

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
MVP Terminalling, LLC

AUTHORIZING THE OPERATION OF
Pasadena Terminal
Other Warehousing and Storage

LOCATED AT
Harris County, Texas
Latitude 29° 43' 43" Longitude 95° 9' 35"
Regulated Entity Number: RN109754085

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: O4089 Issuance Date: _____

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 R, Y, EEEE, or ZZZZ, respectively, as identified in the attached Applicable Requirements Summary table are subject to

30 TAC Chapter 113, Subchapter C, §§ 130.230, 130.300, 130.880, or 130.1090, respectively, which incorporate the 40 CFR Part 63 Subparts by reference.

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

- (i) Title 30 TAC § 101.302 (relating to General Provisions)
- (ii) Title 30 TAC § 101.303 (relating to Emission Reduction Credit Generation Certification)
- (iii) Title 30 TAC § 101.304 (relating to Mobile Emission Reduction Credit Generation and Certification)
- (iv) Title 30 TAC § 101.309 (relating to Emission Credit Banking and Trading)
- (v) The terms and conditions by which the emission limits are established to generate the reduction credit are applicable requirements of this permit

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

- (i) Title 30 TAC § 101.372 (relating to General Provisions)
- (ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)
- (iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)
- (iv) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)
- (v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit

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

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

- (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: Storage of Volatile Organic Compounds, the permit holder shall comply with the requirements of 30 TAC § 115.112(e)(1).
5. 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)
6. The permit holder shall comply with the following requirements of 30 TAC Chapter 117:
- A. For boilers, process heaters, stationary reciprocating engines, and turbines (including duct burners) exempt from Subchapter D, Division 1 at minor sources of NO_x under 30 TAC § 117.2003(a), the permit holder shall comply with 30 TAC §§ 117.2030(c), 117.2035(g), 117.2045(b) and 117.2045(c).
7. 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)
8. For the bulk gasoline terminals specified in 40 CFR Part 60, Subpart XX, the permit holder shall comply with the following requirements:
- A. Title 40 CFR § 60.502(e) - (f) (relating to Standard for VOC Emissions from Bulk Gasoline Terminals)
 - B. Title 40 CFR § 60.505(a) - (b), and (d) (relating to Reporting and Recordkeeping)
9. 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.

10. For the operations pertaining to the loading and unloading of marine tank vessels specified in 40 CFR Part 63, Subpart Y, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.300 incorporated by reference):
 - A. Title 40 CFR § 63.560(c) (relating to Designation of Affected Source), for applicability of the General Provisions of Subpart A
 - B. Title 40 CFR § 63.563(a)(4) (relating to Compliance and Performance Testing), for vapor tightness requirements of the marine vessels
 - C. Title 40 CFR § 63.564(a)(1) and (d) (relating to Monitoring Requirements)
 - D. Title 40 CFR § 63.565(a) (relating to Test Methods and Procedures), for performance testing requirements
 - E. Title 40 CFR § 63.565(c) (relating to Test Methods and Procedures), for vapor tightness requirements of the marine vessels
 - F. Title 40 CFR § 63.566 (relating to Construction and Reconstruction)
 - G. Title 40 CFR § 63.567(a) - (b) and (h) - (i) (relating to Reporting and Recordkeeping Requirements)
11. 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

12. 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.
13. 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

14. 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 January 20, 2025 in the application for project 37608), 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
15. 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.
16. 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

17. 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.
18. 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)
19. 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)

Permit Location

20. 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)

