent accuracy indicate that the CEMS is out of control.
- C. The CEMS monitoring data for NO_x, CO, O₂, and NH₃ shall be reduced to one-hour average concentrations at least once every day, using a minimum of four equally-spaced data points from each one-hour period. The individual average NO_x and CO concentrations shall be reduced to units of the permit allowable emission rate in the MAERT and special condition 21. The cumulative tons per year shall be calculated and recorded at least once every week.

The permit holder shall install and operate a fuel flow meter to measure the gas fuel usage for each boiler. The monitored data shall be reduced to an hourly average flow rate at least once every day, using a minimum of four equally-spaced data points from each one-hour period. 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. In lieu of monitoring fuel flow, the permit holder may monitor stack exhaust flow using the flow monitoring specifications of 40 Code of Federal Regulations (CFR) Part 60, Appendix B, Performance Specification 6 or 40 CFR Part 75, Appendix A.
- D. All monitoring data and quality-assurance data shall be maintained by the source. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit.
- E. The appropriate TCEQ Regional Office shall be notified at least 30 days prior to any required RATA in order to provide them the opportunity to observe the testing.
- F. Quality-assured (or valid) data must be generated when the Boiler (EPN BOIL-Y1801) is operating except during the performance of a daily zero and span check. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the Boiler operated over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded. Options to increase system reliability to an acceptable value, including a redundant CEMS, may be required by the TCEQ Regional Manager.

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- G. Mass emission rates shall be determined based on fuel flow and the fuel f-factor for natural gas in accordance with 40 CFR Part 60, Appendix A, Reference Method No. 19.

Compliance Assurance Monitoring

- 28. The following requirements apply to capture systems for the thermal oxidizer EPNs THOX-Y1170, SK-1186 and THOX-Y1907.
 - A. If used to control pollutants other than particulate, either:
 - (1) Conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or
 - (2) Once a year, verify the capture system is leak-free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.
 - B. The control device shall not have a bypass, or if there is a bypass for the control device, comply with either of the following requirements:
 - (1) Install a flow indicator (i.e. valve position and/or flow meter) that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or
 - (2) Once a month, inspect the valves, verifying that the position of the valves and the condition of the car seals prevent flow out the bypass.

A bypass does not include authorized analyzer vents, highpoint bleeder vents, low point drains, or rupture discs upstream of pressure relief valves if the pressure between the disc and relief valve is monitored and recorded at least weekly. A deviation shall be reported if the monitoring or inspections indicate bypass of the control device when it is required to be in service.
 - C. Records of the inspections required shall be maintained and if the results of any of the above inspections are not satisfactory, the permit holder shall promptly take necessary corrective action.

Recordkeeping

- 29. The following records shall be maintained for a period of at least two years and shall be made available to a representative of the TCEQ upon request:
 - A. OSBL and AA Thermal Oxidizer (EPNs THOX-Y1907 and THOX-Y1170 or SK-1186) firebox exit temperature and excess O₂ on a continuous basis.
 - B. Production records for technical grade and glacial acrylic acid on a 12-month calendar basis.
 - C. Date, duration, and cause of any thermal oxidizer downtime.
 - D. Duration of use for any backup control device.
 - E. Hearing Resolution.
- 30. The holder of this permit shall maintain on-site a current copy of the plant emergency response plan which includes provisions for emergency situations involving air releases with potential off-site impacts. The plan shall contain at a minimum a list of the appropriate plant personnel responsible

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for coordinating emergency response measures, steps to be taken to minimize the situation, and procedures for notifying the appropriate public officials, if necessary. Upon request, a copy of the plan shall be made available to the Executive Director of the TCEQ or her representative or any air pollution control program having jurisdiction.

