

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Gibson Energy Infrastructure, LLC

AUTHORIZING THE OPERATION OF
South Texas Gateway Terminal
Other Warehousing and Storage

LOCATED AT
San Patricio County, Texas
Latitude 27° 49' 37" Longitude 97° 11' 34"
Regulated Entity Number: RN110369758

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: O4220 Issuance Date: _____

For the Commission

Table of Contents

Section	Page
General Terms and Conditions	1
Special Terms and Conditions:	1
Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting.....	1
New Source Review Authorization Requirements	5
Compliance Requirements.....	6
Permit Location	6
Permit Shield (30 TAC § 122.148)	7
Attachments	8
Applicable Requirements Summary.....	9
Permit Shield.....	25
New Source Review Authorization References	27
Appendix A.....	32
Acronym List	33
Appendix B.....	34

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 EEEE, Y or ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113,

Subchapter C, §§ 113.880, 113.300 or 113.1090, respectively, which incorporate the 40 CFR Part 63 Subparts by reference.

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
 - A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
 - A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed 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. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- C. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- 4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: "Storage of Volatile Organic Compounds," the permit holder shall comply with the requirements of 30 TAC § 115.112(c)(1).
- 5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

6. The permit holder shall comply with the 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.
7. 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)

New Source Review Authorization Requirements

8. 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 December 22, 2025 in the application for project 39088), 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
9. 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.
10. 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

11. 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.
12. 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

13. 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)