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

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Unit Summary 13

Applicable Requirements Summary 31

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 |
|---------------------------------------|--|----------------------------------|----------------------|--|---------------------------|
| ADD-10 | STORAGE TANKS/VESSELS | N/A | 63EEEE-1 | 40 CFR Part 63, Subpart EEEE | No changing attributes. |
| ADD-14 | STORAGE TANKS/VESSELS | N/A | 115B-7 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| ADD-14 | STORAGE TANKS/VESSELS | N/A | 63EEEE-1 | 40 CFR Part 63, Subpart EEEE | No changing attributes. |
| ADD-2 | STORAGE TANKS/VESSELS | N/A | 115B-3 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| ADD-2 | STORAGE TANKS/VESSELS | N/A | 63EEEE-1 | 40 CFR Part 63, Subpart EEEE | No changing attributes. |
| ADD-3 | STORAGE TANKS/VESSELS | N/A | 115B-3 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| ADD-5 | STORAGE TANKS/VESSELS | N/A | 115B-3 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| ADD-5 | STORAGE TANKS/VESSELS | N/A | 63EEEE-1 | 40 CFR Part 63, Subpart EEEE | No changing attributes. |
| ADD-7 | STORAGE TANKS/VESSELS | N/A | 115B-3 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| ADD-7 | STORAGE TANKS/VESSELS | N/A | 63EEEE-1 | 40 CFR Part 63, Subpart EEEE | No changing attributes. |
| ENG-1 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R111-1 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| ENG-1 | SRIC ENGINES | N/A | 60IIII-1 | 40 CFR Part 60, Subpart IIII | No changing attributes. |
| ENG-1 | SRIC ENGINES | N/A | 63ZZZZ | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| ENG-2 | EMISSION POINTS/STATIONARY | N/A | R1111-2 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|---------------------------------------|--|---|----------------------|---------------------------------------|---|
| | VENTS/PROCESS VENTS | | | | |
| ENG-2 | SRIC ENGINES | N/A | 60III-1 | 40 CFR Part 60, Subpart IIII | No changing attributes. |
| ENG-2 | SRIC ENGINES | N/A | 63ZZZZ | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| ENG-3 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R1111-2 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| ENG-3 | SRIC ENGINES | N/A | 60JJJJ | 40 CFR Part 60, Subpart JJJJ | No changing attributes. |
| ENG-3 | SRIC ENGINES | N/A | 63ZZZZ | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| GRP-ADDTK | STORAGE TANKS/VESSELS | ADD-1, ADD-11, ADD-12, ADD-13, ADD-4, ADD-6 | 115B-3 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| GRP-IFRTK | STORAGE TANKS/VESSELS | TK-101, TK-102, TK-1601, TK-1602, TK-1603, TK-1604, TK-1605, TK-1606, TK-1607, TK-1608, TK-1609, TK-1610, TK-1611, TK-1612, TK-1613, TK-1614, TK-1615, TK-1616, TK-1617, TK-1618, TK-1619, TK-1620, TK-1621, TK-1622, TK-1623, TK-1624, TK-1625, TK-1626, TK-1627, TK-1628, TK-1629, TK-1630, TK-1631, TK-1632, TK- | 115B-1 | 30 TAC Chapter 115, Storage of VOCs | Product Stored = VOC other than crude oil or condensate, Storage Capacity = Capacity is greater than 40,000 gallons |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|--|---------------|--|--|
| | | 1633, TK-1634, TK-1635, TK-1636, TK-1637, TK-1638, TK-1639, TK-1640, TK-1641, TK-1642, TK-1643, TK-1644, TK-1645, TK-1646, TK-1647, TK-1648, TK-1649, TK-1650, TK-1651, TK-1652, TK-1653, TK-1654, TK-1655, TK-1656, TK-1657, TK-201, TK-202, TK-203, TK-204, TK-205, TK-206, TK-207, TK-208, TK-601, TK-602, TK-603, TK-604, TK-605, TK-606, TK-801, TK-802, TK-803, TK-804, TK-805, TK-807, TK-808, TK-809, TK-810, TK-811 | | | |
| GRP-IFRTK | STORAGE TANKS/VESSELS | TK-101, TK-102, TK-1601, TK-1602, TK-1603, TK-1604, TK-1605, TK-1606, TK-1607, TK-1608, TK-1609, TK-1610, TK-1611, TK-1612, TK-1613, TK-1614, TK-1615, TK-1616, TK-1617, TK-1618, TK- | 115B-2 | 30 TAC Chapter 115, Storage of VOCs | Product Stored = Crude oil and/or condensate, Storage Capacity = Capacity is greater than 40,000 gallons |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|--|---------------|----------------------------|--|
| | | 1619, TK-1620, TK-1621, TK-1622, TK-1623, TK-1624, TK-1625, TK-1626, TK-1627, TK-1628, TK-1629, TK-1630, TK-1631, TK-1632, TK-1633, TK-1634, TK-1635, TK-1636, TK-1637, TK-1638, TK-1639, TK-1640, TK-1641, TK-1642, TK-1643, TK-1644, TK-1645, TK-1646, TK-1647, TK-1648, TK-1649, TK-1650, TK-1651, TK-1652, TK-1653, TK-1654, TK-1655, TK-1656, TK-1657, TK-201, TK-202, TK-203, TK-204, TK-205, TK-206, TK-207, TK-208, TK-601, TK-602, TK-603, TK-604, TK-605, TK-606, TK-801, TK-802, TK-803, TK-804, TK-805, TK-807, TK-808, TK-809, TK-810, TK-811 | | | |
| GRP-IFRTK | STORAGE TANKS/VESSELS | TK-101, TK-102, TK-1601, TK-1602, TK-1603, TK-1604, TK- | 60Kb-2 | 40 CFR Part 60, Subpart Kb | Product Stored = Petroleum liquid (other than petroleum or condensate), Maximum True Vapor |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|-----------|---|---------------|------------|---|
| | | 1605, TK-1606, TK-1607, TK-1608, TK-1609, TK-1610, TK-1611, TK-1612, TK-1613, TK-1614, TK-1615, TK-1616, TK-1617, TK-1618, TK-1619, TK-1620, TK-1621, TK-1622, TK-1623, TK-1624, TK-1625, TK-1626, TK-1627, TK-1628, TK-1629, TK-1630, TK-1631, TK-1632, TK-1633, TK-1634, TK-1635, TK-1636, TK-1637, TK-1638, TK-1639, TK-1640, TK-1641, TK-1642, TK-1643, TK-1644, TK-1645, TK-1646, TK-1647, TK-1648, TK-1649, TK-1650, TK-1651, TK-1652, TK-1653, TK-1654, TK-1655, TK-1656, TK-1657, TK-201, TK-202, TK-203, TK-204, TK-205, TK-206, TK-207, TK-208, TK-601, TK-602, TK-603, TK-604, TK-605, TK-606, TK-801, TK-802, TK-803, TK- | | | Pressure = True vapor pressure is greater than or equal to 0.5 psia but less than 0.75 psia |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|--|---------------|----------------------------|---|
| | | 804, TK-805, TK-807, TK-808, TK-809, TK-810, TK-811 | | | |
| GRP-IFRTK | STORAGE TANKS/VESSELS | TK-101, TK-102, TK-1601, TK-1602, TK-1603, TK-1604, TK-1605, TK-1606, TK-1607, TK-1608, TK-1609, TK-1610, TK-1611, TK-1612, TK-1613, TK-1614, TK-1615, TK-1616, TK-1617, TK-1618, TK-1619, TK-1620, TK-1621, TK-1622, TK-1623, TK-1624, TK-1625, TK-1626, TK-1627, TK-1628, TK-1629, TK-1630, TK-1631, TK-1632, TK-1633, TK-1634, TK-1635, TK-1636, TK-1637, TK-1638, TK-1639, TK-1640, TK-1641, TK-1642, TK-1643, TK-1644, TK-1645, TK-1646, TK-1647, TK-1648, TK-1649, TK-1650, TK-1651, TK-1652, TK-1653, TK-1654, TK-1655, TK-1656, TK-1657, TK-201, TK-202, TK-203, TK- | 60Kb-3 | 40 CFR Part 60, Subpart Kb | Product Stored = Petroleum liquid (other than petroleum or condensate), Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|---|---------------|----------------------------|---|
| | | 204, TK-205, TK-206, TK-207, TK-208, TK-601, TK-602, TK-603, TK-604, TK-605, TK-606, TK-801, TK-802, TK-803, TK-804, TK-805, TK-807, TK-808, TK-809, TK-810, TK-811 | | | |
| GRP-IFRTK | STORAGE TANKS/VESSELS | TK-101, TK-102, TK-1601, TK-1602, TK-1603, TK-1604, TK-1605, TK-1606, TK-1607, TK-1608, TK-1609, TK-1610, TK-1611, TK-1612, TK-1613, TK-1614, TK-1615, TK-1616, TK-1617, TK-1618, TK-1619, TK-1620, TK-1621, TK-1622, TK-1623, TK-1624, TK-1625, TK-1626, TK-1627, TK-1628, TK-1629, TK-1630, TK-1631, TK-1632, TK-1633, TK-1634, TK-1635, TK-1636, TK-1637, TK-1638, TK-1639, TK-1640, TK-1641, TK-1642, TK-1643, TK-1644, TK-1645, TK-1646, TK- | 60Kb-4 | 40 CFR Part 60, Subpart Kb | Product Stored = Petroleum (other than crude oil) or condensate stored, processed, and/or treated after custody transfer, Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|---|---------------|----------------------------|--|
| | | 1647, TK-1648, TK-1649, TK-1650, TK-1651, TK-1652, TK-1653, TK-1654, TK-1655, TK-1656, TK-1657, TK-201, TK-202, TK-203, TK-204, TK-205, TK-206, TK-207, TK-208, TK-601, TK-602, TK-603, TK-604, TK-605, TK-606, TK-801, TK-802, TK-803, TK-804, TK-805, TK-807, TK-808, TK-809, TK-810, TK-811 | | | |
| GRP-IFRTK | STORAGE TANKS/VESSELS | TK-101, TK-102, TK-1601, TK-1602, TK-1603, TK-1604, TK-1605, TK-1606, TK-1607, TK-1608, TK-1609, TK-1610, TK-1611, TK-1612, TK-1613, TK-1614, TK-1615, TK-1616, TK-1617, TK-1618, TK-1619, TK-1620, TK-1621, TK-1622, TK-1623, TK-1624, TK-1625, TK-1626, TK-1627, TK-1628, TK-1629, TK-1630, TK-1631, TK-1632, TK- | 60Kb-5 | 40 CFR Part 60, Subpart Kb | Product Stored = Crude oil stored, processed, and/or treated after custody transfer, Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia, Reid Vapor Pressure = Reid vapor pressure is greater than or equal to 2.0 psia |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|--|---------------|----------------------------|---|
| | | 1633, TK-1634, TK-1635, TK-1636, TK-1637, TK-1638, TK-1639, TK-1640, TK-1641, TK-1642, TK-1643, TK-1644, TK-1645, TK-1646, TK-1647, TK-1648, TK-1649, TK-1650, TK-1651, TK-1652, TK-1653, TK-1654, TK-1655, TK-1656, TK-1657, TK-201, TK-202, TK-203, TK-204, TK-205, TK-206, TK-207, TK-208, TK-601, TK-602, TK-603, TK-604, TK-605, TK-606, TK-801, TK-802, TK-803, TK-804, TK-805, TK-807, TK-808, TK-809, TK-810, TK-811 | | | |
| GRP-IFRTK | STORAGE TANKS/VESSELS | TK-101, TK-102, TK-1601, TK-1602, TK-1603, TK-1604, TK-1605, TK-1606, TK-1607, TK-1608, TK-1609, TK-1610, TK-1611, TK-1612, TK-1613, TK-1614, TK-1615, TK-1616, TK-1617, TK-1618, TK- | 60Kb-6 | 40 CFR Part 60, Subpart Kb | Product Stored = Volatile organic liquid, Maximum True Vapor Pressure = True vapor pressure is greater than or equal to 0.75 psia but less than 11.1 psia |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|--|---------------|---------------------------|-------------------------|
| | | 1619, TK-1620, TK-1621, TK-1622, TK-1623, TK-1624, TK-1625, TK-1626, TK-1627, TK-1628, TK-1629, TK-1630, TK-1631, TK-1632, TK-1633, TK-1634, TK-1635, TK-1636, TK-1637, TK-1638, TK-1639, TK-1640, TK-1641, TK-1642, TK-1643, TK-1644, TK-1645, TK-1646, TK-1647, TK-1648, TK-1649, TK-1650, TK-1651, TK-1652, TK-1653, TK-1654, TK-1655, TK-1656, TK-1657, TK-201, TK-202, TK-203, TK-204, TK-205, TK-206, TK-207, TK-208, TK-601, TK-602, TK-603, TK-604, TK-605, TK-606, TK-801, TK-802, TK-803, TK-804, TK-805, TK-807, TK-808, TK-809, TK-810, TK-811 | | | |
| GRP-IFRTK | STORAGE TANKS/VESSELS | TK-101, TK-102, TK-1601, TK-1602, TK-1603, TK-1604, TK- | 63R-1 | 40 CFR Part 63, Subpart R | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|-----------|---|---------------|------------|--------------------|
| | | 1605, TK-1606, TK-1607, TK-1608, TK-1609, TK-1610, TK-1611, TK-1612, TK-1613, TK-1614, TK-1615, TK-1616, TK-1617, TK-1618, TK-1619, TK-1620, TK-1621, TK-1622, TK-1623, TK-1624, TK-1625, TK-1626, TK-1627, TK-1628, TK-1629, TK-1630, TK-1631, TK-1632, TK-1633, TK-1634, TK-1635, TK-1636, TK-1637, TK-1638, TK-1639, TK-1640, TK-1641, TK-1642, TK-1643, TK-1644, TK-1645, TK-1646, TK-1647, TK-1648, TK-1649, TK-1650, TK-1651, TK-1652, TK-1653, TK-1654, TK-1655, TK-1656, TK-1657, TK-201, TK-202, TK-203, TK-204, TK-205, TK-206, TK-207, TK-208, TK-601, TK-602, TK-603, TK-604, TK-605, TK-606, TK-801, TK-802, TK-803, TK- | | | |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|------------------------------|---|---------------|--|--|
| | | 804, TK-805, TK-807, TK-808, TK-809, TK-810, TK-811 | | | |
| MLOAD | LOADING/UNLOADING OPERATIONS | N/A | 115C-1 | 30 TAC Chapter 115, Loading and Unloading of VOC | Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected., Product Transferred = Gasoline, True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Chapter 115 Control Device Type = Vapor control system with a carbon adsorption system., Transfer Type = Only unloading., Control Options = Vapor control system that maintains a control efficiency of at least 90%. |
| MLOAD | LOADING/UNLOADING OPERATIONS | N/A | 115C-2 | 30 TAC Chapter 115, Loading and Unloading of VOC | Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected., Marine Terminal Exemptions = The marine terminal is not claiming one or more of the loading exemptions in 30 TAC § 115.217(a)(5)(B)., Product Transferred = Gasoline, True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|------------------------------|--------------------------|---------------|--|--|
| | | | | | do not apply to marine terminals or gasoline terminals., Chapter 115 Control Device Type = Vapor control system with a carbon adsorption system., Transfer Type = Only loading., Control Options = Vapor control system that maintains a control efficiency of at least 90%. |
| MLOAD | LOADING/UNLOADING OPERATIONS | N/A | 115C-3 | 30 TAC Chapter 115, Loading and Unloading of VOC | Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected., Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline., True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Chapter 115 Control Device Type = Vapor control system with a carbon adsorption system., Transfer Type = Only unloading., Control Options = Vapor control system that maintains a control efficiency of at least 90%. |
| MLOAD | LOADING/UNLOADING OPERATIONS | N/A | 115C-4 | 30 TAC Chapter 115, Loading and Unloading of VOC | Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected., Marine Terminal Exemptions = The marine terminal is not claiming one or more of the loading exemptions in 30 TAC § 115.217(a)(5)(B)., Product Transferred = Volatile organic |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|------------------------------|--------------------------|---------------|--|--|
| | | | | | <p>compounds other than liquefied petroleum gas and gasoline., True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals., Chapter 115 Control Device Type = Vapor control system with a carbon adsorption system., Transfer Type = Only loading., Control Options = Vapor control system that maintains a control efficiency of at least 90%.</p> |
| MLOAD | LOADING/UNLOADING OPERATIONS | N/A | 115C-5 | 30 TAC Chapter 115, Loading and Unloading of VOC | <p>Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline., True Vapor Pressure = True vapor pressure less than 0.5 psia., Transfer Type = Only unloading.</p> |
| MLOAD | LOADING/UNLOADING OPERATIONS | N/A | 115C-6 | 30 TAC Chapter 115, Loading and Unloading of VOC | <p>Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline., True Vapor Pressure = True vapor pressure less than 0.5 psia., Transfer Type = Only loading.</p> |
| MLOAD | FUGITIVE EMISSION UNITS | N/A | 115C-1 | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | <p>No changing attributes.</p> |
| MLOAD | LOADING/UNLOADING OPERATIONS | N/A | 63Y-2 | 40 CFR Part 63, Subpart Y | <p>Material Loaded = Both gasoline and crude oil, HAP Impurities Only =</p> |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---------------------------------|--------------------------|---------------|--|---|
| | | | | | Marine vessel loading operations at loading berths only transfer liquids containing organic hazardous air pollutants (HAPs) as impurities. |
| MLOAD | LOADING/UNLOADING OPERATIONS | N/A | 63Y-3 | 40 CFR Part 63, Subpart Y | HAP Impurities Only = Marine vessel loading operations at loading berths transfer liquids containing organic hazardous air pollutants other than as impurities., Material Loaded = Material other than crude oil or gasoline. |
| MUNLOAD | LOADING/UNLOADING OPERATIONS | N/A | 115C-10 | 30 TAC Chapter 115, Loading and Unloading of VOC | Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected., Product Transferred = Gasoline, True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Chapter 115 Control Device Type = No control device., Control Options = Vapor control system that maintains a control efficiency of at least 90%. |
| MUNLOAD | LOADING/UNLOADING OPERATIONS | N/A | 115C-11 | 30 TAC Chapter 115, Loading and Unloading of VOC | Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected., Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline., True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Chapter 115 |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--|--------------------------|---------------|--|--|
| | | | | | Control Device Type = No control device., Control Options = Vapor control system that maintains a control efficiency of at least 90%. |
| MUNLOAD | LOADING/UNLOADING OPERATIONS | N/A | 115C-12 | 30 TAC Chapter 115, Loading and Unloading of VOC | Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline., True Vapor Pressure = True vapor pressure less than 0.5 psia. |
| TK-103 | STORAGE TANKS/VESSELS | N/A | 115B-8 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TKVCU-1 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R111-1 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| TKVCU-2 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R111-1 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| TKVCU-3 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R111-1 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| TLOAD | LOADING/UNLOADING OPERATIONS | N/A | 115C-7 | 30 TAC Chapter 115, Loading and Unloading of VOC | Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected., Vapor Space Holding Tank = Gasoline terminal does not have a variable vapor space holding tank design that can process vapors independent of transport vessel loading or is choosing to comply with 30 TAC § 115.212(a)(4)(C) or |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|------------------------------|--------------------------|---------------|--|--|
| | | | | | (b)(4)(C), Product Transferred = Gasoline, True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals., Chapter 115 Control Device Type = Vapor control system with a carbon adsorption system. |
| TLOAD | LOADING/UNLOADING OPERATIONS | N/A | 115C-8 | 30 TAC Chapter 115, Loading and Unloading of VOC | Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected., Vapor Space Holding Tank = Gasoline terminal does not have a variable vapor space holding tank design that can process vapors independent of transport vessel loading or is choosing to comply with 30 TAC § 115.212(a)(4)(C) or (b)(4)(C), Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline., True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals., Chapter 115 Control Device Type = |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---------------------------------|--------------------------|---------------|--|---|
| | | | | | Vapor control system with a carbon adsorption system. |
| TLOAD | LOADING/UNLOADING OPERATIONS | N/A | 115C-9 | 30 TAC Chapter 115, Loading and Unloading of VOC | Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline., True Vapor Pressure = True vapor pressure less than 0.5 psia. |
| TLOAD | LOADING/UNLOADING OPERATIONS | N/A | 60XX-2 | 40 CFR Part 60, Subpart XX | No changing attributes. |
| TLOAD | LOADING/UNLOADING OPERATIONS | N/A | 63R | 40 CFR Part 63, Subpart R | No changing attributes. |
| WW-1 | STORAGE TANKS/VESSELS | N/A | 115B-9 | 30 TAC Chapter 115, Storage of VOCs | 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) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|-------------------------------------|---|--|
| ADD-10 | EU | 63EEEE-1 | 112(B) HAPS | 40 CFR Part 63, Subpart EEEE | § 63.2343(a) | For each storage tank subject to this subpart having a capacity of less than 18.9 cubic meters (5,000 gallons) you must keep documentation that verifies that each storage tank identified in §63.2343(a) is not required to be controlled. | None | § 63.2343(a) | None |
| ADD-14 | EU | 115B-7 | 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 |
| ADD-14 | EU | 63EEEE-1 | 112(B) HAPS | 40 CFR Part 63, Subpart EEEE | § 63.2343(b) | Except as specified in §63.2343(b)(4), for each storage tank subject to this subpart having a capacity of 18.9 cubic meters (5,000 gallons) or more that is not subject to control based on the criteria specified in Table 2 to this subpart, items 3 through 6 or in Table 2b to this subpart, items 1 through 3, you must comply with the requirements specified in §63.2343(b)(1) through (3). | None | § 63.2343(b)(3) | [G]§ 63.2343(b)(1)(i) § 63.2343(b)(2)(i) § 63.2343(b)(2)(ii) § 63.2386(b) [G]§ 63.2386(b)(1) [G]§ 63.2386(b)(2) § 63.2386(b)(3) § 63.2386(b)-Table 11.1.a § 63.2386(c) § 63.2386(c)(1) § 63.2386(c)(10)(i) § 63.2386(c)(10)(ii) § 63.2386(c)(2) § 63.2386(c)(3) § 63.2386(d) § 63.2386(d)(4)(i) § 63.2386(f) [G]§ 63.2386(i) [G]§ 63.2386(j) |
| ADD-2 | EU | 115B-3 | 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) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|---|-------------------------------------|---|---|
| | | | | 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) | |
| ADD-2 | EU | 63EEEE-1 | 112(B) HAPS | 40 CFR Part 63, Subpart EEEE | § 63.2343(a) | For each storage tank subject to this subpart having a capacity of less than 18.9 cubic meters (5,000 gallons) you must keep documentation that verifies that each storage tank identified in §63.2343(a) is not required to be controlled. | None | § 63.2343(a) | None |
| ADD-3 | EU | 115B-3 | 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 |
| ADD-5 | EU | 115B-3 | 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 |
| ADD-5 | EU | 63EEEE-1 | 112(B) HAPS | 40 CFR Part 63, Subpart EEEE | § 63.2343(a) | For each storage tank subject to this subpart having a capacity of less than 18.9 cubic meters (5,000 gallons) you must keep documentation that verifies that each storage | None | § 63.2343(a) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|---|---|--|
| | | | | | | tank identified in §63.2343(a) is not required to be controlled. | | | |
| ADD-7 | EU | 115B-3 | 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 |
| ADD-7 | EU | 63EEEE-1 | 112(B) HAPS | 40 CFR Part 63, Subpart EEEE | § 63.2343(b) | Except as specified in §63.2343(b)(4), for each storage tank subject to this subpart having a capacity of 18.9 cubic meters (5,000 gallons) or more that is not subject to control based on the criteria specified in Table 2 to this subpart, items 3 through 6 or in Table 2b to this subpart, items 1 through 3, you must comply with the requirements specified in §63.2343(b)(1) through (3). | None | § 63.2343(b)(3) | [G]§ 63.2343(b)(1)(i) § 63.2343(b)(2)(i) § 63.2343(b)(2)(ii) § 63.2386(b) [G]§ 63.2386(b)(1) [G]§ 63.2386(b)(2) § 63.2386(b)(3) § 63.2386(b)-Table 11.1.a § 63.2386(c) § 63.2386(c)(1) § 63.2386(c)(10)(i) § 63.2386(c)(10)(ii) § 63.2386(c)(2) § 63.2386(c)(3) § 63.2386(d) § 63.2386(d)(4)(i) § 63.2386(f) [G]§ 63.2386(i) [G]§ 63.2386(j) |
| ENG-1 | EP | R111-1 | Opacity | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(B) § 111.111(a)(1)(E) | Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972. | [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|--------------------------|---------------------------------------|--|--|-------------------------------------|---|---|
| ENG-1 | EU | 60III-1 | NMHC and NO _x | 40 CFR Part 60, Subpart IIII | § 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) | Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with an NMHC+NO _x emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart. | § 60.4209(a) | § 60.4214(b) | [G]§ 60.4214(d) |
| ENG-1 | EU | 60III-1 | PM | 40 CFR Part 60, Subpart IIII | § 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) | Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart. | § 60.4209(a) | § 60.4214(b) | [G]§ 60.4214(d) |
| ENG-1 | EU | 63ZZZZ | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6590(b)(1) § 63.6595(c) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3) | An affected source which meets either of the criteria in paragraphs §63.6590(b)(1)(i)-(ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of | None | None | § 63.6645(f) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|--------------------------|---------------------------------------|---|--|---|---|---|
| | | | | | | §63.6645(f). | | | |
| ENG-2 | EP | R1111-2 | Opacity | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(B) § 111.111(a)(1)(E) | Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972. | [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary | None | None |
| ENG-2 | EU | 60III-1 | NMHC and NO _x | 40 CFR Part 60, Subpart IIII | § 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) | Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with an NMHC+NO _x emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart. | § 60.4209(a) | § 60.4214(b) | [G]§ 60.4214(d) |
| ENG-2 | EU | 60III-1 | PM | 40 CFR Part 60, Subpart IIII | § 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) | Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart. | § 60.4209(a) | § 60.4214(b) | [G]§ 60.4214(d) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|--|--|---|--|--|
| ENG-2 | EU | 63ZZZZ | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6590(b)(1) § 63.6595(c) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3) | An affected source which meets either of the criteria in paragraphs §63.6590(b)(1)(i)-(ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f). | None | None | § 63.6645(f) |
| ENG-3 | EP | R1111-2 | Opacity | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(B) § 111.111(a)(1)(E) | Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972. | [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary | None | None |
| ENG-3 | EU | 60JJJJ | CO | 40 CFR Part 60, Subpart JJJJ | § 60.4233(e)-Table 1 § 60.4234 § 60.4243(b) § 60.4243(b)(2) § 60.4243(b)(2)(ii) [G]§ 60.4243(d) § 60.4243(g) | Owners and operators of stationary emergency SI ICE with a maximum engine power greater than or equal to 130 HP and were manufactured on or after 01/01/2009 must comply with a CO emission limit of 4.0 g/HP-hr, as listed in Table 1 to this subpart. | § 60.4237(a) § 60.4243(b)(2)(ii) § 60.4244(a) § 60.4244(b) § 60.4244(c) § 60.4244(e) | § 60.4243(b)(2)(ii) § 60.4245(a) § 60.4245(a)(1) § 60.4245(a)(2) § 60.4245(a)(4) § 60.4245(b) | [G]§ 60.4245(c) § 60.4245(d) [G]§ 60.4245(e) |
| ENG-3 | EU | 60JJJJ | NO _x | 40 CFR Part 60, Subpart JJJJ | § 60.4233(e)-Table 1 § 60.4234 § 60.4243(b) § 60.4243(b)(2) § 60.4243(b)(2)(ii) [G]§ 60.4243(d) § 60.4243(g) | Owners and operators of stationary emergency SI ICE with a maximum engine power greater than or equal to 130 HP and were manufactured on or after 01/01/2009 must comply with a NO _x emission limit of 2.0 g/HP-hr, as listed in | § 60.4237(a) § 60.4243(b)(2)(ii) § 60.4244(a) § 60.4244(b) § 60.4244(c) § 60.4244(d) | § 60.4243(b)(2)(ii) § 60.4245(a) § 60.4245(a)(1) § 60.4245(a)(2) § 60.4245(a)(4) § 60.4245(b) | [G]§ 60.4245(c) § 60.4245(d) [G]§ 60.4245(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) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|--|---|--|--|
| | | | | | | Table 1 to this subpart. | | | |
| ENG-3 | EU | 60JJJJ | VOC | 40 CFR Part 60, Subpart JJJJ | § 60.4233(e)-Table 1 § 60.4234 § 60.4243(b) § 60.4243(b)(2) § 60.4243(b)(2)(ii) [G]§ 60.4243(d) § 60.4243(g) | Owners and operators of stationary emergency SI ICE with a maximum engine power greater than or equal to 130 HP and were manufactured on or after 01/01/2009 must comply with a VOC emission limit of 1.0 g/HP-hr, as listed in Table 1 to this subpart. | § 60.4237(a) § 60.4243(b)(2)(ii) § 60.4244(a) § 60.4244(b) § 60.4244(c) § 60.4244(f) § 60.4244(g) | § 60.4243(b)(2)(ii) § 60.4245(a) § 60.4245(a)(1) § 60.4245(a)(2) § 60.4245(a)(4) § 60.4245(b) | [G]§ 60.4245(c) § 60.4245(d) [G]§ 60.4245(e) |
| ENG-3 | EU | 63ZZZZ | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6590(b)(1) § 63.6595(c) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3) | An affected source which meets either of the criteria in paragraphs §63.6590(b)(1)(i)-(ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f). | None | None | § 63.6645(f) |
| GRP-ADDTK | EU | 115B-3 | 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 |
| GRP-IFRTK | EU | 115B-1 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|--|---|---|
| | | | | | 115.112(e)(2)(I) § 115.114(a)(1)(A) | atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | | | |
| GRP-IFRTK | EU | 115B-2 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) |
| GRP-IFRTK | EU | 60Kb-2 | VOC | 40 CFR Part 60, Subpart Kb | § 60.110b(a) | Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,813 gal) used to store VOLs for which construction/reconstruction/ modification began after 7/23/1984. | § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2) § 60.116b(e)(2)(i) | § 60.116b(a) § 60.116b(b) § 60.116b(c) | § 60.116b(d) |
| GRP-IFRTK | EU | 60Kb-3 | VOC | 40 CFR Part 60, Subpart Kb | § 60.112b(a)(1) § 60.112b(a)(1)(I) § | Storage vessels specified in §60.112b(a) and equipped with a fixed roof in | § 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) | § 60.115b § 60.115b(a)(2) § 60.116b(a) | § 60.113b(a)(2) § 60.113b(a)(5) § 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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|--|--|---|
| | | | | | 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) | combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix). | § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2) § 60.116b(e)(2)(i) | § 60.116b(b) § 60.116b(c) | § 60.115b(a)(1) § 60.115b(a)(3) |
| GRP-IFRTK | EU | 60Kb-4 | VOC | 40 CFR Part 60, Subpart Kb | § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) | Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix). | § 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) | § 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c) | § 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) |
| GRP-IFRTK | EU | 60Kb-5 | VOC | 40 CFR Part 60, Subpart Kb | § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) | Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix). | § 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2) § 60.116b(e)(2)(i) | § 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c) | § 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) |
| GRP-IFRTK | EU | 60Kb-6 | VOC | 40 CFR Part 60, Subpart Kb | § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) | Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix). | § 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) | § 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c) | § 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|--|--|---|
| | | | | | § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) | | § 60.116b(e)(1) [G]§ 60.116b(e)(3) | | |
| GRP-IFRTK | EU | 63R-1 | TOC | 40 CFR Part 63, Subpart R | § 63.423(a) § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) | Bulk gasoline terminals/pipeline breakout stations shall equip gasoline storage vessels with a capacity > 75 m ³ as in § 60.112b(a)(1)-(4), except § 60.112b(a)(1)(iv)-(ix) and § 60.112b(a)(2)(ii). | § 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2) § 60.116b(e)(2)(i) § 63.425(d) § 63.427(c) | § 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 63.427(c) § 63.428(d) | § 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) § 60.116b(d) § 63.428(d) § 63.428(g) § 63.428(g)(2) |
| MLOAD | EU | 115C-1 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(5)(B) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(i) | Unloading of marine vessels is exempt from the requirements of §§115.212(a), 115.214(a), and 115.216 of this title, except as noted. | § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.214(a)(3)(F) | § 115.216 § 115.216(2) | None |
| MLOAD | EU | 115C-2 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.212(a)(6)(A) § 115.212(a)(6)(B) [G]§ 115.212(a)(6)(C) § 115.212(a)(6)(D) [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(C) § 115.214(a)(3)(D) § 115.214(a)(3)(E) | At marine terminals, VOC emissions shall not exceed 0.09 pound from the vapor control system vent per 1,000 gallons (10.8kgm/liter) of VOC loaded into the marine vessel, or a vapor control system with 90% efficiency, or a vapor balance system or pressurized loading may be used. | [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(A) § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.214(a)(3)(B)(ii) § 115.214(a)(3)(B)(iii) § 115.214(a)(3)(D) § 115.214(a)(3)(F) § 115.215 § 115.215(1) § 115.215(10) | [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(D) § 115.216 § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iii) § 115.216(2) [G]§ 115.216(4) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| | | | | | | | [G]§ 115.215(2) § 115.215(4) § 115.215(5) § 115.215(7) § 115.215(8) § 115.215(9) § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iii) | | |
| MLOAD | EU | 115C-3 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(5)(B) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(i) | Unloading of marine vessels is exempt from the requirements of §§115.212(a), 115.214(a), and 115.216 of this title, except as noted. | § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.214(a)(3)(F) | § 115.216 § 115.216(2) | None |
| MLOAD | EU | 115C-4 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.212(a)(6)(A) § 115.212(a)(6)(B) [G]§ 115.212(a)(6)(C) § 115.212(a)(6)(D) [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(C) § 115.214(a)(3)(D) § 115.214(a)(3)(E) | At marine terminals, VOC emissions shall not exceed 0.09 pound from the vapor control system vent per 1,000 gallons (10.8kmg/liter) of VOC loaded into the marine vessel, or a vapor control system with 90% efficiency, or a vapor balance system or pressurized loading may be used. | [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.214(a)(3)(B)(ii) § 115.214(a)(3)(B)(iii) § 115.214(a)(3)(D) § 115.214(a)(3)(F) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(5) § 115.215(7) § 115.215(8) § 115.215(9) § 115.216(1) § 115.216(1)(A) | [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(D) § 115.216 § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iii) § 115.216(2) [G]§ 115.216(4) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|---|
| | | | | | | | § 115.216(1)(A)(iii) | | |
| MLOAD | EU | 115C-5 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(5)(B) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(i) | Unloading of marine vessels is exempt from the requirements of §§115.212(a), 115.214(a), and 115.216 of this title, except as noted. | § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.214(a)(3)(F) | § 115.216 § 115.216(2) | None |
| MLOAD | EU | 115C-6 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(5)(B) § 115.212(a)(6)(D) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(iii) | The marine vessel loading operations specified in §115.217(a)(5)(B)(ii)-(iv) are exempt from the requirements of §§115.212(a), 115.214(a), and 115.216 of this title, except as noted. | § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.214(a)(3)(F) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) | None |
| MLOAD | EU | 115C-1 | 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 |
| MLOAD | EU | 115C-1 | 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) | No flanges or other connectors contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be | § 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) | § 115.352(7) § 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(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8) | 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(9) [G]§ 115.355 § 115.357(1) | § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | |
| MLOAD | EU | 115C-1 | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8) | No pump seals contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| MLOAD | EU | 115C-1 | 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) | 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 | § 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) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual 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) | process fluid based on sight, smell, or sound. | | | |
| MLOAD | EU | 115C-1 | 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) |
| MLOAD | EU | 115C-1 | 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 |
| MLOAD | EU | 63Y-2 | VOC | 40 CFR Part 63, Subpart Y | § 63.562(c) [G]§ 63.562(c)(2) § 63.562(c)(3) § 63.562(c)(4) § 63.562(c)(5) [G]§ 63.562(c)(6) § 63.562(e) § 63.562(e)(1) [G]§ 63.562(e)(2) [G]§ 63.562(e)(3) § 63.562(e)(4) | Marine tank vessel loading operations shall apply RACT standards, except for the VMT source. | [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.563(b)(3) § 63.563(b)(6) § 63.563(b)(6)(i) § 63.563(b)(6)(ii) § 63.563(b)(6)(iii)(A) § 63.563(b)(6)(iii) [G]§ 63.563(c) § 63.564(a)(2) § 63.564(a)(3) | § 63.562(e)(5) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.564(g)(1) § 63.567(f) [G]§ 63.567(g) [G]§ 63.567(k) | § 63.562(c)(1) § 63.562(e)(7)(ii) § 63.564(a)(5) [G]§ 63.567(b)(2) § 63.567(b)(3) [G]§ 63.567(b)(4) § 63.567(c) § 63.567(e)(1) [G]§ 63.567(e)(2) § 63.567(e)(3) § 63.567(e)(4) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|----------------|--|--|--|--|--|---|
| | | | | | § 63.562(e)(5) § 63.562(e)(6) § 63.562(e)(7) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.563(a)(2) § 63.563(a)(3) | | § 63.564(a)(4) § 63.564(a)(5) § 63.564(c) § 63.564(g)(1) [G]§ 63.565(b) § 63.565(g) § 63.565(l) | | § 63.567(e)(5) § 63.567(e)(6) § 63.567(f) § 63.567(m) § 63.567(n)(1) § 63.567(n)(2) |
| MLOAD | EU | 63Y-3 | 112(B) HAPS | 40 CFR Part 63, Subpart Y | § 63.562(b) [G]§ 63.562(b)(1) § 63.562(b)(3) § 63.562(b)(5) [G]§ 63.562(b)(6) § 63.562(e) § 63.562(e)(1) [G]§ 63.562(e)(2) [G]§ 63.562(e)(3) § 63.562(e)(4) § 63.562(e)(5) § 63.562(e)(6) § 63.562(e)(7) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.563(a)(2) § 63.563(a)(3) | Marine tank vessel loading operations shall apply MACT standards, except for the VMT source. | [G]§ 63.562(b)(6) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.563(b)(10) § 63.563(b)(3) § 63.563(b)(6) § 63.563(b)(6)(i) § 63.563(b)(6)(ii) § 63.563(b)(6)(iii)(A) [G]§ 63.563(c) § 63.564(a)(2) § 63.564(a)(3) § 63.564(a)(4) § 63.564(a)(5) § 63.564(c) § 63.564(g)(1) [G]§ 63.565(b) § 63.565(g) § 63.565(l) | [G]§ 63.562(b)(6) § 63.562(e)(5) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.564(g)(1) § 63.567(f) [G]§ 63.567(g) § 63.567(j)(1) § 63.567(j)(2) [G]§ 63.567(k) | [G]§ 63.562(b)(6) § 63.562(e)(7)(ii) § 63.564(a)(5) [G]§ 63.567(b)(2) § 63.567(b)(3) [G]§ 63.567(b)(4) § 63.567(b)(5) § 63.567(c) § 63.567(e)(1) [G]§ 63.567(e)(2) § 63.567(e)(3) § 63.567(e)(4) § 63.567(e)(5) § 63.567(e)(6) § 63.567(f) § 63.567(j)(3) § 63.567(m) § 63.567(n)(1) § 63.567(n)(2) |
| MUNLOAD | EU | 115C-10 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(5)(B) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(i) | Unloading of marine vessels is exempt from the requirements of §§115.212(a), 115.214(a), and 115.216 of this title, except as noted. | § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) | § 115.216 § 115.216(2) | None |
| MUNLOAD | EU | 115C-11 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(5)(B) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) | Unloading of marine vessels is exempt from the requirements of §§115.212(a), 115.214(a), and 115.216 of this title, | § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) | § 115.216 § 115.216(2) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|---|---|
| | | | | | § 115.217(a)(5)(B)(i) | except as noted. | | | |
| MUNLOAD | EU | 115C-12 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(5)(B) § 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(i) | Unloading of marine vessels is exempt from the requirements of §§115.212(a), 115.214(a), and 115.216 of this title, except as noted. | § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) | § 115.216 § 115.216(2) | None |
| TK-103 | EU | 115B-8 | 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 |
| TKVCU-1 | EP | R111-1 | 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 |
| TKVCU-2 | EP | R111-1 | 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 |
| TKVCU-3 | EP | R111-1 | 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 | [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|---|--|---|---|
| | | | | | | period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed. | Summary | | |
| TLOAD | EU | 115C-7 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.211(1) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.212(a)(3)(E) § 115.212(a)(4)(A) § 115.212(a)(4)(B) § 115.212(a)(4)(C) § 115.214(a)(1)(B) § 115.214(a)(1)(C) | In the Beaumont-Port Arthur, Bexar County, Dallas-Fort Worth, El Paso, and Houston-Galveston-Brazoria areas, gasoline terminals shall ensure that VOC emissions do not exceed 0.09 pound per 1,000 gallons (10.8 mg/liter) of gasoline loaded into transport vessels. | § 115.212(a)(3)(B) § 115.212(a)(4)(C) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.214(a)(2) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(6) § 115.215(9) § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iii) ** See CAM Summary | § 115.216 § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iii) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B) [G]§ 115.216(3)(E) | None |
| TLOAD | EU | 115C-8 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.211(1) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.212(a)(3)(E) § 115.212(a)(4)(A) § 115.212(a)(4)(B) | In the Beaumont-Port Arthur, Bexar County, Dallas-Fort Worth, El Paso, and Houston-Galveston-Brazoria areas, gasoline terminals shall ensure that VOC emissions do not exceed 0.09 pound per 1,000 gallons (10.8 mg/liter) of gasoline loaded into transport vessels. | § 115.212(a)(3)(B) § 115.212(a)(4)(C) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.214(a)(2) § 115.215 § 115.215(1) | § 115.216 § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iii) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B) [G]§ 115.216(3)(E) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|---|--|---|---|
| | | | | | § 115.212(a)(4)(C) § 115.214(a)(1)(B) § 115.214(a)(1)(C) | | § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(6) § 115.215(9) § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iii) ** See CAM Summary | | |
| TLOAD | EU | 115C-9 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i) | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified. | § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(B) | None |
| TLOAD | EU | 60XX-2 | TOC | 40 CFR Part 60, Subpart XX | § 60.502(a) § 60.502(b) § 60.502(d) § 60.502(g) § 60.502(h) § 60.502(i) | Each bulk gasoline terminal facility shall be equipped with a vapor collection system designed to collect the total organic compounds vapors displaced from tank trucks during product loading. | § 60.502(j) § 60.503(a) § 60.503(b) § 60.503(c)(1) § 60.503(c)(3) § 60.503(c)(4) § 60.503(c)(5)(ii) § 60.503(c)(6) § 60.503(c)(7) § 60.503(d) § 60.503(d)(1) § 60.503(d)(2) ** See CAM Summary | § 60.502(j) § 60.503(c)(4) § 60.503(d)(2) [G]§ 60.505(c) [G]§ 60.505(e) | [G]§ 60.505(e) |
| TLOAD | EU | 63R | TOC | 40 CFR Part 63, Subpart R | § 63.422(a) § 60.502(a) § 60.502(d) § 60.502(g) § 60.502(h) | Each owner or operator of loading racks at a bulk gasoline terminal shall comply with the requirements in § 60.502 of | § 60.503(a) § 60.503(b) § 60.503(c)(1) § 60.503(c)(3) § 60.503(c)(4) | § 60.503(c)(4) § 60.503(d)(2) § 63.425(b)(1) § 63.425(c) § 63.428(c)(1) | § 63.428(c)(2) § 63.428(c)(2)(i) § 63.428(h)(1) [G]§ 63.428(k) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|---|---|---|---|
| | | | | | § 60.502(i) § 63.422(b) § 63.422(e) § 63.422(e)(1) § 63.422(e)(2) § 63.427(b) | this chapter except for Paragraphs (b), (c), and (j) of that section. | § 60.503(c)(5)(ii) § 60.503(c)(6) § 60.503(c)(7) § 60.503(d) § 60.503(d)(1) § 60.503(d)(2) § 63.425(a) § 63.425(a)(1) § 63.425(a)(1)(i) § 63.425(a)(1)(ii) § 63.425(b) § 63.425(b)(1) § 63.425(b)(2) § 63.425(b)(3) § 63.425(c) § 63.427(a) § 63.427(a)(1) § 63.427(b) | § 63.428(c)(2) § 63.428(c)(2)(i) [G]§ 63.428(k) | |
| WW-1 | EU | 115B-9 | 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 |