31. Within 30 days of the date that the permit holder submits a registration to the TCEQ for a permit by rule pursuant to 30 TAC 106.261 or 106.262 or both, the permit holder shall submit to the TCEQ Executive Director and TCEQ Houston Regional Office a complete permit amendment application pursuant to 30 TAC Chapter 116 and all other applicable rules covering, at a minimum, the requested change for which the registration was submitted. Simultaneous with the submissions to the TCEQ, a copy of such application shall be forwarded to the Harris County Pollution Control Department, Pasadena.
 - A. Within 180 days from the date of issuance of Project No. 336792, the permit holder shall submit to the TCEQ Executive Director and the TCEQ Houston Regional Office a complete permit amendment application pursuant to 30 TAC 116 and all other applicable rules covering, at a minimum, the requested change to incorporate PBR No. 164564. Simultaneous with the submissions to the TCEQ, a copy of such application shall be forwarded to the Harris County Pollution Control Department, Pasadena. **(01/22)**

Additional Requirement

32. In addition to Special Condition 20, the permit holder shall comply with all provisions in the Maintenance, Startup, and Shutdown section of this permit.

Maintenance, Start-up, and Shutdown

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

Routine maintenance activities, as identified in Attachment A may be tracked through the work orders or equivalent. Emissions from activities identified in Attachment A 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 and the emissions associated with it shall be recorded and include at least the following information:

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

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

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34. Process units and facilities, with the exception of those identified in Special Conditions 37 and 40 shall be depressurized, emptied, degassed, and placed in service in accordance with the following requirements.
- A. The process equipment shall be depressurized to the OSBL Thermal Oxidizer (EPN THOX-Y1907) or the AA Thermal Oxidizer (EPNs SK-1186 and THOX-Y1170) prior to venting to atmosphere, degassing, or draining liquid. Equipment that only contains material that is liquid with VOC partial pressure less than 0.001 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 0.001 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. Facilities shall be degassed using good engineering practice to ensure air contaminants are removed from the system through the control device or controlled recovery system to the extent allowed by process equipment or storage vessel design. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. The facilities to be degassed shall not be vented directly to atmosphere, except as necessary to establish isolation of the work area or to monitor VOC concentration following controlled depressurization. The venting shall be minimized to the maximum extent practicable and actions taken recorded. The control device or recovery system utilized shall be recorded with the estimated emissions from controlled and uncontrolled degassing calculated using the methods that were used to determine allowable emissions for the permit application.
 - (1) For routine MSS activities identified in Attachment A, the following option may be used in lieu of 2 below. The facilities being prepared for maintenance shall not be vented directly to atmosphere until the VOC concentration has been verified to be less than 100 ppmv.
 - (2) The locations and/or identifiers where the purge gas or steam enters the process equipment or storage vessel and the exit points for the exhaust gases shall be recorded (process flow diagrams [PFDs] or piping and instrumentation diagrams [P&IDs] 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 35. 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 100 ppmv. 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.

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

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

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

VOC Concentration = Concentration as read from the instrument*RF

(2) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording VOC concentration each minute. The highest measured VOC concentration shall not exceed the specified VOC concentration limit prior to uncontrolled venting.

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

(1) The air contaminant concentration measured is less than 80 percent of the range of the tube. If the maximum range of the tube is greater than the release concentration defined in (3), the concentration measured is at least 20 percent of the maximum range of the tube.

(2) The tube is used in accordance with the manufacturer's guidelines.

(3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:

measured contaminant concentration (ppmv) < release concentration.

Where the release concentration is:

100*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.

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

The laboratory GC shall meet or exceed the requirements of 40 CFR 60, Appendix A, Method 18 Sections 6 (Equipment and Supplies), 7 (Reagents and Standards), 9 (Quality Control), and 10 (Calibration and Standards). The sample shall be analyzed per Section 8.2.1.5 of Method 18, except the analysis does not need to be performed in triplicate. The highest measured VOC concentration shall not exceed the specified VOC concentration limit prior to uncontrolled venting.

36. Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the removal of a component for repair or replacement results in an open ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period;
- A. a cap, blind flange, plug, or second valve must be installed on the line or valve; or
 - B. the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once at the end of the 72 hour period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings 500 ppmv above background and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.
37. The following requirements apply to fixed roof storage tanks.
- A. The tank may be opened without restriction and ventilated without control, after all standing liquid and solids have been removed from the tank or the material remaining in the tank has a VOC partial pressure less than 0.001 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 0.001 psia. This liquid shall be added during tank degassing if practicable. The estimated volume of liquid or solids remaining in the drained tank and the volume and type of liquid added shall be recorded. The VOC partial pressure may be estimated based on this information and engineering calculations.
 - (2) If water is added or sprayed into the tank to remove standing VOC, one of the following must be demonstrated:
 - (a) Take a representative sample of the liquid remaining in the tank and verify no visible sheen using the static sheen test from 40 CFR 435 Subpart A Appendix 1.
 - (b) 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 100 ppmv using an instrument meeting the requirements of Special Condition 35.
 - (c) Sample the liquid to determine that the VOC partial vapor pressure of the water/VOC mixture does not exceed 0.001 psia based on the mole fraction of VOC in the liquid mixture.
 - (3) No standing liquid or solids as verified through visual inspection.
 - (4) The permit holder shall maintain records to document the method used to release the tank.
- B. If the ventilation of the vapor space is controlled, the emission control system shall meet the requirements of (1) through (5). Controlled degassing of the vapor space shall be completed as follows:
- (1) Any gas or vapor removed from the vapor space 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 100 ppmv. The locations and identifiers of vents other than permanent roof fittings and seals, control device or controlled recovery system, and controlled exhaust stream shall be recorded. There shall be no other gas/vapor flow out of the vapor space when degassing to the control device or controlled recovery system.
 - (2) The vapor space 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 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 using an instrument meeting the requirements of Special Condition 35.
 - (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 material in the tank is less than 0.001 psia.

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- C. Upon compliance with paragraph A of this condition, residual material shall be removed according to the following.
 - (1) One manway may be opened to allow access to the tank to remove the remaining liquid. Other manways or access points may be opened as necessary to remove the remaining liquid. Wind barriers shall be installed at all open manways and access points to minimize air flow through the tank.
 - (2) Access points shall be closed when not in use
 - D. Tanks storing Acrylic Acid or Butyl Acrylate may be modified to create a new access point for purposes of removing sludge or polymerized material based on the following requirements:
 - (1) The new access shall not exceed an area of 120 square feet.
 - (2) The access point shall be covered with a removable plastic strip curtain immediately after the additional access is created and shall remain in place until all material has been removed from the tank.
 - (3) The removal of solids from tanks shall be conducted by minimizing the time the access point remains uncovered. During periods when equipment and personnel are not conducting work or preparing the tank for work, the opening shall be covered as described in Special Condition 37.D(2).
 - (4) If at any time liquid is discovered during the process of removing sludge or polymerized material, removal of the solid material shall cease and the plastic strip curtain shall be put back in place until the liquid is removed or neutralized.
 - (5) Prior to tank modification as specified in this condition, the appropriate TCEQ Regional Office shall be notified not less than 5 days prior to performing the modification. The notice shall include the date of the proposed modification.
 - E. Temporary vessels that are open to the atmosphere may be used to store solid material with a VOC partial pressure of less than 0.001 psi at 95 °F provided the vessel is covered during periods of operation shutdown. Emissions may be estimated based upon the potential to emit as identified in the permit application.
 - F. 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 and sludge 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 <0.001 psi,
 - (c) if there is liquid or sludge in the tank, VOC partial pressure of the material, start and completion of uncontrolled degassing, and total volumetric flow,
 - (d) Date of tank modification, and
 - (e) start and complete date of sludge/solid removal activities.
 - (2) the estimated quantity of each air contaminant, or mixture of air contaminants, emitted between events a with the data and methods used to determine it.
38. This permit authorizes emissions from the following temporary facilities used to support planned MSS activities at permanent site facilities: frac tanks, containers, and vacuum trucks. Emissions from temporary facilities are authorized provided the temporary facility (a) does not remain on the

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plant site for more than 12 consecutive months, (b) is used solely to support planned MSS activities at the permanent site facilities identified in this permit, and (c) does not operate as a replacement for an existing authorized facility. Use of temporary facilities identified in this condition to support MSS activities are not authorized for VOC liquids having a vapor pressure greater than or equal to 0.5 psia.

