FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
HFOTCO LLC

AUTHORIZING THE OPERATION OF
Houston Terminal
Other Warehousing and Storage

LOCATED AT
Harris County, Texas
Latitude 29° 45′ 0″ Longitude 95° 6′ 10″
Regulated Entity Number: RN100223445

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: O1093 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 Y and ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113,

Subchapter C, §113.300 and §113.1090, 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. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:

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

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

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

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

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

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

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

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

A. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities specified in 30 TAC Chapter 115, Subchapter C, the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 115.221 (relating to Emission Specifications)

(ii) Title 30 TAC § 115.222 (relating to Control Requirements)

(iii) Title 30 TAC § 115.223 (relating to Alternate Control Requirements)

(iv) Title 30 TAC § 115.224 (relating to Inspection Requirements)

(v) Title 30 TAC § 115.225 (relating to Testing Requirements)

(vi) Title 30 TAC § 115.226 (relating to Recordkeeping Requirements)

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 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)

7. 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.

8. 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)

9. 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

10. 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.

11. 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

12. 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 August 24, 2023 in the application for project 34599), 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

13. 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.

14. 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

15. 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.

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

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

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

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

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

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

17. 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)

18. 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

19. 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)

20. 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

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
GRPBOIL	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	HFOBOILER101, HFOBOILER102, HFOBOILER103, HFOBOILER104	R7ICI	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPBOIL2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	HFOBOILER105, HFOBOILER106, HFOBOILER107, HFOBOILER108, HFOBOILER201, HFOBOILER202, HFOBOILER203, HFOBOILER204, HFOBOILER205, HFOBOILER206, HFOBOILER207, HFOBOILER208	R7ICI	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPBOIL2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	HFOBOILER105, HFOBOILER106, HFOBOILER107, HFOBOILER108, HFOBOILER201, HFOBOILER202, HFOBOILER203, HFOBOILER204, HFOBOILER205, HFOBOILER206, HFOBOILER207, HFOBOILER208	60Dc	40 CFR Part 60, Subpart Dc	No changing attributes.
GRPENG	SRIC ENGINES	HFOENG4	R7ICI	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPENG	SRIC ENGINES	HFOENG4	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPENG1	SRIC ENGINES	HFOENG1, HFOENG5	R7ICI	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPENG1	SRIC ENGINES	HFOENG1, HFOENG5	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRPENGW	SRIC ENGINES	HFOENGW6, HFOENGW7	R7ICI	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPENGW	SRIC ENGINES	HFOENGW6, HFOENGW7	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRPLNDLD	LOADING/UNLOADING OPERATIONS	HFORCARLD1, HFORCARLD2, HFORCARLD3, HFOTTRCLD1, HFOTTRCLD2, HFOTTRCLD3	R5211	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
GRPMARLD	LOADING/UNLOADING OPERATIONS	HFOBRGDK2, HFOBRGDK3, HFOBRGDK4, HFOBRGDK5, HFOBRGDK6, HFOBRGDK7, HFOBRGDK8, HFOSHIPLD1, HFOSHIPLD2, HFOSHIPLD3, HFOSHIPLD4	R5211-01	30 TAC Chapter 115, Loading and Unloading of VOC	Transfer Type = Only loading.
GRPMARLD	LOADING/UNLOADING OPERATIONS	HFOBRGDK2, HFOBRGDK3, HFOBRGDK4, HFOBRGDK5, HFOBRGDK6, HFOBRGDK7, HFOBRGDK8,	R5211-03	30 TAC Chapter 115, Loading and Unloading of VOC	Transfer Type = Only unloading.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		HFOSHIPLD1, HFOSHIPLD2, HFOSHIPLD3, HFOSHIPLD4			
GRPSHIPVCU	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	HFOVCU1, HFOVCU2, HFOVCU3, HFOVCU4, HFOVCU5, HFOVCU6, HFOVCU7, HFOVCU8, VCU-BRG8	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRPSHIPVCU	INCINERATOR	HFOVCU1, HFOVCU2, HFOVCU3, HFOVCU4, HFOVCU5, HFOVCU6, HFOVCU7, HFOVCU8, VCU-BRG8	R7300-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPTK2F	STORAGE TANKS/VESSELS	HFOTK00301, HFOTK01101, HFOTK08001, HFOTK08002, HFOTK08003, HFOTK08004, HFOTK08005, HFOTK08006, HFOTK08007, HFOTK08008, HFOTK08009,	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		HFOTK08010, HFOTK08011, HFOTK08012, HFOTK08013, HFOTK08014, HFOTK08015, HFOTK08016, HFOTK08017, HFOTK08018, HFOTK08019, HFOTK20001, HFOTK20002, HFOTK20003, HFOTK20004, HFOTK25005, HFOTK25006, HFOTK25007, HFOTK25008			
GRPTK2FA	STORAGE TANKS/VESSELS	HFOTK25001, HFOTK25002, HFOTK25003, HFOTK25004, HFOTK25009, HFOTK40001, HFOTK40002, HFOTK40003, HFOTK40004, HFOTK40005, HFOTK40006, HFOTK40007, HFOTK40009, HFOTK40010, HFOTK40011, HFOTK40012, HFOTK40013,	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		HFOTKA241, HFOTKA261, HFOTKA262, HFOTKA263, HFOTKA264			
GRPTK2FA	STORAGE TANKS/VESSELS	HFOTK25001, HFOTK25002, HFOTK25003, HFOTK25004, HFOTK25009, HFOTK40001, HFOTK40002, HFOTK40003, HFOTK40004, HFOTK40005, HFOTK40006, HFOTK40007, HFOTK40009, HFOTK40010, HFOTK40011, HFOTK40012, HFOTK40013, HFOTKA241, HFOTKA261, HFOTKA262, HFOTKA263, HFOTKA264	60Kb	40 CFR Part 60, Subpart Kb	No changing attributes.
GRPTK3F	STORAGE TANKS/VESSELS	HFOTK26601, HFOTK26602, HFOTK32502	R5112-01	30 TAC Chapter 115, Storage of VOCs	Storage Capacity = Capacity is greater than 40,000 gallons, True Vapor Pressure = True vapor pressure is less than 1.0 psia, Tank Description = Tank does not require emission controls, Product Stored = VOC other than crude oil or

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					condensate
GRPTK3F	STORAGE TANKS/VESSELS	HFOTK26601, HFOTK26602, HFOTK32502	R5112-02	30 TAC Chapter 115, Storage of VOCs	Storage Capacity = Capacity is greater than 40,000 gallons, True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia, Tank Description = Tank using an internal floating roof (IFR), Product Stored = VOC other than crude oil or condensate
GRPTK3F	STORAGE TANKS/VESSELS	HFOTK26601, HFOTK26602, HFOTK32502	R5112-03	30 TAC Chapter 115, Storage of VOCs	Storage Capacity = Capacity is greater than 40,000 gallons, True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia, Tank Description = Tank using an internal floating roof (IFR), Product Stored = Crude oil and/or condensate
GRPTK3F	STORAGE TANKS/VESSELS	HFOTK26601, HFOTK26602, HFOTK32502	60Kb-03	40 CFR Part 60, Subpart Kb	Product Stored = Petroleum liquid (other than petroleum or condensate)
GRPTK3F	STORAGE TANKS/VESSELS	HFOTK26601, HFOTK26602, HFOTK32502	60Kb-04	40 CFR Part 60, Subpart Kb	Product Stored = Volatile organic liquid
GRPTK3F	STORAGE TANKS/VESSELS	HFOTK26601, HFOTK26602, HFOTK32502	60Kb-05	40 CFR Part 60, Subpart Kb	Product Stored = Crude oil stored, processed, and/or treated after custody transfer, Reid Vapor Pressure = Reid vapor pressure is greater than or equal to 2.0 psia
GRPTK3FW	STORAGE TANKS/VESSELS	HFOTK01001, HFOTK01301, HFOTK01302, HFOTK03011,	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		HFOTK03012, HFOTK03013, HFOTK03014, HFOTK03015, HFOTK03016, HFOTK03017, HFOTK03018, HFOTK03019, HFOTK03801, HFOTK09001, HFOTK09002, HFOTK09501, HFOTK09502, HFOTK10003, HFOTK10004, HFOTK10005, HFOTK10006, HFOTK10007, HFOTK10008, HFOTK10009, HFOTK10010, HFOTK10011, HFOTK10012, HFOTK10013, HFOTK10014, HFOTK10015, HFOTK10016, HFOTK10017, HFOTK10018, HFOTK10019, HFOTK10020, HFOTK10021, HFOTK10022, HFOTK10023, HFOTK10024,			

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		HFOTK10025, HFOTK22001			
GRPTK4F	STORAGE TANKS/VESSELS	HFOTK02001, HFOTK02002, HFOTK02003, HFOTK02004, HFOTK03001, HFOTK03002, HFOTK03003, HFOTK03004, HFOTK03005, HFOTK03006, HFOTK03701, HFOTK03702, HFOTK08020, HFOTK08021, HFOTK08022, HFOTK08023, HFOTK08024, HFOTK08025, HFOTK08026, HFOTK08027, HFOTK08028, HFOTK08029, HFOTK08030, HFOTK08031, HFOTK08032, HFOTK08033, HFOTK08034, HFOTK08035, HFOTK08036, HFOTK08037, HFOTK08038, HFOTK10001, HFOTK10002,	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		HFOTK17501, HFOTK17502, HFOTK17503, HFOTK17504, HFOTK20005, HFOTK20006, HFOTK20007, HFOTK20008, HFOTK20009, HFOTK32501			
GRPTKWW	STORAGE TANKS/VESSELS	HFOTKW301, HFOTKW302, HFOTKW303, HFOW-WWT6-1, HFOW-WWT9-3	R5112-1	30 TAC Chapter 115, Storage of VOCs	Storage Capacity = Capacity is greater than 40,000 gallons, Product Stored = VOC other than crude oil or condensate
GRPTKWW	STORAGE TANKS/VESSELS	HFOTKW301, HFOTKW302, HFOTKW303, HFOW-WWT6-1, HFOW-WWT9-3	R5112-2	30 TAC Chapter 115, Storage of VOCs	Storage Capacity = Capacity is greater than 40,000 gallons, Product Stored = Crude oil and/or condensate
HFOBOILER209	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R7ICI	30 TAC Chapter 117, Subchapter B	No changing attributes.
HFOBOILER209	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Dc	40 CFR Part 60, Subpart Dc	No changing attributes.
HFOBOILER210	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R7ICI	30 TAC Chapter 117, Subchapter B	No changing attributes.
HFOBOILER210	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Dc	40 CFR Part 60, Subpart Dc	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
HFOBRGDK8C	LOADING/UNLOADING OPERATIONS	N/A	R5211-02	30 TAC Chapter 115, Loading and Unloading of VOC	Marine Terminal Exemptions = The marine terminal is not claiming one or more of the loading exemptions in 30 TAC § 115.217(a)(5)(B)., Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals., Chapter 115 Control Device Type = Vapor control system with a vapor combustor that is not considered to be a flare, Transfer Type = Only loading., Control Options = Vapor control system that maintains a control efficiency of at least 90%., Vapor Tight = Not all liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
HFOBRGDK8C	LOADING/UNLOADING OPERATIONS	N/A	R5211-04	30 TAC Chapter 115, Loading and Unloading of VOC	Transfer Type = Only unloading.
HFOBRGDK8C	LOADING/UNLOADING OPERATIONS	N/A	63Y-1	40 CFR Part 63, Subpart Y	No changing attributes.
HFODRVENG1	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
HFOENG11	SRIC ENGINES	N/A	R7ICI	30 TAC Chapter 117, Subchapter B	No changing attributes.
HFOENG11	SRIC ENGINES	N/A	60IIII	40 CFR Part 60, Subpart IIII	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
HFOENG11	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
HFOENG2	SRIC ENGINES	N/A	R7ICI	30 TAC Chapter 117, Subchapter B	No changing attributes.
HFOENG2	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
HFOENGW12	SRIC ENGINES	N/A	R7CI	30 TAC Chapter 117, Subchapter B	No changing attributes.
HFOENGW12	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
HFOENGW12	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
HFOENGW13	SRIC ENGINES	N/A	R7CI	30 TAC Chapter 117, Subchapter B	No changing attributes.
HFOENGW13	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
HFOENGW13	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
HFOENGW14	SRIC ENGINES	N/A	R7NG	30 TAC Chapter 117, Subchapter B	No changing attributes.
HFOENGW14	SRIC ENGINES	N/A	60JJJJ	40 CFR Part 60, Subpart JJJJ	No changing attributes.
HFOENGW14	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
HFOENGW8	SRIC ENGINES	N/A	R7ICI	30 TAC Chapter 117, Subchapter B	No changing attributes.
HFOENGW8	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
HFOHEATER1	BOILERS/STEAM	N/A	R7300-1	30 TAC Chapter 117,	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	GENERATORS/STEAM GENERATING UNITS			Subchapter B	
HFOHEATER1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60DC-1	40 CFR Part 60, Subpart Dc	No changing attributes.
HFOHEATER2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R7300-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
HFOHEATER2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60DC-1	40 CFR Part 60, Subpart Dc	No changing attributes.
HFOSHPLD1C	LOADING/UNLOADING OPERATIONS	N/A	R5211-02	30 TAC Chapter 115, Loading and Unloading of VOC	Marine Terminal Exemptions = The marine terminal is not claiming one or more of the loading exemptions in 30 TAC § 115.217(a)(5)(B)., Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals., Chapter 115 Control Device Type = Vapor control system with a vapor combustor that is not considered to be a flare, Transfer Type = Only loading., Control Options = Vapor control system that maintains a control efficiency of at least 90%., Vapor Tight = Not all liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
HFOSHPLD1C	LOADING/UNLOADING OPERATIONS	N/A	R5211-04	30 TAC Chapter 115, Loading and Unloading of VOC	Transfer Type = Only unloading.
HFOSHPLD1C	LOADING/UNLOADING OPERATIONS	N/A	63Y-1	40 CFR Part 63, Subpart Y	No changing attributes.
HFOSHPLD2C	LOADING/UNLOADING OPERATIONS	N/A	R5211-02	30 TAC Chapter 115, Loading and Unloading of VOC	Marine Terminal Exemptions = The marine terminal is not claiming one or more of the loading exemptions in 30 TAC § 115.217(a)(5)(B)., Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals., Chapter 115 Control Device Type = Vapor control system with a vapor combustor that is not considered to be a flare, Transfer Type = Only loading., Control Options = Vapor control system that maintains a control efficiency of at least 90%., Vapor Tight = Not all liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
HFOSHPLD2C	LOADING/UNLOADING OPERATIONS	N/A	R5211-04	30 TAC Chapter 115, Loading and Unloading of VOC	Transfer Type = Only unloading.
HFOSHPLD2C	LOADING/UNLOADING OPERATIONS	N/A	63Y-1	40 CFR Part 63, Subpart Y	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
HFOSHPLD3C	LOADING/UNLOADING OPERATIONS	N/A	R5211-02	30 TAC Chapter 115, Loading and Unloading of VOC	Marine Terminal Exemptions = The marine terminal is not claiming one or more of the loading exemptions in 30 TAC § 115.217(a)(5)(B)., Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals., Chapter 115 Control Device Type = Vapor control system with a vapor combustor that is not considered to be a flare, Transfer Type = Only loading., Control Options = Vapor control system that maintains a control efficiency of at least 90%., Vapor Tight = Not all liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
HFOSHPLD3C	LOADING/UNLOADING OPERATIONS	N/A	R5211-04	30 TAC Chapter 115, Loading and Unloading of VOC	Transfer Type = Only unloading.
HFOSHPLD3C	LOADING/UNLOADING OPERATIONS	N/A	63Y-1	40 CFR Part 63, Subpart Y	No changing attributes.
HFOSHPLD4C	LOADING/UNLOADING OPERATIONS	N/A	R5211-02	30 TAC Chapter 115, Loading and Unloading of VOC	Marine Terminal Exemptions = The marine terminal is not claiming one or more of the loading exemptions in 30 TAC § 115.217(a)(5)(B)., Daily Throughput = Daily throughput not determined since 30 TAC

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					§ 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals., Chapter 115 Control Device Type = Vapor control system with a vapor combustor that is not considered to be a flare, Transfer Type = Only loading., Control Options = Vapor control system that maintains a control efficiency of at least 90%., Vapor Tight = Not all liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
HFOSHPLD4C	LOADING/UNLOADING OPERATIONS	N/A	R5211-04	30 TAC Chapter 115, Loading and Unloading of VOC	Transfer Type = Only unloading.
HFOSHPLD4C	LOADING/UNLOADING OPERATIONS	N/A	63Y-2	40 CFR Part 63, Subpart Y	No changing attributes.
HFOSHPLD5	LOADING/UNLOADING OPERATIONS	N/A	R5211-01	30 TAC Chapter 115, Loading and Unloading of VOC	Transfer Type = Only loading.
HFOSHPLD5	LOADING/UNLOADING OPERATIONS	N/A	R5211-03	30 TAC Chapter 115, Loading and Unloading of VOC	Transfer Type = Only unloading.
HFOSHPLD5C	LOADING/UNLOADING OPERATIONS	N/A	R5211-02	30 TAC Chapter 115, Loading and Unloading of VOC	Marine Terminal Exemptions = The marine terminal is not claiming one or more of the loading exemptions in 30 TAC § 115.217(a)(5)(B)., Daily Throughput = Daily throughput not

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					determined since 30 TAC § 115.217(a)(2)(B), (b)(3)(B), (a)(2)(A), and (b)(3)(A) exemptions do not apply to marine terminals or gasoline terminals., Chapter 115 Control Device Type = Vapor control system with a vapor combustor that is not considered to be a flare, Transfer Type = Only loading., Control Options = Vapor control system that maintains a control efficiency of at least 90%., Vapor Tight = Not all liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
HFOSHPLD5C	LOADING/UNLOADING OPERATIONS	N/A	R5211-04	30 TAC Chapter 115, Loading and Unloading of VOC	Transfer Type = Only unloading.
HFOSHPLD5C	LOADING/UNLOADING OPERATIONS	N/A	63Y-2	40 CFR Part 63, Subpart Y	No changing attributes.
HFOTKENG11	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
HFOW-WWT648	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	Product Stored = VOC other than crude oil or condensate
HFOW-WWT648	STORAGE TANKS/VESSELS	N/A	R5112-2	30 TAC Chapter 115, Storage of VOCs	Product Stored = Crude oil and/or condensate