Additional Monitoring Requirements

Compliance Assurance Monitoring Summary 51

Periodic Monitoring Summary 54

CAM Summary

| Unit/Group/Process Information | |
|--|--|
| ID No.: TLOAD | |
| Control Device ID No.: TLVRU | Control Device Type: Carbon adsorption system (regenerative) |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Loading and Unloading of VOC | SOP Index No.: 115C-7 |
| Pollutant: VOC | Main Standard: § 115.211(1) |
| Monitoring Information | |
| Indicator: VOC Concentration | |
| Minimum Frequency: four times per hour | |
| Averaging Period: one hour | |
| Deviation Limit: Maximum VOC concentration shall not exceed 1,100 ppmv. | |
| CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record the concentration of organic compounds in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the performance specifications of 40 CFR Part 60, Appendix B. | |

CAM Summary

| Unit/Group/Process Information | |
|--|--|
| ID No.: TLOAD | |
| Control Device ID No.: TLVRU | Control Device Type: Carbon adsorption system (regenerative) |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Loading and Unloading of VOC | SOP Index No.: 115C-8 |
| Pollutant: VOC | Main Standard: § 115.211(1) |
| Monitoring Information | |
| Indicator: VOC Concentration | |
| Minimum Frequency: four times per hour | |
| Averaging Period: one hour | |
| Deviation Limit: Maximum VOC concentration shall not exceed 1,100 ppmv. | |
| CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record the concentration of organic compounds in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the performance specifications of 40 CFR Part 60, Appendix B. | |

CAM Summary

| Unit/Group/Process Information | |
|--|--|
| ID No.: TLOAD | |
| Control Device ID No.: TLVRU | Control Device Type: Carbon adsorption system (regenerative) |
| Applicable Regulatory Requirement | |
| Name: 40 CFR Part 60, Subpart XX | SOP Index No.: 60XX-2 |
| Pollutant: TOC | Main Standard: § 60.502(a) |
| Monitoring Information | |
| Indicator: VOC Concentration | |
| Minimum Frequency: four times per hour | |
| Averaging Period: one hour | |
| Deviation Limit: Maximum VOC concentration shall not exceed 1,100 ppmv. | |
| CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record the concentration of organic compounds in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the performance specifications of 40 CFR Part 60, Appendix B. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|-----------------------------------|
| ID No.: ENG-1 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: R111-1 |
| Pollutant: Opacity | Main Standard: § 111.111(a)(1)(B) |
| Monitoring Information | |
| Indicator: Visible Emissions | |
| Minimum Frequency: once per calendar quarter | |
| Averaging Period: N/A | |
| Deviation Limit: Opacity shall not exceed 20% 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.: ENG-2 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: R1111-2 |
| Pollutant: Opacity | Main Standard: § 111.111(a)(1)(B) |
| Monitoring Information | |
| Indicator: Visible Emissions | |
| Minimum Frequency: once per calendar quarter | |
| Averaging Period: N/A | |
| Deviation Limit: Opacity shall not exceed 20% 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.: ENG-3 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: R1111-2 |
| Pollutant: Opacity | Main Standard: § 111.111(a)(1)(B) |
| Monitoring Information | |
| Indicator: Visible Emissions | |
| Minimum Frequency: once per calendar quarter | |
| Averaging Period: N/A | |
| Deviation Limit: Opacity shall not exceed 20% 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.: TKVCU-1 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: R111-1 |
| Pollutant: Opacity | Main Standard: § 111.111(a)(1)(C) |
| Monitoring Information | |
| Indicator: Visible Emissions | |
| Minimum Frequency: once per calendar quarter | |
| Averaging Period: N/A | |
| Deviation Limit: Opacity 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.: TKVCU-2 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: R111-1 |
| Pollutant: Opacity | Main Standard: § 111.111(a)(1)(C) |
| Monitoring Information | |
| Indicator: Visible Emissions | |
| Minimum Frequency: once per calendar quarter | |
| Averaging Period: N/A | |
| Deviation Limit: Opacity 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.: TKVCU-3 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: R111-1 |
| Pollutant: Opacity | Main Standard: § 111.111(a)(1)(C) |
| Monitoring Information | |
| Indicator: Visible Emissions | |
| Minimum Frequency: once per calendar quarter | |
| Averaging Period: N/A | |
| Deviation Limit: Opacity 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> | |

Permit Shield

Permit Shield 61

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 |
|-------------------------------|-------------------------|-------------------------------------|--|
| ADD-10 | N/A | 30 TAC Chapter 115, Storage of VOCs | Storage tanks with storage capacity less than 1,000 gallons are exempt from the requirements of this division. |
| ADD-10 | N/A | 40 CFR Part 60, Subpart Kb | Storage tank with storage capacity less than 75 cubic meter (19,812 gallon) are exempt. |
| ADD-10 | N/A | 40 CFR Part 63, Subpart R | Storage tanks are not gasoline storage vessels. |
| ADD-14 | N/A | 40 CFR Part 60, Subpart Kb | Storage tank with storage capacity less than 75 cubic meter (19,812 gallon) are exempt. |
| ADD-14 | N/A | 40 CFR Part 63, Subpart R | Storage tank is not a gasoline storage vessel. |
| ADD-2 | N/A | 40 CFR Part 60, Subpart Kb | Storage tank with storage capacity less than 75 cubic meter (19,812 gallon) are exempt. |
| ADD-2 | N/A | 40 CFR Part 63, Subpart R | Storage tanks are not gasoline storage vessels. |
| ADD-3 | N/A | 40 CFR Part 60, Subpart Kb | Storage tanks with storage capacity less than 75 cubic meter (19,812 gallon) are exempt. |
| ADD-3 | N/A | 40 CFR Part 63, Subpart EEEE | Tank is not in organic liquids service since contents of tank contain less than 5% by weight of organic HAP listed in Table 1. |
| ADD-3 | N/A | 40 CFR Part 63, Subpart R | Storage tanks are not gasoline storage vessels. |
| ADD-5 | N/A | 40 CFR Part 60, Subpart Kb | Storage tanks with storage capacity less than 75 cubic meters (19,812 gallon) are exempt. |
| ADD-5 | N/A | 40 CFR Part 63, Subpart R | Storage tanks are not gasoline storage vessels. |
| ADD-7 | N/A | 40 CFR Part 60, Subpart Kb | Storage tanks with storage capacity less than 75 cubic meters (19,812 gallon) are exempt. |
| ADD-7 | N/A | 40 CFR Part 63, Subpart R | Storage tanks are not gasoline storage vessels. |

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 |
|-------------------------------|---|---|---|
| ENG-1 | N/A | 30 TAC Chapter 117, Minor Source Combustion | Stationary diesel engine placed into service after October 1, 2001 that operates less than 100 hours per year in other than emergency situations and meets the non-road engine emission standard. |
| ENG-1 | N/A | 30 TAC Chapter 117, Subchapter B | Engine not subject to this subchapter because site is a minor source of NOx. |
| ENG-2 | N/A | 30 TAC Chapter 117, Minor Source Combustion | Stationary diesel engine placed into service after October 1, 2001 that operates less than 100 hours per year in other than emergency situations and meets the non-road engine emission standard. |
| ENG-2 | N/A | 30 TAC Chapter 117, Subchapter B | Engine not subject to this subchapter because site is a minor source of NOx. |
| ENG-3 | N/A | 30 TAC Chapter 117, Minor Source Combustion | Stationary diesel engine placed into service after October 1, 2001 that operates less than 100 hours per year in other than emergency situations and meets the non-road engine emission standard. |
| ENG-3 | N/A | 30 TAC Chapter 117, Subchapter B | Engine not subject to this subchapter because site is a minor source of NOx. |
| GRP-ADDTK | ADD-1, ADD-11, ADD-12, ADD-13, ADD-4, ADD-6 | 40 CFR Part 60, Subpart Kb | Storage tank with storage capacity less than 75 cubic meter (19,812 gallon) are exempt. |
| GRP-ADDTK | ADD-1, ADD-11, ADD-12, ADD-13, ADD-4, ADD-6 | 40 CFR Part 63, Subpart EEEE | Tank is not in organic liquids service since tank stores a non-crude oil liquid with an annual average true vapor pressure of less than 0.1 psia. |
| GRP-ADDTK | ADD-1, ADD-11, ADD-12, ADD-13, ADD- | 40 CFR Part 63, Subpart R | Storage tanks are not gasoline storage vessels. |

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 |
|-------------------------------|---|-------------------------------------|--|
| | 4, ADD-6 | | |
| GRP-DSLTK | DSLTL-1100, DSLTL-1101, DSLTL-1G | 30 TAC Chapter 115, Storage of VOCs | Storage tanks with storage capacity less than 1,000 gallons are exempt from the requirements of this division. |
| GRP-DSLTK | DSLTL-1100, DSLTL-1101, DSLTL-1G | 40 CFR Part 60, Subpart Kb | Storage tank with storage capacity less than 75 cubic meter (19,812 gallon) are exempt. |
| GRP-DSLTK | DSLTL-1100, DSLTL-1101, DSLTL-1G | 40 CFR Part 63, Subpart R | Storage tanks are not gasoline storage vessels. |
| GRP-IFRTK | TK-101, TK-102, TK-1601, TK-1602, TK-1603, TK-1604, TK-1605, TK-1606, TK-1607, TK-1608, TK-1609, TK-1610, TK-1611, TK-1612, TK-1613, TK-1614, TK-1615, TK-1616, TK-1617, TK-1618, TK-1619, TK-1620, TK-1621, TK-1622, TK-1623, TK-1624, TK-1625, TK-1626, TK-1627, TK-1628, TK-1629, TK-1630, TK-1631, TK-1632, TK-1633, TK-1634, TK-1635, TK-1636, TK-1637, TK-1638, TK-1639, TK-1640, TK-1641, TK-1642, TK-1643, TK-1644, TK-1645, TK-1646, TK-1647, TK-1648, TK-1649, TK-1650, TK-1651, TK-1652, TK-1653, TK-1654, TK-1655, TK-1656, TK-1657, TK-201, TK-202, TK-203, TK-204, TK-205, TK-206, TK-207, TK-208, TK-601, TK-602, TK-603, TK-604, TK-605, TK-606, TK-801, TK-802, TK-803, TK-804, TK-805, TK-807, TK-808, TK-809, TK-810, TK-811 | 40 CFR Part 63, Subpart BBBB | Not applicable since Terminal is a major source of HAPS and is subject to Subpart R. |

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 |
|-------------------------------|---|-------------------------------------|---|
| GRP-IFRTK | TK-101, TK-102, TK-1601, TK-1602, TK-1603, TK-1604, TK-1605, TK-1606, TK-1607, TK-1608, TK-1609, TK-1610, TK-1611, TK-1612, TK-1613, TK-1614, TK-1615, TK-1616, TK-1617, TK-1618, TK-1619, TK-1620, TK-1621, TK-1622, TK-1623, TK-1624, TK-1625, TK-1626, TK-1627, TK-1628, TK-1629, TK-1630, TK-1631, TK-1632, TK-1633, TK-1634, TK-1635, TK-1636, TK-1637, TK-1638, TK-1639, TK-1640, TK-1641, TK-1642, TK-1643, TK-1644, TK-1645, TK-1646, TK-1647, TK-1648, TK-1649, TK-1650, TK-1651, TK-1652, TK-1653, TK-1654, TK-1655, TK-1656, TK-1657, TK-201, TK-202, TK-203, TK-204, TK-205, TK-206, TK-207, TK-208, TK-601, TK-602, TK-603, TK-604, TK-605, TK-606, TK-801, TK-802, TK-803, TK-804, TK-805, TK-807, TK-808, TK-809, TK-810, TK-811 | 40 CFR Part 63, Subpart EEEE | Not subject because part of an affected source under another 40 CFR Part 63 NESHAP. |
| GRP-SMADDTK | ADD-8, ADD-9 | 30 TAC Chapter 115, Storage of VOCs | Storage tanks with storage capacity less than 1,000 gallons are exempt from the requirements of this division. |
| GRP-SMADDTK | ADD-8, ADD-9 | 40 CFR Part 60, Subpart Kb | Storage tank with storage capacity less than 75 cubic meter (19,812 gallon) are exempt. |
| GRP-SMADDTK | ADD-8, ADD-9 | 40 CFR Part 60, Subpart R | Storage tanks are not gasoline storage vessels. |
| GRP-SMADDTK | ADD-8, ADD-9 | 40 CFR Part 63, Subpart EEEE | Tank is not in organic liquids service since tank stores a non-crude oil liquid with an annual average true vapor pressure of less than 0.1 psia. |

Permit Shield

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

| Unit / Group / Process ID No. | Group / Inclusive Units | Regulation | Basis of Determination |
|-------------------------------|-------------------------|--------------------------------------|---|
| OWS | N/A | 30 TAC Chapter 115, Water Separation | OWS manages only stormwater, spill and/or exterior surface cleanup waters and will be equipped with a cover. |
| TK-103 | N/A | 40 CFR Part 60, Subpart Kb | Storage tanks with storage capacity greater than 151 cubic meters (39,889 gallons) storing a liquid with maximum true vapor pressure less than 3.5 kPa (0.5 psia) are exempt. |
| TK-103 | N/A | 40 CFR Part 63, Subpart EEEE | Tank not in organic liquid service since tank stores a non-crude oil liquid with an annual average true vapor pressure of less than 0.1 psia. |
| TK-103 | N/A | 40 CFR Part 63, Subpart R | Storage tank is not a gasoline storage vessel. |
| TLOAD | N/A | 40 CFR Part 63, Subpart BBBB | It is not applicable since Terminal is a major source of HAPS and is subject to Subpart R. |
| TLOAD | N/A | 40 CFR Part 63, Subpart EEEE | It is not applicable because part of an affected source under another 40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants (NESHAP). |
| WW-1 | N/A | 40 CFR Part 60, Subpart Kb | Storage tank with storage capacity less than 75 cubic meters (19,812 gallon) is exempt. |

New Source Review Authorization References

New Source Review Authorization References 67

New Source Review Authorization References by Emission Unit 68

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.: N254 | Issuance Date: 03/22/2022 |
| 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.: 142261 | Issuance Date: 03/22/2022 |
| Permits By Rule (30 TAC Chapter 106) for the Application Area | |
| Number: 106.472 | Version No./Date: 09/04/2000 |
| Number: 106.473 | 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** |
|---------------------------|--------------------------------|---|
| ADD-1 | ADDITIVE TANK | 142261, N254 |
| ADD-10 | ADDITIVE TANK | 142261, N254 |
| ADD-11 | ADDITIVE TANK | 142261, N254 |
| ADD-12 | ADDITIVE TANK | 142261, N254 |
| ADD-13 | ADDITIVE TANK | 142261, N254 |
| ADD-14 | ADDITIVE TANK | 106.472/09/04/2000 [159741] |
| ADD-2 | ADDITIVE TANK | 142261, N254 |
| ADD-3 | ADDITIVE TANK | 142261, N254 |
| ADD-4 | ADDITIVE TANK | 142261, N254 |
| ADD-5 | ADDITIVE TANK | 142261, N254 |
| ADD-6 | ADDITIVE TANK | 142261, N254, 106.472/09/04/2000 |
| ADD-7 | ADDITIVE TANK | 142261, N254 |
| ADD-8 | ADDITIVE TANK | 142261, N254 |
| ADD-9 | ADDITIVE TANK | 142261, N254 |
| DSLTL-1100 | DIESEL TANK | 142261, N254, 106.472/09/04/2000 [150206] |
| DSLTL-1101 | DIESEL TANK | 142261, N254, 106.472/09/04/2000 [150206] |
| DSLTL-1G | DIESEL TANK | 142261, N254, 106.472/09/04/2000 [150206] |
| ENG-1 | FIRE WATER PUMP ENGINE 1 | 142261, N254 |
| ENG-2 | FIRE WATER PUMP ENGINE 2 | 142261, N254 |
| ENG-3 | GENERATOR ENGINE 3 | 142261, N254 |
| MLOAD | MARINE LOADING | 142261, N254 |

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** |
|---------------------------|--------------------------------|-----------------------------------|
| MUNLOAD | MARINE UNLOADING | 142261, N254 |
| OWS | STORMWATER COLLECTION | 142261, N254 |
| TK-101 | IFR STORAGE TANK 101 | 142261, N254 |
| TK-102 | IFR STORAGE TANK 102 | 142261, N254 |
| TK-103 | BIODIESEL TANK | 142261, N254 |
| TK-1601 | IFR STORAGE TANK 1601 | 142261, N254 |
| TK-1602 | IFR STORAGE TANK 1602 | 142261, N254 |
| TK-1603 | IFR STORAGE TANK 1603 | 142261, N254 |
| TK-1604 | IFR STORAGE TANK 1604 | 142261, N254 |
| TK-1605 | IFR STORAGE TANK 1605 | 142261, N254 |
| TK-1606 | IFR STORAGE TANK 1606 | 142261, N254 |
| TK-1607 | IFR STORAGE TANK 1607 | 142261, N254 |
| TK-1608 | IFR STORAGE TANK 1608 | 142261, N254 |
| TK-1609 | IFR STORAGE TANK 1609 | 142261, N254 |
| TK-1610 | IFR STORAGE TANK 1610 | 142261, N254 |
| TK-1611 | IFR STORAGE TANK 1611 | 142261, N254 |
| TK-1612 | IFR STORAGE TANK 1612 | 142261, N254 |
| TK-1613 | IFR STORAGE TANK 1613 | 142261, N254 |
| TK-1614 | IFR STORAGE TANK 1614 | 142261, N254 |
| TK-1615 | IFR STORAGE TANK 1615 | 142261, N254 |
| TK-1616 | IFR STORAGE TANK 1616 | 142261, N254 |

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-1617 | IFR STORAGE TANK 1617 | 142261, N254 |
| TK-1618 | IFR STORAGE TANK 1618 | 142261, N254 |
| TK-1619 | IFR STORAGE TANK 1619 | 142261, N254 |
| TK-1620 | IFR STORAGE TANK 1620 | 142261, N254 |
| TK-1621 | IFR STORAGE TANK 1621 | 142261, N254 |
| TK-1622 | IFR STORAGE TANK 1622 | 142261, N254 |
| TK-1623 | IFR STORAGE TANK 1623 | 142261, N254 |
| TK-1624 | IFR STORAGE TANK 1624 | 142261, N254 |
| TK-1625 | IFR STORAGE TANK 1625 | 142261, N254 |
| TK-1626 | IFR STORAGE TANK 1626 | 142261, N254 |
| TK-1627 | IFR STORAGE TANK 1627 | 142261, N254 |
| TK-1628 | IFR STORAGE TANK 1628 | 142261, N254 |
| TK-1629 | IFR STORAGE TANK 1629 | 142261, N254 |
| TK-1630 | IFR STORAGE TANK 1630 | 142261, N254 |
| TK-1631 | IFR STORAGE TANK 1631 | 142261, N254 |
| TK-1632 | IFR STORAGE TANK 1632 | 142261, N254 |
| TK-1633 | IFR STORAGE TANK 1633 | 142261, N254 |
| TK-1634 | IFR STORAGE TANK 1634 | 142261, N254 |
| TK-1635 | IFR STORAGE TANK 1635 | 142261, N254 |
| TK-1636 | IFR STORAGE TANK 1636 | 142261, N254 |
| TK-1637 | IFR STORAGE TANK 1637 | 142261, N254 |