39. The following requirements apply to vacuum and air mover truck operations to support planned MSS at this site:
 - A. Prior to initial use, identify any liquid in the truck. Record the liquid level and 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) Equip fill line intake with a "duckbill" or equivalent attachment if the hose end cannot be submerged in the liquid being collected.
 - (2) For each liquid transfer made with the vacuum operating, maintain a daily record of 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 also 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.
 - 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 psi, this shall be recorded when the truck is unloaded or leaves the plant site and the emissions may be estimated as the maximum potential to emit for a truck in that service as documented in the permit application. The recordkeeping requirements in Special Condition 39.A through 39.D do not apply.

40. The following requirements apply to frac, or temporary, tanks and vessels used in support of MSS activities.
 - A. The exterior surfaces of these tanks/vessels that are exposed to the sun shall be white or aluminum effective May 1, 2013. This requirement does not apply to tanks/vessels that only vent to atmosphere when being filled.
 - B. These tanks/vessels must be covered and equipped with fill pipes that discharge within 6 inches of the tank/vessel bottom.
 - C. These requirements do not apply to vessels storing less than 100 gallons of liquid that are closed such that the vessel does not vent to atmosphere.
 - D. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all frac tanks during the previous calendar month and the past consecutive 12 month period. The record shall include tank identification number, dates put into and

removed from service, control method used, tank capacity and volume of liquid stored in gallons, name of the material stored, VOC molecular weight, and VOC partial pressure at the estimated monthly average material temperature in psia. Filling emissions for tanks shall be calculated using the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Loading Operations" and standing emissions determined using: the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Storage Tanks."

- E. If the tank/vessel is used to store liquid with VOC partial pressure less than 0.10 psi at 95°F, records may be limited to the days the tank is in service and the liquid stored. Emissions may be estimated based upon the potential to emit as identified in the permit application.
41. MSS activities represented in the permit application may be authorized under permit by rule only if the procedures, emission controls, monitoring, and recordkeeping are the same as those required by this permit.
42. All permanent facilities must comply with all operating requirements, limits, and representations during planned startup and shutdown unless alternate requirements and limits are identified in this permit. Alternate requirements for emissions from routine emission points are identified below.
- A. Combustion units, with the exception of flares, at this site are exempt from NO_x, CO, and NH₃ operating requirements and emission limits during planned startup and shutdown if the following criteria are satisfied.
- (1) The maximum allowable emission rates in the permit authorizing the facility are not exceeded.
 - (2) The startup period does not exceed 8 hours in duration and the firing rate does not exceed 75 percent of the design firing rate. The time it takes to complete the shutdown does not exceed 4 hours.
 - (3) Control devices are started and operating properly when venting a waste gas stream.
- B. The limits identified below apply to the operations of the specified facilities during startup and shutdown.
- (1) The boiler (EPN BOIL-Y1801) is authorized to exceed 10 times the NO_x and 3 times the CO hourly limits authorized for normal operation for a period not to exceed 12 hours per start-up.
 - (2) The boiler (EPN BOIL-Y1801) is authorized to exceed the NH₃ concentration limit but not exceed the NH₃ pound per hour limit authorized for normal operation for a period not to exceed 12 hours per start-up.
- C. A record shall be maintained indicating that the start and end times of each of the activities identified above occur and documentation that the requirements for each have been satisfied.
43. Control devices authorized by this permit for emissions from planned MSS activities are limited to the OSBL Thermal Oxidizer (ENP THOX-Y1907) and the AA Thermal Oxidizer (EPNs SK-1186 and THOX-Y1170). The thermal oxidizers shall be operated in accordance with the requirements of Special Conditions 18 and 19 of this permit.
44. The permit holder shall install, calibrate, and maintain a continuous emission monitoring system (CEMS) to measure and record the in-stack concentration of NO_x, CO and O₂ for the AATO.
- A. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified

in the applicable Performance Specification Nos. 1 through 9, Title 40 Code of Federal Regulation Part 60 (40 CFR Part 60), Appendix B. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Office of Air, Air Permits Division for requirements to be met.