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPBOIL	EU	R7ICI	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
GRPBOIL	EU	R7ICI	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(C) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
GRPBOIL2	EU	R7ICI	CO	30 TAC Chapter	§ 117.310(c)(1)	CO emissions must not	[G]§ 117.335(a)(1)	§ 117.345(a)	§ 117.335(b)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				117, Subchapter B	§ 117.310(c)(1)(B) § 117.310(c)(3)	exceed 400 ppmv at 3.0% O 2, dry basis.	§ 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary	§ 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
GRPBOIL2	EU	R7ICI	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(C) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
GRPBOIL2	EU	60Dc	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit	None	§ 60.48c(g)(1) § 60.48c(g)(2)	[G]§ 60.48c(a)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).		§ 60.48c(g)(3) § 60.48c(i)	
GRPBOIL2	EU	60Dc	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
GRPBOIL2	EU	60Dc	SO_2	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
GRPENG	EU	R7ICI	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPENG	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
GRPENG1	EU	R7ICI	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)	None	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
GRPENG1	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1)	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
GRPENGW	EU	R7ICI	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)	None	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
GRPENGW	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	Table 2d.4.a-c.			
GRPLNDLD	EU	R5211	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
GRPMARLD	EU	R5211-01	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) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2)	None
GRPMARLD	EU	R5211-03	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
GRPSHIPVCU	EP	R1111-1	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	[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)
						100,000 acfm unless a CEMS is installed.			
GRPSHIPVCU	EU	R7300-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
GRPSHIPVCU	EU	R7300-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) [G]§ 117.310(a)(16) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						comply with § 117.320.	[G]§ 117.8000(d)		
GRPTK2F	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
GRPTK2FA	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)
GRPTK2FA	EU	60Kb	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 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)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4)
GRPTK3F	EU	R5112-01	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)(6)(A) § 115.118(a)(7)	
GRPTK3F	EU	R5112-02	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)
GRPTK3F	EU	R5112-03	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						paragraph for crude oil and condensate.			
GRPTK3F	EU	60Kb-03	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 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)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4)
GRPTK3F	EU	60Kb-04	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4)
GRPTK3F	EU	60Kb-05	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 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)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4)
GRPTK3FW	EU	R5112	VOC	30 TAC Chapter 115, Storage of	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				VOCs		storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.		§ 115.118(a)(6)(A) § 115.118(a)(7)	
GRPTK4F	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
GRPTKWW	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
GRPTKWW	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
HFOBOILER 209	EU	R7ICI	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary		[G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
HFOBOILER 209	EU	R7ICI	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(C) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
HFOBOILER 209	EU	60Dc	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
HFOBOILER 209	EU	60Dc	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						heat input capacity of 2.9-29 megawatts (MW).			
HFOBOILER 209	EU	60Dc	SO_2	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
HFOBOILER 210	EU	R7ICI	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
HFOBOILER 210	EU	R7ICI	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(C) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)		[G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
HFOBOILER 210	EU	60Dc	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
HFOBOILER 210	EU	60Dc	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
HFOBOILER 210	EU	60Dc	SO_2	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
HFOBRGDK 8C	EU	R5211-02	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)	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	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.214(a)(3)(B)(ii) §	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(D) § 115.216 § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv) § 115.216(2) [G]§ 115.216(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.214(a)(3)(D) § 115.214(a)(3)(E)	system with 90% efficiency, or a vapor balance system or pressurized loading may be used.	115.214(a)(3)(B)(iii) § 115.214(a)(3)(D) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(5) § 115.215(7) § 115.215(8) § 115.215(9) § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv) ** See CAM Summary		
HFOBRGDK8C	EU	R5211-04	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
HFOBRGDK8C	EU	63Y-1	VOC	40 CFR Part 63, Subpart Y	§ 63.562(c) [G]§ 63.562(c)(2) § 63.562(c)(3) § 63.562(c)(4) [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) § 63.562(e)(5) § 63.562(e)(6) § 63.562(e)(7) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii)	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) § 63.563(b)(1) § 63.563(b)(3) § 63.563(b)(4) § 63.563(b)(4)(ii) [G]§ 63.563(c) § 63.564(a)(2) § 63.564(a)(3) § 63.564(a)(4) § 63.564(c) § 63.564(e)(2) § 63.564(e)(4) [G]§ 63.565(b)	§ 63.562(e)(5) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.564(e)(2) [G]§ 63.565(d) § 63.567(f) [G]§ 63.567(g) [G]§ 63.567(k)	§ 63.562(c)(1) § 63.562(e)(7)(ii) [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) § 63.567(e)(5) § 63.567(e)(6) § 63.567(f) § 63.567(m) § 63.567(n)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.563(a)(2) § 63.563(a)(3)		[G]§ 63.565(d) § 63.565(f) § 63.565(f)(1) § 63.565(l)		§ 63.567(n)(2)
HFODRVENG1	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
HFOENG11	EU	R7ICI	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)	None	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
HFOENG11	EU	60IIII	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less	None	None	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4218	than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.			
HFOENG11	EU	60IIII	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than 560 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NOx emission limit of 6.4 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.	None	None	[G]§ 60.4214(d)
HFOENG11	EU	60IIII	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.	None	None	[G]§ 60.4214(d)
HFOENG11	EU	63ZZZZ	112(B)	40 CFR Part 63,	§ 63.6590(c)	Stationary RICE subject to	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
			HAPS	Subpart ZZZZ		Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
HFOENG2	EU	R7ICI	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
HFOENG2	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.4 § 63.6595(a)(1) § 63.6605(a)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.6605(b) § 63.6625(e) § 63.6625(f) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6640(a)-Table 6.9.a.ii	§ 63.6660(b) § 63.6660(c)	
HFOENGW12	EU	R7CI	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)	None	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
HFOENGW12	EU	60IIII-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) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is	§ 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)
						a 2009 model year and later must comply with an NMHC+NOx emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart.			
HFOENGW12	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
HFOENGW12	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
HFOENGW13	EU	R7CI	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division	None	§ 117.340(j) § 117.345(f)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)		[G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	
HFOENGW13	EU	60IIII-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) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with an NMHC+NOx 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)
HFOENGW13	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	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	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4218	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.			
HFOENGW13	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
HFOENGW14	EU	R7NG	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.			
HFOENGW14	EU	60JJJJ	CO	40 CFR Part 60, Subpart JJJJ	§ 60.4233(e)-Table 1 § 60.4234 § 60.4243(b) § 60.4243(b)(1) [G]§ 60.4243(d) § 60.4243(g) § 60.4246	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(b)	§ 60.4243(a)(1) § 60.4245(a) § 60.4245(a)(1) § 60.4245(a)(2) § 60.4245(a)(3) § 60.4245(b)	[G]§ 60.4245(e)
HFOENGW14	EU	60JJJJ	NO_X	40 CFR Part 60, Subpart JJJJ	§ 60.4233(e)-Table 1 § 60.4234 § 60.4243(b) § 60.4243(b)(1) [G]§ 60.4243(d) § 60.4243(g) § 60.4246	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 NOx emission limit of 2.0 g/HP-hr, as listed in Table 1 to this subpart.	§ 60.4237(b)	§ 60.4243(a)(1) § 60.4245(a) § 60.4245(a)(1) § 60.4245(a)(2) § 60.4245(a)(3) § 60.4245(b)	[G]§ 60.4245(e)
HFOENGW14	EU	60JJJJ	VOC	40 CFR Part 60, Subpart JJJJ	§ 60.4233(e)-Table 1 § 60.4234 § 60.4243(b) § 60.4243(b)(1) [G]§ 60.4243(d) § 60.4243(g) § 60.4246	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(b)	§ 60.4243(a)(1) § 60.4245(a) § 60.4245(a)(1) § 60.4245(a)(2) § 60.4245(a)(3) § 60.4245(b)	[G]§ 60.4245(e)
HFOENGW14	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
HFOENGW8	EU	R7ICI	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)	None	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
HFOENGW8	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1)	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
HFOHEATER1	EU	R7300-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
HFOHEATER1	EU	R7300-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(C) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101,	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)		§ 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
HFOHEATER1	EU	60DC-1	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
HFOHEATER1	EU	60DC-1	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
HFOHEATER1	EU	60DC-1	SO_2	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
HFOHEATER2	EU	R7300-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary		[G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
HFOHEATER2	EU	R7300-1	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(C) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
HFOHEATER2	EU	60DC-1	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						megawatts (MW).			
HFOHEATER2	EU	60DC-1	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
HFOHEATER2	EU	60DC-1	SO_2	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
HFOSHPLD1C	EU	R5211-02	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(6)(A) § 115.212(a)(6)(B) [G]§ 115.212(a)(6)(C) § 115.212(a)(6)(D) [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(C) § 115.214(a)(3)(D) § 115.214(a)(3)(E)	At marine terminals, VOC emissions shall not exceed 0.09 pound from the vapor control system vent per 1,000 gallons (10.8kmg/liter) of VOC loaded into the marine vessel, or a vapor control system with 90% efficiency, or a vapor balance system or pressurized loading may be used.	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.214(a)(3)(B)(ii) § 115.214(a)(3)(B)(iii) § 115.214(a)(3)(D) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(5) § 115.215(7) § 115.215(8) § 115.215(9) § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv) ** See CAM	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(D) § 115.216 § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv) § 115.216(2) [G]§ 115.216(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							Summary		
HFOSHPLD 1C	EU	R5211-04	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
HFOSHPLD 1C	EU	63Y-1	VOC	40 CFR Part 63, Subpart Y	§ 63.562(c) [G]§ 63.562(c)(2) § 63.562(c)(3) § 63.562(c)(4) [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) § 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 RACT standards, except for the VMT source.	[G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.563(b) § 63.563(b)(1) § 63.563(b)(3) § 63.563(b)(4) § 63.563(b)(4)(ii) [G]§ 63.563(c) § 63.564(a)(2) § 63.564(a)(3) § 63.564(a)(4) § 63.564(c) § 63.564(e)(2) § 63.564(e)(4) [G]§ 63.565(b) [G]§ 63.565(d) § 63.565(f) § 63.565(f)(1) § 63.565(l)	§ 63.562(e)(5) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.564(e)(2) [G]§ 63.565(d) § 63.567(f) [G]§ 63.567(g) [G]§ 63.567(k)	§ 63.562(c)(1) § 63.562(e)(7)(ii) [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) § 63.567(e)(5) § 63.567(e)(6) § 63.567(f) § 63.567(m) § 63.567(n)(1) § 63.567(n)(2)
HFOSHPLD 2C	EU	R5211-02	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	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.214(a)(3)(B)(ii) § 115.214(a)(3)(B)(iii) § 115.214(a)(3)(D) § 115.215	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(D) § 115.216 § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv) § 115.216(2) [G]§ 115.216(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						be used.	§ 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(5) § 115.215(7) § 115.215(8) § 115.215(9) § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv) ** See CAM Summary		
HFOSHPLD 2C	EU	R5211-04	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
HFOSHPLD 2C	EU	63Y-1	VOC	40 CFR Part 63, Subpart Y	§ 63.562(c) [G]§ 63.562(c)(2) § 63.562(c)(3) § 63.562(c)(4) [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) § 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 RACT standards, except for the VMT source.	[G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.563(b) § 63.563(b)(1) § 63.563(b)(3) § 63.563(b)(4) § 63.563(b)(4)(ii) [G]§ 63.563(c) § 63.564(a)(2) § 63.564(a)(3) § 63.564(a)(4) § 63.564(c) § 63.564(e)(2) § 63.564(e)(4) [G]§ 63.565(b) [G]§ 63.565(d) § 63.565(f) § 63.565(f)(1)	§ 63.562(e)(5) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.564(e)(2) [G]§ 63.565(d) § 63.567(f) [G]§ 63.567(g) [G]§ 63.567(k)	§ 63.562(c)(1) § 63.562(e)(7)(ii) [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) § 63.567(e)(5) § 63.567(e)(6) § 63.567(f) § 63.567(m) § 63.567(n)(1) § 63.567(n)(2)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 63.565(l)		
HFOSHPLD 3C	EU	R5211-02	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(6)(A) § 115.212(a)(6)(B) [G]§ 115.212(a)(6)(C) § 115.212(a)(6)(D) [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(C) § 115.214(a)(3)(D) § 115.214(a)(3)(E)	At marine terminals, VOC emissions shall not exceed 0.09 pound from the vapor control system vent per 1,000 gallons (10.8kmg/liter) of VOC loaded into the marine vessel, or a vapor control system with 90% efficiency, or a vapor balance system or pressurized loading may be used.	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.214(a)(3)(B)(ii) § 115.214(a)(3)(B)(iii) § 115.214(a)(3)(D) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(5) § 115.215(7) § 115.215(8) § 115.215(9) § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv) ** See CAM Summary	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(D) § 115.216 § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv) § 115.216(2) [G]§ 115.216(4)	None
HFOSHPLD 3C	EU	R5211-04	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
HFOSHPLD 3C	EU	63Y-1	VOC	40 CFR Part 63, Subpart Y	§ 63.562(c) [G]§ 63.562(c)(2) § 63.562(c)(3) § 63.562(c)(4) [G]§ 63.562(c)(6) § 63.562(e)	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) § 63.563(b)(1) § 63.563(b)(3) § 63.563(b)(4)	§ 63.562(e)(5) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.564(e)(2) [G]§ 63.565(d) § 63.567(f)	§ 63.562(c)(1) § 63.562(e)(7)(ii) [G]§ 63.567(b)(2) § 63.567(b)(3) [G]§ 63.567(b)(4) § 63.567(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.562(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)		§ 63.563(b)(4)(ii) [G]§ 63.563(c) § 63.564(a)(2) § 63.564(a)(3) § 63.564(a)(4) § 63.564(c) § 63.564(e)(2) § 63.564(e)(4) [G]§ 63.565(b) [G]§ 63.565(d) § 63.565(f) § 63.565(f)(1) § 63.565(l)	[G]§ 63.567(g) [G]§ 63.567(k)	§ 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(m) § 63.567(n)(1) § 63.567(n)(2)
HFOSHPLD 4C	EU	R5211-02	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(6)(A) § 115.212(a)(6)(B) [G]§ 115.212(a)(6)(C) § 115.212(a)(6)(D) [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(C) § 115.214(a)(3)(D) § 115.214(a)(3)(E)	At marine terminals, VOC emissions shall not exceed 0.09 pound from the vapor control system vent per 1,000 gallons (10.8kmg/liter) of VOC loaded into the marine vessel, or a vapor control system with 90% efficiency, or a vapor balance system or pressurized loading may be used.	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.214(a)(3)(B)(ii) § 115.214(a)(3)(B)(iii) § 115.214(a)(3)(D) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(5) § 115.215(7) § 115.215(8) § 115.215(9) § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv) ** See CAM Summary	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(D) § 115.216 § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv) § 115.216(2) [G]§ 115.216(4)	None
HFOSHPLD	EU	R5211-04	VOC	30 TAC Chapter	§ 115.217(a)(5)(B)	Unloading of marine vessels	§ 115.214(a)(3)(B)	§ 115.216	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
4C				115, Loading and Unloading of VOC	§ 115.214(a)(3)(C) § 115.214(a)(3)(G) § 115.214(a)(3)(G)(i) § 115.217(a)(5)(B)(i)	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)(i)	§ 115.216(2)	
HFOSHPLD 4C	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) [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) § 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 RACT standards, except for the VMT source.	[G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.563(b) § 63.563(b)(1) § 63.563(b)(3) § 63.563(b)(4) § 63.563(b)(4)(ii) [G]§ 63.563(c) § 63.564(a)(2) § 63.564(a)(3) § 63.564(a)(4) § 63.564(c) § 63.564(e)(2) § 63.564(e)(4) [G]§ 63.565(b) [G]§ 63.565(d) § 63.565(f) § 63.565(f)(1) § 63.565(l)	§ 63.562(e)(5) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.564(e)(2) [G]§ 63.565(d) § 63.567(f) [G]§ 63.567(g) [G]§ 63.567(k)	§ 63.562(c)(1) § 63.562(e)(7)(ii) [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) § 63.567(e)(5) § 63.567(e)(6) § 63.567(f) § 63.567(m) § 63.567(n)(1) § 63.567(n)(2)
HFOSHPLD 5	EU	R5211-01	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) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2)	None
HFOSHPLD 5	EU	R5211-03	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.			
HFOSHPLD 5C	EU	R5211-02	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(6)(A) § 115.212(a)(6)(B) [G]§ 115.212(a)(6)(C) § 115.212(a)(6)(D) [G]§ 115.214(a)(3)(A) § 115.214(a)(3)(C) § 115.214(a)(3)(D) § 115.214(a)(3)(E)	At marine terminals, VOC emissions shall not exceed 0.09 pound from the vapor control system vent per 1,000 gallons (10.8kmg/liter) of VOC loaded into the marine vessel, or a vapor control system with 90% efficiency, or a vapor balance system or pressurized loading may be used.	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(B) § 115.214(a)(3)(B)(i) § 115.214(a)(3)(B)(ii) § 115.214(a)(3)(B)(iii) § 115.214(a)(3)(D) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(5) § 115.215(7) § 115.215(8) § 115.215(9) § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv) ** See CAM Summary	[G]§ 115.214(a)(3)(A) § 115.214(a)(3)(D) § 115.216 § 115.216(1) § 115.216(1)(A) § 115.216(1)(A)(iv) § 115.216(2) [G]§ 115.216(4)	None
HFOSHPLD 5C	EU	R5211-04	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
HFOSHPLD 5C	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) [G]§ 63.562(c)(6)	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) § 63.563(b)(1) § 63.563(b)(3)	§ 63.562(e)(5) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.564(e)(2) [G]§ 63.565(d)	§ 63.562(c)(1) § 63.562(e)(7)(ii) [G]§ 63.567(b)(2) § 63.567(b)(3) [G]§ 63.567(b)(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 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)		§ 63.563(b)(4) § 63.563(b)(4)(ii) [G]§ 63.563(c) § 63.564(a)(2) § 63.564(a)(3) § 63.564(a)(4) § 63.564(c) § 63.564(e)(2) § 63.564(e)(4) [G]§ 63.565(b) [G]§ 63.565(d) § 63.565(f) § 63.565(f)(1) § 63.565(l)	§ 63.567(f) [G]§ 63.567(g) [G]§ 63.567(k)	§ 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(m) § 63.567(n)(1) § 63.567(n)(2)
HFOTKENG 11	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
HFOW-WWT648	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
HFOW-WWT648	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A)	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7)	§ 115.114(a)(1)(B)

Additional Monitoring Requirements

CAM Summary

Unit/Group/Process Information	
ID No.: HFOBRGDK8C	
Control Device ID No.: VCU-BRG8	Control Device Type: Vapor combustor
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Loading and Unloading of VOC	SOP Index No.: R5211-02
Pollutant: VOC	Main Standard: § 115.212(a)(6)(A)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: once per day	
Averaging Period: N/A	
Deviation Limit: Temperature in or immediately downstream of firebox < 1500 degrees F while loading crude oil.	
CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 2% of reading; or ± 2.5 degrees Celsius.	

CAM Summary

Unit/Group/Process Information	
ID No.: HFOSHPLD1C	
Control Device ID No.: HFOVCU3	Control Device Type: Vapor combustor
Control Device ID No.: HFOVCU4	Control Device Type: Vapor combustor
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Loading and Unloading of VOC	SOP Index No.: R5211-02
Pollutant: VOC	Main Standard: § 115.212(a)(6)(A)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: once per day	
Averaging Period: N/A	
Deviation Limit: Temperature in or immediately downstream of firebox < 1500 degrees F while loading crude oil.	
CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 2% of reading; or ± 2.5 degrees Celsius.	

CAM Summary

Unit/Group/Process Information	
ID No.: HFOSHPLD2C	
Control Device ID No.: HFOVCU1	Control Device Type: Vapor combustor
Control Device ID No.: HFOVCU2	Control Device Type: Vapor combustor
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Loading and Unloading of VOC	SOP Index No.: R5211-02
Pollutant: VOC	Main Standard: § 115.212(a)(6)(A)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: once per day	
Averaging Period: N/A	
Deviation Limit: Temperature in or immediately downstream of firebox < 1500 degrees F while loading crude oil.	
CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 2% of reading; or ± 2.5 degrees Celsius.	

CAM Summary

Unit/Group/Process Information	
ID No.: HFOSHPLD3C	
Control Device ID No.: HFOVCU1	Control Device Type: Vapor combustor
Control Device ID No.: HFOVCU2	Control Device Type: Vapor combustor
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Loading and Unloading of VOC	SOP Index No.: R5211-02
Pollutant: VOC	Main Standard: § 115.212(a)(6)(A)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: once per day	
Averaging Period: N/A	
Deviation Limit: Temperature in or immediately downstream of firebox < 1500 degrees F while loading crude oil.	
CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 2% of reading; or ± 2.5 degrees Celsius.	

CAM Summary

Unit/Group/Process Information	
ID No.: HFOSHPLD4C	
Control Device ID No.: HFOVCU5	Control Device Type: Vapor combustor
Control Device ID No.: HFOVCU6	Control Device Type: Vapor combustor
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Loading and Unloading of VOC	SOP Index No.: R5211-02
Pollutant: VOC	Main Standard: § 115.212(a)(6)(A)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: once per day	
Averaging Period: N/A	
Deviation Limit: Temperature in or immediately downstream of firebox < 1500 degrees F while loading crude oil.	
CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 2% of reading; or ± 2.5 degrees Celsius.	