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-1638 | IFR STORAGE TANK 1638 | 142261, N254 |
| TK-1639 | IFR STORAGE TANK 1639 | 142261, N254 |
| TK-1640 | IFR STORAGE TANK 1640 | 142261, N254 |
| TK-1641 | IFR STORAGE TANK 1641 | 142261, N254 |
| TK-1642 | IFR STORAGE TANK 1642 | 142261, N254 |
| TK-1643 | IFR STORAGE TANK 1643 | 142261, N254 |
| TK-1644 | IFR STORAGE TANK 1644 | 142261, N254 |
| TK-1645 | IFR STORAGE TANK 1645 | 142261, N254 |
| TK-1646 | IFR STORAGE TANK 1646 | 142261, N254 |
| TK-1647 | IFR STORAGE TANK 1647 | 142261, N254 |
| TK-1648 | IFR STORAGE TANK 1648 | 142261, N254 |
| TK-1649 | IFR STORAGE TANK 1649 | 142261, N254 |
| TK-1650 | IFR STORAGE TANK 1650 | 142261, N254 |
| TK-1651 | IFR STORAGE TANK 1651 | 142261, N254 |
| TK-1652 | IFR STORAGE TANK 1652 | 142261, N254 |
| TK-1653 | IFR STORAGE TANK 1653 | 142261, N254 |
| TK-1654 | IFR STORAGE TANK 1654 | 142261, N254 |
| TK-1655 | IFR STORAGE TANK 1655 | 142261, N254 |
| TK-1656 | IFR STORAGE TANK 1656 | 142261, N254 |
| TK-1657 | IFR STORAGE TANK 1657 | 142261, N254 |
| TK-201 | IFR STORAGE TANK 201 | 142261, N254 |

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-202 | IFR STORAGE TANK 202 | 142261, N254 |
| TK-203 | IFR STORAGE TANK 203 | 142261, N254 |
| TK-204 | IFR STORAGE TANK 204 | 142261, N254 |
| TK-205 | IFR STORAGE TANK 205 | 142261, N254 |
| TK-206 | IFR STORAGE TANK 206 | 142261, N254 |
| TK-207 | IFR STORAGE TANK 207 | 142261, N254 |
| TK-208 | IFR STORAGE TANK 208 | 142261, N254 |
| TK-601 | IFR STORAGE TANK 601 | 142261, N254 |
| TK-602 | IFR STORAGE TANK 602 | 142261, N254 |
| TK-603 | IFR STORAGE TANK 603 | 142261, N254 |
| TK-604 | IFR STORAGE TANK 604 | 142261, N254 |
| TK-605 | IFR STORAGE TANK 605 | 142261, N254 |
| TK-606 | IFR STORAGE TANK 606 | 142261, N254 |
| TK-801 | IFR STORAGE TANK 801 | 142261, N254 |
| TK-802 | IFR STORAGE TANK 802 | 142261, N254 |
| TK-803 | IFR STORAGE TANK 803 | 142261, N254 |
| TK-804 | IFR STORAGE TANK 804 | 142261, N254 |
| TK-805 | IFR STORAGE TANK 805 | 142261, N254 |
| TK-807 | IFR STORAGE TANK 807 | 142261, N254 |
| TK-808 | IFR STORAGE TANK 808 | 142261, N254 |
| TK-809 | IFR STORAGE TANK 809 | 142261, N254 |

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-810 | IFR STORAGE TANK 810 | 142261, N254 |
| TK-811 | IFR STORAGE TANK 811 | 142261, N254 |
| TKVCU-1 | TANK VCU | 142261, N254 |
| TKVCU-2 | TANK VCU | 142261, N254 |
| TKVCU-3 | TANK VCU | 142261, N254 |
| TLOAD | TRUCK LOADING | 142261, N254 |
| WW-1 | WATER TANK | 142261, N254 |

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

Appendix A

Acronym List 75

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 77

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|------------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| TK-1601 | IFR Storage Tank 1601 (Phase 1) | VOC | 16.01 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1602 | IFR Storage Tank 1602 (Phase 1) | VOC | 16.01 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1603 | IFR Storage Tank 1603 (Phase 1) | VOC | 16.01 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1604 | IFR Storage Tank 1604 (Phase 1) | VOC | 16.01 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1605 | IFR Storage Tank 1605 (Phase 1) | VOC | 16.01 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-803 | IFR Storage Tank 803 (Phase 1) | VOC | 12.52 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-808 | IFR Storage Tank 808 (Phase 1) | VOC | 12.52 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|---------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| TK-809 | IFR Storage Tank 809 (Phase 1) | VOC | 12.52 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-601 | IFR Storage Tank 601 (Phase 1) | VOC | 26.34 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.06 | (6) | | | |
| TK-201 | IFR Storage Tank 201 (Phase 1) | VOC | 3.48 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.01 | (6) | | | |
| TK-202 | IFR Storage Tank 202 (Phase 1) | VOC | 3.48 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.01 | (6) | | | |
| TK-1606 | IFR Storage Tank 1606 (Phase 1) | VOC | 16.01 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1607 | IFR Storage Tank 1607 (Phase 1) | VOC | 16.01 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1608 | IFR Storage Tank 1608 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|--------------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| TK-1609 | IFR Storage Tank 1609 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1610 | IFR Storage Tank 1610 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1611 | IFR Storage Tank 1611 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1612 | IFR Storage Tank 1612 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1613 | IFR Storage Tank 1613 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1614 | IFR Storage Tank 1614 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1615 | IFR Storage Tank 1615 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|---|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| TK-1616 | IFR Storage Tank 1616 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1617 | IFR Storage Tank 1617 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1618 | IFR Storage Tank 1618 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1619 | IFR Storage Tank 1619 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1620 | IFR Storage Tank 1620 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1621 | IFR Storage Tank 1621 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1622 | IFR Storage Tank 1622 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|---|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| TK-1623 | IFR Storage Tank 1623 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1624 | IFR Storage Tank 1624 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-203 | IFR Storage Tank 203 (Phase 2) | VOC | 3.48 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.01 | (6) | | | |
| | | | | | | | |
| TK-204 | IFR Storage Tank 204 (Phase 2) | VOC | 3.48 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.01 | (6) | | | |
| TK-802 | IFR Storage Tank 802 (Future Phase) | VOC | 12.52 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-101 | IFR Storage Tank 101 (Phase 2) | VOC | 4.73 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.01 | (6) | | | |
| TK-102 | IFR Storage Tank 102 | VOC | 4.73 | (6) | 3, 7 | 3, 6, 7 | 3 |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|--------------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | (Phase 2) | H ₂ S | 0.01 | (6) | | | |
| TK-1625 | IFR Storage Tank 1625 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1626 | IFR Storage Tank 1626 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1627 | IFR Storage Tank 1627 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1628 | IFR Storage Tank 1628 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1629 | IFR Storage Tank 1629 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1630 | IFR Storage Tank 1630 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1631 | IFR Storage Tank | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|---|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | 1631 (Future Phase) | H ₂ S | 0.03 | (6) | | | |
| TK-1632 | IFR Storage Tank 1632 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1633 | IFR Storage Tank 1633 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1634 | IFR Storage Tank 1634 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1635 | IFR Storage Tank 1635 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1636 | IFR Storage Tank 1636 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1637 | IFR Storage Tank 1637 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1638 | IFR Storage Tank | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|------------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | 1638 (Phase 2) | H ₂ S | 0.03 | (6) | | | |
| TK-1639 | IFR Storage Tank 1639 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1640 | IFR Storage Tank 1640 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1641 | IFR Storage Tank 1641 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1642 | IFR Storage Tank 1642 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1643 | IFR Storage Tank 1643 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1644 | IFR Storage Tank 1644 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1645 | IFR Storage Tank | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|------------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | 1645 (Phase 2) | H ₂ S | 0.03 | (6) | | | |
| TK-1646 | IFR Storage Tank 1646 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1647 | IFR Storage Tank 1647 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1648 | IFR Storage Tank 1648 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1649 | IFR Storage Tank 1649 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1650 | IFR Storage Tank 1650 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1651 | IFR Storage Tank 1651 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1652 | IFR Storage Tank | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|---|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | 1652 (Phase 2) | H ₂ S | 0.03 | (6) | | | |
| TK-1653 | IFR Storage Tank 1653 (Phase 2) | VOC | 16.00 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1654 | IFR Storage Tank 1654 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1655 | IFR Storage Tank 1655 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1656 | IFR Storage Tank 1656 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-1657 | IFR Storage Tank 1657 (Future Phase) | VOC | 16.02 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-801 | IFR Storage Tank 801 (Future Phase) | VOC | 12.52 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-804 | IFR Storage Tank 804 | VOC | 12.51 | (6) | 3, 7 | 3, 6, 7 | 3 |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|-------------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | (Future Phase) | H ₂ S | 0.03 | (6) | | | |
| TK-805 | IFR Storage Tank 805 (Future Phase) | VOC | 12.52 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-807 | IFR Storage Tank 807 (Future Phase) | VOC | 12.52 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-810 | IFR Storage Tank 810 (Future Phase) | VOC | 12.52 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-811 | IFR Storage Tank 811 (Future Phase) | VOC | 12.52 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-602 | IFR Storage Tank 602 (Future Phase) | VOC | 14.42 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-603 | IFR Storage Tank 603 (Future Phase) | VOC | 14.42 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-604 | IFR Storage Tank 604 | VOC | 14.42 | (6) | 3, 7 | 3, 6, 7 | 3 |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|-------------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | (Future Phase) | H ₂ S | 0.03 | (6) | | | |
| TK-605 | IFR Storage Tank 605 (Future Phase) | VOC | 14.42 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-606 | IFR Storage Tank 606 (Future Phase) | VOC | 14.42 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.03 | (6) | | | |
| TK-205 | IFR Storage Tank 205 (Future Phase) | VOC | 3.48 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.01 | (6) | | | |
| TK-206 | IFR Storage Tank 206 (Future Phase) | VOC | 3.48 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.01 | (6) | | | |
| TK-207 | IFR Storage Tank 207 (Future Phase) | VOC | 3.48 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.01 | (6) | | | |
| TK-208 | IFR Storage Tank 208 (Future Phase) | VOC | 3.48 | (6) | 3, 7 | 3, 6, 7 | 3 |
| | | H ₂ S | 0.01 | (6) | | | |
| IFRCAP (6) | IFR Storage Tank | VOC | - | 17.40 | 3, 5 | 3, 5 | 3 |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|--|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | Annual Cap (Phase 1) | H ₂ S | - | 0.03 | | | |
| | IFR Storage Tank Annual Cap (Phases 1 & 2) | VOC | - | 49.18 | | | |
| | | H ₂ S | - | 0.08 | | | |
| | IFR Storage Tank Annual Cap (All Phases) | VOC | - | 102.02 | | | |
| | | H ₂ S | - | 0.17 | | | |
| ADD-1 | Additive Storage Tank (Phase 1) | VOC | 0.27 | (7) | 3 | 3, 6 | 3 |
| ADD-2 | Additive Storage Tank (Phase 2) | VOC | 0.98 | (7) | 3 | 3, 6 | 3 |
| ADD-3 | Additive Storage Tank (Phase 2) | VOC | 9.68 | (7) | 3 | 3, 6 | 3 |
| ADD-4 | Additive Storage Tank (Phase 2) | VOC | 0.07 | (7) | 3 | 3, 6 | 3 |
| ADD-5 | Additive Storage Tank (Phase 2) | VOC | 3.71 | (7) | 3 | 3, 6 | 3 |
| ADD-6 | Additive Storage Tank (Future Phase) | VOC | 1.02 | (7) | 3 | 3, 6 | 3 |
| ADD-7 | Additive Storage Tank (Future Phase) | VOC | 22.13 | (7) | 3 | 3, 6 | 3 |

Major NSR Summary Table

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|---------------------------------|--|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| ADD-8 | Additive Storage Tank (Future Phase) | VOC | 0.06 | (7) | 3 | 3, 6 | 3 |
| ADD-9 | Additive Storage Tank (Future Phase) | VOC | 0.02 | (7) | 3 | 3, 6 | 3 |
| ADD-10 | Additive Storage Tank (Future Phase) | VOC | 1.36 | (7) | 3 | 3, 6 | 3 |
| ADD-11 | Additive Storage Tank (Future Phase) | VOC | 0.14 | (7) | 3 | 3, 6 | 3 |
| ADD-12 | Additive Storage Tank (Future Phase) | VOC | 1.13 | (7) | 3 | 3, 6 | 3 |
| ADD-13 | Additive Storage Tank (Future Phase) | VOC | 1.13 | (7) | 3 | 3, 6 | 3 |
| WW-1 | Wastewater Tank (Phase 2) | VOC | 2.36 | (7) | 3, 7 | 3, 6, 7 | 3 |
| ADDCAP (7) | Additive & WW Storage Tank Annual Cap (Phase 1) | VOC | - | <0.01 | 3, 5, 7 | 3, 5, 6, 7 | 3 |
| | Additive & WW Storage Tank Annual Cap (Phases 1 & 2) | VOC | - | 0.10 | | | |
| | Additive & WW Storage Tank Annual | VOC | - | 0.22 | | | |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|--|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | Cap (All Phases) | | | | | | |
| TK-103 | Biodiesel Tank (Phase 2) | VOC | 4.19 | 0.70 | 3, 7 | 3, 6, 7 | 3 |
| MLVRU-1 MLVRU-2 | Marine Loading VRUs 1 & 2 (Ship Dock 1) (Phase 1) | VOC | 10.51 | (8) | 4, 25, 26, 27, 28, 36 | 4, 20, 25, 26, 27, 28, 31, 36 | 4, 26 |
| | | H ₂ S | 0.02 | (8) | | | |
| MLVRU-3 MLVRU-4 | Marine Loading VRUs 3 & 4 (Ship Dock 2 & Barge Dock 1) (Phase 2) | VOC | 10.51 | (8) | 4, 25, 26, 27, 28, 36 | 4, 20, 25, 26, 27, 28, 31, 36 | 4, 26 |
| | | H ₂ S | 0.02 | (8) | | | |
| MLVRU-5 MLVRU-6 | Marine Loading VRUs 5 & 6 (Ship Dock 3) (Future Phase) | VOC | 10.51 | (8) | 4, 25, 26, 27, 28, 36 | 4, 20, 25, 26, 27, 28, 31, 36 | 4, 26 |
| | | H ₂ S | 0.02 | (8) | | | |
| MLVRU-7 MLVRU-8 | Marine Loading VRUs 7 & 8 (Ship Dock 4) (Future Phase) | VOC | 10.51 | (8) | 4, 25, 26, 27, 28, 36 | 4, 20, 25, 26, 27, 28, 31, 36 | 4, 26 |
| | | H ₂ S | 0.02 | (8) | | | |
| MLOAD | Marine Loading Fugitives (Phase 1) | VOC | 18.32 | (8) | 4, 20, 24, 25, 26, 27, 30 | 4, 20, 24, 25, 26, 27, 28, 30, 31 | 4, 26 |
| | | H ₂ S | <0.01 | (8) | | | |
| | Marine Loading | VOC | 36.64 | (8) | | | |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|---|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | Fugitives (Phases 1 & 2) | H ₂ S | 0.01 | (8) | | | |
| | Marine Loading Fugitives (All Phases) | VOC | 73.28 | (8) | | | |
| | | H ₂ S | 0.03 | (8) | | | |
| MLOADCAP (8) | Marine Loading VRU & Fugitives Annual Cap (Phase 1) | VOC | - | 12.59 | 4, 20, 22, 24, 25, 26, 27, 28, 29, 30 | 4, 20, 24, 25, 26, 27, 28, 30, 31 | 4, 26 |
| | | H ₂ S | - | 0.03 | | | |
| | Marine Loading VRU & Fugitives Annual Cap (Phase 1 & 2) | VOC | - | 25.17 | | | |
| | | H ₂ S | - | 0.05 | | | |
| | Marine Loading VRU & Fugitives Annual Cap (All Phases) | VOC | - | 60.83 | | | |
| | | H ₂ S | - | 0.13 | | | |
| TLVRU | Tank Truck Loading VRU (Phase 2) | VOC | 0.60 | 1.92 | 3, 4, 9, 14, 16, 18, 36 | 3, 4, 9, 14, 16, 17, 18, 36 | 3, 4, 16 |
| | Tank Truck Loading VRU (All Phases) | VOC | 1.00 | 3.20 | | | |
| TRUCKFUG | Tank Truck Fugitives | VOC | 2.19 | 0.80 | 11, 12, 13, 14, 19 | 9, 11, 12, 13, 14, 19 | |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|--------------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | (Phase 1) | | | | | | |
| | Tank Truck Fugitives (Phases 1 & 2) | VOC | 2.93 | 1.18 | | | |
| | Tank Truck Fugitives (All Phases) | VOC | 3.75 | 9.33 | | | |
| FUG | Process Fugitives (5) (Phase 1) | VOC | 0.57 | 2.49 | 32 | 32 | |
| | | H ₂ S | <0.01 | <0.01 | | | |
| | Process Fugitives (5) (Phases 1 & 2) | VOC | 2.00 | 8.78 | | | |
| | | H ₂ S | <0.01 | 0.02 | | | |
| | Process Fugitives (5) (All Phases) | VOC | 2.81 | 12.29 | | | |
| | | H ₂ S | 0.01 | 0.03 | | | |
| ENG-1 | Fire Water Pump Engine 1 | VOC | 3.78 | 0.19 | 3, 4, 34 | 3, 4, 34 | 3, 4 |
| | | NO _x | 3.78 | 0.19 | | | |
| | | CO | 3.32 | 0.17 | | | |
| | | PM | 0.20 | 0.01 | | | |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|------------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | | PM ₁₀ | 0.20 | 0.01 | | | |
| | | PM _{2.5} | 0.20 | 0.01 | | | |
| | | SO ₂ | 0.01 | <0.01 | | | |
| ENG-2 | Fire Water Pump Engine 2 (Phase 1) | VOC | 3.78 | 0.19 | 3, 4, 34 | 3, 4, 34 | 3, 4 |
| | | NO _x | 3.78 | 0.19 | | | |
| | | CO | 3.32 | 0.17 | | | |
| | | PM | 0.20 | 0.01 | | | |
| | | PM ₁₀ | 0.20 | 0.01 | | | |
| | | PM _{2.5} | 0.20 | 0.01 | | | |
| | | SO ₂ | 0.01 | <0.01 | | | |
| ENG-3 | Generator Engine 3 (Phase 2) | VOC | 1.59 | 0.08 | 3, 4, 34 | 3, 4, 34 | 3, 4 |
| | | NO _x | 2.65 | 0.13 | | | |
| | | CO | 1.59 | 0.08 | | | |
| | | PM | 0.23 | 0.01 | | | |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|-------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | | PM ₁₀ | 0.23 | 0.01 | | | |
| | | PM _{2.5} | 0.23 | 0.01 | | | |
| | | SO ₂ | <0.01 | <0.01 | | | |
| SUMP-1 | Sump 1 (Phase 1) | VOC | 2.45 | 0.30 | 38 | 38 | |
| SUMP-2 | Sump 2 (Phase 1) | VOC | 27.39 | 0.36 | 38 | 38 | |
| SUMP-3 | Sump 3 (Future Phase) | VOC | 27.39 | 0.36 | 38 | 38 | |
| OWS | Oil-Water Separator (Phase 2) | VOC | 0.76 | 0.01 | 38 | 38 | |
| TKVCU-1 | Tank VCU (10) (Phase 1) | VOC | 39.77 | (13) | 33, 35, 36 | 33, 35, 36 | 35 |
| | | NO _x | 25.89 | (9) | | | |
| | | CO | 111.02 | (9) | | | |
| | | PM | 0.16 | (9) | | | |
| | | PM ₁₀ | 0.16 | (9) | | | |
| | | PM _{2.5} | 0.16 | (9) | | | |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|---------------------------------|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | | SO ₂ | 0.15 | (9) | | | |
| | | H ₂ S | 0.07 | (9) | | | |
| TKVCU-2 | Tank VCU (10) (Phase 2) | VOC | 39.77 | (13) | 33, 35, 36 | 33, 35, 36 | 35 |
| | | NO _x | 25.89 | (9) | | | |
| | | CO | 111.02 | (9) | | | |
| | | PM | 0.16 | (9) | | | |
| | | PM ₁₀ | 0.16 | (9) | | | |
| | | PM _{2.5} | 0.16 | (9) | | | |
| | | SO ₂ | 0.15 | (9) | | | |
| | | H ₂ S | 0.07 | (9) | | | |
| TKVCU-3 | Tank VCU (10) (Future Phase) | VOC | 39.77 | (13) | 33, 35, 36 | 33, 35, 36 | 35 |
| | | NO _x | 25.89 | (9) | | | |
| | | CO | 111.02 | (9) | | | |
| | | PM | 0.16 | (9) | | | |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|---|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | | PM ₁₀ | 0.16 | (9) | | | |
| | | PM _{2.5} | 0.16 | (9) | | | |
| | | SO ₂ | 0.15 | (9) | | | |
| | | H ₂ S | 0.07 | (9) | | | |
| TKVCUCAP (10) | Tank VCU Annual Cap (10) (Phase 1) | NO _x | - | 2.74 | 33, 35, 36, 38 | 33, 35, 36, 38 | 35 |
| | | CO | - | 7.55 | | | |
| | | PM | - | 0.10 | | | |
| | | PM ₁₀ | - | 0.10 | | | |
| | | PM _{2.5} | - | 0.10 | | | |
| | | SO ₂ | - | 0.02 | | | |
| | | H ₂ S | - | <0.01 | | | |
| | Tank VCU Annual Cap (10) (Phases 1 & 2) | NO _x | - | 9.19 | | | |
| | | CO | - | 25.29 | | | |
| | | PM | - | 0.34 | | | |