- B. Section 1 below applies to sources subject to the quality-assurance requirements of 40 CFR Part 60, Appendix F; section 2 applies to all other sources:
- (1) The permit holder shall assure that the CEMS meets the applicable quality-assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, Section 5.2.3 and any CEMS downtime shall be reported in accordance with 40 CFR Part 60.7 to the appropriate TCEQ Regional Manager, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Manager.
 - (2) The system shall be zeroed and spanned daily, and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B, or as specified by the TCEQ if not specified in Appendix B. Zero and span is not required on weekends and plant holidays if instrument technicians are not normally scheduled on those days.
- Each monitor shall be quality-assured at least quarterly using Cylinder Gas Audits (CGA) in accordance with 40 CFR Part 60, Appendix F, Procedure 1, Section 5.1.2, with the following exception: a relative accuracy test audit (RATA) is not required once every four quarters (i.e., four successive quarterly CGA may be conducted). An equivalent quality-assurance method approved by the TCEQ may also be used. Successive quarterly audits shall occur no closer than two months.
- All CGA exceedances of +15 percent accuracy indicate that the CEMS is out of control.
- C. The CEMS monitoring data for NO_x, CO and O₂ shall be reduced to one-hour average concentrations at least once every day, using a minimum of four equally-spaced data points from each one-hour period. The individual average NO_x and CO concentrations shall be reduced to units of the permit allowable emission rate in the MAERT. The cumulative tons per year shall be calculated and recorded at least once every week as follows:
- The measured hourly average concentration from the CEMS shall be multiplied by either the corresponding measured flow rate or the measured flow rate during the latest stack test performed in accordance with Special Condition No. 25 to determine the hourly emission rate.
- D. All monitoring data and quality-assurance data shall be maintained by the source. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit.
- E. The appropriate TCEQ Regional Office shall be notified at least 30 days prior to any required RATA in order to provide them the opportunity to observe the testing.
- F. Quality-assured (or valid) data must be generated when the AATO (EPNs THOX-Y1170 and SK-1186) is operating except during the performance of a daily zero and span check. Loss of valid data due to periods of monitor break down, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in minutes) that the AATO (EPNs THOX-Y1170 and SK-1186) operated over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded. Options to increase

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system reliability to an acceptable value, including a redundant CEMS, may be required by the TCEQ Regional Manager.

Date: September 25, 2024

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Attachment A

ROUTINE MAINTENANCE ACTIVITIES

Pump repair/replacement

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

Agitator repair/replacement

Filter/Strainer Changeout

Date: July 13, 2020

Permit 37979

Attachment B

MSS ACTIVITY SUMMARY

Facilities	Description	Emissions Activity	EPN
Combustion Units	Startup	Vent to atmosphere	THOX-Y1907 THOX-Y1170/ SK-1186 BOIL-Y1801
all process units	process unit shutdown/depressurize/drain/purge/degas	Thermal Oxidizer	THOX-Y1907 or THOX-Y1170 or SK-1186
all process units	Opening	Vent to atmosphere	AA-MNTC
all tanks	Drain, degas	Thermal Oxidizer	THOX-Y1907 or THOX-Y1170 or SK-1186
all tanks	Opening	Vent to atmosphere	AA-MNTC
all tanks	solids removal	Vent to atmosphere	AA-MNTC
Vacuum Trucks	Draining of tanks and vessels	Vent to atmosphere	AA-MNTC
Attachment A	Attachment A activities	Vent to atmosphere	AA-MNTC