CAM Summary

Unit/Group/Process Information	
ID No.: HFOSHPLD5C	
Control Device ID No.: HFOVCU7	Control Device Type: Vapor combustor
Control Device ID No.: HFOVCU8	Control Device Type: Vapor combustor
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Loading and Unloading of VOC	SOP Index No.: R5211-02
Pollutant: VOC	Main Standard: § 115.212(a)(6)(A)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: once per day	
Averaging Period: N/A	
Deviation Limit: Temperature in or immediately downstream of firebox < 1500 degrees F while loading crude oil.	
CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 2% of reading; or ± 2.5 degrees Celsius.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPBOIL	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7ICI
Pollutant: CO	Main Standard: § 117.310(c)(1)
Monitoring Information	
Indicator: Fuel Consumption	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: CO concentration shall not exceed 400 ppmv at 3.0% O2, dry	
Periodic Monitoring Text: Measure and record each unit's fuel consumption while it is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Measured fuel consumption shall be used in conjunction with the CO emission factor determined during stack testing to calculate CO emissions in pounds per hour (lb/hr) on a monthly basis. The calculated lb/hr CO emissions shall be less than the permitted CO emission limit in the NSR permit's Maximum Allowable Emission Rate table, which was derived from a CO concentration that is less than the 30 TAC Chapter 117 limitation of 400 ppmv.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPBOIL2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7ICI
Pollutant: CO	Main Standard: § 117.310(c)(1)
Monitoring Information	
Indicator: Fuel Consumption	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: CO concentration shall not exceed 400 ppmv at 3.0% O2, dry.	
Periodic Monitoring Text: Periodic Monitoring Text: Measure and record boiler's fuel consumption while it is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Measured fuel consumption shall be used in conjunction with the CO emission factor determined during stack testing to calculate CO emissions in pounds per hour (lb/hr) on a monthly basis. The calculated lb/hr CO emissions shall be less than the permitted CO emission limit in the NSR permit's Maximum Allowable Emission Rate table, which was derived from a CO concentration that is less than the 30 TAC Chapter 117 limitation of 400 ppmv.	

Periodic Monitoring Summary

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

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPSHIPVCU	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7300-1
Pollutant: CO	Main Standard: § 117.310(c)(1)
Monitoring Information	
Indicator: Fuel Consumption	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: CO concentration shall not exceed 400 ppmv at 3.0% O2, dry	
Periodic Monitoring Text: Measure and record each unit's fuel consumption while it is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Measured fuel consumption shall be used in conjunction with the CO emission factor determined during stack testing to calculate CO emissions in pounds per hour (lb/hr) on a monthly basis. The calculated lb/hr CO emissions shall be less than the permitted CO emission limit in the NSR permit's Maximum Allowable Emission Rate table, which was derived from a CO concentration that is less than the 30 TAC Chapter 117 limitation of 400 ppmv.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: HFOBOILER209	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7ICI
Pollutant: CO	Main Standard: § 117.310(c)(1)
Monitoring Information	
Indicator: Fuel Consumption	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: CO concentration shall not exceed 400 ppmv at 3.0% O2, dry.	
Periodic Monitoring Text: Measure and record boiler's fuel consumption while it is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Measured fuel consumption shall be used in conjunction with the CO emission factor determined during stack testing to calculate CO emissions in pounds per hour (lb/hr) on a monthly basis. The calculated lb/hr CO emissions shall be less than the permitted CO emission limit in the NSR permit's Maximum Allowable Emission Rate table, which was derived from a CO concentration that is less than the 30 TAC Chapter 117 limitation of 400 ppmv.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: HFOBOILER210	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7ICI
Pollutant: CO	Main Standard: § 117.310(c)(1)
Monitoring Information	
Indicator: Fuel Consumption	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: CO concentration shall not exceed 400 ppmv at 3.0% O2, dry.	
Periodic Monitoring Text: Measure and record boiler's fuel consumption while it is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Measured fuel consumption shall be used in conjunction with the CO emission factor determined during stack testing to calculate CO emissions in pounds per hour (lb/hr) on a monthly basis. The calculated lb/hr CO emissions shall be less than the permitted CO emission limit in the NSR permit's Maximum Allowable Emission Rate table, which was derived from a CO concentration that is less than the 30 TAC Chapter 117 limitation of 400 ppmv.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: HFOHEATER1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7300-1
Pollutant: CO	Main Standard: § 117.310(c)(1)
Monitoring Information	
Indicator: Fuel Consumption	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: CO concentration shall not exceed 400 ppmv at 3.0% O2, dry	
Periodic Monitoring Text: Measure and record each unit's fuel consumption while it is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Measured fuel consumption shall be used in conjunction with the CO emission factor determined during stack testing to calculate CO emissions in pounds per hour (lb/hr) on a monthly basis. The calculated lb/hr CO emissions shall be less than the permitted CO emission limit in the NSR permit's Maximum Allowable Emission Rate table, which was derived from a CO concentration that is less than the 30 TAC Chapter 117 limitation of 400 ppmv.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: HFOHEATER2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7300-1
Pollutant: CO	Main Standard: § 117.310(c)(1)
Monitoring Information	
Indicator: Fuel Consumption	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: CO concentration shall not exceed 400 ppmv at 3.0% O2, dry	
Periodic Monitoring Text: Measure and record each unit's fuel consumption while it is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Measured fuel consumption shall be used in conjunction with the CO emission factor determined during stack testing to calculate CO emissions in pounds per hour (lb/hr) on a monthly basis. The calculated lb/hr CO emissions shall be less than the permitted CO emission limit in the NSR permit's Maximum Allowable Emission Rate table, which was derived from a CO concentration that is less than the 30 TAC Chapter 117 limitation of 400 ppmv.	

Permit Shield

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
GRPBOIL	HFOBOILER101, HFOBOILER102, HFOBOILER103, HFOBOILER104	30 TAC Chapter 112, Sulfur Compounds	Heater does not fire liquid fuel or solid fossil fuel.
GRPBOIL	HFOBOILER101, HFOBOILER102, HFOBOILER103, HFOBOILER104	40 CFR Part 60, Subpart D	Maximum heat input is less than 250 MMBtu/hr
GRPBOIL	HFOBOILER101, HFOBOILER102, HFOBOILER103, HFOBOILER104	40 CFR Part 60, Subpart Da	Not an electric utility steam generating unit.
GRPBOIL	HFOBOILER101, HFOBOILER102, HFOBOILER103, HFOBOILER104	40 CFR Part 60, Subpart Db	Maximum heat input is less than 100 MMBtu/hr
GRPBOIL	HFOBOILER101, HFOBOILER102, HFOBOILER103, HFOBOILER104	40 CFR Part 60, Subpart Dc	Commenced construction prior to June 9, 1989
GRPBOIL2	HFOBOILER105, HFOBOILER106, HFOBOILER107, HFOBOILER108, HFOBOILER201, HFOBOILER202, HFOBOILER203, HFOBOILER204, HFOBOILER205, HFOBOILER206, HFOBOILER207, HFOBOILER208	30 TAC Chapter 112, Sulfur Compounds	Boilers do not fire solid or liquid fuel
GRPENG1	HFOENG1, HFOENG5	40 CFR Part 60, Subpart IIII	Manufactured before April 1, 2006, and not fire pump engines
GRPMARLD	HFOBRGDK2, HFOBRGDK3, HFOBRGDK4, HFOBRGDK5, HFOBRGDK6, HFOBRGDK7, HFOBRGDK8, HFOSHIPLD1, HFOSHIPLD2, HFOSHIPLD3, HFOSHIPLD4	40 CFR Part 63, Subpart Y	Marine tank vessel loading operations with vapor pressure less than 10.3 kPa at standard conditions
GRPSOWSEP	HFOSOWSEP1, HFOSOWSEP2	30 TAC Chapter 115, Water Separation	Separator processes only storm water, spills, or exterior surface clean-up water provided that the separator is fully covered.

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
GRPTK2F	HFOTK00301, HFOTK01101, HFOTK08001, HFOTK08002, HFOTK08003, HFOTK08004, HFOTK08005, HFOTK08006, HFOTK08007, HFOTK08008, HFOTK08009, HFOTK08010, HFOTK08011, HFOTK08012, HFOTK08013, HFOTK08014, HFOTK08015, HFOTK08016, HFOTK08017, HFOTK08018, HFOTK08019, HFOTK20001, HFOTK20002, HFOTK20003, HFOTK20004, HFOTK25005, HFOTK25006, HFOTK25007, HFOTK25008	40 CFR Part 60, Subpart Ka	Constructed prior to 07/23/1984, does not store petroleum liquids.
GRPTK3FW	HFOTK01001, HFOTK01301, HFOTK01302, HFOTK03011, HFOTK03012, HFOTK03013, HFOTK03014, HFOTK03015, HFOTK03016, HFOTK03017, HFOTK03018, HFOTK03019, HFOTK03801, HFOTK09001, HFOTK09002, HFOTK09501, HFOTK09502, HFOTK10003, HFOTK10004, HFOTK10005, HFOTK10006, HFOTK10007, HFOTK10008, HFOTK10009, HFOTK10010, HFOTK10011, HFOTK10012, HFOTK10013, HFOTK10014, HFOTK10015, HFOTK10016, HFOTK10017,	40 CFR Part 60, Subpart Kb	Does not store petroleum liquid. Design capacity >= 39,900 gal and maximum true vapor pressure < 0.5 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
	HFOTK10018, HFOTK10019, HFOTK10020, HFOTK10021, HFOTK10022, HFOTK10023, HFOTK10024, HFOTK10025, HFOTK22001		
GRPTK4F	HFOTK02001, HFOTK02002, HFOTK02003, HFOTK02004, HFOTK03001, HFOTK03002, HFOTK03003, HFOTK03004, HFOTK03005, HFOTK03006, HFOTK03701, HFOTK03702, HFOTK08020, HFOTK08021, HFOTK08022, HFOTK08023, HFOTK08024, HFOTK08025, HFOTK08026, HFOTK08027, HFOTK08028, HFOTK08029, HFOTK08030, HFOTK08031, HFOTK08032, HFOTK08033, HFOTK08034, HFOTK08035, HFOTK08036, HFOTK08037, HFOTK08038, HFOTK10001, HFOTK10002, HFOTK17501, HFOTK17502, HFOTK17503, HFOTK17504, HFOTK20005, HFOTK20006, HFOTK20007, HFOTK20008, HFOTK20009, HFOTK32501	40 CFR Part 60, Subpart Kb	Tank with capacity greater than or equal to 151 m3 storing a liquid with a maximum vapor pressure less than 0.5 psia.
GRPTKD	HFODTK01, HFODTKCRK, HFODTKENG1, HFODTKENG2, HFODTKENG5	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons).

Permit Shield

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
GRPTKDW	HFOTKENGW6, HFOTKENGW7, HFOTKENGW8	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 1,000 gallons.
GRPTKDW	HFOTKENGW6, HFOTKENGW7, HFOTKENGW8	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons).
GRPTKFO	HFOFOTK01, HFOFOTK02	30 TAC Chapter 115, Storage of VOCs	Tank capacity is equal to or less than 1,000 gallons.
GRPTKFO	HFOFOTK01, HFOFOTK02	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons).
GRPTKRO	HFOW-WWTIOT, HFOW-WWTOCT	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 1,000 gallons.
GRPTKRO	HFOW-WWTIOT, HFOW-WWTOCT	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
GRPTKWW	HFOTKW301, HFOTKW302, HFOTKW303, HFOW-WWT6-1, HFOW-WWT9-3	40 CFR Part 60, Subpart Kb	Capacity >= to 151 m3 storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (kPa) or with a capacity >= to 75 m3 but < than 151 m3 storing a liquid with a maximum true vapor pressure less than 15.0 kPa
GRPWOWSEP	HFOW-WWTCOL, HFOWOWSEP1, HFOWOWSEP2	30 TAC Chapter 115, Water Separation	Separator processes only storm water, spills, or exterior surface clean-up water provided that the separator is fully covered.
HFODRVENG1	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons).
HFOENGW8	N/A	40 CFR Part 60, Subpart IIII	Manufactured before April 1, 2006, and not a fire pump engine
HFOGTK1	N/A	30 TAC Chapter 115, Storage of VOCs	This is a gasoline tank less than 25,000 gallons at a motor vehicle dispensing facility.

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
HFOGTK1	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters.
HFOHEATER1	N/A	30 TAC Chapter 112, Sulfur Compounds	Heater does not fire liquid fuel or solid fossil fuel.
HFOHEATER2	N/A	30 TAC Chapter 112, Sulfur Compounds	Heater does not fire liquid fuel or solid fossil fuel.
HFOSD01	N/A	40 CFR Part 63, Subpart T	Does not use a halogenated HAP containing solvent.
HFOSDW02	N/A	40 CFR Part 63, Subpart T	Does not use a halogenated HAP containing solvent.
HFOTKENG11	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters.
MRNFUG	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	The site is not a petroleum refinery; synthetic organic, polymer, resin, or methyl-tert-butyl ether manufacturing process; or a natural gas/gasoline processing operation, as defined in 30 TAC 115.10.

New Source Review Authorization References

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.: N57M2	Issuance Date: 11/28/2023
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.: 5783	Issuance Date: 11/28/2023
Authorization No.: PAL52	Issuance Date: 01/30/2024
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.102	Version No./Date: 09/04/2000
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.532	Version No./Date: 09/04/2000

New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
HFOBOILER101	BOILER 101	5783, PAL52, N57M2
HFOBOILER102	BOILER 102	5783, PAL52, N57M2
HFOBOILER103	BOILER 103	5783, PAL52, N57M2
HFOBOILER104	BOILER 104	5783, PAL52, N57M2
HFOBOILER105	12.4 MMBTU/HR MIURA BOILER 105	5783, PAL52, N57M2
HFOBOILER106	12.4 MMBTU/HR MIURA BOILER 106	5783, PAL52, N57M2
HFOBOILER107	12.4 MMBTU/HR MIURA BOILER 107	5783, PAL52, N57M2
HFOBOILER108	12.4 MMBTU/HR MIURA BOILER 108	5783, PAL52, N57M2
HFOBOILER201	BOILER 201	5783, PAL52, N57M2
HFOBOILER202	BOILER 202	5783, PAL52, N57M2
HFOBOILER203	BOILER 203	5783, PAL52, N57M2
HFOBOILER204	BOILER 204	5783, PAL52, N57M2
HFOBOILER205	12.4 MMBTU/HR MIURA BOILER 205	5783, PAL52, N57M2
HFOBOILER206	12.4 MMBTU/HR MIURA BOILER 206	5783, PAL52, N57M2
HFOBOILER207	12.4 MMBTU/HR MIURA BOILER 207	5783, PAL52, N57M2
HFOBOILER208	12.4 MMBTU/HR MIURA BOILER 208	5783, PAL52, N57M2
HFOBOILER209	BOILER209	5783, PAL52, N57M2
HFOBOILER210	BOILER 210	5783, PAL52, N57M2
HFOBRGDK2	BARGE LOADING #2	5783, PAL52, N57M2
HFOBRGDK3	BARGE LOADING #3	5783, PAL52, N57M2
HFOBRGDK4	BARGE LOADING #4	5783, PAL52, N57M2

New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
HFOBRGDK5	BARGE LOADING #5	5783, PAL52, N57M2
HFOBRGDK6	BARGE LOADING #6	5783, PAL52, N57M2
HFOBRGDK7	BARGE DOCK 7	5783, PAL52, N57M2
HFOBRGDK8	BARGE DOCK NO. 8 - CRUDE OIL LOADING	5783, PAL52, N57M2
HFOBRGDK8C	BARGE DOCK NO. 8 - CRUDE OIL LOADING	5783, PAL52, N57M2
HFODRVENG1	DIESEL RESERVOIR FOR ENG-1	PAL52, 106.473/09/04/2000
HFODTK01	IN-PLANT TERMINAL VEHICLES & EQUIPMENT FUEL	PAL52, 106.473/09/04/2000
HFODTKCRK	DIESEL TANK FOR ENG 3 AND ENG 4	PAL52, 106.473/09/04/2000
HFODTKENG1	DIESEL TANK FOR ENG-1	PAL52, 106.473/09/04/2000
HFODTKENG2	DIESEL TANK FOR ENG 2	PAL52, 106.473/09/04/2000
HFODTKENG5	DIESEL TANK FOR ENG 5	PAL52, 106.473/09/04/2000
HFOENG1	AREA 14 EMERGENCY GENERATOR ENGINE	PAL52, 106.511/09/04/2000
HFOENG11	AREA 16 EMERGENCY GENERATOR ENGINE	PAL52, 106.511/09/04/2000
HFOENG2	OPERATIONS GENERATOR ENGINE (1SD/2BD FWP)	PAL52, 106.511/09/04/2000
HFOENG4	C RACK AIR COMPRESSOR ENGINE	PAL52, 106.511/09/04/2000
HFOENG5	GATE 5 FIREWATER PUMP	PAL52, 106.511/09/04/2000
HFOENGW12	SHIP DOCK 5 S FWP ENGINE	106.511/09/04/2000
HFOENGW13	SHIP DOCK 5 N FWP ENGINE	106.511/09/04/2000
HFOENGW14	OPERATIONS BUILDING EMERGENCY GENERATOR ENGINE	106.511/09/04/2000
HFOENGW6	6 BD FIREWATER PUMP WEST	PAL52, 106.511/09/04/2000
HFOENGW7	FIREWATER PUMP EAST	PAL52, 106.511/09/04/2000

New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
HFOENGW8	ADMIN GENERATOR ENGINE	PAL52, 106.511/09/04/2000
HFOFOTK01	EAST SIDE LOADING FUEL OIL SAMPLE TANK #1	PAL52, 106.473/09/04/2000
HFOFOTK02	EAST SIDE LOADING FUEL OIL SAMPLE TANK #2	PAL52, 106.473/09/04/2000
HFOGTK1	IN-PLANT TERMINAL VEHICLES & EQUIPMENT FUEL	PAL52, 106.473/09/04/2000
HFOHEATER1	NATURAL GAS FIRED HEATER 1	5783, PAL52, N57M2
HFOHEATER2	NATURAL GAS FIRED HEATER 2	5783, PAL52, N57M2
HFORCARLD1	RAIL CAR LOADING #1	5783, PAL52, N57M2
HFORCARLD2	RAIL CAR LOADING #2	5783, PAL52, N57M2
HFORCARLD3	RAIL CAR LOADING #3	5783, PAL52, N57M2
HFOSD01	SOLVENT DEGREASER #1	PAL52, 106.454/11/01/2001
HFOSDW02	SOLVENT DEGREASER #2	PAL52, 106.454/11/01/2001
HFOSHIPLD1	SHIP LOADING #1	5783, PAL52, N57M2
HFOSHIPLD2	SHIP LOADING #2	5783, PAL52, N57M2
HFOSHIPLD3	SHIP LOADING #3	5783, PAL52, N57M2
HFOSHIPLD4	SHIP DOCK 4	5783, PAL52, N57M2
HFOSHPLD1C	SHIP DOCK NO. 1C - CRUDE OIL LOADING	5783, PAL52, N57M2
HFOSHPLD2C	SHIP DOCK NO. 2C - CRUDE OIL LOADING	5783, PAL52, N57M2
HFOSHPLD3C	SHIP DOCK NO. 3C - CRUDE OIL LOADING	5783, PAL52, N57M2
HFOSHPLD4C	SHIP DOCK NO. 4C - CRUDE OIL LOADING	5783, PAL52, N57M2
HFOSHPLD5	SHIP DOCK NO. 5 - FUEL OIL LOADING	5783, PAL52, N57M2
HFOSHPLD5C	SHIP DOCK NO. 5C - CRUDE OIL LOADING	5783, PAL52, N57M2