Major NSR Summary Table

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|---------------------------------|--|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | | PM ₁₀ | - | 0.34 | | | |
| | | PM _{2.5} | - | 0.34 | | | |
| | | SO ₂ | - | 0.05 | | | |
| | | H ₂ S | - | 0.01 | | | |
| | Tank VCU Annual Cap (10) (All Phases) | NO _x | - | 21.51 | | | |
| | | CO | - | 53.73 | | | |
| | | PM | - | 0.91 | | | |
| | | PM ₁₀ | - | 0.91 | | | |
| | | PM _{2.5} | - | 0.91 | | | |
| | | SO ₂ | - | 0.12 | | | |
| | | H ₂ S | - | 0.03 | | | |
| PORTVCU | Portable VCU (11) (Phase 1) | VOC | 2.35 | (13) | 38, 45 | 38, 45 | 38, 45 |
| | | NO _x | 1.33 | 0.14 | | | |
| | | CO | 2.61 | 0.24 | | | |

Major NSR Summary Table

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|---------------------------------|--|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | | PM | <0.01 | <0.01 | | | |
| | | PM ₁₀ | <0.01 | <0.01 | | | |
| | | PM _{2.5} | <0.01 | <0.01 | | | |
| | | SO ₂ | 0.01 | <0.01 | | | |
| | | H ₂ S | <0.01 | <0.01 | | | |
| | Portable VCU (11) (Phase 1 & 2 /All Phases) | VOC | 2.35 | (13) | | | |
| | | NO _x | 1.33 | 0.29 | | | |
| | | CO | 2.61 | 0.49 | | | |
| | | PM | <0.01 | <0.01 | | | |
| | | PM ₁₀ | <0.01 | <0.01 | | | |
| | | PM _{2.5} | <0.01 | <0.01 | | | |
| | | SO ₂ | 0.01 | <0.01 | | | |
| | | H ₂ S | <0.01 | <0.01 | | | |
| TKVENT | Tank MSS Fugitives | VOC | 121.30 | (14) | 38, 39, 46 | 38, 39, 46 | |

Major NSR Summary Table

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|---|--|--|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | (12) (Phase 1) | H ₂ S | <0.01 | <0.01 | | | |
| | Tank MSS Fugitives (12) (Phases 1 & 2) | VOC | 316.30 | (14) | | | |
| | | H ₂ S | <0.01 | <0.01 | | | |
| | Tank MSS Fugitives (12) (All Phases) | VOC | 316.30 | (14) | | | |
| | | H ₂ S | <0.01 | <0.01 | | | |
| | TKMSSCAP (13) | Tank MSS – VOC CAP (TKVENT, TKVCU1, TKVCU2, TKVCU3, PORTVCU) (Phase 1) | VOC | - | | | |
| Tank MSS – VOC CAP (TKVENT, TKVCU1, TKVCU2, TKVCU3, PORTVCU) (Phases 1 & 2) | | VOC | - | 11.49 | | | |
| Tank MSS – VOC CAP (TKVENT, TKVCU1, TKVCU2, TKVCU3, PORTVCU) (All Phases) | | VOC | - | 22.35 | | | |

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|---------------------------------|---|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| PORTCTRL | Portable Flare (14) (Phase 1) | VOC | 541.76 | 0.27 | 38, 45 | 38 | |
| | | NO _x | 73.49 | 0.04 | | | |
| | | CO | 146.72 | 0.07 | | | |
| | Portable Flare (14) (Phases 1 & 2) | VOC | 541.76 | 0.54 | | | |
| | | NO _x | 73.49 | 0.07 | | | |
| | | CO | 146.72 | 0.15 | | | |
| | Portable Flare (14) (All Phases) | VOC | 541.76 | 1.08 | | | |
| | | NO _x | 73.49 | 0.15 | | | |
| | | CO | 146.72 | 0.29 | | | |
| VACLOAD | Vacuum Truck Loading (15) (Phase 1) | VOC | 0.93 | 0.05 | 38, 42 | 38, 42 | |
| | | H ₂ S | <0.01 | <0.01 | | | |
| | Vacuum Truck Loading (15) (Phases 1 & 2) | VOC | 1.87 | 0.10 | | | |
| | | H ₂ S | <0.01 | <0.01 | | | |
| | Vacuum Truck | VOC | 2.31 | 0.15 | | | |

Major NSR Summary Table

| Permit Numbers: 142261 and N254 | | | | | Issuance Date: March 22, 2022 | | |
|---------------------------------|--|--------------------------|----------------|---------|---|---|---|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY (4) | Special Condition/Application Information | Special Condition/Application Information | Special Condition/Application Information |
| | Loading (15) (All Phases) | H ₂ S | <0.01 | <0.01 | | | |
| FUG-MSS | Pressure Tank Post Control | VOC | 8.06 | 0.06 | 38 | 38 | |
| FUG-MSS | Process Equipment MSS (16) (Phase 1) | VOC | 40.44 | 0.63 | 38, 40, 41, 43, 46 | 38, 40, 41, 43, 46 | |
| | | H ₂ S | 0.01 | <0.01 | | | |
| | Process Equipment MSS (16) (Phases 1 & 2) | VOC | 47.81 | 1.27 | | | |
| | | H ₂ S | 0.01 | <0.01 | | | |
| | Process Equipment MSS (16) (All Phases) | VOC | 47.81 | 2.07 | | | |
| | | H ₂ S | 0.01 | <0.01 | | | |

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

- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Total routine annual emissions for IFR storage tanks are limited to the rates represented under EPN IFRCAP.
- (7) Total routine annual emissions for additive and wastewater fixed roof storage tanks are limited to the rates represented under EPN ADDCAP.
- (8) Total annual emissions for marine loading VRUs and fugitives are limited to the rates represented under EPN MLOADCAP.
- (9) Total annual emissions for tank VCUs are limited to the rates represented under EPN TKVCUCAP.
- (10) Includes controlled tank roof landing emissions (standing idle, degassing, and refilling) from routine and maintenance tank roof landings.
- (11) Includes controlled tank roof landing emissions (standing idle, degassing, cleaning, and refilling) from maintenance tank roof landings and vacuum trucks and vac boxes.
- (12) Includes uncontrolled tank roof landing emissions (standing idle, degassing, post-control venting, and refilling) from routine and maintenance tank roof landings. Also includes post-control venting emissions from pressure tanks.
- (13) Total annual VOC emissions for tank VCUs are limited to the rates represented under EPN TKMSSCAP.
- (14) Includes controlled degassing emissions from pressure tanks.
- (15) Includes emissions from loading of vacuum trucks and vacuum boxes.
- (16) Includes emissions from draining and venting process equipment during MSS activities.



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
MVP Terminalling, LLC
Authorizing the Construction and Operation of
Pasadena Terminal
Located at Pasadena, Harris County, Texas
Latitude 29° 43' 43" Longitude -95° 9' 35"

Permits: 142261 and N254

Revision Date: March 22, 2022

Expiration Date: July 14, 2027

For the Commission

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

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

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

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

Common Acronyms in Air Permits

| | |
|--|---|
| °C = Temperature in degrees Celsius | GLC _{max} = maximum (predicted) ground-level concentration |
| °F = Temperature in degrees Fahrenheit | gpm = gallon per minute |
| °K = Temperature in degrees Kelvin | gr/1000scf = grain per 1000 standard cubic feet |
| µg = microgram | gr/dscf = grain per dry standard cubic feet |
| µg/m ³ = microgram per cubic meter | H ₂ CO = formaldehyde |
| acfm = actual cubic feet per minute | H ₂ S = hydrogen sulfide |
| AMOC = alternate means of control | H ₂ SO ₄ = sulfuric acid |
| AOS = alternative operating scenario | HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C |
| AP-42 = Air Pollutant Emission Factors, 5th edition | HC = hydrocarbons |
| APD = Air Permits Division | HCl = hydrochloric acid, hydrogen chloride |
| API = American Petroleum Institute | Hg = mercury |
| APWL = air pollutant watch list | HGB = Houston/Galveston/Brazoria |
| BPA = Beaumont/ Port Arthur | hp = horsepower |
| BACT = best available control technology | hr = hour |
| BAE = baseline actual emissions | IFR = internal floating roof tank |
| bbl = barrel | in H ₂ O = inches of water |
| bbl/day = barrel per day | in Hg = inches of mercury |
| bhp = brake horsepower | IR = infrared |
| BMP = best management practices | ISC3 = Industrial Source Complex, a dispersion model |
| Btu = British thermal unit | ISCST3 = Industrial Source Complex Short-Term, a dispersion model |
| Btu/scf = British thermal unit per standard cubic foot or feet | K = Kelvin; extension of the degree Celsius scaled-down to absolute zero |
| CAA = Clean Air Act | LACT = lease automatic custody transfer |
| CAM = compliance-assurance monitoring | LAER = lowest achievable emission rate |
| CEMS = continuous emissions monitoring systems | lb = pound |
| cfm = cubic feet (per) minute | hp = horsepower |
| CFR = Code of Federal Regulations | hr = hour 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 | |
| g = gram | |
| gal/wk = gallon per week | |
| gal/yr = gallon per year | |
| GLC = ground level concentration | |

NSPS = New Source Performance Standards
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 142261 and N254

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

Federal Applicability

3. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60):
 - A. Subpart A, General Provisions.
 - B. Subpart Kb, Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.
 - C. Subpart XX, Bulk Gasoline Terminals.
 - D. Subpart IIII, Stationary Compression Ignition Internal Combustion Engines.
4. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63:
 - A. Subpart A, General Provisions.
 - B. Subpart R, Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations).
 - C. Subpart Y, Marine Tank Vessel Loading Operations.
 - D. Subpart ZZZZ, Stationary Reciprocating Internal Combustion Engines.
Emission Standards and Operational Specifications
Emission Standards and Operational Specifications

Storage Tanks

5. Tank service shall be limited as follows. Product Group IDs are defined in Attachment A. **(05/19)**

| Tank Group (EPN) | Tank Type | Service (Product Group ID) |
|------------------|------------------------|----------------------------|
| IFRCAP | Internal Floating Roof | 1 & 2 |
| TK103 | Fixed Roof | 2 |
| ADDCAP | Fixed Roof | Additives and wastewater |

| Tank Group (EPN) | Tank Type | Service (Product Group ID) |
|---------------------------------|----------------|--------------------------------|
| LPG Pressure Tanks (EPN FUG) | Pressure Tanks | LPG (includes Butane, Propane) |

IFRCAP tank group includes EPNs TK-101 to TK-102, TK-201 to TK-208, TK-601 to TK-606, TK-801 to TK-805, TK-807 to TK-811, and TK-1601 to TK-1657. **(05/19)**

ADDCAP tank group includes EPNs ADD-1 to ADD-13, and WW-1. **(05/19)**

LPG pressure tanks include FINs VSP-5000, VSP-6000, VSP-2000, and VSP-3000. **(05/19)**

Additives include Cetane Improver, Cold Flow Improver, Conductivity, Lubricity, Magellan IVD, Proprietary IVD, Red Dye, and TX LED.

6. Storage tanks are subject to the following requirements. The control requirements specified in Paragraphs A-D of this condition shall not apply (1) where the VOC has an aggregate partial pressure of less than 0.1 psia at the maximum feed temperature or 95°F, whichever is greater, (2) to storage tanks smaller than 25,000 gallons, or (3) pressure tanks.

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

- (1) An internal floating deck or "roof" or equivalent control shall be installed in all tanks. The floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof: (1) a liquid mounted seal, (2) two continuous seals mounted one above the other, or (3) a mechanical shoe seal.
- (2) An open-top tank containing a floating roof (external floating roof tank) which uses double seal or secondary seal technology shall be an approved control alternative to an internal floating roof tank provided the primary seal consists of either a mechanical shoe seal or a liquid-mounted seal and the secondary seal is rim-mounted. A weather shield is not approvable as a secondary seal unless specifically reviewed and determined to be vapor tight.

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

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

D. Except for labels, logos, etc. not to exceed 15 percent of the tank total surface area, uninsulated tank exterior surfaces that are exposed to the sun shall be white or unpainted aluminum. Storage tanks (EPNs TK-103 and WW-1) must be equipped with permanent submerged fill pipes. **(05/19)**

- E. Floating roof tanks (EPNs TK-1601 to TK-1657, TK-801 to TK-805, TK-807, TK-808, TK-810, TK-811, TK-601 to TK-606, TK-201 to TK-204 to TK-208, TK-101 and TK-102) shall be constructed or equipped with a connection to a vapor recovery system that routes vapors from the vapor space under the landed roof (roof not floating on liquid) to a control device. **(05/19)**
- F. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from floating roof and fixed roof storage tanks during the previous calendar month and past consecutive 12 month period. The record shall include tank identification number, control method used, tank capacity in gallons or barrels, name of the material stored, VOC molecular weight, VOC monthly average temperature in degrees Fahrenheit, VOC vapor pressure at the monthly average material temperature in psia, and monthly VOC throughput for the previous month and rolling 12 months. Records of VOC monthly average temperature are not required to be kept for unheated tanks which receive liquids that are at or below ambient temperatures. **(05/19)**

Emissions for tanks shall be calculated using the methods that were used to determine the MAERT limits in the permit amendment (PI-1 Form dated June 04, 2018). **(05/19)**

- 7. The products stored in storage tanks are subject to the following requirements:
 - A. The dissolved hydrogen sulfide (H₂S) in the crude oil shall not exceed 30 ppmw in the liquid.
 - B. The permit holder shall determine the dissolved H₂S concentration of crude oil to be stored using ASTM D5705, D7621, or UOP163, or additional method approved by TCEQ.
 - C. The liquid H₂S content of crude oil shall be determined by monthly sampling of the tank authorized by this permit. Results shall be recorded and made available upon request. Crude oil analysis (laboratory certificates of analysis) from the delivering source, are acceptable in place of on-site analysis. Records of Certificates or sampling results shall be kept for a period of five years.
- 8. The benzene content of any gasoline stored at this terminal shall not exceed 10 percent by weight in the liquid. Gasoline shall be analyzed for benzene two times per year. One test shall be during the summer (May 1 – September 15) and the other test shall be during the winter (November 1 – February 29). The record shall report benzene content for all grades of gasoline. Gasoline analysis (laboratory certificates of analysis) from the delivering refinery or vessel, are acceptable in place of on-site analysis. If no certificate of analysis is provided, an analysis will be conducted within 30 days of product being loaded to the tank. Records of each test shall be kept for a period of five years. **(05/19)**

Truck Loading

- 9. Loading operations (EPN TLVRU) are limited to 120,000 gal/hr of the following products: gasoline, denatured ethanol, diesel (including biodiesel), jet fuel, transmix (gasoline/distillate mix), and additives.

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. 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."

10. All loading shall be submerged.
11. All lines and connectors shall be visually inspected for any defects prior to hookup. Lines and connectors that are visibly damaged shall be removed from service. Operations shall cease immediately upon detection of any liquid leaking from the lines or connections.
12. Loading emissions from tank truck loading operations shall be vented to the Vapor Recovery Unit (VRU). Emissions from the Truck Loading VRU (EPN TLVRU) shall not exceed 1 milligram VOC per liter (mg/l) of products loaded.
13. Each tank truck shall pass leak-tight testing every 12 months using the methods described in 40 CFR Part 60, Subpart XX or Part 63, Subpart R. The permit holder shall not allow a tank truck to be filled with VOC that has a vapor pressure greater than or equal to 0.5 psia at 95 °F, 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.
14. A blower system shall be installed which will produce a vacuum in the tank truck during all loading operations. A pressure/vacuum gauge shall be installed on the suction side of the loading rack blower system adjacent to the truck being loaded to verify a vacuum in that vessel. Loading shall not occur unless there is a vacuum of at least 1.5 inch water column being maintained by the vacuum-assist vapor collection system when loading trucks. The vacuum shall be recorded every 15 minutes during loading.
15. At all times when product is being loaded, the loading rack vapor collection system shall vent to a carbon adsorption system (EPN: TLVRU) in accordance with Special Condition No. 16.
16. The following requirements apply to tank truck loading vapor recovery units (TLVRU):
 - A. Tank trucks shall not be loaded unless the vapor collection system is properly connected and the entire collection system is working as designed.
 - B. Tank truck loading vapors shall vent through a carbon adsorption system (CAS) consisting of at least two activated carbon canisters working in parallel such that the vent emissions are alternately controlled by one canister while the other is regenerated. VOC emissions from the CAS shall not exceed 1 milligram of VOC per liter (mg/l) of VOC loaded measure as propane.
 - C. The VOC concentration of the CAS exhaust shall be monitored and recorded by a continuous emission monitoring system (CEMS) that is capable of measuring VOC concentration in the exhaust air stream of the control device.
 - D. The CAS shall be sampled and recorded continuously by a CEMS to assure the 1-hour rolling average VOC concentration does not exceed the maximum allowable concentration of 1,100 parts per million by volume (ppmv). An alarm shall be installed such that an operator is alerted if the VRU outlet concentration exceeds a 1-hour rolling average of 750 ppmv and can take action before the CAS outlet concentration exceeds the maximum allowable concentration.

- E. The CEMS shall meet the design and performance specifications, pass the field tests, meet the installation requirements, and complete the data analysis and reporting requirements specified in Performance Specification 8, 40 CFR Part 60, Appendix B.

The system shall be zeroed and spanned daily when the CAS is in operation, and corrective action taken when the 24-hour calibration drift exceeds two times the amounts specified in Performance Specification 8. The CEMS shall be considered out-of-control, as defined in 40 CFR Part 60, Appendix F, Section 4.3.1, if the daily zero or span calibration drift checks exceed two times the allowable drift specified in Performance Specification 8 for five consecutive daily calibration drift checks.

Each monitor shall be quality-assured at least quarterly in accordance with 40 CFR Part 60, Appendix F, and Procedure 1. Cylinder gas audits conducted in all four calendar quarters may be used in lieu of relative accuracy test audits (RATA) for non-NSPS sources and for NSPS sources not subject to 40 CFR Part 60, Appendix F. Any failed quarterly audit and CEMS downtime shall be reported to the appropriate TCEQ Regional Manager, and necessary corrective action shall be taken. After any failed quarterly audit, the CEMS shall be considered out-of-control, as defined in 40 CFR Part 60, Appendix F, Section 5.2, until the successful completion of a corresponding audit following the corrective action.

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

- (1) Except as provided in paragraph f(iii) of this condition, during periods when the CEMS is out of service, proper operation of the CAS shall be ensured through system inspection and evaluation and operation in accordance with the manufacturer's recommendations, and within parameters shown to assure compliance with the maximum concentration limitation specified in paragraph D of this condition. During an initial 180-day period, operating parameters for the CAS system shall be checked and compared to CEMS data to assure compliance with the manufacturer's recommendations and compliant practice operating ranges. A canister cycle checklist establishing compliant operating ranges will be completed once per week during the initial 180-day period of the CEMS operation. After the initial 180-day baseline period, the checklist will be completed daily in order to demonstrate compliance for all periods when the CEMS is out of service. A canister cycle checklist will be maintained as the CAS record in lieu of the CEMS only during CEMS downtime or out-of-control periods totaling no more than 30 days in a 12-month period.
- (2) During any CEMS downtime or out-of-control period when the canister cycle checklist does not demonstrate compliance exceeding 24 hours or is used in lieu of a CEMS for more than 5 consecutive days, the loading operations shall be shut down the CAS exhaust shall be sampled during the last 50% of each regeneration cycle not to exceed 15 minutes. The VOC sampling and analysis shall be performed using an instrument with a flame ionization detector (FID), or a non-destructive infrared (NDIR) analyzer, or a TCEQ approved alternative detector. The instrument must meet all requirements specified in Section 8.1 of EPA Method 21(40 CFR Part 60, Appendix A). Sampling and analysis for VOC concentration shall be performed as follows.

- a. The instrument shall be calibrated daily with zero and span cylinder calibration gas mixtures. Zero gas shall be certified to contain less than 0.1 ppmv total hydrocarbons. Span calibration gas shall be propane at a concentration within ± 10 percent of 1,000 ppmv, and certified by the manufacturer to be ± 2 percent accurate. Calibration error for the zero and span calibration gas checks must be less than ± 5 percent of the span calibration gas value before sampling may be conducted.
 - b. Sample ports or connections must be designed such that air leakage into the sample port does not occur during sampling.
 - c. During sampling, data recording shall not begin until after two times the instrument response time. The VOC concentration shall be monitored for at least five minutes, recording one-minute averages.
 - F. Records of the CAS monitoring maintained at the plant site shall include (but are not limited to) the following:
 - (1) CEMS monitoring results on a one-hour average basis, and one-hour averages for any time periods when maximum allowable concentration is exceeded;
 - (2) CEMS daily calibration and quarterly audit results;
 - (3) Manufacturer's recommended operating ranges and actual compliant operating ranges, with the canister cycle check list to be used during periodic monitoring;
 - (4) Results of all periodic monitoring conducted during CEMS downtime or out-of-control periods; and
 - (5) Corrective actions taken (including the time and date of that action);
 - G. Alternate monitoring or sampling requirements that are equivalent or better may be approved by the TCEQ Regional Manager or the TCEQ Compliance Support Division. Alternate requirements must be approved in writing before they can be used for compliance purposes.
17. Records of all CAS shutdowns and operating parameter deviations addressed in Special Condition No. 16 shall be maintained at the plant site for a period of five years and made readily available upon request to the representatives of the TCEQ or any air pollution control agency with jurisdiction. These records shall also include a summary of corrective actions taken to comply with permit special conditions.
18. A monitoring system shall be installed, maintained, and operated for the VRU which:
- A. Prevents start of loading operations until the VRU is operational;
 - B. Automatically shuts down loading operations if the vapor collection system malfunctions;
 - C. Prevents resumption of loading operations until the identified malfunction has been repaired.
- Marine Loading
19. Unloading and LPG loading operations (EPN TRUCKFUG) are limited to the liquids identified below at the rates indicated. Operational records to demonstrate compliance with this condition shall be updated on a monthly basis for each activity and kept on site for five years. **(05/19)**

| Activity | Material | Trucks per hour | Trucks per year |
|------------------------|-------------------|-----------------|-----------------|
| Air eliminator purging | Components* | 4 | 30,000 |
| | Denatured ethanol | 3 | 26,280 |
| Pipe decoupling | LPG | 4 | 80,000 |

*Components include approved products in Attachment A.