Date: July 13, 2020

Emission Sources - Maximum Allowable Emission Rates

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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)
BOIL-Y1801	30-Barg Boiler	NO _x	1.99	8.72
		SO ₂	2.79	12.21
		CO	13.93	30.51
		PM	2.06	9.01
		PM ₁₀	2.06	9.01
		PM _{2.5}	2.06	9.01
		VOC	1.09	4.79
	NH ₃	0.92	4.01	
	Boiler startup	NO _x (8)	20.00	-
CO (8)		41.79	-	
CTWR-1701	Cooling Tower	PM	0.12	0.53
		PM ₁₀	0.12	0.53
		PM _{2.5}	0.12	0.53
		VOC	1.26	5.52
LOAD-FUG	Tank Truck Loading Losses	VOC	0.08	0.02
		Organic HAPs	0.08	0.02
OSBL-FUG	Fugitives (4)	VOC	0.73	3.20
		HAPs	0.49	2.12
		NH ₃	0.01	0.06

Emission Sources - Maximum Allowable Emission Rates

THOX-Y1907	OSBL Thermal Oxidizer	NO _x	1.00	4.38
		SO ₂	3.46	15.16
		CO	1.10	4.82
		PM	1.23	5.39
		PM ₁₀	1.23	5.39
		PM _{2.5}	1.23	5.39
		VOC	5.96	0.62
		Organic HAPs	1.73	0.11
	OSBL Thermal Oxidizer Startup	NO _x (8)	3.00	-
		CO (8)	3.30	-
FIRE-PUMPS	Firewater Pumps	NO _x	23.25	2.56
		CO	5.01	0.55
		SO ₂	1.54	0.17
		PM	1.65	0.18
		PM ₁₀	1.65	0.18
		PM _{2.5}	1.65	0.18
		VOC	1.89	0.21
DIESEL-TNK	Diesel Fuel Storage Tanks	VOC	0.02	<0.01
GAS-TK	Gasoline Storage Tank	VOC	3.91	0.02
DIESEL-TK2	Diesel Storage Tank	VOC	0.70	0.02
LUBE-TK	Lube Oil Storage Tank	VOC	0.14	0.01
TK-1703	Tank 1703	VOC	0.09	<0.01
AA-FUG	AA Fugitives (4)	Total VOC (5)	2.14	9.37
		Total HAPs	1.72	7.56
		Hydrazine Hydrate	0.15	0.65
		NH ₃	0.01	0.01
		CO	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

THOX-Y1170 And SK-1186	AA Thermal Oxidizer & HRSG Stacks (6)	Total VOC (5)	5.90	23.02
		Total HAPs	1.72	6.51
		NO _x	24.00	46.48
		SO ₂	2.20	9.62
		CO	8.85	32.28
		PM	3.00	10.51
		PM ₁₀	3.00	10.51
		PM _{2.5}	3.00	10.51
		NH ₃	0.27	1.17
		AA Thermal Oxidizer & HRSG Stacks Startup (6)	NO _x (8)	40.53
		CO (8)	47.61	-
AA-MATL	Material Handling	PM	0.78	0.06
		PM ₁₀	0.78	0.06
		PM _{2.5}	0.78	0.06
DEGREASE-1	Degreaser	VOC	0.01	0.01
WASH-PAD	Wash Pad	VOC	0.26	0.12
		Organic HAPs	0.26	0.12
AA-MNTC	Maintenance Activities	Total VOC	19.47	1.09
		NO _x	0.04	0.01
		CO	0.04	0.01

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.
 NH₃ - ammonia
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 PM₁₀ - particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
 PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 CO - carbon monoxide
 HAP - hazardous air pollutants
- (4) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (5) The total VOC emissions include propylene and organic HAPs.
- (6) Emissions represent total combined emission rates from EPNs THOX-Y1170 and SK1186.
- (7) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.

Emission Sources - Maximum Allowable Emission Rates

- (8) Annual emissions from MSS activities (startup) are included in annual limits for the respective production EPNs.

Date: October 16, 2025