New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
HFOSOWSEP1	WWTS SOUTH - OIL/WATER SEPARATOR 1	PAL52, 106.532/09/04/2000
HFOSOWSEP2	WWTS SOUTH - OIL/WATER SEPARATOR 2	PAL52, 106.532/09/04/2000
HFOTK00301	STORAGE TANK #3-1	5783, PAL52, N57M2
HFOTK01001	STORAGE TANK #10-1	5783, PAL52, N57M2
HFOTK01101	STORAGE TANK #11-1	5783, PAL52, N57M2
HFOTK01301	STORAGE TANK #13-1	5783, PAL52, N57M2
HFOTK01302	STORAGE TANK #13-2	5783, PAL52, N57M2
HFOTK02001	STORAGE TANK #20-1	5783, PAL52, N57M2
HFOTK02002	STORAGE TANK #20-2	5783, PAL52, N57M2
HFOTK02003	STORAGE TANK #20-3	5783, PAL52, N57M2
HFOTK02004	STORAGE TANK #20-4	5783, PAL52, N57M2
HFOTK03001	STORAGE TANK #30-1	5783, PAL52, N57M2
HFOTK03002	STORAGE TANK #30-2	5783, PAL52, N57M2
HFOTK03003	STORAGE TANK #30-3	5783, PAL52, N57M2
HFOTK03004	STORAGE TANK #30-4	5783, PAL52, N57M2
HFOTK03005	STORAGE TANK #30-5	5783, PAL52, N57M2
HFOTK03006	STORAGE TANK #30-6	5783, PAL52, N57M2
HFOTK03011	STORAGE TANK #30-11	5783, PAL52, N57M2
HFOTK03012	STORAGE TANK #30-12	5783, PAL52, N57M2
HFOTK03013	STORAGE TANK #30-13	5783, PAL52, N57M2
HFOTK03014	STORAGE TANK #30-14	5783, PAL52, N57M2

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**
HFOTK03015	STORAGE TANK #30-15	5783, PAL52, N57M2
HFOTK03016	STORAGE TANK #30-16	5783, PAL52, N57M2
HFOTK03017	STORAGE TANK #30-17	5783, PAL52, N57M2
HFOTK03018	TANK 30-18	5783, PAL52, N57M2
HFOTK03019	TANK 30-19	5783, PAL52, N57M2
HFOTK03701	STORAGE TANK #37-1	5783, PAL52, N57M2
HFOTK03702	STORAGE TANK #37-2	5783, PAL52, N57M2
HFOTK03801	TANK 38-1	5783, PAL52, N57M2
HFOTK08001	STORAGE TANK #80-1	5783, PAL52, N57M2
HFOTK08002	STORAGE TANK #80-2	5783, PAL52, N57M2
HFOTK08003	STORAGE TANK #80-3	5783, PAL52, N57M2
HFOTK08004	STORAGE TANK #80-4	5783, PAL52, N57M2
HFOTK08005	STORAGE TANK #80-5	5783, PAL52, N57M2
HFOTK08006	STORAGE TANK #80-6	5783, PAL52, N57M2
HFOTK08007	STORAGE TANK #80-7	5783, PAL52, N57M2
HFOTK08008	STORAGE TANK #80-8	5783, PAL52, N57M2
HFOTK08009	STORAGE TANK #80-9	5783, PAL52, N57M2
HFOTK08010	STORAGE TANK #80-10	5783, PAL52, N57M2
HFOTK08011	STORAGE TANK #80-11	5783, PAL52, N57M2
HFOTK08012	STORAGE TANK #80-12	5783, PAL52, N57M2
HFOTK08013	STORAGE TANK #80-13	5783, PAL52, N57M2

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**
HFOTK08014	STORAGE TANK #80-14	5783, PAL52, N57M2
HFOTK08015	STORAGE TANK #80-15	5783, PAL52, N57M2
HFOTK08016	STORAGE TANK #80-16	5783, PAL52, N57M2
HFOTK08017	STORAGE TANK #80-17	5783, PAL52, N57M2
HFOTK08018	STORAGE TANK #80-18	5783, PAL52, N57M2
HFOTK08019	STORAGE TANK #80-19	5783, PAL52, N57M2
HFOTK08020	STORAGE TANK #80-20	5783, PAL52, N57M2
HFOTK08021	STORAGE TANK #80-21	5783, PAL52, N57M2
HFOTK08022	STORAGE TANK #80-22	5783, PAL52, N57M2
HFOTK08023	STORAGE TANK #80-23	5783, PAL52, N57M2
HFOTK08024	STORAGE TANK #80-24	5783, PAL52, N57M2
HFOTK08025	STORAGE TANK #80-25	5783, PAL52, N57M2
HFOTK08026	STORAGE TANK #80-26	5783, PAL52, N57M2
HFOTK08027	STORAGE TANK #80-27	5783, PAL52, N57M2
HFOTK08028	STORAGE TANK #80-28	5783, PAL52, N57M2
HFOTK08029	STORAGE TANK #80-29	5783, PAL52, N57M2
HFOTK08030	STORAGE TANK #80-30	5783, PAL52, N57M2
HFOTK08031	STORAGE TANK #80-31	5783, PAL52, N57M2
HFOTK08032	STORAGE TANK #80-32	5783, PAL52, N57M2
HFOTK08033	STORAGE TANK #80-33	5783, PAL52, N57M2
HFOTK08034	STORAGE TANK #80-34	5783, PAL52, N57M2

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**
HFOTK08035	STORAGE TANK #80-35	5783, PAL52, N57M2
HFOTK08036	STORAGE TANK #80-36	5783, PAL52, N57M2
HFOTK08037	STORAGE TANK #80-37	5783, PAL52, N57M2
HFOTK08038	STORAGE TANK #80-38	5783, PAL52, N57M2
HFOTK09001	TANK 90-1	5783, PAL52, N57M2
HFOTK09002	TANK 90-2	5783, PAL52, N57M2
HFOTK09501	STORAGE TANK #95-1	5783, PAL52, N57M2
HFOTK09502	STORAGE TANK #95-2	5783, PAL52, N57M2
HFOTK10001	TANK 100-1	5783, PAL52, N57M2
HFOTK10002	TANK 100-2	5783, PAL52, N57M2
HFOTK10003	TANK 100-3	5783, PAL52, N57M2
HFOTK10004	TANK 100-4	5783, PAL52, N57M2
HFOTK10005	TANK 100-5	5783, PAL52, N57M2
HFOTK10006	TANK 100-6	5783, PAL52, N57M2
HFOTK10007	TANK 100-7	5783, PAL52, N57M2
HFOTK10008	TANK 100-8	5783, PAL52, N57M2
HFOTK10009	TANK 100-9	5783, PAL52, N57M2
HFOTK10010	TANK 100-10	5783, PAL52, N57M2
HFOTK10011	TANK 100-11	5783, PAL52, N57M2
HFOTK10012	TANK 100-12	5783, PAL52, N57M2
HFOTK10013	TANK 100-13	5783, PAL52, N57M2

New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
HFOTK10014	TANK 100-14	5783, PAL52, N57M2
HFOTK10015	TANK 100-15	5783, PAL52, N57M2
HFOTK10016	TANK 100-16	5783, PAL52, N57M2
HFOTK10017	TANK 100-17	5783, PAL52, N57M2
HFOTK10018	TANK 100-18	5783, PAL52, N57M2
HFOTK10019	TANK 100-19	5783, PAL52, N57M2
HFOTK10020	TANK 100-20	5783, PAL52, N57M2
HFOTK10021	TANK 100-21	5783, PAL52, N57M2
HFOTK10022	TANK 100-22	5783, PAL52, N57M2
HFOTK10023	TANK 100-23	5783, PAL52, N57M2
HFOTK10024	TANK 100-24	5783, PAL52, N57M2
HFOTK10025	TANK T100-25	5783, PAL52, N57M2
HFOTK17501	STORAGE TANK #175-1	5783, PAL52, N57M2
HFOTK17502	STORAGE TANK #175-2	5783, PAL52, N57M2
HFOTK17503	STORAGE TANK #175-3	5783, PAL52, N57M2
HFOTK17504	STORAGE TANK #175-4	5783, PAL52, N57M2
HFOTK20001	STORAGE TANK #200-1	5783, PAL52, N57M2
HFOTK20002	STORAGE TANK #200-2	5783, PAL52, N57M2
HFOTK20003	STORAGE TANK #200-3	5783, PAL52, N57M2
HFOTK20004	STORAGE TANK #200-4	5783, PAL52, N57M2
HFOTK20005	STORAGE TANK #200-5	5783, PAL52, N57M2

New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
HFOTK20006	STORAGE TANK #200-6	5783, PAL52, N57M2
HFOTK20007	STORAGE TANK #200-7	5783, PAL52, N57M2
HFOTK20008	STORAGE TANK #200-8	5783, PAL52, N57M2
HFOTK20009	STORAGE TANK #200-9	5783, PAL52, N57M2
HFOTK22001	TANK T220-1	5783, PAL52, N57M2
HFOTK25001	STORAGE TANK #250-1	5783, PAL52, N57M2
HFOTK25002	STORAGE TANK #250-2	5783, PAL52, N57M2
HFOTK25003	STORAGE TANK #250-4	5783, PAL52, N57M2
HFOTK25004	STORAGE TANK #250-4	5783, PAL52, N57M2
HFOTK25005	STORAGE TANK #250-5	5783, PAL52, N57M2
HFOTK25006	STORAGE TANK #250-6	5783, PAL52, N57M2
HFOTK25007	STORAGE TANK #250-7	5783, PAL52, N57M2
HFOTK25008	STORAGE TANK #250-8	5783, PAL52, N57M2
HFOTK25009	STORAGE TANK #250-9	5783, PAL52, N57M2
HFOTK26601	STORAGE TANK #266-1	5783, PAL52, N57M2
HFOTK26602	STORAGE TANK #266-2	5783, PAL52, N57M2
HFOTK32501	STORAGE TANK #325-1	5783, PAL52, N57M2
HFOTK32502	STORAGE TANK #325-2	5783, PAL52, N57M2
HFOTK40001	STORAGE TANK #400-1	5783, PAL52, N57M2
HFOTK40002	STORAGE TANK #400-2	5783, PAL52, N57M2
HFOTK40003	STORAGE TANK #400-3	5783, PAL52, N57M2

New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
HFOTK40004	STORAGE TANK #400-4	5783, PAL52, N57M2
HFOTK40005	STORAGE TANK #400-5	5783, PAL52, N57M2
HFOTK40006	STORAGE TANK #400-6	5783, PAL52, N57M2
HFOTK40007	STORAGE TANK #400-7	5783, PAL52, N57M2
HFOTK40009	STORAGE TANK #400-9	5783, PAL52, N57M2
HFOTK40010	STORAGE TANK #400-10	5783, PAL52, N57M2
HFOTK40011	STORAGE TANK #400-11	5783, PAL52, N57M2
HFOTK40012	STORAGE TANK #400-12	5783, PAL52, N57M2
HFOTK40013	STORAGE TANK #400-13	5783, PAL52, N57M2
HFOTKA241	AREA 24 TANK 1	5783, PAL52, N57M2
HFOTKA261	AREA 26 TANK 1	5783, PAL52, N57M2
HFOTKA262	AREA26 TANK 2	5783, PAL52, N57M2
HFOTKA263	AREA 26 TANK 3	5783, PAL52, N57M2
HFOTKA264	AREA 26 TANK 4	5783, PAL52, N57M2
HFOTKENG11	DIESEL TANK FOR ENGINE 11	PAL52, 106.473/09/04/2000
HFOTKENGW6	WEST TERMINAL BARGE DOCK DIESEL STORAGE TANK FOR E	PAL52, 106.473/09/04/2000
HFOTKENGW7	WEST TERMINAL BARGE DOCK DIESEL STORAGE TANK FOR E	PAL52, 106.473/09/04/2000
HFOTKENGW8	WEST TERMINAL BARGE DOCK DIESEL STORAGE TANK FOR E	PAL52, 106.473/09/04/2000
HFOTKW301	TANK W30-1	5783, PAL52, N57M2
HFOTKW302	TANK W30-2	5783, PAL52, N57M2
HFOTKW303	TANK W30-3	PAL52, 106.472/09/04/2000

New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
HFOTTRCLD1	TANK TRUCK LOADING #1	5783, PAL52, N57M2
HFOTTRCLD2	TANK TRUCK LOADING #2	5783, PAL52, N57M2
HFOTTRCLD3	TANK TRUCK LOADING #3	5783, PAL52, N57M2
HFOVCU1	VAPOR COMBUSTOR 1	5783, PAL52, N57M2
HFOVCU2	VAPOR COMBUSTOR 2	5783, PAL52, N57M2
HFOVCU3	VAPOR COMBUSTOR 3	5783, PAL52, N57M2
HFOVCU4	VAPOR COMBUSTOR 4	5783, PAL52, N57M2
HFOVCU5	VAPOR COMBUSTOR 5	5783, PAL52, N57M2
HFOVCU6	VAPOR COMBUSTOR 6	5783, PAL52, N57M2
HFOVCU7	VAPOR COMBUSTOR 7	5783, PAL52, N57M2
HFOVCU8	VAPOR COMBUSTOR 8	5783, PAL52, N57M2
HFOW-WWT6-1	TANK W6-1	PAL52, 106.472/09/04/2000
HFOW-WWT648	WWTS WEST - TANK 648	PAL52, 106.472/09/04/2000
HFOW-WWT9-3	TANK W9-3	PAL52, 106.472/09/04/2000
HFOW-WWTCOL	WWTS WEST - OIL COALESCER	PAL52, 106.532/09/04/2000
HFOW-WWTIOT	WWTS WEST - INTERMEDIATE OIL TANK	PAL52, 106.472/09/04/2000
HFOW-WWTOCT	WWTS WEST - OIL COLLECTION TANK	PAL52, 106.472/09/04/2000
HFOWOWSEP1	WWTS WEST - OIL/WATER SEPARATOR 1	PAL52, 106.532/09/04/2000
HFOWOWSEP2	WWTS WEST - OIL/WATER SEPARATOR 2	PAL52, 106.532/09/04/2000
MRNFUG	TERMINAL FUGITIVES FU-4 AND FU-5	5783, PAL52, N57M2
VCU-BRG8	BARGE DOCK 8 VAPOR COMBUSTOR	5783, PAL52, N57M2

**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

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

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

Appendix B

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
B-101	Boiler	NO_x	0.71	3.12	3, 5	3, 5, 29, 30	3
		CO	0.01	0.01			
		SO_2	0.01	0.06			
		PM	0.19	0.82			
		PM_{10}	0.19	0.82			
		$PM_{2.5}$	0.19	0.82			
		VOC	0.13	0.59			
B-102	Boiler	NO_x	0.78	3.39	3, 5	3, 5, 29, 30	3
		CO	0.01	0.01			
		SO_2	0.01	0.06			
		PM	0.19	0.82			
		PM_{10}	0.19	0.82			
		$PM_{2.5}$	0.19	0.82			
		VOC	0.13	0.59			
B-103	Boiler	NO_x	0.53	2.30	3, 5	3, 5, 29, 30	3

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		CO	0.31	1.36			
		SO_2	0.01	0.06			
		PM	0.19	0.82			
		PM_{10}	0.19	0.82			
		$PM_{2.5}$	0.19	0.82			
		VOC	0.13	0.59			
B-104	Boiler	NO_x	0.55	2.41	3, 5	3, 5, 29, 30	3
		CO	0.50	2.19			
		SO_2	0.01	0.06			
		PM	0.19	0.82			
		PM_{10}	0.19	0.82			
		$PM_{2.5}$	0.19	0.82			
		VOC	0.13	0.59			
B-105	Boiler	NO_x	0.26	1.14	3, 5	3, 5, 29, 30	3
		CO	0.08	0.35			

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		SO_2	0.01	0.03			
		PM	0.09	0.40			
		PM_{10}	0.09	0.40			
		$PM_{2.5}$	0.09	0.40			
		VOC	0.07	0.29			
B-106	Boiler	NO_x	0.26	1.14	3, 5	3, 5, 29, 30	3
		CO	0.07	0.31			
		SO_2	0.01	0.03			
		PM	0.09	0.40			
		PM_{10}	0.09	0.40			
		$PM_{2.5}$	0.09	0.40			
		VOC	0.07	0.29			
B-107	Boiler	NO_x	0.24	1.03	3, 5	3, 5, 29, 30	3
		CO	0.05	0.23			
		SO_2	0.01	0.03			

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		PM	0.09	0.40			
		PM_{10}	0.09	0.40			
		$PM_{2.5}$	0.09	0.40			
		VOC	0.07	0.29			
B-108	Boiler	NO_x	0.24	1.03	3, 5	3, 5, 29, 30	3
		CO	0.07	0.30			
		SO_2	0.01	0.03			
		PM	0.09	0.40			
		PM_{10}	0.09	0.40			
		$PM_{2.5}$	0.09	0.40			
		VOC	0.07	0.29			
B-201	Boiler	NO_x	0.27	1.19	3, 5	3, 5, 29, 30	3
		CO	0.07	0.33			
		SO_2	0.01	0.03			
		PM	0.09	0.4			

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		PM_{10}	0.09	0.4			
		$PM_{2.5}$	0.09	0.4			
		VOC	0.07	0.29			
B-202	Boiler	NO_x	0.23	1.02	3, 5	3, 5, 29, 30	3
		CO	0.24	1.03			
		SO_2	0.01	0.03			
		PM	0.09	0.4			
		PM_{10}	0.09	0.4			
		$PM_{2.5}$	0.09	0.4			
		VOC	0.07	0.29			
B-203	Boiler	NO_x	0.26	1.15	3, 5	3, 5, 29, 30	3
		CO	0.14	0.6			
		SO_2	0.01	0.03			
		PM	0.09	0.4			
		PM_{10}	0.09	0.4			

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.09	0.4			
		VOC	0.07	0.29			
B-204	Boiler	NO_x	0.20	0.89	3, 5	3, 5, 29, 30	3
		CO	0.06	0.27			
		SO_2	0.01	0.03			
		PM	0.09	0.4			
		PM_{10}	0.09	0.4			
		$PM_{2.5}$	0.09	0.4			
		VOC	0.07	0.29			
B-205	Boiler	NO_x	0.28	1.21	3, 5	3, 5, 29, 30	3
		CO	0.12	0.54			
		SO_2	0.01	0.03			
		PM	0.09	0.4			
		PM_{10}	0.09	0.4			
		$PM_{2.5}$	0.09	0.4			

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		VOC	0.07	0.29			
B-206	Boiler	NO_x	0.16	0.71	3, 5	3, 5, 29, 30	3
		CO	0.07	0.33			
		SO_2	0.01	0.03			
		PM	0.09	0.4			
		PM_{10}	0.09	0.4			
		$PM_{2.5}$	0.09	0.4			
		VOC	0.07	0.29			
B-207	Boiler	NO_x	0.09	0.38	3, 5	3, 5, 29, 30	3
		CO	0.09	0.38			
		SO_2	0.01	0.03			
		PM	0.09	0.4			
		PM_{10}	0.09	0.4			
		$PM_{2.5}$	0.09	0.4			
		VOC	0.07	0.29			

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
B-208	Boiler	NO_x	0.19	0.83	3, 5	3, 5, 29, 30	3
		CO	0.09	0.38			
		SO_2	0.01	0.03			
		PM	0.09	0.4			
		PM_{10}	0.09	0.4			
		$PM_{2.5}$	0.09	0.4			
		VOC	0.07	0.29			
B-209	Boiler	NO_x	0.45	1.96	3, 5	3, 5, 29, 30	3
		CO	0.92	4.02			
		SO_2	0.01	0.03			
		PM	0.09	0.4			
		PM_{10}	0.09	0.4			
		$PM_{2.5}$	0.09	0.4			
		VOC	0.07	0.29			
B-210	Boiler	NO_x	0.45	1.96	3, 5	3, 5, 29, 30	3

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		CO	0.92	4.02			
		SO_2	0.01	0.03			
		PM	0.09	0.4			
		PM_{10}	0.09	0.4			
		$PM_{2.5}$	0.09	0.4			
		VOC	0.07	0.29			
H-101	Hot Oil Heater	NO_x	0.11	0.49	3, 5	3, 5, 29, 30	3
		CO	0.01	0.01			
		SO_2	0.01	0.03			
		PM	0.07	0.33			
		PM_{10}	0.07	0.33			
		$PM_{2.5}$	0.07	0.33			
		VOC	0.05	0.24			
H-102	Hot Oil Heater	NO_x	0.12	0.53	3, 5	3, 5, 29, 30	3
		CO	0.01	0.01			