Marine Loading

20. Marine loading operations are subject to the following requirements.

A. Loading operations are limited to the liquids identified below at the rates indicated.

| Vessel type | Dock type | All Products (Attachment A Group 1 and 2) Loading Rate (bbl/hr) |
|-------------|---------------|--|
| Ship | Any ship dock | 30,000 |
| Barges | Any ship dock | 20,000 |
| Barges | Barge dock | 10,000 |
| Site-wide | | 90,000 barges only, or 120,000 ships and barges combined |

21. All loading shall be submerged.

22. 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.

23. Emissions from marine loading shall be controlled as follows:

- A. Emissions from loading barges shall be routed to one or all of the MVRUs (EPNs: MLVRU-1, 2, 3, 4, 5, 6, 7 and 8) in accordance with Special Condition Nos. 26, 27, 28, and 29.
- B. Emissions from loading ships of products with a vapor pressure equal to or greater than 0.1 psia at 95 °F shall be routed to one or all of the MVRUs (EPNs: MLVRU-1, 2, 3, 4, 5, 6, 7 and 8) in accordance with Special Condition Nos. 27, 28 and 29.

Special Condition for 99.89% (11/19)

24. The following additional requirements apply to loading of a VOC which has a vapor pressure equal to or greater than 0.5 pounds per square inch absolute (psia) under actual storage conditions onto inerted marine vessels (ships).

- A. Before loading, the owner or operator of the marine terminal shall verify that the marine vessel has passed an annual vapor tightness test as specified in 40 CFR §63.565(c) (September 19, 1995) or 40 CFR §61.304(f) (October 17, 2000) within the previous twelve

months and received a recent, completed Standard Tanker Chartering Questionnaire form (Q88) or equivalent.

- B. The pressure at the vapor collection connection of an inerted marine vessel must be maintained such that the pressure in a vessel's cargo tanks do not go below 0.2 pounds per square inch gauge (psig) or exceed 80% of the lowest setting of any of the vessel's pressure relief valves. The lowest vessel cargo tank or vent header pressure relief valve setting for the vessel being loaded shall be recorded. Pressure shall be continuously monitored while the vessel is being loaded. Pressure shall be recorded at fifteen-minute intervals.
- C. VOC loading rates shall be recorded during loading. The loading rate must not exceed the maximum permitted loading rate.
- D. During loading, the owner or operator of the marine terminal or of the marine vessel shall conduct audio, olfactory, and visual checks for leaks within the first hour of loading and once every 8 hours thereafter for on-shore equipment and on board the ship.
 - (1) If a liquid leak is detected during loading and cannot be repaired immediately (for example, by tightening a bolt or packing gland), then the loading operation shall cease until the leak is repaired.
 - (2) If a vapor leak is detected by sight, sound, smell, or hydrocarbon gas analyzer during the loading operation, then a "first attempt" shall be made to repair the leak. Loading operations need not be ceased if the first attempt to repair the leak is not successful provided that the first attempt effort is documented by the owner or operator of the marine vessel and a copy of the repair log is made available to a representative of the marine terminal.
 - (3) If the attempt to repair the leak is not successful and loading continues, emissions from the loading operation for that ship shall be calculated assuming a collection efficiency of 99%.

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.

- 25. Unless otherwise specified in this permit, all vapors associated with negative pressure loading of barges as allowed under USCG regulations with the products having a vapor pressure greater than or equal to 0.1 psia shall be routed through a vacuum-assisted collection system as specified below.
 - A. Barges shall not be loaded unless the vapor collection system is properly connected and the entire collection system is working as designed.
 - B. The vacuum-assisted system shall be designed to provide a minimum vacuum of 1.0 inch of water while connected to barges being loaded.
 - C. A pressure measurement device shall be installed as close as possible to the vessel's vapor return port to continuously monitor and record the vacuum while loading is taking place. The monitoring device shall be accurate to, and shall be calibrated at least annually in accordance with, the manufacturer's specifications. Vacuum data shall be monitored and recorded at least once every 15 minutes during the loading process.

- D. Quality-assured (or valid) data must be generated when barge loading is occurring. 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 barge loading is occurring over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

26. The following requirements apply to the Marine Vapor Recovery Units (MVRUs):

- A. Marine vessels shall not be loaded unless the vapor collection system is properly connected and the entire collection system is working as designed.
- B. Vapors from each MVRU shall be vented through a carbon adsorption system (CAS) consisting of at least two activated carbon canisters working in parallel such that the vent emissions are controlled by one canister while the other is regenerated. When the active canister has been operational for 24 hours without undergoing a regeneration cycle, an alarm shall activate recommending that the active canister be switched out and regenerated. The permit holder has until September 5, 2022 to implement and install the alarm. VOC emissions from the CAS shall not exceed 1 milligram VOC per liter (mg/l) of VOC loaded. **(03/22)**
- C. The VOC concentration of the CAS exhaust shall be continuously monitored and recorded by a continuous emission monitoring system (CEMS) that is capable of measuring organic compound concentration in the exhaust air stream of the control device. The CAS shall be sampled and recorded continuously to assure the VOC concentration does not exceed a one-hour rolling average of 958 parts per million by volume (ppmv) as propane. **(02/18)**

An alarm shall be installed such that an operator is alerted if the VRU outlet concentration exceeds a one-hour rolling average VOC concentration of 750 ppmv expressed as propane. Records of the corrective action taken following an alarm will be maintained at the terminal site and shall include the time and date of that action. **(02/18)**
- D. The CEMS shall meet the design and performance specifications, pass the field tests, meet the installation requirements, and complete the data analysis and reporting requirements specified in Performance Specification 8, Title 40 Code of Federal Regulation Part 60 (40 CFR Part 60), Appendix B.

The system shall be zeroed and spanned daily when the CAS is in operation, and corrective action taken when the 24-hour calibration drift exceeds two times the amounts specified in Performance Specification 8. The CEMS shall be considered out-of-control, as defined in 40 CFR 60, Appendix F, Section 4.3.1, if the daily zero or span calibration drift checks exceed two times the allowable drift specified in Performance Specification 8 for five consecutive daily calibration drift checks.

Each monitor shall be quality-assured at least quarterly in accordance with 40 CFR Part 60, Appendix F, Procedure 1. Cylinder gas audits conducted in all four calendar quarters may be used in lieu of relative accuracy test audits (RATA) for non-NSPS sources and for NSPS sources not subject to 40 CFR Part 60, Appendix F. Any failed quarterly audit and CEMS downtime shall be reported to the appropriate TCEQ Regional Manager, and necessary corrective action shall be taken. After any failed quarterly audit, the CEMS shall be considered out-of-control, as defined in 40 CFR 60, Appendix F, Section 5.2, until the successful completion of a corresponding audit following the corrective action.

All CGA exceedances of ± 15 percent accuracy indicate that the CEMS is out of control.

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

- (1) Except as provided in paragraph G.(iii) of this condition, during periods when the CEMS is out of service, proper operation of the CAS shall be ensured through system inspection and evaluation and operation in accordance with the manufacturer's recommendations, and within parameters shown to assure compliance with the maximum concentration limitation specified in paragraph D of this condition. During an initial 180-day period, operating parameters for the CAS system shall be checked and compared to CEMS data to assure compliance with the manufacturer's recommendations and compliant practice operating ranges. A canister cycle checklist establishing compliant operating ranges will be completed once per week during the initial 180-day period of the CEMS operation. After the initial 180-day baseline period, the checklist will be completed daily in order to demonstrate compliance for all periods when the CEMS is out of service. A canister cycle checklist will be maintained as the CAS record in lieu of the CEMS only during CEMS downtime or out-of-control periods totaling no more than 30 days in a 12-month period.
 - (2) During any CEMS downtime or out-of-control period when the canister cycle checklist does not demonstrate compliance exceeding 24 hours or is used in lieu of a CEMS for more than 5 consecutive days, the loading operations shall be shut down the CAS exhaust shall be sampled during the last 50% of each regeneration cycle not to exceed 15 minutes. The VOC sampling and analysis shall be performed using an instrument with a flame ionization detector (FID), or a non-destructive infrared (NDIR) analyzer, or a TCEQ approved alternative detector. The instrument must meet all requirements specified in Section 8.1 of EPA Method 21(40 CFR Part 60, Appendix A). Sampling and analysis for VOC concentration shall be performed as follows. 1 hour block averages shall be used to determine compliance with the mg/l limit.
 - a. The instrument shall be calibrated daily with zero and span cylinder calibration gas mixtures. Zero gas shall be certified to contain less than 0.1 ppmv total hydrocarbons. Span calibration gas shall be propane at a concentration within ± 10 percent of 1,000 ppmv, and certified by the manufacturer to be ± 2 percent accurate. Calibration error for the zero and span calibration gas checks must be less than ± 5 percent of the span calibration gas value before sampling may be conducted.
 - b. Sample ports or connections must be designed such that air leakage into the sample port does not occur during sampling.
 - c. During sampling, data recording shall not begin until after two times the instrument response time. The VOC concentration shall be monitored for at least five minutes, recording one-minute averages.
27. Records of the CAS monitoring maintained at the plant site shall include (but are not limited to) the following:
- A. CEMS monitoring results;

- B. CEMS daily calibration and quarterly audit results;
 - C. Manufacturers recommended operating ranges and actual compliant operating ranges, with the canister cycle check list to be used during periodic monitoring;
 - D. Results of all periodic monitoring conducted during CEMS downtime or out-of-control periods; and
 - E. Corrective actions taken (including the time and date of that action);
28. The vacuum pressure during carbon bed regeneration shall exceed 24 inches of mercury for a period of at least 1.5 minutes and shall be monitored by a programmable logic controller. Continuous monitoring and recording of the vacuum level during regeneration shall be performed, and records shall be kept at the plant site.
29. Alternate monitoring or sampling requirements that are equivalent or better may be approved by the TCEQ Regional Director. Alternate requirements must be approved in writing before they can be used for compliance purposes.
30. After loading any product having a vapor pressure greater than 0.1 psia has been completed, the VOC loading vapors contained in the onshore vapor return lines shall either be blocked in or they can be displaced with ambient air, nitrogen, natural gas, or a mixture of natural gas and ambient air or nitrogen. After displacement of the loading vapors is completed, the vapor return lines shall be blocked in until the next vessel loading event.
31. The permit holder shall maintain and update monthly an emissions record which includes calculated emissions of VOC from all loading operations over the previous rolling 12 month period. The record shall include the type of loading (barge, ship), the loading spot, control method used, quantity loaded in gallons or barrels, 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."

Piping Components - Fugitives

32. Piping, Valves, Pumps, Agitators, and Compressors — Intensive Directed Maintenance — 28LAER

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:

- (1) piping and instrumentation diagram (PID);
- (2) a written or electronic database or electronic file;

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

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

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

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

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

The percent of connectors leaking used in paragraph B shall be determined using the following formula:

$$(C_i + C_s) \times 100 / C_t = C_p$$

Where:

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

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

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

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

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

- (1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or
- (2) the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 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, then the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

A directed maintenance program shall consist of the repair and maintenance of components assisted simultaneously by the use of an approved gas analyzer such that a minimum

concentration of leaking VOC is obtained for each component being maintained. Replaced components shall be re-monitored within 15 days of being placed back into VOC service.

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

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

- H. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 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 and times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.
- 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:

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

Where:

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

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

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

V_p = 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.

Control Devices

Vapor Combustors

33. The vapor combustion units (EPNs TKVCU-1, 2, and 3) shall achieve a 99.8 percent control efficiency of emissions directed to it. **(05/19)**

This shall be ensured by maintaining the temperature in, or immediately downstream of, the combustion chamber above 1600°F (based on a six-minute average) prior to the initial stack test performed in accordance with Special Condition No. 35. Following the completion of that stack test, the six minute average temperature shall be maintained above the minimum one hour average temperature maintained during the last satisfactory stack test.

The vapor combustor exhaust temperature shall be continuously monitored and recorded when waste gas is directed to it. The temperature measurement device shall reduce the temperature readings to an averaging period of 6 minutes or less and record it at that frequency. The temperature monitor shall be installed, calibrated or have a calibration check performed at least annually, and maintained according to the manufacturer's specifications. The device shall have an accuracy of the greater of ±2 percent of the temperature being measured expressed in degrees Celsius or ±2.5°C (or the equivalent in Fahrenheit, ±4.5°F).

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

The vapor combustor shall be operated with no visible emissions and have a constant pilot flame during all times waste gas could be directed to it. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated or have a calibration check at a frequency in accordance with, the manufacturer's specifications

Fuel gas combusted at this facility shall be sweet natural gas containing no more than 5 grains of total sulfur per 100 dry standard cubic feet.

Emergency Engines

34. Fuel used for the fire water pump engines (EPNs ENG-1 and ENG-2) shall be 15 ppm of ultra-low sulfur diesel. Fuel used for the generator engine (EPN ENG-3) shall be natural gas. Non-emergency operation of each engine is limited to a total of 100 operating hours in a year. Operational records to demonstrate compliance with this condition shall be kept on site for five years. **(05/19)**

Initial Demonstration of Compliance

35. The holder of this permit shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the Tank Roof Landing vapor combustors (EPN: TKVCU-1, 2, and 3) to demonstrate compliance with the MAERT and Special Condition No. 33. The holder of this permit is responsible for providing sampling and testing facilities and for 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 Procedure Manual and the U.S. Environmental Protection Agency (EPA) Reference Methods. **(05/19)**
- A. The appropriate Texas Commission on Environmental Quality (TCEQ) Regional Office shall be contacted as soon as testing is scheduled, but not less than 30 days prior to sampling to schedule a pretest meeting.
- The notice shall include:
- (1) Date for pretest meeting.
 - (2) Date sampling will occur.
 - (3) Name of firm conducting sampling.
 - (4) Type of sampling equipment to be used.
 - (5) Method or procedure to be used in sampling.

- (6) Procedure/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 submitting the test reports.

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

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

- B. Air contaminants emitted from the vapor combustors (EPNs TKVCU-1, 2, and 3) to be tested for include (but are not limited to): VOC, NO_x, CO. **(05/19)**
- C. Sampling of the vapor combustor shall occur within 60 days after achieving the maximum operating rate, but no later than 180 days after initial start-up of the facilities. Sampling may also be required by the Executive Director of the TCEQ. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office.
- D. Maximum loading rates shall be maintained during vapor combustors stack emission testing. Primary operating parameters that enable determination of loading rate shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting. If maximum loading rates are not maintained during testing, then future loading rates may be limited to the rates established during testing. Additional stack testing may be required to increase loading rates.

These conditions/parameters, combustor temperature, 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 and accepted by the TCEQ Regional Office. Permit allowable emissions and emission control requirements are not waived and still apply during stack testing periods.

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

One copy to the appropriate TCEQ Regional Office.

One copy to each local air pollution control program.

Sampling ports and platform(s) shall be incorporated into the design of vapor combustion units according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities" of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedure Manual. Alternate sampling facility designs must be submitted for approval to the

TCEQ Regional Director. Use of a temporary platform is authorized for EPN TKVCU-1, 2, and 3. **(05/19)**

36. The following requirements apply to capture systems for the Tank Roof Landing Vapor Combustors (EPN TKVCU-1, 2, and 3), the Marine Vapor Recovery Units (EPNs MLVRU-1, 2, 3, 4, 5, 6, 7 and 8) and Truck Vapor Recovery Units (EPN TLVRU): **(05/19)**
- 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 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.

Planned Maintenance Startup and Shutdown

37. This permit authorizes emissions from the following temporary facilities used to support the planned MSS activities identified in Special Condition No. 38 at permanent site facilities: containers, vacuum trucks and vac boxes, portable control devices identified in Special Condition No. 45, and controlled recovery systems. Emissions from temporary facilities are authorized provided the temporary facility (a) does not remain on the plant site for more than 12 consecutive months, (b) is used solely to support planned MSS activities at the permanent site facilities authorized by this permit, and (c) does not operate as a replacement for an existing authorized facility.
38. This permit authorizes the emissions from the facilities authorized by this permit for the planned maintenance, startup, and shutdown (MSS) activities summarized in the table below. **(05/19)**

| Facility | Activity | EPN |
|---------------|--|-------------------------------|
| Storage Tanks | Tank with landed roof; drain, degas to atmosphere and open tank; post- | TKVENT, TKMSSCAP, and FUG-MSS |

| Facility | Activity | EPN |
|---|---|---------------------------------|
| | degas vent to atmosphere; and refill empty tank with landed roof – vented to atmosphere | |
| Storage Tanks | Operate tank with landed roof; degas tank; clean tank; refill empty tank with landed roof - vented to control | TKVCUCAP, PORTVCU, and TKMSSCAP |
| Pressure Tanks | Degas pressure tank | PORTCTRL |
| Air Movers and Vacuum Trucks | Remove liquid from tanks, piping, and other facilities for planned MSS | VACLOAD and PORTVCU |
| Vacuum Boxes | Store liquid from tanks, piping, and other facilities undergoing planned MSS | VACLOAD and PORTVCU |
| Pumps, valves, piping, filters, pig traps, etc. | Isolate, drain, degas to atmosphere, and refill to support planned MSS | FUG-MSS |
| Sumps and Oil-water separator | Receive, store, and transfer liquids associated with MSS | SUMP-1, SUMP-2, SUMP-3 and OWS |

Maintenance activities associated with minor facilities: pumps, valves, piping, filters, pig traps, etc. with an isolated volume of less than 85 cubic feet in the table above may be tracked through the work orders or equivalent. Emissions from these activities identified 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 shall be documented in accordance with the applicable Special Condition(s).

The performance of each planned MSS activity shall be recorded and include at least the following information:

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

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

39. This permit authorizes emissions from the storage tanks for floating roof landings due to inventory control, changes of tank service, or tank inspection/maintenance as identified in the permit application. Tank roof landings include all operations when the tank floating roof is on its supporting legs. These emissions are subject to the maximum allowable emission rates indicated on the MAERT.

The following requirements apply to roof landing operations, with the exceptions of vessels being re-filled with liquids of true vapor pressures less than 0.1 psia at 95°F provided the true vapor pressure of the liquid previously stored in the tank was less than 0.1 psia, and to new tanks at initial fill.

- A. If the tank is to be completely drained, the tank liquid level shall be continuously lowered after the tank floating roof initially lands on its supporting legs until the tank and tank sump have been drained to the maximum extent practicable without entering the tank.
- B. If the VOC vapor pressure of the liquid being drained from the tank is greater than 0.1 psia at 95 °F, or if the tank will not be completely drained and the VOC vapor pressure of the liquid is greater than 0.10 psia at 95 °F, a vapor capture system shall be connected to the vapor space under the landed tank roof and the vapor space vented to a combustor.

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

The vapor space shall be vented to the control device during the period from the first stoppage of liquid withdrawal after the roof is landed until the tank has been degassed per part C of this condition or the tank has been filled so that the landed roof is floating on liquid.

- C. Controlled degassing of the vapor space under landed roofs shall be completed as follows:
- (1) If the VOC vapor pressure of the liquid stored in the tank is greater than 0.10 psia, the gas or vapor removed from the vapor space under the floating roof must be routed to a control device through a controlled recovery system and controlled degassing must be maintained until the VOC concentration is less than 2,000 ppmv or 2 percent of the LEL as VOC.

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

- (2) The vapor space under the floating roof shall be vented using good engineering practice to ensure air contaminants are flushed out of the tank through the control device or controlled recovery system to the extent allowed by the storage tank design.
- (3) A volume of purge gas/air equivalent to twice the volume of the vapor space under the floating roof must have passed through the control device or into a controlled recovery system, before the vent stream may be sampled to verify acceptable VOC concentration. The measurement of purge gas volume shall not include any make-up air introduced into the control device or recovery system. The VOC sampling and analysis shall be performed as specified in Special Condition No. 41.
- (4) The sampling point shall be upstream of the inlet to the control device. The sample ports and the collection system must be designed and operated such that air does not

leak into the sample probe or the collection system downstream of the process equipment or vessel being purged.

- (5) Degassing must be performed every 24 hours unless there is no standing liquid in the tank or the VOC partial pressure of the remaining liquid in the tank is less than 0.15 psia.
- D. The tank shall not be opened or ventilated without control, except as allowed by (a) below until one of the criteria in part G of this condition is satisfied.
- (1) Minimize air circulation in the tank vapor space.
 - A. One manway may be opened to allow access to the tank to remove or de-volatilize the remaining liquid. Other manways or access points may be opened as necessary to remove or de-volatilize the remaining liquid. Wind barriers shall be installed at all open manways and access points to minimize air flow through the tank.
 - B. Access points shall be closed when not in use.
- E. The tank may be opened without restriction and ventilated without control, after all standing liquid has been removed from the tank or the liquid remaining in the tank has a VOC partial pressure less than 0.02 psia. These criteria shall be demonstrated in any one of the following ways.
- (1) Low VOC partial pressure liquid that is soluble with the liquid previously stored may be added to the tank to lower the VOC partial pressure of the liquid mixture remaining in the tank to less than 0.02 psia. This liquid shall be added during tank degassing if practicable. The estimated volume of liquid remaining in the drained tank and the volume and type of liquid added shall be recorded. The liquid VOC partial pressure may be estimated based on this information and engineering calculations.
 - (2) If water is added or sprayed into the tank to remove standing VOC, one of the following must be demonstrated:
 - A. Take a representative sample of the liquid remaining in the tank and verify no visible sheen using the static sheen test from 40 CFR 435 Subpart A Appendix 1.
 - B. Take a representative sample of the liquid remaining in the tank and verify hexane soluble VOC concentration is less than 1000 ppmw using EPA method 1664 (may also use 8260B or 5030 with 8015 from SW-846).
 - C. Stop ventilation and close the tank for at least 24 hours. When the tank manway is opened after this period, verify VOC concentration is less than 1000 ppmv through the procedure in Special Condition No. 41.
 - (3) No standing liquid verified through visual inspection.