14. 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

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Unit Summary 10

Applicable Requirements Summary 12

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
ADDFUG	FUGITIVE EMISSION UNITS	N/A	63EEEE-ADDFUG	40 CFR Part 63, Subpart EEEE	No changing attributes.
EMGEN	SRIC ENGINES	N/A	60IIII-EMGEN	40 CFR Part 60, Subpart IIII	No changing attributes.
EMGEN	SRIC ENGINES	N/A	63ZZZZ-EMGEN	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FUG	FUGITIVE EMISSION UNITS	N/A	63EEEE-FUG	40 CFR Part 63, Subpart EEEE	No changing attributes.
FWP1	SRIC ENGINES	N/A	60IIII-FWP	40 CFR Part 60, Subpart IIII	No changing attributes.
FWP1	SRIC ENGINES	N/A	63ZZZZ-FWP	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP425TK	STORAGE TANKS/VESSELS	TK-1001, TK-1002, TK-1003, TK-1004, TK-1005, TK-1006, TK-1007, TK-1008, TK-1009, TK-2001, TK-2002, TK-2003, TK-2004, TK-2005, TK-2006, TK-2007, TK-2008, TK-3001, TK-3002, TK-3003, TK-3004, TK-3005, TK-3006	5112-TK425	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP425TK	STORAGE TANKS/VESSELS	TK-1001, TK-1002, TK-1003, TK-1004, TK-1005, TK-1006, TK-1007, TK-1008, TK-1009, TK-2001, TK-2002, TK-2003, TK-2004, TK-2005, TK-2006, TK-2007, TK-2008, TK-3001,	60KB-TK425	40 CFR Part 60, Subpart Kb	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		TK-3002, TK-3003, TK-3004, TK-3005, TK-3006			
GRP425TK	STORAGE TANKS/VESSELS	TK-1001, TK-1002, TK-1003, TK-1004, TK-1005, TK-1006, TK-1007, TK-1008, TK-1009, TK-2001, TK-2002, TK-2003, TK-2004, TK-2005, TK-2006, TK-2007, TK-2008, TK-3001, TK-3002, TK-3003, TK-3004, TK-3005, TK-3006	63EEEE-TK425	40 CFR Part 63, Subpart EEEE	No changing attributes.
GRPADDTK	STORAGE TANKS/VESSELS	T-3, T-4, T-5, T-6	63EEEE-ADDTK	40 CFR Part 63, Subpart EEEE	No changing attributes.
GRPMVCU	LOADING/UNLOADING OPERATIONS	MVCU1, MVCU2, MVCU3, MVCU4	63Y_MVCU	40 CFR Part 63, Subpart Y	No changing attributes.
T-1	STORAGE TANKS/VESSELS	N/A	63EEEE-T1	40 CFR Part 63, Subpart EEEE	No changing attributes.
TK-5001	STORAGE TANKS/VESSELS	N/A	5112-TK5001	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TK-5001	STORAGE TANKS/VESSELS	N/A	60KB-TK5001	40 CFR Part 60, Subpart Kb	No changing attributes.
TK-5001	STORAGE TANKS/VESSELS	N/A	63EEEE-TK5001	40 CFR Part 63, Subpart EEEE	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
ADDFUG	EU	63EEEE-ADDFUG	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2346(c) § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.168 [G]§ 63.171 [G]§ 63.175 § 63.2346(c) § 63.2350(a) § 63.2370(a)-Table 7.4.a.i § 63.2370(a)-Table 7.4.a.ii § 63.2396(e)(2)	Control equipment leaks according to all applicable requirements under 40 CFR part 63, subpart H, with the differences noted in §63.2346(c): §63.168, Standards: Valves in gas/vapor service and in light liquid service. §63.168(a)-(j)	[G]§ 63.168 [G]§ 63.175 [G]§ 63.180(b) § 63.180(d) § 63.2350(d) § 63.2378(a)-Table 10.5.a.i	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) § 63.181(h) [G]§ 63.181(h)(1) [G]§ 63.181(h)(2) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7) § 63.181(h)(9) § 63.2350(d) § 63.2370(a)-Table 7.4.a.ii [G]§ 63.2390(b) § 63.2394(a) § 63.2394(b) § 63.2394(c)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) § 63.2382(a) § 63.2382(b)(2) § 63.2382(d)(1) [G]§ 63.2382(d)(2) § 63.2382(d)(3) § 63.2386(a) § 63.2386(b) [G]§ 63.2386(b)(1) [G]§ 63.2386(b)(2) § 63.2386(b)(3) § 63.2386(b)-Table 11.1.a § 63.2386(b)-Table 11.1.b § 63.2386(b)-Table 11.2.a.i § 63.2386(c) § 63.2386(c)(1) § 63.2386(c)(12) § 63.2386(c)(2) § 63.2386(c)(3) § 63.2386(c)(4) § 63.2386(c)(6) § 63.2386(c)(7) § 63.2386(d) § 63.2386(d)(2) § 63.2386(e) § 63.2386(f) [G]§ 63.2386(i) [G]§ 63.2386(j) § 63.2396(e)(2)