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		SO_2	0.01	0.03			
		PM	0.07	0.33			
		PM_{10}	0.07	0.33			
		$PM_{2.5}$	0.07	0.33			
		VOC	0.05	0.24			
T10-1	Fixed Roof (FR) Tank	VOC	56.49	---	3	3, 8, 29, 30	3
T13-1	FR Tank	VOC	56.49	---	3	3, 8, 29, 30	3
T13-2	FR Tank	VOC	56.49	---	3	3, 8, 29, 30	3
T20-1	FR Tank	VOC	56.49	---	3	3, 8, 29, 30	3
T20-2	FR Tank	VOC	56.49	---	3	3, 8, 29, 30	3
T20-3	FR Tank	VOC	56.49	---	3	3, 8, 29, 30	3
T20-4	FR Tank	VOC	56.49	---	3	3, 8, 29, 30	3
T30-1	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3
T30-2	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3
T30-3	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
T30-4	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3
T30-5	FR Tank	VOC	29.86	---	3	3, 8, 29, 30	3
T30-6	FR Tank	VOC	29.86	---	3	3, 8, 29, 30	3
T30-11	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3
T30-12	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3
T30-13	FR Tank	VOC	20.91	---	3	3, 8, 29, 30	3
T30-14	FR Tank	VOC	20.91	---	3	3, 8, 29, 30	3
T30-15	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3
T30-16	FR Tank	VOC	20.91	---	3	3, 8, 29, 30	3
T30-17	FR Tank	VOC	20.91	---	3	3, 8, 29, 30	3
T30-18	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3
T30-19	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3
T37-1	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3
T37-2	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3
T38-1	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
T80-1	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-2	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-3	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-4	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-5	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-6	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-7	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-8	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-9	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-10	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-11	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-12	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-13	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-14	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-15	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
T80-16	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-17	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-18	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-19	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-20	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3
T80-21	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3
T80-22	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3
T80-23	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-24	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-25	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-26	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-27	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-28	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-29	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-30	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
T80-31	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-32	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-33	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-34	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-35	FR Tank	VOC	169.46	---	3	3, 8, 29, 30	3
T80-36	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-37	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T80-38	FR Tank	VOC	44.80	---	3	3, 8, 29, 30	3
T90-1	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T90-2	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T95-1	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T95-2	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-1	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-2	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-3	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
T100-4	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-5	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-6	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-7	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-8	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-9	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-10	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-11	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-12	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-13	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-14	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-15	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-16	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-17	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-18	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
T100-19	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-20	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-21	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-22	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-23	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-24	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T100-25	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T175-1	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T175-2	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T175-3	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T175-4	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T200-1	FR Tank	VOC	74.66	---	3	3, 8, 29, 30	3
T200-2	FR Tank	VOC	74.66	---	3	3, 8, 29, 30	3
T200-3	FR Tank	VOC	74.66	---	3	3, 8, 29, 30	3
T200-4	FR Tank	VOC	74.66	---	3	3, 8, 29, 30	3

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
T200-5	FR Tank	VOC	74.66	---	3	3, 8, 29, 30	3
T200-6	FR Tank	VOC	74.66	---	3	3, 8, 29, 30	3
T200-7	FR Tank	VOC	74.66	---	3	3, 8, 29, 30	3
T200-8	FR Tank	VOC	74.66	---	3	3, 8, 29, 30	3
T200-9	FR Tank	VOC	74.66	---	3	3, 8, 29, 30	3
T220-1	FR Tank	VOC	59.73	---	3	3, 8, 29, 30	3
T250-5	FR Tank	VOC	89.59	---	3	3, 8, 29, 30	3
T250-6	FR Tank	VOC	89.59	---	3	3, 8, 29, 30	3
T250-7	FR Tank	VOC	89.59	---	3	3, 8, 29, 30	3
T250-8	FR Tank	VOC	89.59	---	3	3, 8, 29, 30	3
T325-1	FR Tank	VOC	89.59	---	3	3, 8, 29, 30	3
T325-2	FR Tank	VOC	89.59	---	3	3, 8, 29, 30	3
FXRTKCAP	Fixed Roof Tank Cap	VOC	---	105.00		20, 30	
T250-1	Internal Floating Roof (IFR) Tank	VOC	11.52	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.03	---			

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
T250-2	IFR Tank	VOC	11.88	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.03	---			
T250-3	IFR Tank	VOC	11.43	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.03	---			
T250-4	IFR Tank	VOC	11.43	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.03	---			
T250-9	IFR Tank	VOC	10.27	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.02	---			
T266-1	IFR Tank	VOC	11.24	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.03	---			
T266-2	IFR Tank	VOC	11.24	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.03	---			
T325-1	IFR Tank	VOC	11.84	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.10	---			
T400-1	IFR Tank	VOC	11.13	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		H_2S	0.10	---			
T400-2	IFR Tank	VOC	11.13	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.10	---			
T400-3	IFR Tank	VOC	11.13	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.10	---			
T400-4	IFR Tank	VOC	11.13	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.10	---			
T400-5	IFR Tank	VOC	11.13	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.10	---			
T400-6	IFR Tank	VOC	9.39	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.03	---			
T400-7	IFR Tank	VOC	11.13	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.10	---			
T400-9	IFR Tank	VOC	11.13	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.10	---			

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
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
T400-10	IFR Tank	VOC	11.13	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.10	---			
T400-11	IFR Tank	VOC	8.29	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.02	---			
T400-12	IFR Tank	VOC	8.29	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.02	---			
T400-13	IFR Tank	VOC	8.29	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.02	---			
T-A24-1	Area 24 Tank 1	VOC	10.47	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.03	---			
T-A26-1	Area 26 Tank 1	VOC	10.47	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.03	---			
T-A26-2	Area 26 Tank 2	VOC	10.47	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.03	---			
T-A26-3	Area 26 Tank 3	VOC	10.47	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Cond/Application Information**	**Special Condition/Application Information**
		H_2S	0.03	---			
T-A26-4	Area 26 Tank 4	VOC	10.47	---	3, 8, 9, 10	3, 8, 9, 10, 29, 30	3
		H_2S	0.03	---			
IFRTKCAP	IFR Tank Cap	VOC	---	113.04		20, 30	
		H_2S	---	5.15			
SHIPLD-1	Ship Dock No. 1 – Fuel Oil Loading	VOC	22.39	---	14, 17, 18	17, 18, 19, 20, 30	
SHIPLD-2	Ship Dock No. 2 – Fuel Oil Loading	VOC	22.39	---	14, 17, 18	17, 18, 19, 20, 30	
SHIPLD-3	Ship Dock No. 3 – Fuel Oil Loading	VOC	22.39	---	14, 17, 18	17, 18, 19, 20, 30	
SHIPLD-4	Ship Dock No. 4 – Fuel Oil Loading	VOC	22.39	---	14, 17, 18	17, 18, 19, 20, 30	
SHIPLD-5	Ship Dock No. 5 – Fuel Oil Loading	VOC	22.39	---	14, 17, 18	17, 18, 19, 20, 30	
BRGDK-2	Barge Dock No. 2	VOC	141.16	---	14, 15, 17, 18	15, 17, 18, 19, 29, 30	

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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**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Cond/Application Information**	**Special Condition/Application Information**
BRGDK-3	Barge Dock No. 3	VOC	22.39	---	14, 15, 17, 18	15, 17, 18, 19, 29, 30	
BRGDK-4	Barge Dock No. 4	VOC	22.39	---	14, 15, 17, 18	15, 17, 18, 19, 29, 30	
BRGDK-5	Barge Dock No. 5	VOC	141.16	---	14, 15, 17, 18	15, 17, 18, 19, 29, 30	
BRGDK-6	Barge Dock No. 6	VOC	22.39	---	14, 15, 17, 18	15, 17, 18, 19, 29, 30	
BRGDK-7	Barge Dock No. 7	VOC	22.39	---	14, 15, 17, 18	15, 17, 18, 19, 29, 30	
MARLDFOCAP	Marine Loading Fuel Oil Cap	VOC	---	72.00		20, 30	
BRGDK-8	Barge Dock No. 8	VOC	22.06	3.44	14, 15, 17, 18	15, 17, 18, 19, 29, 30	
VCU-BRG8	Barge Dock 8 VCU	VOC	3.63	3.95	4, 21, 23, 24, 25	4, 21, 23, 24, 25, 29, 30	4, 24, 25
		NO_x	9.82	12.49			
		CO	9.82	12.49			

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**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Cond/Application Information**	**Special Condition/Application Information**
		SO_2	35.33	5.27			
		PM	0.73	0.93			
		PM_{10}	0.73	0.93			
		$PM_{2.5}$	0.73	0.93			
		H_2S	0.02	0.01			
SHIPLD-1C	Ship Dock No. 1C – Crude Oil Loading	VOC	3.63	---	4, 14, 15, 17, 18	4, 15, 17, 18, 19, 20, 29, 30	4
		H_2S	0.02	---			
SHIPLD-2C	Ship Dock No. 2C – Crude Oil Loading	VOC	3.63	---	4, 14, 15, 17, 18	4, 15, 17, 18, 19, 20, 29, 30	4
		H_2S	0.02	---			
SHIPLD-3C	Ship Dock No. 3C – Crude Oil Loading	VOC	3.63	---	4, 14, 15, 17, 18	4, 15, 17, 18, 19, 20, 29, 30	4
		H_2S	0.02	---			
SHIPLD-4C	Ship Dock No. 4C – Crude Oil Loading	VOC	3.63	---	4, 14, 15, 17, 18	4, 15, 17, 18, 19, 20, 29, 30	4
		H_2S	0.02	---			
SHIPLD-5C	Ship Dock No. 5C – Crude Oil Loading	VOC	3.63	---	4, 14, 15, 17, 18	4, 15, 17, 18, 19, 20, 29, 30	4
		H_2S	0.02	---			

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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**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Cond/Application Information**	**Special Condition/Application Information**
SHLDCRDCAP	Ship Dock Crude Oil Loading Cap	VOC	---	19.99		20, 30	
		H_2S	---	0.02			
TTRC-1	Tank Truck/Railcar 1	VOC	1.79	---		29, 30	
TTRC-2	Tank Truck/Railcar 2	VOC	1.79	---		29, 30	
TTRC-3	Tank Truck/Railcar 3	VOC	1.79	---		29, 30	
TTRCCAP	Tank Truck/Railcar Cap	VOC	---	14.12		29, 30	
FU-4	Fugitive Unit - 28VHP	VOC (5)	2.98	13.00	26, 27	26, 27, 29, 30	26, 27
		H_2S	0.01	0.01			
FU-5	Fugitive Unit - 28LAER	VOC (5)	0.04	0.16	26, 27	26, 27, 29, 30	26, 27
		H_2S	0.01	0.01			
TKMSS	Uncontrolled Tank MSS	VOC	309.13	27.05		29, 30	
		H_2S	4.03	0.35			
MSS-TO	Portable Thermal Oxidizer / Vapor Combustor	VOC	27.22	1.13	11	11, 29, 30	
		NOx	3.00	0.72			
		CO	1.90	0.46			
		SO2	8.31	1.99			

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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
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		PM	0.22	0.05			
		PM10	0.22	0.05			
		PM2.5	0.22	0.05			
		H_2S	0.04	0.01			
VCU-1	VCU-1	VOC	1.94	---	4, 21, 23, 24, 25	4, 21, 23, 24, 25, 29, 30	4, 24, 25, 29
		NO_x	6.24	---			
		CO	6.24	---			
		SO_2	18.93	---			
		PM	3.14	---			
		PM_{10}	3.14	---			
		$PM_{2.5}$	3.14	---			
		H_2S	0.01	---			
VCU-2	VCU-2	VOC	1.94	---	4, 21, 23, 24, 25	4, 21, 23, 24, 25, 29, 30	4, 24, 25, 29
		NO_x	6.24	---			
		CO	6.24	---			

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Cond/Application Information**	**Special Condition/Application Information**
		SO_2	18.93	---			
		PM	3.14	---			
		PM_{10}	3.14	---			
		$PM_{2.5}$	3.14	---			
		H_2S	0.01	---			
VCU-3	VCU-3	VOC	1.94	---	4, 21, 23, 24, 25	4, 21, 23, 24, 25, 29, 30	4, 24, 25, 29
		NO_x	6.24	---			
		CO	6.24	---			
		SO_2	18.93	---			
		PM	0.47	---			
		PM_{10}	0.47	---			
		$PM_{2.5}$	0.47	---			
		H_2S	0.01	---			
VCU-4	VCU-4	VOC	1.94	---	4, 21, 23, 24, 25	4, 21, 23, 24, 25, 29, 30	4, 24, 25, 29
		NO_x	6.24	---			

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		CO	6.24	---			
		SO_2	18.93	---			
		PM	0.47	---			
		PM_{10}	0.47	---			
		$PM_{2.5}$	0.47	---			
		H_2S	0.01	---			
VCU-5	VCU-5	VOC	1.94	---	4, 21, 23, 24, 25	4, 21, 23, 24, 25, 29, 30	4, 24, 25, 29
		NO_x	6.24	---			
		CO	6.24	---			
		SO_2	18.93	---			
		PM	0.47	---			
		PM_{10}	0.47	---			
		$PM_{2.5}$	0.47	---			
		H_2S	0.01	---			
VCU-6	VCU-6	VOC	1.94	---	4, 21, 23, 24, 25	4, 21, 23, 24, 25, 29,	4, 24, 25, 29

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		NO_x	6.24	---		30	
		CO	6.24	---			
		SO_2	18.93	---			
		PM	0.47	---			
		PM_{10}	0.47	---			
		$PM_{2.5}$	0.47	---			
		H_2S	0.01	---			
VCU-7	VCU-7	VOC	1.94	---	4, 21, 23, 24, 25	4, 21, 23, 24, 25, 29, 30	4, 24, 25, 29
		NO_x	6.24	---			
		CO	6.24	---			
		SO_2	18.93	---			
		PM	0.47	---			
		PM_{10}	0.47	---			
		$PM_{2.5}$	0.47	---			
		H_2S	0.01	---			

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
VCU-8	VCU-8	VOC	1.94	---	4, 21, 23, 24, 25	4, 21, 23, 24, 25, 29, 30	4, 24, 25, 29
		NO_x	6.24	---			
		CO	6.24	---			
		SO_2	18.93	---			
		PM	0.47	---			
		PM_{10}	0.47	---			
		$PM_{2.5}$	0.47	---			
		H_2S	0.01	---			
VCU Cap	VCU Cap	VOC	---	19.97		29, 30	
		NO_x	---	74.75			
		CO	---	74.75			
		SO_2	---	32.66			
		PM	---	13.57			
		PM_{10}	---	13.57			
		$PM_{2.5}$	---	13.57			

Major NSR Summary Table

Permit Numbers: 5783 and N57M2					Issuance Date: November 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		H_2S	---	0.02			

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
H_2S - 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.

Major NSR Summary Table

Permit Number: PAL52		Issuance Date: January 30, 2024		
POLLUTANT	**Final PAL (tpy)**	**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
		Special Condition/Application Information	**Special Condition/Application Information**	**Special Condition/Application Information**
NO_x	69.78	5, 6, 11, 12	2, 4, 5, 6, 9, 12, 14	1, 12, 15
VOC	178.07	5, 6, 11, 12	2, 4, 5, 6, 7, 8, 9, 12, 14	1, 12, 15

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
HFOTCO LLC
Authorizing the Construction and Operation of
Houston Terminal
Located at **Houston, Harris County, Texas**
Latitude 29.754722 Longitude -95.112222

Permits: 5783 and N57M2

Revision Date: November 28, 2023

Expiration Date: April 18, 2033

For the Commission

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

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

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

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

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius
°F = Temperature in degrees Fahrenheit
°K = Temperature in degrees Kelvin
µg = microgram
µg/m^3 = microgram per cubic meter
acfm = actual cubic feet per minute
AMOC = alternate means of control
AOS = alternative operating scenario
AP-42 = Air Pollutant Emission Factors, 5th edition
APD = Air Permits Division
API = American Petroleum Institute
APWL = air pollutant watch list
BPA = Beaumont/ Port Arthur
BACT = best available control technology
BAE = baseline actual emissions
bbl = barrel
bbl/day = barrel per day
bhp = brake horsepower
BMP = best management practices
Btu = British thermal unit
Btu/scf = British thermal unit per standard cubic foot or feet
CAA = Clean Air Act
CAM = compliance-assurance monitoring
CEMS = continuous emissions monitoring systems
cfm = cubic feet (per) minute
CFR = Code of Federal Regulations
CN = customer ID number
CNG = compressed natural gas
CO = carbon monoxide
COMS = continuous opacity monitoring system
CPMS = continuous parametric monitoring system
DFW = Dallas/ Fort Worth (Metroplex)
DE = destruction efficiency
DRE = destruction and removal efficiency
dscf = dry standard cubic foot or feet
dscfm = dry standard cubic foot or feet per minute
ED = (TCEQ) Executive Director
EF = emissions factor
EFR = external floating roof tank
EGU = electric generating unit
EI = Emissions Inventory
ELP = El Paso
EPA = (United States) Environmental Protection Agency
EPN = emission point number
ESL = effects screening level
ESP = electrostatic precipitator
FCAA = Federal Clean Air Act
FCCU = fluid catalytic cracking unit
FID = flame ionization detector
FIN = facility identification number
ft = foot or feet
ft/sec = foot or feet per second
g = gram
gal/wk = gallon per week
gal/yr = gallon per year
GLC = ground level concentration
GLC_{max} = maximum (predicted) ground-level concentration
gpm = gallon per minute
gr/1000scf = grain per 1000 standard cubic feet
gr/dscf = grain per dry standard cubic feet
H_2CO = formaldehyde
H_2S = hydrogen sulfide
H_2SO_4 = sulfuric acid
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
HC = hydrocarbons
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/Brazoria
hp = horsepower
hr = hour
IFR = internal floating roof tank
in H_2O = inches of water
in Hg = inches of mercury
IR = infrared
ISC3 = Industrial Source Complex, a dispersion model
ISCST3 = Industrial Source Complex Short-Term, a dispersion model
K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
LACT = lease automatic custody transfer
LAER = lowest achievable emission rate
lb = pound
lb/day = pound per day
lb/hr = pound per hour
lb/MMBtu = pound per million British thermal units
LDAR = Leak Detection and Repair (Requirements)
LNG = liquefied natural gas
LPG = liquefied petroleum gas
LT/D = long ton per day
m = meter
m^3 = cubic meter
m/sec = meters per second
MACT = maximum achievable control technology
MAERT = Maximum Allowable Emission Rate Table
MERA = Modeling and Effects Review Applicability
mg = milligram
mg/g = milligram per gram
mL = milliliter
MMBtu = million British thermal units
MMBtu/hr = million British thermal units per hour
MSDS = material safety data sheet
MSS = maintenance, startup, and shutdown
MW = megawatt
NAAQS = National Ambient Air Quality Standards
NESHAP = National Emission Standards for Hazardous Air Pollutants
NGL = natural gas liquids
NNSR = nonattainment new source review
NO_x = total oxides of nitrogen
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 PM_{10} and $PM_{2.5}$, as represented
$PM_{2.5}$ = particulate matter equal to or less than 2.5 microns in diameter
PM_{10} = 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
SO_2 = 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 5783 and N57M2

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 conditions specified in this permit.

2. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing volatile organic compounds (VOC) at a concentration 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 Dc: Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units,

   C. Subpart Ka: Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984, and

   D. Subpart Kb: Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.

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 Y: National Emission Standards for Marine Tank Vessel loading operations

Operational Limitations

5. Boilers and Hot Oil Heaters are subject to the following requirements:

   A. The boilers (Emission Point Units [EPNs] B-101 through B-108 and B-201 through B-210) and hot oil heaters (EPNs H-101 and H-102) shall be fired with pipeline natural gas containing no more than 5 grains of total sulfur per 100 dry standard cubic feet (dscf).

   B. Boilers B-101 through B-104 are limited to firing no more than 25 Million British Thermal Units per hour (25 MMBtu/hr) based on the higher heating value (HHV) of the fuel and all boilers combined are limited to firing 876,000 MMBtu/yr (HHV) per rolling 12-month average.