The permit holder shall maintain records to document the method used to release the tank.
- F. Tanks shall be refilled as rapidly as practicable until the roof is off its legs with the following exception:
- (1) The vapor space below the tank roof is directed to a control device when the tank is refilled until the roof is floating on the liquid. The control device used and the method and locations used to connect the control device shall be recorded. All vents from the tank being filled must exit through the control device.

- G. The occurrence of each roof landing and the associated emissions shall be recorded and the rolling 12-month tank roof landing emissions shall be updated on a monthly basis. These records shall include at least the following information:
- (1) the identification of the tank and emission point number, and any control devices or recovery systems used to reduce emissions;
 - (2) the reason for the tank roof landing
 - (3) for the purpose of estimating emissions, the date, time, and other information specified for each of the following events:
 - A. the roof was initially landed,
 - B. all liquid was pumped from the tank to the extent practical,
 - C. start and completion of controlled degassing and total volumetric flow,
 - D. all standing liquid was removed from the tank or any transfers of low VOC partial pressure liquid to or from the tank including volumes and vapor pressures to reduce tank liquid VOC partial pressure to <0.02 psi,
 - E. if there is liquid in the tank, VOC partial pressure of liquid, start and completion of uncontrolled degassing, and total volumetric flow,
 - F. refilling commenced, liquid filling the tank, and the volume necessary to refloat the roof; and
 - G. tank roof off supporting legs, floating on liquid.
 - (4) The estimated quantity of each air contaminant, or mixture of air contaminants, emitted between events (a) and (g) with the data and methods used to determine it. The emissions associated with roof landing activities shall be calculated using the methods described in Section 7.1.3.2 of AP-42 "Compilation of Air Pollution Emission Factors, Chapter 7 - Storage of Organic Liquids" dated November 2006 and the permit application.
40. Permanent facilities, with the exception of storage tanks, shall be depressurized, emptied, degassed, and placed in service in accordance with the following requirements except for activities that meet the exemption requirements of Special Condition No. 40.E.
- A. The process equipment shall be depressurized to a control device or a controlled recovery system prior to venting to atmosphere, degassing, or draining liquid. Equipment that only contains material that is liquid with VOC partial pressure less than 0.1 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 0.1 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 must be removed to the maximum extent practical prior to opening equipment to commence degassing and/or maintenance. Liquids must be drained into a closed vessel or closed liquid recovery system unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid must be covered or transferred to a covered vessel within one hour of being drained.
- D. If the VOC partial pressure is greater than 0.1 psi at the normal process temperature or 95°F, facilities shall be degassed using good engineering practice to ensure air contaminants are removed from the system through the control device or controlled recovery system to the extent allowed by process equipment or storage vessel design. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. The facilities to be degassed shall not be vented directly to atmosphere, except as necessary to establish isolation of the work area or to monitor VOC concentration following controlled depressurization. The venting shall be minimized to the maximum extent practicable and actions taken recorded. The control device or recovery system utilized shall be recorded with the estimated emissions from controlled and uncontrolled degassing calculated using the methods that were used to determine allowable emissions for the permit application.
 - (1) For routine MSS activities, 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 10 percent of the lower explosive limit (LEL) per documented site procedures used to de-inventory equipment to a control device for safety purposes (i.e., hot work or vessel entry procedures).
 - (2) The locations and/or identifiers where the purge gas or steam enters the process equipment and the exit points for the exhaust gases shall be recorded (process flow diagrams [PFDs] or piping and instrumentation diagrams [P&IDs] may be used to demonstrate compliance with the requirement). If the process equipment is purged with a gas, two system volumes of purge gas must have passed through the control device or controlled recovery system before the vent stream may be sampled to verify acceptable VOC concentration prior to uncontrolled venting. The VOC sampling and analysis shall be performed using an instrument meeting the requirements of Special Condition No. 41. The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged. If there is not a connection (such as a sample, vent, or drain valve) available from which a representative sample may be obtained, a sample may be taken upon entry into the system after degassing has been completed. The sample shall be taken from inside the vessel so as to minimize any air or dilution from the entry point. The facilities shall be degassed to a control device or controlled recovery system until the VOC concentration is less than 10,000 ppmv or 10 percent of the LEL. Documented site procedures used to de-inventory equipment to a control device for safety purposes (i.e., hot work or vessel entry procedures) that achieve at least the same level of purging may be used in lieu of the above.
- E. Gases and vapors with VOC partial pressure greater than 0.1 psi may be vented directly to atmosphere if all the following criteria are met:

- (1) It is not technically practicable to depressurize or degas, as applicable, into the process.
- (2) There is not an available connection to a permanent terminal control system (i.e., flare).
- (3) There is no more than 85 lb of air contaminant to be vented to atmosphere during the equipment shutdown or startup, as applicable.

All instances of venting directly to atmosphere per Special Condition No. 40.E must be documented when occurring as part of any MSS activity. The emissions associated with venting without control must be included in the work order or equivalent for those planned MSS activities identified routine.

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

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

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

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

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

- (2) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording VOC concentration each minute. As an alternative the VOC concentration may be monitored over a five-minute period with an instrument designed to continuously measure concentration and record the highest concentration read. The highest measured VOC concentration shall be recorded and shall not exceed the specified VOC concentration limit prior to uncontrolled venting.
- (3) If a TVA-1000 series FID analyzer calibrated with methane is used to determine the VOC concentration, a measured concentration of 6,800 ppmv may be considered equivalent to 2,000 ppmv as VOC and 34,000 ppmv methane is considered equivalent to 10,000 ppmv as VOC.

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

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

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

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

- C. Lower explosive limit measured with a lower explosive limit detector.
 - (1) The detector shall be calibrated within 30 days of use with a certified pentane gas standard at 25% of the lower explosive limit (LEL) for pentane. Records of the calibration date/time and calibration result (pass/fail) shall be maintained.
 - (2) A functionality test shall be performed on each detector within 24 hours of use with a certified gas standard at 25% of the LEL for pentane. The LEL monitor shall read no lower than 90% of the calibration gas certified value. Records, including the date/time and test results, shall be maintained.
 - (3) A certified methane gas standard equivalent to 25% of the LEL for pentane may be used for calibration and functionality tests provided that the LEL response is within 95% of that for pentane.

- 42. The following requirements apply to vacuum and air mover truck operations to support planned MSS at this site:
 - A. Prior to initial use, identify any liquid in the truck. Record the liquid level and document the VOC 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) The vacuum/blower exhaust shall be routed to a control device unless the liquid in the truck and the liquid to be transferred have VOC partial pressure of less than 0.1 psia at 95 °F.
 - (2) Equip the fill line intake with a "duckbill" or equivalent attachment if the hose end cannot be submerged in the liquid being collected.
 - (3) A daily record containing the information identified below is required for each vacuum truck in operation at the site each day.
 - a. For each liquid transfer made with the vacuum operating, record the duration of any periods when air may have been entrained with the liquid transfer. The reason for operating in this manner and whether a "duckbill" or equivalent was used shall be recorded. Short, incidental periods, such as those necessary to walk from the truck to the fill line intake, do not need to be documented.
 - b. If the vacuum truck exhaust is controlled with a control device other than an engine or oxidizer, VOC exhaust concentration upon commencing each transfer, at the end of each transfer, and at least every hour during each transfer shall be recorded, measured using an instrument meeting the requirements of Special Condition No. 41.
 - 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 0.1 psia, this shall be recorded when the truck is unloaded or leaves the plant site and the emissions may be estimated as the maximum potential to emit for a truck in that services as documented in the permit application.
43. The following requirements apply to temporary vessels, including vac boxes, used in support of MSS activities.
- A. The exterior surfaces of these temporary vessels that are exposed to the sun shall be white or aluminum effective May 1, 2013. This requirement does not apply to temporary vessels that only vent to atmosphere when being filled, sampled, gauged, or when removing material.
 - B. These temporary vessels must be covered and equipped with fill pipes that discharge within 6 inches of the vessel bottom.
 - C. These requirements do not apply to vessels storing less than 450 gallons of liquid that are closed such that the vessel does not vent to atmosphere except when filling, sampling, gauging, or when removing material.
 - D. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all temporary vessels, including vac boxes, during the previous calendar month and the past consecutive 12 month period. This record must be updated by the last day of the month following. 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."
 - E. If the vessel is used to store liquid with VOC partial pressure less than 0.1 at 95 F, records may be limited to the days the temporary vessel is in service and the liquid stored. Emissions may be estimated based upon the potential to emit as identified in the permit application.
44. Additional occurrences of MSS activities authorized by this permit may be authorized under permit by rule only if conducted in compliance with this permit's procedures, emission controls, monitoring, and recordkeeping requirements applicable to the activity.
45. Control devices required by this permit for emissions from planned MSS activities are limited to those types identified in this condition. Control devices shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. Each device used must meet all the requirements identified for that type of control device.

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

- A. Carbon Adsorption System (CAS).

- (1) The CAS shall consist of 2 carbon canisters in series with adequate carbon supply for the emission control operation.
 - (2) The CAS shall be sampled downstream of the first can and the concentration recorded at least once every hour of CAS run time to determine breakthrough of the VOC. The sampling frequency may be extended using either of the following methods:
 - a. It may be extended to up to 30 percent of the minimum potential saturation time for a new can of carbon. The permit holder shall maintain records including the calculations performed to determine the minimum saturation time.
 - b. The carbon sampling frequency may be extended to longer periods based on previous experience with carbon control of a MSS waste gas stream. The past experience must be with the same VOC, type of facility, and MSS activity. The basis for the sampling frequency shall be recorded. If the VOC concentration on the initial sample downstream of the first carbon canister following a new polishing canister being put in place is greater than 100 ppmv above background, it shall be assumed that breakthrough occurred while that canister functioned as the final polishing canister and a permit deviation shall be recorded.
 - (3) The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition No. 41.
 - (4) Breakthrough is defined as the highest measured VOC concentration at or exceeding 100 ppmv above background. When the condition of breakthrough of VOC from the initial saturation canister occurs, the waste gas flow shall be switched to the second canister and a fresh canister shall be placed as the new final polishing canister within four hours. Sufficient new activated carbon canisters shall be maintained at the site to replace spent carbon canisters such that replacements can be done in the above specified time frame.
 - (5) Records of CAS monitoring shall include the following:
 - a. Sample time and date.
 - b. Monitoring results (ppmv).
 - c. Canister replacement log.
 - (6) Single canister systems are allowed if the time the carbon canister is in service is limited to no more than 30 percent of the minimum potential saturation time. The permit holder shall maintain records for these systems, including the calculations performed to determine the saturation time. The time limit on carbon canister service shall be recorded and the expiration date attached to the carbon can.
- B. Thermal Oxidizer/Vapor Combustor (EPN PORTVCU)
- (1) The thermal oxidizer firebox/vapor combustion unit shall provide no less than 99.5 percent DRE control of the waste gas directed to it, or allow a VOC exit stream concentration of no greater than 10 ppmv, dry corrected to 3 percent oxygen. This may be demonstrated by:
 - a. maintaining thermal oxidizer/vapor combustor firebox exit temperature at not less than 1400°F with waste gas flows shall be limited to assure at least a 0.5 second

residence time in the fire box while waste gas is being fed into the oxidizer/combustor; or

- b. having completed a control efficiency demonstration (stack test) in accordance with the approved test methods in 30 TAC 115.545 (relating to Approved Test Methods) within the past 12 months and maintaining thermal oxidizer/vapor combustor firebox exit temperature at not less than that temperature maintained during the demonstration with waste gas flow limited to that maintained during the demonstration while waste gas is being fed into the oxidizer/combustor.

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

The temperature measurement device shall be installed, calibrated, and maintained according to accepted practice and the manufacturer's specifications. The device shall have an accuracy of the greater of ± 0.75 percent of the temperature being measured expressed in degrees Celsius or $\pm 2.5^{\circ}\text{C}$.

C. Flare (EPN PORTCTRL)

- (1) The heating value and velocity requirements in 40 CFR 60.18 shall be satisfied during operations authorized by this permit.
- (2) The flare shall be operated with a flame present at all times and/or have a constant pilot flame while waste gas is directed to the flare.

46. The following requirements apply to capture or recovery systems used to support MSS.

The permit holder shall perform a visual, audible, and/or olfactory inspection of the capture or recovery systems downstream of the blower and upstream of the control device to verify there are no open or leaking components within one hour of placing the system in service. The date and time of each inspection performed shall be recorded.

Offsets

47. This Nonattainment New Source Review (NNSR) permit is issued/approved based on the requirement that the permit holder offset the project emission increase for facilities authorized by this permit prior to the commencement of operation, through participation in the TCEQ Emission Banking and Trading (EBT) Program in accordance with the rules in 30 TAC Chapter 101, Subchapter H.
48. For Phase I and II of this permit, the permit holder shall use 116.9 tpy of VOC credits to offset the 101.58 tpy VOC project emission increase for the associated facilities authorized by this permit at a ratio of 1.15 to 1.0. Prior to the commencement of operation, the permit holder shall obtain approval from the TCEQ EBT Program for the credits being used and then submit a permit alteration or amendment request to the TCEQ Air Permits Division (and copy the TCEQ Regional Office) to identify approved credits by TCEQ credit certificate number. **(9/19)**
49. For future phases of this permit, the permit holder shall use 131.4 tpy of VOC credits to offset the 114.22 tpy VOC project emission increase for the associated facilities authorized by this

permit at a ratio of 1.15 to 1.0. Prior to the commencement of operation, the permit holder shall obtain approval from the TCEQ EBT Program for the credits being used and then submit a permit alteration or amendment request to the TCEQ Air Permits Division (and copy the TCEQ Regional Office) to identify approved credits by TCEQ credit certificate number. **(9/19)**

Chemical Flexibility (05/19)

50. Except as provided for below, the use of compounds at the Pasadena Terminal is limited to those identified in the permit application, PI-1 June 4, 2018. New compounds may be authorized through the use of the procedure below, 30 TAC Chapter 106, or 30 TAC Chapter 116.
- A. Short-term (pounds per hour [lb/hr]) and annual (TPY) emissions and calculations shall be completed for each chemical at each affected source. Emission rates (ER) shall be calculated in accordance with the methods documented in the permit amendment (PI-1 dated June 40, 2018). The calculated ER shall not exceed the maximum allowable emissions rate at any emission point.
 - B. The Effect Screening Level (ESL) for the compound shall be obtained from the current TCEQ ESL list or by written request to the TCEQ Toxicology Division. A record of each ESL obtained by written request shall be kept on file by the applicant.
 - C. The new materials shall serve the same basic function, and the emissions shall emit at the same Emission Point Nos. (EPNs) as the emissions currently authorized.
 - D. All the constituents of the new compound shall be known; i.e., the weight percentages of the constituents add to 100 percent or more.
 - E. Any air contaminant in the new compound is exempt from paragraphs F and G below if it meets E(1) or E(2) below:
 - (1) The compound's annual ESL \geq 10 percent of the compound's short term ESL, is emitted at a rate, and has a short-term effects screening level (ESL), as stated in the following table:

| Emission Rate (lbs/hr) | Short-term ESL ($\mu\text{g}/\text{m}^3$) |
|------------------------|---|
| ≤ 0.04 | ≥ 2 and < 500 |
| ≤ 0.10 | ≥ 500 and $< 3,500$ |
| ≤ 0.40 | $\geq 3,500$ |

- (2) It has a true vapor pressure at 104°F of less than 0.01 mm Hg.
- F. For all other new or increases in existing air contaminants, the following procedure shall be completed to determine if the short-term impacts are acceptable.
 - (1) Determine the emission rate of each air contaminant including emissions of the same air contaminant (if an existing air contaminant) from the currently authorized materials that may be emitted at the same time from each emission point.
 - (2) Multiply the emission rate of the air contaminant by the unit impact multiplier for each emission point from the following table to determine the off-property impact Ground Level Concentration (GLC) for each emission point.

| EPN | Unit Impacts ($\mu\text{g}/\text{m}^3$ per lb/hr) | EPN | Unit Impacts ($\mu\text{g}/\text{m}^3$ per lb/hr) |
|-------------------|---|------------|---|
| TK-103 | 292.96 | FUG | 149.72 |
| WW-1 | 1866.58 | TK-101 | 157.50 |
| ADD-1 | 2974.11 | TK-102 | 148.45 |
| ADD-2 | 2522.96 | TK-201 | 126.92 |
| ADD-3 | 2260.44 | TK-202 | 135.41 |
| ADD-4 | 3002.72 | TK-203 | 122.25 |
| ADD-5 | 2769.17 | TK-204 | 134.81 |
| ADD-6 | 2141.78 | TK-205 | 119.25 |
| ADD-7 | 920.04 | TK-206 | 134.34 |
| ADD-8 | 398.27 | TK-207 | 117.31 |
| ADD-9 | 530.30 | TK-208 | 139.50 |
| ADD-10 | 393.93 | TK-601 | 137.14 |
| ADD-11 | 1362.27 | TK-602 | 55.83 |
| ADD-12 | 2521.82 | TK-603 | 48.99 |
| ADD-13 | 2727.68 | TK-604 | 103.84 |
| SUMP-1 | 769.38 | TK-605 | 93.59 |
| SUMP-2 | 530.83 | TK-606 | 87.96 |
| SUMP-3 | 1327.56 | TK-801 | 49.29 |
| OVS | 2801.05 | TK-802 | 42.00 |
| TRUCKFUG | 1148.12 | TK-803 | 94.23 |
| TLVRU | 705.14 | TK-804 | 56.92 |
| MLVRU-1 / MLVRU-2 | 119.75 | TK-805 | 54.78 |
| MLVRU-3 / MLVRU-4 | 174.17 | TK-807 | 61.66 |
| MLVRU-5 / MLVRU-6 | 112.17 | TK-808 | 43.31 |
| MLVRU-7 / MLVRU-8 | 159.19 | TKVCU-1 | 3.61 |
| MLOAD | 93.57 | TKVCU-2 | 2.22 |
| PORTCTRL | 0.79 | TKVCU-3 | 2.26 |
| PORTVCU | 80.94 | TK-1601 | 79.64 |
| VACLOAD | 1646.15 | TK-1602 | 85.32 |
| TKVENT | 3906.69 | TK-1603 | 84.56 |
| FUG-MSS | 4178.81 | TK-1604 | 54.16 |

| EPN | Unit Impacts ($\mu\text{g}/\text{m}^3$ per lb/hr) | EPN | Unit Impacts ($\mu\text{g}/\text{m}^3$ per lb/hr) |
|------------|---|------------|---|
| TK-1605 | 54.94 | TK-1635 | 51.92 |
| TK-1606 | 54.76 | TK-1636 | 78.82 |
| TK-1607 | 55.36 | TK-1637 | 53.30 |
| TK-1608 | 83.31 | TK-1638 | 77.91 |
| TK-1609 | 84.21 | TK-1639 | 51.65 |
| TK-1610 | 54.78 | TK-1640 | 80.39 |
| TK-1611 | 53.87 | TK-1641 | 44.81 |
| TK-1612 | 85.34 | TK-1642 | 80.48 |
| TK-1613 | 43.35 | TK-1643 | 45.08 |
| TK-1614 | 46.93 | TK-1644 | 80.04 |
| TK-1615 | 85.71 | TK-1645 | 45.10 |
| TK-1616 | 83.92 | TK-1646 | 55.17 |
| TK-1617 | 49.22 | TK-1647 | 84.29 |
| TK-1618 | 43.65 | TK-1648 | 55.33 |
| TK-1619 | 43.62 | TK-1649 | 82.17 |
| TK-1620 | 49.35 | TK-1650 | 53.41 |
| TK-1621 | 47.35 | TK-1651 | 86.09 |
| TK-1622 | 43.08 | TK-1652 | 98.04 |
| TK-1623 | 43.60 | TK-1653 | 103.74 |
| TK-1624 | 48.98 | TK-1654 | 86.61 |
| TK-1625 | 43.55 | TK-1655 | 90.35 |
| TK-1626 | 49.25 | TK-1656 | 83.43 |
| TK-1627 | 43.19 | TK-1657 | 54.78 |
| TK-809 | 43.77 | TK-1629 | 87.77 |
| TK-810 | 43.24 | TK-1630 | 87.61 |
| TK-811 | 43.48 | TK-1628 | 49.57 |
| TK-1633 | 87.30 | TK-1631 | 84.94 |
| TK-1634 | 79.75 | TK-1632 | 87.82 |

- (3) Sum the impacts from each emission point/emission point group to determine a total short-term off-property impact (Total GLC_{MAX}) for the new or existing air contaminant.
- (4) Compare the total off-property impact to the short-term ESL for the air contaminant as shown below to determine if it less than or equal to the ESL.

$$\text{Total } GLC_{MAX} < ESL_{SHORT}$$

Where:

- Total GLC_{MAX} = the sum of the short-term GLCs from each emission point.
- ESL_{SHORT} = the short-term ESL of the new or existing air contaminant from the most current ESL list published by the TCEQ or as specifically derived by TCEQ Toxicology Division. The ESL shall be obtained in writing prior to the use of the new or increased air contaminant.

- G. For all other new or increases in existing air contaminants, the following procedure shall be completed to determine if the annual impacts are acceptable.

- (1) Multiply the total off-property impact (Total GLC_{MAX}) determined above in Special Condition F by 0.08 to determine an annual off-property impact (Annual GLC_{MAX}) for the new or existing air contaminant.
- (2) Compare the annual off-property impact to the annual ESL for the air contaminant as shown below to determine if it less than or equal to the ESL.

$$\text{Annual } GLC_{MAX} < ESL_{ANNUAL}$$

Where:

- ESL_{ANNUAL} = the annual ESL of the new or existing air contaminant from the most current ESL list published by the TCEQ or as specifically derived by TCEQ Toxicology Division.

- H. The short-term or annual emission rates from new or existing air contaminants shall not cause any increases in the short-term or annual emission rates as listed on the maximum allowable emission rates table (MAERT).
- I. The permit holder shall maintain records of the information below and the demonstrations in steps A through G above. The following documentation is required for each compound:
- (1) Chemical name(s), composition, and chemical abstract registry number if available.
 - (2) True vapor pressure at maximum hourly and annual average storage temperature.
 - (3) Molecular weight.
 - (4) Storage tanks, loading areas, and fugitive areas where the material is to be handled and the emission control device to be utilized.
 - (5) Date new compound handling commenced.
 - (6) Safety Data Sheet.
 - (7) Maximum concentration of the chemical in mole percent (or in weight percent for fugitive areas) in the affected facilities.