ADDFUG	EU	63EEEE-ADDFUG	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2346(c) § 63.162(a)	Control equipment leaks according to all applicable	[G]§ 63.163 [G]§ 63.176	§ 63.181(a) [G]§ 63.181(b)	[G]§ 63.182(a) [G]§ 63.182(b)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.163 [G]§ 63.171 [G]§ 63.176 § 63.2346(c) § 63.2350(a) § 63.2370(a)-Table 7.4.a.i § 63.2370(a)-Table 7.4.a.ii § 63.2396(e)(2)	requirements under 40 CFR part 63, subpart H, with the differences noted in §63.2346(c): §63.163, Standards: Pumps in light liquid service. §63.163(a)-(j)	[G]§ 63.180(b) § 63.180(d) § 63.2350(d) § 63.2378(a)-Table 10.5.a.i	§ 63.181(c) [G]§ 63.181(d) § 63.181(h) [G]§ 63.181(h)(3) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7) § 63.181(h)(8) § 63.181(h)(9) § 63.2350(d) § 63.2370(a)-Table 7.4.a.ii [G]§ 63.2390(b) § 63.2394(a) § 63.2394(b) § 63.2394(c)	§ 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) § 63.2382(a) § 63.2382(b)(2) § 63.2382(d)(1) [G]§ 63.2382(d)(2) § 63.2382(d)(3) § 63.2386(a) § 63.2386(b) [G]§ 63.2386(b)(1) [G]§ 63.2386(b)(2) § 63.2386(b)(3) § 63.2386(b)-Table 11.1.a § 63.2386(b)-Table 11.1.b § 63.2386(b)-Table 11.2.a.i § 63.2386(c) § 63.2386(c)(1) § 63.2386(c)(12) § 63.2386(c)(2) § 63.2386(c)(3) § 63.2386(c)(4) § 63.2386(c)(6) § 63.2386(c)(7) § 63.2386(d) § 63.2386(d)(2) § 63.2386(e) § 63.2386(f) [G]§ 63.2386(i) [G]§ 63.2386(j) § 63.2396(e)(2)
EMGEN	EU	60III-EMGEN	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum	§ 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)
					§ 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	engine power greater than or equal to 37 KW and less than 130 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 5.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.			
EMGEN	EU	60III-EMGEN	NMHC and NO _x	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than or equal to 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NO _x emission limit of 4.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
EMGEN	EU	60III-EMGEN	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than 130 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM	§ 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)
						emission limit of 0.30 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.			
EMGEN	EU	60III-EMGEN	PM (Opacity)	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039.105(b)(1) § 1039.105(b)(2) § 1039.105(b)(3) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Emergency stationary CI ICE, that are not fire pump engines, with displacement < 10 lpc and not constant-speed engines, with max engine power < 2237 KW and a 2007 model year and later or max engine power > 2237 KW and a 2011 model year and later, must comply with following opacity emission limits: 20% during acceleration, 15% during lugging, 50% during peaks in either acceleration or lugging modes as stated in §60.4202(a)(1)-(2), (b)(2), and 40 CFR 1039.105(b)(1)-(3).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
EMGEN	EU	63ZZZZ-EMGEN	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	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)
						requirements apply for such engines under this part.			