C. Boilers B-105 through B-108 and B-201 through B-210 are limited to firing no more than 12.4 Million British Thermal Units per hour (12.4 MMBtu/hr) based on the higher heating value (HHV) of the fuel and all boilers combined are limited to firing 1,520,736 MMBtu/yr (HHV) per rolling 12-month average.

D. Each hot oil heater is limited to firing no more than 10.2 MMBtu/hr based on the HHV of the fuel and both heaters combined are limited to firing 178,704 MMBtu/yr (HHV) per rolling 12-month average.

E. The pipeline natural gas shall be sampled at least every 6 months to determine total sulfur and net heating value. Test results from the fuel supplier may be used to satisfy this requirement.

Storage Tanks

6. The service of the tanks included in the emissions cap of 105.00 tons per year (tpy) of VOC (EPNs T10-1, T13-1, T13-2, T20-1 through T20-4, T30-1 through T30-6, T30-11 through T30-19, T37-1, T37-2, T38-1, T80-1 through T80-38, T90-1, T90-2, T95-1, T95-2, T100-1 through T100-25, T175-1 through T175-4, T200-1 through T200-9, T220-1, T250-5 through T250-8, T325-1 and T325-2) is limited to the storage of chemicals appearing on the attached list entitled "Approved Chemicals for Storage" or chemicals that are authorized by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106), Permits by Rule. Storage of other chemicals is prohibited unless prior approval for such storage is obtained from the Executive Director of the Texas Commission on Environmental Quality (TCEQ).

7. Except as specified in Special Condition No. 6, storage tank service is limited to the following:

Table 1. Storage Tank Content

Storage Tank ID	Content*
T10-1, T13-1, T13-2, T20-1 through T20-4, T30-1 through T30-4, T30-11, T30-12, T30-15, T30-18, T30-19, T37-1, T37-2, T38-1, T80-20 through T80-22, T80-35	Ultra-Light Distillate and Fuel Oils
T10-1, T13-1, T13-2, T20-1 through T20-4, T30-1 through T30-6, T30-11 through T30-19, T37-1, T37-2, T38-1, T80-1 through T80-38, T90-1, T90-2, T95-1, T95-2, T100-1 through T100-25, T175-1 through T175-4, T200-1 through T200-9, T220-1, T250-5 through T250-8, T325-1, T325-2	Fuel Oils
T250-1 through T250-4, T250-9, T266-1, T266-2, T325-1, T400-1 through T400-7, T400-9 through T400-13, T-A24-1, T-A26-1 through T-A26-4 (**11/23**)	Crude Oil

*Ultra-Light Distillates include fuel oil cutter stocks that have a vapor pressure greater than typical petroleum distillates but less than 0.5 psia. Fuel Oils include all petroleum distillates and fuel oils grouped into one of the following categories: kerosene/jet fuel, fuel oil No. 2 (diesel), fuel oil with cutter (fuel oils blended with cutter stock) or residual fuel oil.

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

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

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

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

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

E. The following apply to the new tanks authorized in the 2017 permit action (EPNs T250-9, T400-11, T400-12, and T400-13) and the 2021 permit action (EPNs T-A24-1, T-A26-1, T-A26-2, T-A26-3, and T-A26-4) (**11/23**):

(1) Each tank shall be designed and constructed with a sloped bottom and a sump that can be emptied so that each floating roof storage tank is drain dry when the floating roof is landed on its leg supports or cable-suspended at its lowest level. Drain-dry tank bottom and the associated sump(s) shall be designed in accordance with API 650 to minimize free-standing liquids in the tank to the extent practical.

(2) Tanks shall be constructed or equipped with a connection to a vapor recovery system that routes vapors from the vapor space under the landed roof to a control device.

F. Except for labels, logos, etc. not to exceed 15 percent of the tank total surface area, uninsulated tank exterior surfaces exposed to the sun shall be white or unpainted aluminum. Uninsulated tank roofs of partially insulated heated tanks may be painted black. Storage tanks must be equipped with permanent submerged fill pipes.

G. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all storage tanks during the previous calendar month and the past consecutive 12-month period. The record shall include tank identification number, control method used, tank capacity in gallons, name of the material stored, VOC molecular weight, VOC monthly average temperature in degrees Fahrenheit, VOC vapor pressure at the monthly average material temperature in psia, VOC throughput for the previous month and year-to-date. Records of VOC monthly average temperature are not required to be kept for unheated tanks which receive liquids that are at or below ambient temperatures.

Emissions from tanks shall be calculated using the methods from AP-42 Chapter 7.1 that were used to determine the MAERT limits in the permit applications. Sample calculations from the application shall be attached to a copy of this permit at the plant site.

Crude Oil Storage Tank Floating Roof Controls

9. This permit authorizes emissions from EPN MSS-TO (associated with Crude Oil Storage Tanks as identified in Special Condition No. 7) during planned crude oil storage tank floating roof landings. Tank roof landings include all operations when the tank floating roof is on its supporting legs or cable-suspended at its lowest level. These emissions are subject to the maximum allowable emission rates indicated in the MAERT. The following requirements apply to tank roof landings.

A. At all times that the roof is resting on its leg supports or cable-suspended at its lowest level, the tank emissions shall be controlled by a closed vent system and control device meeting the following specifications:

(1) The closed vent system shall be designed to collect all VOC vapors and gases discharged from the storage vessel and operated with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background and visual inspections, as determined in part 60, subpart VV, § 60.485(b).

(2) 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. When the tank is idle or the tank is being drained at a rate less than 500 bbl/hr, the vapor recovery system collection rate shall be no less than 100 cubic feet per minute. The liquid level may be maintained steady for a period of up to one hour if necessary to allow for valve lineups and pump changes necessary to drain the tank. When the tank is being refilled, the vapor recovery system collection rate shall be no less than two times the fill rate.

(3) The control device shall be operated as required by Special Condition No. 11.

The roof shall be landed on its lowest legs or cable-suspended at its lowest level unless entry or inspection is planned.

The requirements of this paragraph do not apply to uncontrolled degassing and/or ventilation conducted pursuant to paragraphs B–E of this Special Condition.

B. After the tank has been completely emptied, the tank shall not be opened except as necessary to set up for degassing and cleaning. Floating roof tanks with liquid capacities less than 100,000 gallons may be degassed without control if the VOC partial pressure of the standing liquid in the tank has been reduced to less than 0.02 psia prior to ventilating the tank. Controlled degassing of the vapor space under the landed roof shall be completed as follows:

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

gas/vapor flow out of the vapor space under the floating roof when degassing to the control device or controlled recovery system.

(2) The vapor space under the floating roof shall be vented using good engineering practice to ensure air contaminants are flushed out of the tank through the control device or controlled recovery system to the extent allowed by the storage tank design.

(3) A volume of purge gas equivalent to twice the volume of the vapor space under the floating roof must have passed through the control device or into a controlled recovery system, before the vent stream may be sampled to verify acceptable VOC concentration. The measurement of purge gas volume shall not include any make-up air introduced into the control device or recovery system. The VOC sampling and analysis shall be performed as specified in Special Condition No. 10.

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

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

C. The tank shall not be opened or ventilated without control, except as allowed below until one of the criteria in paragraph D of this condition is satisfied.

(1) Minimize air circulation in the tank vapor space.

(a) One manway may be opened to allow access to the tank to remove or de-volatilize the remaining liquid. Other manways or access points may be opened as necessary to remove or de-volatilize the remaining liquid. Wind barriers shall be installed at all open manways and access points to minimize air flow through the tank.

(b) Access points shall be closed when not in use.

D. The tank may be opened without restriction and ventilated without control after all standing liquid has been removed from the tank or the liquid remaining in the tank has a VOC partial pressure of less than 0.02 psia. These criteria shall be demonstrated in 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 that the hexane soluble VOC concentration is less than 1000 ppmw using EPA method 1664.

(c) Stop ventilation and close the tank for at least 24 hours. When the tank manway is opened after this period, verify that the VOC concentration is less than 1000 ppmw through the procedure in Special Condition No. 10.

(3) No standing liquid verified through visual inspection.

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

E. 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 (as applicable):

(1) The identification of the tank and emission point number, and any control devices or controlled 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 practicable;

(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 psia.

(e) If there is liquid in the tank, VOC partial pressure of liquid, start and completion of uncontrolled degassing, and total volumetric flow;

(f) Refilling commenced, liquid filling the tank, and the volume necessary to float the roof; and

(g) Tank roof off supporting legs, floating on liquid.

(4) The estimated quantity of each air contaminant, or mixture of air contaminants, emitted between events (c) and (g) with the data and methods used to determine it. The emissions associated with roof landing activities shall be calculated using the methods described in Section 7.1.3.3 and 7.1.3.4 of AP-42 “Compilation of Air Pollution Emission Factors, Chapter 7—Storage of Organic Liquids” dated March 2020 (or later edition) and the permit application.

F. Tanks T400-1 through T400-5 are authorized to undergo five uncontrolled tank landings and subsequent refilling activities associated with product changes every year, until vapor poles are installed during the next scheduled tank inspection. The vapor poles must be installed, or the tanks must be taken out of service by December 31, 2028.

G. Only one of the five tanks (EPNs T400-1 through T400-5) shall undergo uncontrolled tank refilling activity at any given time.

10. 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.

(2) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording VOC concentration each minute. As an alternative the VOC concentration may be monitored over a five-minute period with an instrument designed to continuously measure concentration and record the highest concentration read. The highest measured VOC concentration shall be recorded and shall not exceed the specified VOC concentration limit prior to uncontrolled venting.

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

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

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

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

measured contaminant concentration (ppmv) < release concentration.

Where the release concentration is:

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

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

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

C. Lower explosive limit 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.

Portable Control Devices

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

A. 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.

B. Except as provided in Special Condition No. 9.F, during tank degassing and refilling, crude oil storage tanks as identified in Special Condition No. 7 shall vent through a portable thermal oxidizer or vapor combustor (EPN MSS-TO).

C. No more than two portable thermal oxidizers or vapor combustors shall operate simultaneously at any time.

D. Thermal oxidizer (EPN MSS-TO)

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

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

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

E. Vapor Combustor (EPN MSS-TO)

(1) The vapor combustor shall achieve a destruction efficiency of 99% of the waste gas streams directed to it.

(2) The temperature in, or immediately downstream of the combustion chamber of the vapor combustor shall be maintained at not less than 1400°F. The temperature monitor 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 ±2 percent of the temperature being measured expressed in degrees Celsius or ±2.5ºC.

(3) The vapor combustor shall be operated with no visible emissions and shall have a constant pilot flame during all times waste gas could be directed to it.

F. The following requirements apply to the capture systems for the portable thermal oxidizer or vapor combustor (EPN MSS-TO).

(1) At initial set up, conduct a visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or 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.

(2) 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 during all times waste gas could be directed to it:

(a) Install a flow indicator that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or

(b) Inspect the valves, verifying that the position of the valves and the condition of the car seals that prevent flow out the bypass.

(3) The date and results of each inspection performed shall be recorded. If the results of any inspection are not satisfactory, the deficiencies shall be recorded and the permit holder shall promptly take necessary corrective action, recording each action with the date completed.

Marine Loading Operations

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

Table 2. Tank Truck, Rail Car, and Marine Loading Content and Throughput

Loading	Content*	Throughput (bbl/hr)
TTRC-1	Fuel Oils	1,000
TTRC-2	Fuel Oils	1,000
TTRC-3	Fuel Oils	1,000
SHIPLD-1	Fuel Oils	30,000
SHIPLD-2	Fuel Oils	30,000
SHIPLD-3	Fuel Oils	30,000
SHIPLD-4	Fuel Oils	30,000
SHIPLD-5	Fuel Oils	30,000
SHIPLD-1C	Crude Oil	35,000
SHIPLD-2C	Crude Oil	35,000
SHIPLD-3C	Crude Oil	35,000
SHIPLD-4C	Crude Oil	35,000
SHIPLD-5C	Crude Oil	35,000
BRGDK-2	Fuel Oils	15,000
	Ultra-Light Distillate	5,000
BRGDK-3	Fuel Oils	15,000
BRGDK-4	Fuel Oils	15,000
BRGDK-5	Fuel Oils	15,000
	Ultra-Light Distillate	5,000
BRGDK-6	Fuel Oils	15,000
BRGDK-7	Fuel Oils	15,000
BRGDK-8	Crude Oil	14,000
	Naphtha	14,000
	Fuel Oils	15,000

*Fuel oils as defined in Special Condition No. 7.

13. Crude Oil and Fuel Oil Loading is limited as follows:

A. Simultaneous loading of crude oil shall not occur at Ship Docks 2 and 3 (EPNs SHIPLD-2C and SHIPLD-3C) at any time.

B. Crude oil with a vapor pressure greater than 11.00 psia shall not be stored on site or loaded onto ships.

C. Fuel oil loading at Barge Dock 4 is limited to one barge at any time.

D. Simultaneous loading of a single fuel oil product, as defined in Special Condition No. 7, at each barge dock shall be limited to a total maximum hourly loading rate of 15,000 bbl/hr.

E. Simultaneous loading of multiple fuel oil products, as defined in Special Condition No. 7, at each barge dock shall be limited to a maximum hourly loading rate of 10,000 bbl/hr for each product.

F. Loading of ultra-light distillates, as defined in Special Condition No. 7, shall only occur at either barge dock 2 or 5 (EPNs BRGDK-2 and BRGDK-5).

14. All loading 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.

15. Except when loading inerted ocean going vessels, a blower system shall be installed in the lines associated with and on Ship Dock Nos. 1, 2, 3, 4, and/or 5 (EPNs SHIPLD-1C, SHIPLD-2C, SHIPLD-3C, SHIPLD-4C, and/or SHIPLD-5C) when loading crude oil into barges which will produce a vacuum in the cargo tank during all loading operations. A pressure/vacuum gauge shall be installed on the suction side of the blower system adjacent to the vessel 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 vessels. The vacuum shall be recorded every 15 minutes during loading.

16. Loading emissions of crude oil shall be collected from each vessel cargo tank being filled and vented to a vapor combustor that achieves 99.9% control efficiency in compliance with Special Condition No. 21.

Requirements for Testing the Collection Efficiency of Inerted Ocean-going Vessels

17. 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 vessels' 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 once every 8 hours 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%.

(4) An optical gas imaging instrument as defined in 30 TAC 115.358 may be used in addition to the audio, olfactory, and visual checks to identify leaks.

(5) 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.

Compliance with Emission Rate Limits for Marine Loading Activities

18. The vapor pressure of the material being loaded into inerted ocean-going vessels shall be tested at the highest vapor pressure expected to occur during the loading event. The highest vapor pressure reading shall be used to calculate emission rates. A vapor pressure test shall be conducted at least once per loading activity.

    Or;

    In lieu of the testing requirement described above, vapor pressure data provided by the owner of the crude oil can be recorded per loading activity. The vapor pressure shall be used to calculate emission rates as represented in the application with PI-1 dated December 16, 2020 and subsequent submittals.

19. The permit holder shall maintain and update a monthly emissions record which includes calculated emissions of VOC from all loading operations over the previous rolling 12-month period. The record shall include the loading spot, control method used, quantity loaded in gallons, name of the liquid loaded, vapor molecular weight, liquid temperature in degrees Fahrenheit, liquid vapor pressure at the liquid temperature in psia, liquid throughput for each loading activity 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 method represented in the application with PI-1 dated December 16, 2020 and subsequent submittals. Sample calculations from the application shall be attached to a copy of this permit at the terminal.

20. Records of all testing conducted must be maintained for a period of 5 years. These records must be made available upon request by authorized representatives of the TCEQ, Air Permits Division or the Office of Compliance and Enforcement.

Vapor Combustor Unit (VCU) Specifications

21. The vapor combustors shall be designed and operated to achieve either a destruction efficiency of 99.9% of the waste gas streams directed to them or a maximum VOC exhaust concentration of 10 parts per million by volume (ppmv) on a dry basis, corrected to 3 percent oxygen. This shall be ensured by maintaining the temperature in, or immediately downstream of, the combustion chamber above 1500º F prior to the initial stack test performed in accordance with Special

Condition No. 25. 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.

A. 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 ±2.5ºC.

B. 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.

22. Emissions from the vapor combustors shall not exceed 0.1 lb NO_x/MMBtu. Compliance with this shall be demonstrated through the Initial Compliance testing required by Special Condition No. 25.

23. The vapor combustors 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 performed at a frequency in accordance with, the manufacturer’s specifications.

24. The following requirements apply to capture systems for the vapor combustion units (EPNs VCU-1, VCU-2, VCU-3, VCU-4, VCU-5, VCU-6, VCU-7, and VCU-8).

A. The permit holder shall comply with the following:

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

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

Initial Demonstration of Compliance

25. The permit holder shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from EPNs VCU-1, VCU-2, VCU-3, VCU-4, VCU-5, VCU-6, VCU-7, and VCU-8 to demonstrate compliance with the MAERT and with either a 99.9 weight percent VOC destruction efficiency or maximum VOC exhaust gas concentration limit of 10 ppmv on a dry basis, corrected to 3 percent oxygen. The permit holder is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and the U.S. Environmental Protection Agency (EPA) Reference Methods.

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

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

(1) Proposed date for pretest meeting.

(2) Date sampling will occur.

(3) Name of firm conducting sampling.

(4) Type of sampling equipment to be used.

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

(6) Description of any proposed deviation from the sampling procedures specified in this permit or TCEQ/EPA sampling procedures.

(7) Procedure/parameters to be used to determine worst case during the sampling period.

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

B. Air contaminants emitted from EPNs VCU-1, VCU-2, VCU-3, VCU-4, VCU-5, VCU-6, VCU-7, and VCU-8 to be tested for include (but are not limited to) nitrogen oxides (NO_x), sulfur dioxides (SO_2), carbon monoxide (CO), and volatile organic compounds (VOCs).

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

D. The facility being sampled shall operate at maximum throughput rate during stack emission testing. These conditions/parameters and any other primary operating parameters that affect the emission rate shall be monitored and recorded during the stack test. Any additional parameters shall be determined at the pretest meeting and shall be stated in the sampling report. Permit conditions and parameter limits may be waived during stack testing performed under this condition if the proposed condition/parameter range is identified in the test notice specified in paragraph A and accepted by the TCEQ Regional Office. Permit allowable emissions and emission control requirements are not waived and still apply during stack testing periods.

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

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

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

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

F. Sampling ports and platform(s) shall be incorporated into the design of EPNs VCU-1, VCU-2, VCU-3, VCU-4, VCU-5, VCU-6, VCU-7, and VCU-8 according to the specifications set forth in the manual entitled “Chapter 2, Guidelines for Stack Sampling Facilities” of the TCEQ Sampling Procedures Manual. Alternate sampling facility designs must be submitted for approval to the TCEQ Regional Director.

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

26. 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 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:

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

Where:

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

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

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

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

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

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

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

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

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

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

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

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

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

H. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.

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

J. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standard (NSPS), or an applicable National Emission Standard for Hazardous Air Pollutants

(NESHAPS), and does not constitute approval of alternative standards for these regulations.

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

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

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

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

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

Where:

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

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

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

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

M. Any component found to be leaking by physical inspection (i.e., sight, sound, or smell) shall be repaired or monitored with an approved gas analyzer within 15 days to determine whether the component is leaking in excess of 500 ppmv of VOC. If the component is found to be leaking in excess of 500 ppmv of VOC, it shall be subject to the repair and replacement requirements contained in this special condition.

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

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

A. The requirements of paragraphs F and G shall not apply (1) where the Volatile Organic Compound (VOC) has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68ºF 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 30 TAC Chapter 115, shall be identified in a list to be made readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified may instead be monitored annually.

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

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

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

(2) the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once within the 72 hour period following the creation of the open ended line and monthly thereafter with an approved gas

analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 500 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

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

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

The gas analyzer shall conform to requirements listed in Method 21 of 40 CFR Part 60, Appendix A. The gas analyzer shall be calibrated with methane. In addition, the response factor of the instrument for a specific VOC of interest shall be determined and meet the requirements of Section 8 of Method 21. If a mixture of VOCs is being monitored, the response factor shall be calculated for the average composition of the process fluid. A calculated average is not required when all of the compounds in the mixture have a response factor less than 10 using methane. If a response factor less than 10 cannot be achieved using methane, then the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured. Replacements for leaking components shall be re-monitored within 15 days of being placed back into VOC service.