Reference Authorization (05/19)

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

| Authorization | Source or Activity |
|--|--|
| PBR Registration No. 150206 (30TAC 106.472) | Diesel storage tanks (EPNs DSLTK-1000, DSLTK-1101, DSLTK-1G) |

Date: March 22, 2022

Permit 142261 and N254

Attachment A

Approved Products List

| Product Name | Group 1 | Group 2 |
|-------------------------------|----------------|----------------|
| Distillate fuels ¹ | | X |
| Distillate blendstock | | X |
| Crude | X | |
| Condensate | X | |
| Gasoline | X | |
| Natural gasoline | X | |
| Gasoline blendstock | X | |
| Naphtha | X | |
| Alkylate | X | |
| Reformate | X | |
| Raffinate | X | |
| Ethanol | X | |
| Methanol | X | |
| Toluene | X | |
| Xylene | X | |
| Cumene | X | |
| Transmix ² | X | |

Notes

1. Distillate fuels include diesel fuels, jet fuels, kerosenes, and fuel oils. See Attachment B, Product Synonym List.
2. Transmix is a mixture of approved products.
3. LPG and Additives may be blended into products.

Date: July 14, 2017

Permit 142261 and N254

Attachment B

Synonym List

| Diesel Fuels | Kerosenes |
|---|---|
| Diesel – high, low and ultralow sulfur Distillate Heavy Marine Diesel Marine Diesel/Diesel Fuel Marine Marine Gas Oil Middle Distillate Biodiesel | K-1 K-2 Kerosene No. 1 Fuel Oil |
| Jet Fuels | Fuel Oils |
| Aviation Kerosene DERD Jet A-1 Jet Fuel A Jet-A Jet Kerosene JP-1 JP-5 JP-8 | Fuel Oil No. 2 Fuel Oil No. 4 Light fuel Oil (LFO) Light Cat Cracked Distillate Light Cat Cracked Gas Oil Light Cycle Oil Light Fuel Oil Light Pyrolysis Oil Light Pyrolysis Oil (LPO) No. 4 Oil |

Date: May 31, 2019

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 142261 and N254

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) |
| TK-1601 | IFR Storage Tank 1601 (Phase 1) | VOC | 16.01 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1602 | IFR Storage Tank 1602 (Phase 1) | VOC | 16.01 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1603 | IFR Storage Tank 1603 (Phase 1) | VOC | 16.01 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1604 | IFR Storage Tank 1604 (Phase 1) | VOC | 16.01 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1605 | IFR Storage Tank 1605 (Phase 1) | VOC | 16.01 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-803 | IFR Storage Tank 803 (Phase 1) | VOC | 12.52 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-808 | IFR Storage Tank 808 (Phase 1) | VOC | 12.52 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-809 | IFR Storage Tank 809 (Phase 1) | VOC | 12.52 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-601 | IFR Storage Tank 601 (Phase 1) | VOC | 26.34 | (6) |
| | | H ₂ S | 0.06 | (6) |
| TK-201 | IFR Storage Tank 201 (Phase 1) | VOC | 3.48 | (6) |
| | | H ₂ S | 0.01 | (6) |
| TK-202 | IFR Storage Tank 202 (Phase 1) | VOC | 3.48 | (6) |
| | | H ₂ S | 0.01 | (6) |
| TK-1606 | IFR Storage Tank 1606 (Phase 1) | VOC | 16.01 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1607 | IFR Storage Tank 1607 (Phase 1) | VOC | 16.01 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1608 | IFR Storage Tank 1608 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1609 | IFR Storage Tank 1609 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |

Emission Sources – Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|---|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| TK-1610 | IFR Storage Tank 1610 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1611 | IFR Storage Tank 1611 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1612 | IFR Storage Tank 1612 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1613 | IFR Storage Tank 1613 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1614 | IFR Storage Tank 1614 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1615 | IFR Storage Tank 1615 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1616 | IFR Storage Tank 1616 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1617 | IFR Storage Tank 1617 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1618 | IFR Storage Tank 1618 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1619 | IFR Storage Tank 1619 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1620 | IFR Storage Tank 1620 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1621 | IFR Storage Tank 1621 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1622 | IFR Storage Tank 1622 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1623 | IFR Storage Tank 1623 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1624 | IFR Storage Tank 1624 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-203 | IFR Storage Tank 203 (Phase 2) | VOC | 3.48 | (6) |
| | | H ₂ S | 0.01 | (6) |

Emission Sources – Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|---|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| TK-204 | IFR Storage Tank 204 (Phase 2) | VOC | 3.48 | (6) |
| | | H ₂ S | 0.01 | (6) |
| TK-802 | IFR Storage Tank 802 (Future Phase) | VOC | 12.52 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-101 | IFR Storage Tank 101 (Phase 2) | VOC | 4.73 | (6) |
| | | H ₂ S | 0.01 | (6) |
| TK-102 | IFR Storage Tank 102 (Phase 2) | VOC | 4.73 | (6) |
| | | H ₂ S | 0.01 | (6) |
| TK-1625 | IFR Storage Tank 1625 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1626 | IFR Storage Tank 1626 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1627 | IFR Storage Tank 1627 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1628 | IFR Storage Tank 1628 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1629 | IFR Storage Tank 1629 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1630 | IFR Storage Tank 1630 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1631 | IFR Storage Tank 1631 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1632 | IFR Storage Tank 1632 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1633 | IFR Storage Tank 1633 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1634 | IFR Storage Tank 1634 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1635 | IFR Storage Tank 1635 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1636 | IFR Storage Tank 1636 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |

Emission Sources – Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|------------------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| TK-1637 | IFR Storage Tank 1637 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1638 | IFR Storage Tank 1638 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1639 | IFR Storage Tank 1639 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1640 | IFR Storage Tank 1640 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1641 | IFR Storage Tank 1641 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1642 | IFR Storage Tank 1642 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1643 | IFR Storage Tank 1643 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1644 | IFR Storage Tank 1644 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1645 | IFR Storage Tank 1645 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1646 | IFR Storage Tank 1646 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1647 | IFR Storage Tank 1647 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1648 | IFR Storage Tank 1648 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1649 | IFR Storage Tank 1649 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1650 | IFR Storage Tank 1650 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1651 | IFR Storage Tank 1651 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1652 | IFR Storage Tank 1652 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |

Emission Sources – Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|---|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| TK-1653 | IFR Storage Tank 1653 (Phase 2) | VOC | 16.00 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1654 | IFR Storage Tank 1654 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1655 | IFR Storage Tank 1655 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1656 | IFR Storage Tank 1656 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-1657 | IFR Storage Tank 1657 (Future Phase) | VOC | 16.02 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-801 | IFR Storage Tank 801 (Future Phase) | VOC | 12.52 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-804 | IFR Storage Tank 804 (Future Phase) | VOC | 12.51 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-805 | IFR Storage Tank 805 (Future Phase) | VOC | 12.52 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-807 | IFR Storage Tank 807 (Future Phase) | VOC | 12.52 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-810 | IFR Storage Tank 810 (Future Phase) | VOC | 12.52 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-811 | IFR Storage Tank 811 (Future Phase) | VOC | 12.52 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-602 | IFR Storage Tank 602 (Future Phase) | VOC | 14.42 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-603 | IFR Storage Tank 603 (Future Phase) | VOC | 14.42 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-604 | IFR Storage Tank 604 (Future Phase) | VOC | 14.42 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-605 | IFR Storage Tank 605 (Future Phase) | VOC | 14.42 | (6) |
| | | H ₂ S | 0.03 | (6) |
| TK-606 | IFR Storage Tank 606 (Future Phase) | VOC | 14.42 | (6) |
| | | H ₂ S | 0.03 | (6) |

Emission Sources – Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|---|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| TK-205 | IFR Storage Tank 205 (Future Phase) | VOC | 3.48 | (6) |
| | | H ₂ S | 0.01 | (6) |
| TK-206 | IFR Storage Tank 206 (Future Phase) | VOC | 3.48 | (6) |
| | | H ₂ S | 0.01 | (6) |
| TK-207 | IFR Storage Tank 207 (Future Phase) | VOC | 3.48 | (6) |
| | | H ₂ S | 0.01 | (6) |
| TK-208 | IFR Storage Tank 208 (Future Phase) | VOC | 3.48 | (6) |
| | | H ₂ S | 0.01 | (6) |
| IFRCAP (6) | IFR Storage Tank Annual Cap (Phase 1) | VOC | - | 17.40 |
| | | H ₂ S | - | 0.03 |
| | IFR Storage Tank Annual Cap (Phases 1 & 2) | VOC | - | 49.18 |
| | | H ₂ S | - | 0.08 |
| | IFR Storage Tank Annual Cap (All Phases) | VOC | - | 102.02 |
| | | H ₂ S | - | 0.17 |
| ADD-1 | Additive Storage Tank (Phase 1) | VOC | 0.27 | (7) |
| ADD-2 | Additive Storage Tank (Phase 2) | VOC | 0.98 | (7) |
| ADD-3 | Additive Storage Tank (Phase 2) | VOC | 9.68 | (7) |
| ADD-4 | Additive Storage Tank (Phase 2) | VOC | 0.07 | (7) |
| ADD-5 | Additive Storage Tank (Phase 2) | VOC | 3.71 | (7) |
| ADD-6 | Additive Storage Tank (Future Phase) | VOC | 1.02 | (7) |
| ADD-7 | Additive Storage Tank (Future Phase) | VOC | 22.13 | (7) |
| ADD-8 | Additive Storage Tank (Future Phase) | VOC | 0.06 | (7) |
| ADD-9 | Additive Storage Tank (Future Phase) | VOC | 0.02 | (7) |
| ADD-10 | Additive Storage Tank (Future Phase) | VOC | 1.36 | (7) |
| ADD-11 | Additive Storage Tank (Future Phase) | VOC | 0.14 | (7) |
| ADD-12 | Additive Storage Tank (Future Phase) | VOC | 1.13 | (7) |

Emission Sources – Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|--|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| ADD-13 | Additive Storage Tank (Future Phase) | VOC | 1.13 | (7) |
| WW-1 | Wastewater Tank (Phase 2) | VOC | 2.36 | (7) |
| ADDCAP (7) | Additive & WW Storage Tank Annual Cap (Phase 1) | VOC | - | <0.01 |
| | Additive & WW Storage Tank Annual Cap (Phases 1 & 2) | VOC | - | 0.10 |
| | Additive & WW Storage Tank Annual Cap (All Phases) | VOC | - | 0.22 |
| TK-103 | Biodiesel Tank (Phase 2) | VOC | 4.19 | 0.70 |
| MLVRU-1 MLVRU-2 | Marine Loading VRUs 1 & 2 (Ship Dock 1) (Phase 1) | VOC | 10.51 | (8) |
| | | H ₂ S | 0.02 | (8) |
| MLVRU-3 MLVRU-4 | Marine Loading VRUs 3 & 4 (Ship Dock 2 & Barge Dock 1) (Phase 2) | VOC | 10.51 | (8) |
| | | H ₂ S | 0.02 | (8) |
| MLVRU-5 MLVRU-6 | Marine Loading VRUs 5 & 6 (Ship Dock 3) (Future Phase) | VOC | 10.51 | (8) |
| | | H ₂ S | 0.02 | (8) |
| MLVRU-7 MLVRU-8 | Marine Loading VRUs 7 & 8 (Ship Dock 4) (Future Phase) | VOC | 10.51 | (8) |
| | | H ₂ S | 0.02 | (8) |
| MLOAD | Marine Loading Fugitives (Phase 1) | VOC | 18.32 | (8) |
| | | H ₂ S | <0.01 | (8) |
| | Marine Loading Fugitives (Phases 1 & 2) | VOC | 36.64 | (8) |
| | | H ₂ S | 0.01 | (8) |
| | Marine Loading Fugitives (All Phases) | VOC | 73.28 | (8) |
| | | H ₂ S | 0.03 | (8) |
| MLOADCAP (8) | Marine Loading VRU & Fugitives Annual Cap (Phase 1) | VOC | - | 12.59 |
| | | H ₂ S | - | 0.03 |
| | Marine Loading VRU & Fugitives Annual Cap (Phase 1 & 2) | VOC | - | 25.17 |
| | | H ₂ S | - | 0.05 |
| | Marine Loading VRU & Fugitives Annual Cap (All Phases) | VOC | - | 60.83 |
| | | H ₂ S | - | 0.13 |

Emission Sources – Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|--------------------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| TLVRU | Tank Truck Loading VRU (Phase 2) | VOC | 0.60 | 1.92 |
| | Tank Truck Loading VRU (All Phases) | VOC | 1.00 | 3.20 |
| TRUCKFUG | Tank Truck Fugitives (Phase 1) | VOC | 2.19 | 0.80 |
| | Tank Truck Fugitives (Phases 1 & 2) | VOC | 2.93 | 1.18 |
| | Tank Truck Fugitives (All Phases) | VOC | 3.75 | 9.33 |
| FUG | Process Fugitives (5) (Phase 1) | VOC | 0.57 | 2.49 |
| | | H ₂ S | <0.01 | <0.01 |
| | Process Fugitives (5) (Phases 1 & 2) | VOC | 2.00 | 8.78 |
| | | H ₂ S | <0.01 | 0.02 |
| | Process Fugitives (5) (All Phases) | VOC | 2.81 | 12.29 |
| | | H ₂ S | 0.01 | 0.03 |
| ENG-1 | Fire Water Pump Engine 1 | VOC | 3.78 | 0.19 |
| | | NO _x | 3.78 | 0.19 |
| | | CO | 3.32 | 0.17 |
| | | PM | 0.20 | 0.01 |
| | | PM ₁₀ | 0.20 | 0.01 |
| | | PM _{2.5} | 0.20 | 0.01 |
| | | SO ₂ | 0.01 | <0.01 |
| ENG-2 | Fire Water Pump Engine 2 (Phase 1) | VOC | 3.78 | 0.19 |
| | | NO _x | 3.78 | 0.19 |
| | | CO | 3.32 | 0.17 |
| | | PM | 0.20 | 0.01 |
| | | PM ₁₀ | 0.20 | 0.01 |
| | | PM _{2.5} | 0.20 | 0.01 |
| | | SO ₂ | 0.01 | <0.01 |

Emission Sources – Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|----------------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| ENG-3 | Generator Engine 3 (Phase 2) | VOC | 1.59 | 0.08 |
| | | NO _x | 2.65 | 0.13 |
| | | CO | 1.59 | 0.08 |
| | | PM | 0.23 | 0.01 |
| | | PM ₁₀ | 0.23 | 0.01 |
| | | PM _{2.5} | 0.23 | 0.01 |
| | | SO ₂ | <0.01 | <0.01 |
| SUMP-1 | Sump 1 (Phase 1) | VOC | 2.45 | 0.30 |
| SUMP-2 | Sump 2 (Phase 1) | VOC | 27.39 | 0.36 |
| SUMP-3 | Sump 3 (Future Phase) | VOC | 27.39 | 0.36 |
| OWS | Oil-Water Separator (Phase 2) | VOC | 0.76 | 0.01 |
| TKVCU-1 | Tank VCU (10) (Phase 1) | VOC | 39.77 | (13) |
| | | NO _x | 25.89 | (9) |
| | | CO | 111.02 | (9) |
| | | PM | 0.16 | (9) |
| | | PM ₁₀ | 0.16 | (9) |
| | | PM _{2.5} | 0.16 | (9) |
| | | SO ₂ | 0.15 | (9) |
| | | H ₂ S | 0.07 | (9) |
| TKVCU-2 | Tank VCU (10) (Phase 2) | VOC | 39.77 | (13) |
| | | NO _x | 25.89 | (9) |
| | | CO | 111.02 | (9) |
| | | PM | 0.16 | (9) |
| | | PM ₁₀ | 0.16 | (9) |
| | | PM _{2.5} | 0.16 | (9) |
| | | SO ₂ | 0.15 | (9) |
| | | H ₂ S | 0.07 | (9) |

Emission Sources – Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|--|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| TKVCU-3 | Tank VCU (10) (Future Phase) | VOC | 39.77 | (13) |
| | | NO _x | 25.89 | (9) |
| | | CO | 111.02 | (9) |
| | | PM | 0.16 | (9) |
| | | PM ₁₀ | 0.16 | (9) |
| | | PM _{2.5} | 0.16 | (9) |
| | | SO ₂ | 0.15 | (9) |
| | | H ₂ S | 0.07 | (9) |
| TKVCUCAP (10) | Tank VCU Annual Cap (10) (Phase 1) | NO _x | - | 2.74 |
| | | CO | - | 7.55 |
| | | PM | - | 0.10 |
| | | PM ₁₀ | - | 0.10 |
| | | PM _{2.5} | - | 0.10 |
| | | SO ₂ | - | 0.02 |
| | | H ₂ S | - | <0.01 |
| | Tank VCU Annual Cap (10) (Phases 1 & 2) | NO _x | - | 9.19 |
| | | CO | - | 25.29 |
| | | PM | - | 0.34 |
| | | PM ₁₀ | - | 0.34 |
| | | PM _{2.5} | - | 0.34 |
| | | SO ₂ | - | 0.05 |
| | | H ₂ S | - | 0.01 |
| | Tank VCU Annual Cap (10) (All Phases) | NO _x | - | 21.51 |
| | | CO | - | 53.73 |
| | | PM | - | 0.91 |
| | | PM ₁₀ | - | 0.91 |
| | | PM _{2.5} | - | 0.91 |
| | | SO ₂ | - | 0.12 |
| | | H ₂ S | - | 0.03 |

Emission Sources – Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|--|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| PORTVCU | Portable VCU (11) (Phase 1) | VOC | 2.35 | (13) |
| | | NO _x | 1.33 | 0.14 |
| | | CO | 2.61 | 0.24 |
| | | PM | <0.01 | <0.01 |
| | | PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| | | SO ₂ | 0.01 | <0.01 |
| | H ₂ S | <0.01 | <0.01 | |
| | Portable VCU (11) (Phase 1 & 2 /All Phases) | VOC | 2.35 | (13) |
| | | NO _x | 1.33 | 0.29 |
| | | CO | 2.61 | 0.49 |
| | | PM | <0.01 | <0.01 |
| | | PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| SO ₂ | | 0.01 | <0.01 | |
| H ₂ S | <0.01 | <0.01 | | |
| TKVENT | Tank MSS Fugitives (12) (Phase 1) | VOC | 121.30 | (14) |
| | | H ₂ S | <0.01 | <0.01 |
| | Tank MSS Fugitives (12) (Phases 1 & 2) | VOC | 316.30 | (14) |
| | | H ₂ S | <0.01 | <0.01 |
| | Tank MSS Fugitives (12) (All Phases) | VOC | 316.30 | (14) |
| | | H ₂ S | <0.01 | <0.01 |
| TKMSSCAP (13) | Tank MSS – VOC CAP (TKVENT, TKVCU1, TKVCU2, TKVCU3, PORTVCU) (Phase 1) | VOC | - | 3.30 |
| | Tank MSS – VOC CAP (TKVENT, TKVCU1, TKVCU2, TKVCU3, PORTVCU) (Phases 1 & 2) | VOC | - | 11.49 |
| | Tank MSS – VOC CAP (TKVENT, TKVCU1, TKVCU2, TKVCU3, PORTVCU) (All Phases) | VOC | - | 22.35 |

Emission Sources – Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|--|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| PORTCTRL | Portable Flare (14) (Phase 1) | VOC | 541.76 | 0.27 |
| | | NO _x | 73.49 | 0.04 |
| | | CO | 146.72 | 0.07 |
| | Portable Flare (14) (Phases 1 & 2) | VOC | 541.76 | 0.54 |
| | | NO _x | 73.49 | 0.07 |
| | | CO | 146.72 | 0.15 |
| | Portable Flare (14) (All Phases) | VOC | 541.76 | 1.08 |
| | | NO _x | 73.49 | 0.15 |
| | | CO | 146.72 | 0.29 |
| VACLOAD | Vacuum Truck Loading (15) (Phase 1) | VOC | 0.93 | 0.05 |
| | | H ₂ S | <0.01 | <0.01 |
| | Vacuum Truck Loading (15) (Phases 1 & 2) | VOC | 1.87 | 0.10 |
| | | H ₂ S | <0.01 | <0.01 |
| | Vacuum Truck Loading (15) (All Phases) | VOC | 2.31 | 0.15 |
| | | H ₂ S | <0.01 | <0.01 |
| FUG-MSS | Pressure Tank Post Control | VOC | 8.06 | 0.06 |
| FUG-MSS | Process Equipment MSS (16) (Phase 1) | VOC | 40.44 | 0.63 |
| | | H ₂ S | 0.01 | <0.01 |
| | Process Equipment MSS (16) (Phases 1 & 2) | VOC | 47.81 | 1.27 |
| | | H ₂ S | 0.01 | <0.01 |
| | Process Equipment MSS (16) (All Phases) | VOC | 47.81 | 2.07 |
| | | H ₂ S | 0.01 | <0.01 |

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

Emission Sources – Maximum Allowable Emission Rates

- (8) Total annual emissions for marine loading VRUs and fugitives are limited to the rates represented under EPN MLOADCAP.
- (9) Total annual emissions for tank VCUs are limited to the rates represented under EPN TKVCUCAP.
- (10) Includes controlled tank roof landing emissions (standing idle, degassing, and refilling) from routine and maintenance tank roof landings.
- (11) Includes controlled tank roof landing emissions (standing idle, degassing, cleaning, and refilling) from maintenance tank roof landings and vacuum trucks and vac boxes.
- (12) Includes uncontrolled tank roof landing emissions (standing idle, degassing, post-control venting, and refilling) from routine and maintenance tank roof landings. Also includes post-control venting emissions from pressure tanks.
- (13) Total annual VOC emissions for tank VCUs are limited to the rates represented under EPN TKMSSCAP.
- (14) Includes controlled degassing emissions from pressure tanks.
- (15) Includes emissions from loading of vacuum trucks and vacuum boxes.
- (16) Includes emissions from draining and venting process equipment during MSS activities.

Date: September 6, 2019