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

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

I. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging within 15 days of the

detection of the leak. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shut down as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shut down or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.

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

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

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

M. Fugitive components in natural gas service are exempt from the monitoring requirements specified in Paragraphs E, F, and G.

Sampling

28. Upon request by the Executive Director of the TCEQ or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuel(s) utilized in these facilities or shall allow air pollution control agency representatives to obtain a sample for analysis.

Recordkeeping Requirements

29. The following records (written or electronic) shall be kept at the plant for the life of the permit. All records required in this permit shall be made available at the request of personnel from the TCEQ, EPA, or any local air pollution control program having jurisdiction:

A. A copy of this permit.

B. Permit application dated August 20, 2013, and subsequent applications and representations submitted to the TCEQ.

C. A complete copy of the testing reports and records of the initial performance testing completed to demonstrate initial compliance.

D. Stack sampling results or other air emissions testing that may be conducted on units authorized under this permit after the date of issuance of this permit, amended September 2, 2016.

30. The following records shall be maintained by the holder of this permit in a form suitable for inspection for a period of five years after collection and shall be made available upon request to representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction:

A. Records of fuel usage for boilers to show compliance with Special Condition No. 5.

B. Records of each storage tank's contents as required by Special Condition No. 7.

C. Storage tank records as required by Special Condition No. 8:

(1) Records of visual inspections and seal gap measurements to verify fitting and seal integrity as required by Special Condition No. 8.C.

(2) Records of calculated VOC emissions from all storage tanks during the previous calendar month and the past consecutive 12-month period as required by Special Condition No. 8.G.

D. Records of tank roof landings and associated emissions as required by Special Condition No. 9.E.

E. Records of portable vapor combustor or thermal oxidizer monitoring as required by Special Condition No. 11.

F. Records of water column vacuum pressure recorded every 15 minutes during loading as required by Special Condition No. 15.

G. Records of pressure at the vapor recovery connection of an inerted ocean-going vessel while the vessel is being loaded, as required by Special Condition No. 17.B.

H. Records of monthly calculated VOC emissions from all loading operations over the previous rolling 12-month period. Using the method represented in the application with PI-1 dated December 16, 2020 and subsequent submittals. Sample calculations from the application shall be attached to a copy of this permit at the terminal as required by Special Condition No. 19.

I. Records of time, date, and duration of any loss of pilot flame shall be recorded as required by Special Condition No. 23.

J. Records of VCU inspections as required by Special Condition No. 24.

K. Records of repairs to piping, valves, pumps, agitators, and compressors subject to 28LAER or 28VHP shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates, times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent as required by Special Condition Nos. 26.I and 27.J.

Permits by Rule Authorizations

31. The following facilities at the site are authorized by permit by rule (PBR) under 30 TAC Chapter 106. This authorization is listed here for reference purposes only.

Facilities	Registration Number	Rule Number
Maintenance, Startup, and Shutdown Emissions	---	106.263

Offset Conditions

32. 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.

33. The permit holder shall use VOC emission reduction credits (ERCs) from TCEQ credit certificate number 2947 to offset the 7.9 tpy project emission increase for the following facilities, at a ratio of 1.3 to 1. (**11/23)**

TCEQ Project Nos.	Project Description	Facilities	Emissions Increases (tpy VOC)	Credits (tpy VOC)
186863	Crude Oil Loading	SHIPLD-3C, VCU-1, VCU-2, FU-5	3.2	4.2
230308/ 230311	Increased Crude Oil Loading, NNSR	SHIPLD-1C, SHIPLD-2C, SHIPLD-3C, VCU-1, VCU-2, VCU-3, VCU-4, FU-5	4.7	6.1
	2014/2016 Project Totals	Project Nos. 186863, 230308/230311	7.9	10.3

34. The permit holder shall use VOC ERCs from TCEQ credit certificate numbers 2783, 2939, 2985, 3054, and 3059 to offset the 38.49 tpy project emission increase for the following facilities, at a ratio of 1.3 to 1. (**11/23**)

TCEQ Project Nos.	Project Description	Facilities	Emissions Increases (tpy VOC)	Credits (tpy VOC)
248146/ 248153	Increased Crude Oil Tanks and Loading, NNSR,	SHIPLD-1C, SHIPLD-2C, SHIPLD-3C, VCU-1, VCU-2, VCU-3, VCU-4, T250-3, T250-4,	29.0	37.7

	Phase I	T266-1, T266-2, TANKMSS-C, FU-5		
	Phase II	T400-11, T400-12, T400-13, T250-9,	9.49	12.4
	2017 Project Total	Project Nos. 248146/248153	38.49	50.1[a]

[a] A total of 62.9 tpy of VOC ERCs were used from credit certificate numbers 2783, 2939, 2985, 3054, and 3059 in EBT Project Number 411783 (application submitted February 13, 2017). Per 30 Texas Administrative Code §101.306(c)(1)(C), the date the intent to use ERCs application is submitted will be considered the date the ERCs are used. Subsequent revisions to Permit Numbers 5783 and N57M2 will not alter the amount of ERCs used in ERC intent to use project number 411783.

Date: November 28, 2023

ATTACHMENT A
Permit Number 5783 and N57M2
Approved Chemicals for Storage

Acetal
Acetone
Acetonitrile
Amyl Acetate
Amyl Alcohol
Butyl Acetate
Butyl Alcohol
Butyl Ether
Butyl Formate
Butyronitrile
Cellosolves
Cellosolve Acetates
Chlorobenzene
Crude Oil
Crude Oil Condensates
Cyclohexane
Cyclohexene
Cyclopentane
Cyclopentanol
Cyclopentanone
Cyclopentene
Diethyl Ketone
Dipropyl Ketone
Ethyl Acetate
Ethyl Alcohol
Ethyl Benzene
Ethyl Butyrates
Ethyl Cyclohexane
Ethyl Cyclopentane
Ethyl Formate
Ethyl Hexane
Ethyl Methacrylate
Ethyl Pentane
Ethyl Propionate
Fuel Oil
Gasoline
Gasoline Additives
Heptane
Heptene
Hexane
Hexene
Hexanone
Isobutyl Acetate
Isobutyl Alcohol
Isobutyl
Isobutyrate
Isohexane
Isooctane
Isopropyl Acetate
Isopropyl Alcohol
Isopropyl Ether
Mesityl Oxide
Methyl Acetate
Methyl Alcohol
Methyl Amyl Alcohol
Methyl Butyrate
Methyl Cyclohexane

Methyl Cyclopentane
Methyl Ethyl Ketone
Methyl Heptane
Methyl Hexane
Methyl Isoamyl Ketone
Methyl Isobutyl Ketone
Methyl Isopropyl Ketone
Methyl Methacrylate
Methyl Pentane
Methyl Propionate
Methyl Propyl Ketone
Naphtha
Natural Gas Condensate
Neohexane
Octane
Octene
Propyl Acetate
Propyl Alcohol
Propyl Formate
Propyl Propionate
Refinery Petroleum Products containing less than 10 percent benzene
Toluene
Vinyl Acetate
Varsol
Xylene

Date: November 28, 2023

Emission Sources - Maximum Allowable Emission Rates
Permit Numbers 5783 and N57M2

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)
B-101	Boiler	NO_x	0.71	3.12
		CO	0.01	0.01
		SO_2	0.01	0.06
		PM	0.19	0.82
		PM_{10}	0.19	0.82
		$PM_{2.5}$	0.19	0.82
		VOC	0.13	0.59
B-102	Boiler	NO_x	0.78	3.39
		CO	0.01	0.01
		SO_2	0.01	0.06
		PM	0.19	0.82
		PM_{10}	0.19	0.82
		$PM_{2.5}$	0.19	0.82
		VOC	0.13	0.59
B-103	Boiler	NO_x	0.53	2.30
		CO	0.31	1.36
		SO_2	0.01	0.06
		PM	0.19	0.82
		PM_{10}	0.19	0.82
		$PM_{2.5}$	0.19	0.82
		VOC	0.13	0.59

Emission Sources - Maximum Allowable Emission Rates

B-104	Boiler	NO_x	0.55	2.41
		CO	0.50	2.19
		SO_2	0.01	0.06
		PM	0.19	0.82
		PM_{10}	0.19	0.82
		$PM_{2.5}$	0.19	0.82
		VOC	0.13	0.59
B-105	Boiler	NO_x	0.26	1.14
		CO	0.08	0.35
		SO_2	0.01	0.03
		PM	0.09	0.40
		PM_{10}	0.09	0.40
		$PM_{2.5}$	0.09	0.40
		VOC	0.07	0.29
B-106	Boiler	NO_x	0.26	1.14
		CO	0.07	0.31
		SO_2	0.01	0.03
		PM	0.09	0.40
		PM_{10}	0.09	0.40
		$PM_{2.5}$	0.09	0.40
		VOC	0.07	0.29

Emission Sources - Maximum Allowable Emission Rates

B-107	Boiler	NO_x	0.24	1.03
		CO	0.05	0.23
		SO_2	0.01	0.03
		PM	0.09	0.40
		PM_{10}	0.09	0.40
		$PM_{2.5}$	0.09	0.40
		VOC	0.07	0.29
B-108	Boiler	NO_x	0.24	1.03
		CO	0.07	0.30
		SO_2	0.01	0.03
		PM	0.09	0.40
		PM_{10}	0.09	0.40
		$PM_{2.5}$	0.09	0.40
		VOC	0.07	0.29
B-201	Boiler	NO_x	0.27	1.19
		CO	0.07	0.33
		SO_2	0.01	0.03
		PM	0.09	0.4
		PM_{10}	0.09	0.4
		$PM_{2.5}$	0.09	0.4
		VOC	0.07	0.29

Emission Sources - Maximum Allowable Emission Rates

B-202	Boiler	NO_x	0.23	1.02
		CO	0.24	1.03
		SO_2	0.01	0.03
		PM	0.09	0.4
		PM_{10}	0.09	0.4
		$PM_{2.5}$	0.09	0.4
		VOC	0.07	0.29
B-203	Boiler	NO_x	0.26	1.15
		CO	0.14	0.6
		SO_2	0.01	0.03
		PM	0.09	0.4
		PM_{10}	0.09	0.4
		$PM_{2.5}$	0.09	0.4
		VOC	0.07	0.29
B-204	Boiler	NO_x	0.20	0.89
		CO	0.06	0.27
		SO_2	0.01	0.03
		PM	0.09	0.4
		PM_{10}	0.09	0.4
		$PM_{2.5}$	0.09	0.4
		VOC	0.07	0.29

Emission Sources - Maximum Allowable Emission Rates

B-205	Boiler	NO_x	0.28	1.21
		CO	0.12	0.54
		SO_2	0.01	0.03
		PM	0.09	0.4
		PM_{10}	0.09	0.4
		$PM_{2.5}$	0.09	0.4
		VOC	0.07	0.29
B-206	Boiler	NO_x	0.16	0.71
		CO	0.07	0.33
		SO_2	0.01	0.03
		PM	0.09	0.4
		PM_{10}	0.09	0.4
		$PM_{2.5}$	0.09	0.4
		VOC	0.07	0.29
B-207	Boiler	NO_x	0.09	0.38
		CO	0.09	0.38
		SO_2	0.01	0.03
		PM	0.09	0.4
		PM_{10}	0.09	0.4
		$PM_{2.5}$	0.09	0.4
		VOC	0.07	0.29

Emission Sources - Maximum Allowable Emission Rates

B-208	Boiler	NO_x	0.19	0.83
		CO	0.09	0.38
		SO_2	0.01	0.03
		PM	0.09	0.4
		PM_{10}	0.09	0.4
		$PM_{2.5}$	0.09	0.4
		VOC	0.07	0.29
B-209	Boiler	NO_x	0.45	1.96
		CO	0.92	4.02
		SO_2	0.01	0.03
		PM	0.09	0.4
		PM_{10}	0.09	0.4
		$PM_{2.5}$	0.09	0.4
		VOC	0.07	0.29
B-210	Boiler	NO_x	0.45	1.96
		CO	0.92	4.02
		SO_2	0.01	0.03
		PM	0.09	0.4
		PM_{10}	0.09	0.4
		$PM_{2.5}$	0.09	0.4
		VOC	0.07	0.29

Emission Sources - Maximum Allowable Emission Rates

H-101	Hot Oil Heater	NO_x	0.11	0.49
		CO	0.01	0.01
		SO_2	0.01	0.03
		PM	0.07	0.33
		PM_{10}	0.07	0.33
		$PM_{2.5}$	0.07	0.33
		VOC	0.05	0.24
H-102	Hot Oil Heater	NO_x	0.12	0.53
		CO	0.01	0.01
		SO_2	0.01	0.03
		PM	0.07	0.33
		PM_{10}	0.07	0.33
		$PM_{2.5}$	0.07	0.33
		VOC	0.05	0.24
T10-1	Fixed Roof (FR) Tank	VOC	56.49	---
T13-1	FR Tank	VOC	56.49	---
T13-2	FR Tank	VOC	56.49	---
T20-1	FR Tank	VOC	56.49	---
T20-2	FR Tank	VOC	56.49	---
T20-3	FR Tank	VOC	56.49	---
T20-4	FR Tank	VOC	56.49	---
T30-1	FR Tank	VOC	169.46	---
T30-2	FR Tank	VOC	169.46	---
T30-3	FR Tank	VOC	169.46	---
T30-4	FR Tank	VOC	169.46	---
T30-5	FR Tank	VOC	29.86	---
T30-6	FR Tank	VOC	29.86	---

Emission Sources - Maximum Allowable Emission Rates

T30-11	FR Tank	VOC	169.46	---
T30-12	FR Tank	VOC	169.46	---
T30-13	FR Tank	VOC	20.91	---
T30-14	FR Tank	VOC	20.91	---
T30-15	FR Tank	VOC	169.46	---
T30-16	FR Tank	VOC	20.91	---
T30-17	FR Tank	VOC	20.91	---
T30-18	FR Tank	VOC	169.46	---
T30-19	FR Tank	VOC	169.46	---
T37-1	FR Tank	VOC	169.46	---
T37-2	FR Tank	VOC	169.46	---
T38-1	FR Tank	VOC	169.46	---
T80-1	FR Tank	VOC	44.80	---
T80-2	FR Tank	VOC	44.80	---
T80-3	FR Tank	VOC	44.80	---
T80-4	FR Tank	VOC	44.80	---
T80-5	FR Tank	VOC	44.80	---
T80-6	FR Tank	VOC	44.80	---
T80-7	FR Tank	VOC	44.80	---
T80-8	FR Tank	VOC	44.80	---
T80-9	FR Tank	VOC	44.80	---
T80-10	FR Tank	VOC	44.80	---
T80-11	FR Tank	VOC	44.80	---
T80-12	FR Tank	VOC	44.80	---
T80-13	FR Tank	VOC	44.80	---
T80-14	FR Tank	VOC	44.80	---
T80-15	FR Tank	VOC	44.80	---

Emission Sources - Maximum Allowable Emission Rates

T80-16	FR Tank	VOC	44.80	---
T80-17	FR Tank	VOC	44.80	---
T80-18	FR Tank	VOC	44.80	---
T80-19	FR Tank	VOC	44.80	---
T80-20	FR Tank	VOC	169.46	---
T80-21	FR Tank	VOC	169.46	---
T80-22	FR Tank	VOC	169.46	---
T80-23	FR Tank	VOC	44.80	---
T80-24	FR Tank	VOC	44.80	---
T80-25	FR Tank	VOC	44.80	---
T80-26	FR Tank	VOC	44.80	---
T80-27	FR Tank	VOC	44.80	---
T80-28	FR Tank	VOC	44.80	---
T80-29	FR Tank	VOC	44.80	---
T80-30	FR Tank	VOC	44.80	---
T80-31	FR Tank	VOC	44.80	---
T80-32	FR Tank	VOC	44.80	---
T80-33	FR Tank	VOC	44.80	---
T80-34	FR Tank	VOC	44.80	---
T80-35	FR Tank	VOC	169.46	---
T80-36	FR Tank	VOC	44.80	---
T80-37	FR Tank	VOC	44.80	---
T80-38	FR Tank	VOC	44.80	---
T90-1	FR Tank	VOC	59.73	---
T90-2	FR Tank	VOC	59.73	---
T95-1	FR Tank	VOC	59.73	---
T95-2	FR Tank	VOC	59.73	---

Emission Sources - Maximum Allowable Emission Rates

T100-1	FR Tank	VOC	59.73	---
T100-2	FR Tank	VOC	59.73	---
T100-3	FR Tank	VOC	59.73	---
T100-4	FR Tank	VOC	59.73	---
T100-5	FR Tank	VOC	59.73	---
T100-6	FR Tank	VOC	59.73	---
T100-7	FR Tank	VOC	59.73	---
T100-8	FR Tank	VOC	59.73	---
T100-9	FR Tank	VOC	59.73	---
T100-10	FR Tank	VOC	59.73	---
T100-11	FR Tank	VOC	59.73	---
T100-12	FR Tank	VOC	59.73	---
T100-13	FR Tank	VOC	59.73	---
T100-14	FR Tank	VOC	59.73	---
T100-15	FR Tank	VOC	59.73	---
T100-16	FR Tank	VOC	59.73	---
T100-17	FR Tank	VOC	59.73	---
T100-18	FR Tank	VOC	59.73	---
T100-19	FR Tank	VOC	59.73	---
T100-20	FR Tank	VOC	59.73	---
T100-21	FR Tank	VOC	59.73	---
T100-22	FR Tank	VOC	59.73	---
T100-23	FR Tank	VOC	59.73	---
T100-24	FR Tank	VOC	59.73	---
T100-25	FR Tank	VOC	59.73	---
T175-1	FR Tank	VOC	59.73	---
T175-2	FR Tank	VOC	59.73	---

Emission Sources - Maximum Allowable Emission Rates

T175-3	FR Tank	VOC	59.73	---
T175-4	FR Tank	VOC	59.73	---
T200-1	FR Tank	VOC	74.66	---
T200-2	FR Tank	VOC	74.66	---
T200-3	FR Tank	VOC	74.66	---
T200-4	FR Tank	VOC	74.66	---
T200-5	FR Tank	VOC	74.66	---
T200-6	FR Tank	VOC	74.66	---
T200-7	FR Tank	VOC	74.66	---
T200-8	FR Tank	VOC	74.66	---
T200-9	FR Tank	VOC	74.66	---
T220-1	FR Tank	VOC	59.73	---
T250-5	FR Tank	VOC	89.59	---
T250-6	FR Tank	VOC	89.59	---
T250-7	FR Tank	VOC	89.59	---
T250-8	FR Tank	VOC	89.59	---
T325-1	FR Tank	VOC	89.59	---
T325-2	FR Tank	VOC	89.59	---
FXRTKCAP	Fixed Roof Tank Cap	VOC	---	105.00
T250-1	Internal Floating Roof (IFR) Tank	VOC	11.52	---
		H_2S	0.03	---
T250-2	IFR Tank	VOC	11.88	---
		H_2S	0.03	---
T250-3	IFR Tank	VOC	11.43	---
		H_2S	0.03	---
T250-4	IFR Tank	VOC	11.43	---
		H_2S	0.03	---

Emission Sources - Maximum Allowable Emission Rates

T250-9	IFR Tank	VOC	10.27	---
		H_2S	0.02	---
T266-1	IFR Tank	VOC	11.24	---
		H_2S	0.03	---
T266-2	IFR Tank	VOC	11.24	---
		H_2S	0.03	---
T325-1	IFR Tank	VOC	11.84	---
		H_2S	0.10	---
T400-1	IFR Tank	VOC	11.13	---
		H_2S	0.10	---
T400-2	IFR Tank	VOC	11.13	---
		H_2S	0.10	---
T400-3	IFR Tank	VOC	11.13	---
		H_2S	0.10	---
T400-4	IFR Tank	VOC	11.13	---
		H_2S	0.10	---
T400-5	IFR Tank	VOC	11.13	---
		H_2S	0.10	---
T400-6	IFR Tank	VOC	9.39	---
		H_2S	0.03	---
T400-7	IFR Tank	VOC	11.13	---
		H_2S	0.10	---
T400-9	IFR Tank	VOC	11.13	---
		H_2S	0.10	---
T400-10	IFR Tank	VOC	11.13	---
		H_2S	0.10	---
T400-11	IFR Tank	VOC	8.29	---

Emission Sources - Maximum Allowable Emission Rates

		H_2S	0.02	---
T400-12	IFR Tank	VOC	8.29	---
		H_2S	0.02	---
T400-13	IFR Tank	VOC	8.29	---
		H_2S	0.02	---
T-A24-1	Area 24 Tank 1	VOC	10.47	---
		H_2S	0.03	---
T-A26-1	Area 26 Tank 1	VOC	10.47	---
		H_2S	0.03	---
T-A26-2	Area 26 Tank 2	VOC	10.47	---
		H_2S	0.03	---
T-A26-3	Area 26 Tank 3	VOC	10.47	---
		H_2S	0.03	---
T-A26-4	Area 26 Tank 4	VOC	10.47	---
		H_2S	0.03	---
IFRTKCAP	IFR Tank Cap	VOC	---	113.04
		H_2S	---	5.15
SHIPLD-1	Ship Dock No. 1 – Fuel Oil Loading	VOC	22.39	---
SHIPLD-2	Ship Dock No. 2 – Fuel Oil Loading	VOC	22.39	---
SHIPLD-3	Ship Dock No. 3 – Fuel Oil Loading	VOC	22.39	---
SHIPLD-4	Ship Dock No. 4 – Fuel Oil Loading	VOC	22.39	---
SHIPLD-5	Ship Dock No. 5 – Fuel Oil Loading	VOC	22.39	---
BRGDK-2	Barge Dock No. 2	VOC	141.16	---
BRGDK-3	Barge Dock No. 3	VOC	22.39	---
BRGDK-4	Barge Dock No. 4	VOC	22.39	---
BRGDK-5	Barge Dock No. 5	VOC	141.16	---
BRGDK-6	Barge Dock No. 6	VOC	22.39	---

Emission Sources - Maximum Allowable Emission Rates

BRGDK-7	Barge Dock No. 7	VOC	22.39	---
MARLDFOCAP	Marine Loading Fuel Oil Cap	VOC	---	72.00
BRGDK-8	Barge Dock No. 8	VOC	22.06	3.44
VCU-BRG8	Barge Dock 8 VCU	VOC	3.63	3.95
		NO_x	9.82	12.49
		CO	9.82	12.49
		SO_2	35.33	5.27
		PM	0.73	0.93
		PM_{10}	0.73	0.93
		$PM_{2.5}$	0.73	0.93
		H_2S	0.02	0.01
SHIPLD-1C	Ship Dock No. 1C – Crude Oil Loading	VOC	3.63	---
		H_2S	0.02	---
SHIPLD-2C	Ship Dock No. 2C – Crude Oil Loading	VOC	3.63	---
		H_2S	0.02	---
SHIPLD-3C	Ship Dock No. 3C – Crude Oil Loading	VOC	3.63	---
		H_2S	0.02	---
SHIPLD-4C	Ship Dock No. 4C – Crude Oil Loading	VOC	3.63	---
		H_2S	0.02	---
SHIPLD-5C	Ship Dock No. 5C – Crude Oil Loading	VOC	3.63	---
		H_2S	0.02	---
SHLDCRDCAP	Ship Dock Crude Oil Loading Cap	VOC	---	19.99
		H_2S	---	0.02
TTRC-1	Tank Truck/Railcar 1	VOC	1.79	---
TTRC-2	Tank Truck/Railcar 2	VOC	1.79	---
TTRC-3	Tank Truck/Railcar 3	VOC	1.79	---
TTRCCAP	Tank Truck/Railcar Cap	VOC	---	14.12

Emission Sources - Maximum Allowable Emission Rates

FU-4	Fugitive Unit - 28VHP	VOC (5)	2.98	13.00
		H_2S	0.01	0.01
FU-5	Fugitive Unit - 28LAER	VOC (5)	0.04	0.16
		H_2S	0.01	0.01
TKMSS	Uncontrolled Tank MSS	VOC	309.13	27.05
		H_2S	4.03	0.35
MSS-TO	Portable Thermal Oxidizer / Vapor Combustor	VOC	27.22	1.13
		NOx	3.00	0.72
		CO	1.90	0.46
		SO2	8.31	1.99
		PM	0.22	0.05
		PM10	0.22	0.05
		PM2.5	0.22	0.05
		H_2S	0.04	0.01
VCU-1	VCU-1	VOC	1.94	---
		NO_x	6.24	---
		CO	6.24	---
		SO_2	18.93	---
		PM	3.14	---
		PM_{10}	3.14	---
		$PM_{2.5}$	3.14	---
		H_2S	0.01	---

Emission Sources - Maximum Allowable Emission Rates

VCU-2	VCU-2	VOC	1.94	---
		NO_x	6.24	---
		CO	6.24	---
		SO_2	18.93	---
		PM	3.14	---
		PM_{10}	3.14	---
		$PM_{2.5}$	3.14	---
		H_2S	0.01	---
VCU-3	VCU-3	VOC	1.94	---
		NO_x	6.24	---
		CO	6.24	---
		SO_2	18.93	---
		PM	0.47	---
		PM_{10}	0.47	---
		$PM_{2.5}$	0.47	---
		H_2S	0.01	---
VCU-4	VCU-4	VOC	1.94	---
		NO_x	6.24	---
		CO	6.24	---
		SO_2	18.93	---
		PM	0.47	---
		PM_{10}	0.47	---
		$PM_{2.5}$	0.47	---
		H_2S	0.01	---

Emission Sources - Maximum Allowable Emission Rates

VCU-5	VCU-5	VOC	1.94	---
		NO_x	6.24	---
		CO	6.24	---
		SO_2	18.93	---
		PM	0.47	---
		PM_{10}	0.47	---
		$PM_{2.5}$	0.47	---
		H_2S	0.01	---
VCU-6	VCU-6	VOC	1.94	---
		NO_x	6.24	---
		CO	6.24	---
		SO_2	18.93	---
		PM	0.47	---
		PM_{10}	0.47	---
		$PM_{2.5}$	0.47	---
		H_2S	0.01	---
VCU-7	VCU-7	VOC	1.94	---
		NO_x	6.24	---
		CO	6.24	---
		SO_2	18.93	---
		PM	0.47	---
		PM_{10}	0.47	---
		$PM_{2.5}$	0.47	---
		H_2S	0.01	---

Emission Sources - Maximum Allowable Emission Rates

VCU-8	VCU-8	VOC	1.94	---
		NO_x	6.24	---
		CO	6.24	---
		SO_2	18.93	---
		PM	0.47	---
		PM_{10}	0.47	---
		$PM_{2.5}$	0.47	---
		H_2S	0.01	---
VCU Cap	VCU Cap	VOC	---	19.97
		NO_x	---	74.75
		CO	---	74.75
		SO_2	---	32.66
		PM	---	13.57
		PM_{10}	---	13.57
		$PM_{2.5}$	---	13.57
		H_2S	---	0.02

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
H_2S - 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.

Date: November 28, 2023

Emission Sources - Maximum Allowable Emission Rates

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
HFOTCO LLC
Authorizing the Continued Operation of
Houston Terminal
Located at **Houston, Harris County, Texas**
Latitude 29.754722 Longitude -95.112222

Permit: PAL52
Issuance Date: January 30, 2024
Expiration Date: August 3, 2028

For the Commission

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

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

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

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

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius
°F = Temperature in degrees Fahrenheit
°K = Temperature in degrees Kelvin
µg = microgram
µg/m^3 = microgram per cubic meter
acfm = actual cubic feet per minute
AMOC = alternate means of control
AOS = alternative operating scenario
AP-42 = Air Pollutant Emission Factors, 5th edition
APD = Air Permits Division
API = American Petroleum Institute
APWL = air pollutant watch list
BPA = Beaumont/ Port Arthur
BACT = best available control technology
BAE = baseline actual emissions
bbl = barrel
bbl/day = barrel per day
bhp = brake horsepower
BMP = best management practices
Btu = British thermal unit
Btu/scf = British thermal unit per standard cubic foot or feet
CAA = Clean Air Act
CAM = compliance-assurance monitoring
CEMS = continuous emissions monitoring systems
cfm = cubic feet (per) minute
CFR = Code of Federal Regulations
CN = customer ID number
CNG = compressed natural gas
CO = carbon monoxide
COMS = continuous opacity monitoring system
CPMS = continuous parametric monitoring system
DFW = Dallas/ Fort Worth (Metroplex)
DE = destruction efficiency
DRE = destruction and removal efficiency
dscf = dry standard cubic foot or feet
dscfm = dry standard cubic foot or feet per minute
ED = (TCEQ) Executive Director
EF = emissions factor
EFR = external floating roof tank
EGU = electric generating unit
EI = Emissions Inventory
ELP = El Paso
EPA = (United States) Environmental Protection Agency
EPN = emission point number
ESL = effects screening level
ESP = electrostatic precipitator
FCAA = Federal Clean Air Act
FCCU = fluid catalytic cracking unit
FID = flame ionization detector
FIN = facility identification number
ft = foot or feet
ft/sec = foot or feet per second
g = gram
gal/wk = gallon per week
gal/yr = gallon per year
GLC = ground level concentration
GLC_{max} = maximum (predicted) ground-level concentration
gpm = gallon per minute
gr/1000scf = grain per 1000 standard cubic feet
gr/dscf = grain per dry standard cubic feet
H_2CO = formaldehyde
H_2S = hydrogen sulfide
H_2SO_4 = sulfuric acid
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
HC = hydrocarbons
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/Brazoria
hp = horsepower
hr = hour
IFR = internal floating roof tank
in H_2O = inches of water
in Hg = inches of mercury
IR = infrared
ISC3 = Industrial Source Complex, a dispersion model
ISCST3 = Industrial Source Complex Short-Term, a dispersion model
K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
LACT = lease automatic custody transfer
LAER = lowest achievable emission rate
lb = pound
lb/day = pound per day
lb/hr = pound per hour
lb/MMBtu = pound per million British thermal units
LDAR = Leak Detection and Repair (Requirements)
LNG = liquefied natural gas
LPG = liquefied petroleum gas
LT/D = long ton per day
m = meter
m^3 = cubic meter
m/sec = meters per second
MACT = maximum achievable control technology
MAERT = Maximum Allowable Emission Rate Table
MERA = Modeling and Effects Review Applicability
mg = milligram
mg/g = milligram per gram
mL = milliliter
MMBtu = million British thermal units
MMBtu/hr = million British thermal units per hour
MSDS = material safety data sheet
MSS = maintenance, startup, and shutdown
MW = megawatt
NAAQS = National Ambient Air Quality Standards
NESHAP = National Emission Standards for Hazardous Air Pollutants
NGL = natural gas liquids
NNSR = nonattainment new source review
NO_x = total oxides of nitrogen
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 PM_{10} and $PM_{2.5}$, as represented
$PM_{2.5}$ = particulate matter equal to or less than 2.5 microns in diameter
PM_{10} = 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
SO_2 = 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 Number PAL52

1. This permit establishes plantwide applicability limits (PALs) for emissions of volatile organic compounds (VOC) and nitrogen oxides (NO_x) for the Houston Fuel Oil Terminal in Houston, Harris County, Texas (Regulated Entity Number RN100223445). The PALs are effective for ten years from the date of this permit. Any project to be authorized by permit amendment, permit by rule, or other Texas Commission on Environmental Quality (TCEQ) permitting requirement, including the addition of new facilities or the modification of existing facilities, shall not be subject to major new source review or PAL permit alteration if the total plantwide emissions of VOC and NO_x from the Houston Fuel Oil Company, LLC (HFOTCO) Terminal do not exceed the PALs. The permit holder shall submit a request for and receive an Executive Director approval prior to the start of operation of any project if the emissions from the new or modified facilities of that project may exceed 100 tons per year per PAL pollutant in accordance with Title 30 Texas Administrative Code Section 116.192(b) [30 TAC § 116.192(b)].

PALs

2. Actual plant-wide NO_x emissions from the HFOTCO Terminal shall be less than or equal to 69.78 tons per year (tpy), based on a 12-month rolling total.

3. Actual plant-wide VOC emissions from the HFOTCO Terminal shall be less than or equal to 178.07 tpy, based on a 12-month rolling total. (**01/24**)

Engines

4. Emissions of VOC and NO_x from stationary engines shall be estimated using emission factors in the PAL52 application, vendor guarantee, or available stack test data. Records of engine horsepower and run time in hourly increments shall be maintained.

Heaters/Boilers

5. Natural gas flow rates shall be monitored and recorded on a monthly basis for all heaters and boilers at the Houston Fuel Oil Terminal. The heat input values shall be determined using the monitored natural gas flow rate and the higher heating value of natural gas. Emissions of NO_x shall be determined using the most recent satisfactory stack test emissions factors and heat input rates determined.

6. Heaters, furnaces and boilers are subject to the following requirements:

   A. Emissions of NO_x shall be determined using the most recent satisfactory stack test emissions factors and heat input rates determined in accordance with Special Condition 5.

   B. Emissions of VOC shall be determined using the applicable AP-42 or vendor guarantee data along with the heat input rates determined in accordance with Special Condition 5.

   C. The permit holder shall install and operate a totalizing fuel flow meter to measure the gas fuel usage for each boiler and heater. Fuel usage for all boilers and heaters shall be recorded monthly. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or at least annually, whichever is more frequent, and shall be accurate to within 5 percent.

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

Storage Tanks

7. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all storage tanks during the previous calendar month and the past consecutive 12-month period. The record shall include tank identification number, control method used, tank capacity in gallons, name of the material stored, VOC molecular weight, VOC monthly average temperature in degrees Fahrenheit, VOC vapor pressure at the monthly average material temperature in psia, VOC throughput for the previous month and year-to-date. Records of VOC monthly average temperature are not required to be kept for unheated tanks which receive liquids that are at or below ambient temperatures. VOC emissions for tanks shall be calculated using the methodology in the TCEQ publication titled "technical guidance package for chemical sources- Storage Tanks." Or another equivalent methodology.

Marine Truck and Railcar Loading

8. The permit holder shall maintain and update a monthly emissions record which includes calculated emissions of VOC from all loading operations over the previous rolling 12-month period. The record shall include the loading spot, control method used, quantity loaded in gallons 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 at or below ambient temperatures. Emissions shall be calculated using the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Loading Operations."

Vapor Combustor

9. Emissions of VOC and NOx from all vapor combustors shall be recorded monthly. Monthly emissions of VOC shall be determined using (1) the loading loss emission rates calculated in accordance with Special Condition 8 and (2) the destruction efficiency determined in the most recent stack test. Monthly emissions of NOx shall be determined using the higher heating value of the waste gas and supplemental gas routed to the VCU, and the emission factor determined in the most recent stack test.

Fugitive Emissions

10. VOC emissions are to be estimated using component counts, emission factors, and control efficiencies data from the TCEQ technical guidance document, "Equipment Leak Fugitives," dated October 2000. Alternate sampling methods and representative unit testing may be proposed by the permit holder. If proposed, any test protocol must be submitted, in writing, for approval to the TCEQ Office of Air, Air Permits Division in Austin.

PAL Monitoring System, Validation, and Revalidation

11. Monitoring for new, modified, and existing units conducted in accordance with the Special Conditions of this Permit and used to determine plantwide emissions of NO_x and VOC shall be considered the PAL Monitoring System and shall be subject to 30 TAC § 116.186(c).

Testing

12. The permit holder shall perform stack sampling and other testing as requested by TCEQ to demonstrate compliance with the PAL. The permit holder is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at the permit holders expense. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and the EPA Reference Methods.

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

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

        (1) Proposed date for pretest meeting.

        (2) Date sampling will occur.

        (3) Name of firm conducting sampling.

        (4) Type of sampling equipment to be used.

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

        (6) Description of any proposed deviation from the sampling procedures specified in this permit or TCEQ/EPA sampling procedures.

        (7) Procedure/parameters to be used to determine worst case emissions (such as production rate, temperature for incinerators, etc.) during the sampling period.

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

    B. Air contaminants emitted from the Houston Fuel Oil Terminal to be tested for include NO_x and VOC.

    C. Sampling shall occur within the time frame requested by the TCEQ Executive Director. Requests for additional time to perform sampling shall be submitted to the appropriate TCEQ Regional Office.

    D. The facility being sampled shall operate at the maximum hourly emission rate during stack sampling, or at conditions indicative of maximum hourly emissions as agreed upon in the pre-test meeting. Conditions and/or parameters indicative of maximum emissions, as determined at the pretest meeting shall be monitored and recorded during the stack test. Monitored data should be provided in the sampling report. Permit conditions and parameter limits may be waived during stack testing performed under this condition if the proposed

condition/parameter range is identified in the test notice specified in Paragraph A and accepted by the TCEQ.

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 TCEQ Houston Regional Office.

Maintenance Startup and Shutdown (MSS)

13. VOC and NO_x emissions from MSS activities conducted in accordance with the special conditions of NSR permit No. 5783 shall be estimated using the calculation procedures used in the NSR permit No. 5783 application. VOC and NOx emissions from MSS activities authorized under a permit by rule shall be estimated using the calculation procedures used to register emission rates.

PAL Recordkeeping

14. The following information shall be maintained by the holder of this permit for a period up to 5 years in a form suitable for inspection for the duration specified in 30 TAC § 116.186(b)(4)(B) and shall be made available upon request to representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction:

A. Fuel Specifications:

The holder of this permit shall calculate and maintain records at the plant site of the hourly average and annual average heat input (MMBtu/hr) for each heater and boiler. The heat input values shall be calculated using the higher heating value of the natural gas.

B. VCU:

The holder of this permit shall maintain records at the plant site of the waste gas mass flow determined in accordance with Special Condition No. 8, higher eating values of waste gas, volumetric flow and higher heating value of supplemental fuel, and any stack sampling results.

C. Engines:

Records of emission factors used to estimate emissions from engines, engine run times, and engine horsepower in accordance with Special Condition No. 4 of PAL52 shall be maintained.

D. Heaters/Boilers:

Records of emission factors and fuel flow and firing rates used to estimate emissions from heaters and boilers in accordance with Special Condition Nos. 5 and 6 of PAL52 shall be maintained.

E. Storage Tanks:

Records of calculated emissions of VOC from all storage tanks, tank identification number, control method, tank capacity, name of the material stored, VOC molecular weight, temperature, VOC vapor pressure and throughput shall be maintained in accordance with Special Condition 7.

F. Marine truck and railcar loading:

Records of calculated emissions of VOC from all loading operations, loading point identification number, control method used, volume in gallons or barrels (bbl), name of the material loaded, VOC molecular weight, VOC monthly average temperature in degrees Fahrenheit, and VOC vapor pressure shall be maintained in accordance with Special Condition 8.

G. Fugitive Emissions:

Records required by Special Condition No. 10 of PAL52 shall be maintained.

H. Stack Testing:

Stack sampling results conducted in accordance with Special Condition No. 12 of PAL52 shall be maintained.

I. MSS:

Records required by the PBR rule number 106.263 authorizing MSS activities for the site shall be maintained. Records required by the NSR permit No. 5783 MSS special conditions shall be maintained.

J. Other:

A copy of this permit shall be kept at the plant site and made available at the request of personnel from the TCEQ or any air pollution control program having jurisdiction. At the request of personnel from TCEQ or any air pollution control program, an HFOTCO Terminal representative shall be made available to accompany the personnel from TCEQ or any air pollution control agency for inspection of the source covered by this permit.

All Records required by the conditions of this permit are to be maintained electronically or in hard copy format for at least five years at the site and made available to representatives of the TCEQ or any local air pollution control program having jurisdiction.

PAL Reporting

15. The holder of this permit shall report to the appropriate TCEQ Regional Office and TCEQ Executive Director on a semiannual basis, all information required by 30 TAC § 116.186(b)(4)(C).

Date: January 30, 2024