FUG	EU	63EEEE-FUG	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2346(c) § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.169 [G]§ 63.171 § 63.2346(c) § 63.2350(a) § 63.2370(a)-Table 7.4.a.i § 63.2370(a)-Table 7.4.a.ii § 63.2396(e)(2)	Control equipment leaks according to all applicable requirements under 40 CFR part 63, subpart H, with the differences noted in §63.2346(c): §63.169, Standards: Valves in heavy liquid service. §63.169(a)-(d)	[G]§ 63.169 [G]§ 63.175 [G]§ 63.180(b) § 63.180(d) § 63.2350(d) § 63.2378(a)-Table 10.5.a.i	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) [G]§ 63.181(i) § 63.2350(d) § 63.2370(a)-Table 7.4.a.ii [G]§ 63.2390(b) § 63.2394(a) § 63.2394(b) § 63.2394(c)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) § 63.2382(a) § 63.2382(b)(2) § 63.2382(d)(1) [G]§ 63.2382(d)(2) § 63.2382(d)(3) § 63.2386(a) § 63.2386(b) [G]§ 63.2386(b)(1) [G]§ 63.2386(b)(2) § 63.2386(b)(3) § 63.2386(b)-Table 11.1.a § 63.2386(b)-Table 11.1.b § 63.2386(b)-Table 11.2.a.i § 63.2386(c) § 63.2386(c)(1) § 63.2386(c)(12) § 63.2386(c)(2) § 63.2386(c)(3) § 63.2386(c)(4) § 63.2386(c)(6) § 63.2386(c)(7) § 63.2386(d) § 63.2386(d)(2) § 63.2386(e) § 63.2386(f) [G]§ 63.2386(i) [G]§ 63.2386(j) § 63.2396(e)(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)
FUG	EU	63EEEE-FUG	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2346(c) § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.168 [G]§ 63.171 [G]§ 63.175 § 63.2346(c) § 63.2350(a) § 63.2370(a)-Table 7.4.a.i § 63.2370(a)-Table 7.4.a.ii § 63.2396(e)(2)	Control equipment leaks according to all applicable requirements under 40 CFR part 63, subpart H, with the differences noted in §63.2346(c): §63.168, Standards: Valves in gas/vapor service and in light liquid service. §63.168(a)-(j)	[G]§ 63.168 [G]§ 63.175 [G]§ 63.180(b) § 63.180(d) § 63.2350(d) § 63.2378(a)-Table 10.5.a.i	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) § 63.181(h) [G]§ 63.181(h)(1) [G]§ 63.181(h)(2) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7) § 63.181(h)(9) § 63.2350(d) § 63.2370(a)-Table 7.4.a.ii [G]§ 63.2390(b) § 63.2394(a) § 63.2394(b) § 63.2394(c)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) § 63.2382(a) § 63.2382(b)(2) § 63.2382(d)(1) [G]§ 63.2382(d)(2) § 63.2382(d)(3) § 63.2386(a) § 63.2386(b) [G]§ 63.2386(b)(1) [G]§ 63.2386(b)(2) § 63.2386(b)(3) § 63.2386(b)-Table 11.1.a § 63.2386(b)-Table 11.1.b § 63.2386(b)-Table 11.2.a.i § 63.2386(c) § 63.2386(c)(1) § 63.2386(c)(12) § 63.2386(c)(2) § 63.2386(c)(3) § 63.2386(c)(4) § 63.2386(c)(6) § 63.2386(c)(7) § 63.2386(d) § 63.2386(d)(2) § 63.2386(e) § 63.2386(f) [G]§ 63.2386(i) [G]§ 63.2386(j) § 63.2396(e)(2)
FUG	EU	63EEEE-FUG	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2346(c) § 63.162(a)	Control equipment leaks according to all applicable	[G]§ 63.169 [G]§ 63.176	§ 63.181(a) [G]§ 63.181(b)	[G]§ 63.182(a) [G]§ 63.182(b)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.169 [G]§ 63.171 § 63.2346(c) § 63.2350(a) § 63.2370(a)-Table 7.4.a.i § 63.2370(a)-Table 7.4.a.ii § 63.2396(e)(2)	requirements under 40 CFR part 63, subpart H, with the differences noted in §63.2346(c): §63.169, Standards: Pumps in heavy liquid service. §63.169(a)-(d)	[G]§ 63.180(b) § 63.180(d) § 63.2350(d) § 63.2378(a)-Table 10.5.a.i	§ 63.181(c) [G]§ 63.181(d) [G]§ 63.181(i) § 63.2350(d) § 63.2370(a)-Table 7.4.a.ii [G]§ 63.2390(b) § 63.2394(a) § 63.2394(b) § 63.2394(c)	§ 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) § 63.2382(a) § 63.2382(b)(2) § 63.2382(d)(1) [G]§ 63.2382(d)(2) § 63.2382(d)(3) § 63.2386(a) § 63.2386(b) [G]§ 63.2386(b)(1) [G]§ 63.2386(b)(2) § 63.2386(b)(3) § 63.2386(b)-Table 11.1.a § 63.2386(b)-Table 11.1.b § 63.2386(b)-Table 11.2.a.i § 63.2386(c) § 63.2386(c)(1) § 63.2386(c)(12) § 63.2386(c)(2) § 63.2386(c)(3) § 63.2386(c)(4) § 63.2386(c)(6) § 63.2386(c)(7) § 63.2386(d) § 63.2386(d)(2) § 63.2386(e) § 63.2386(f) [G]§ 63.2386(i) [G]§ 63.2386(j) § 63.2396(e)(2)
FUG	EU	63EEEE-FUG	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2346(c) § 63.162(a) § 63.162(c) [G]§ 63.162(f)	Control equipment leaks according to all applicable requirements under 40 CFR part 63, subpart H, with the	[G]§ 63.163 [G]§ 63.176 [G]§ 63.180(b) § 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 63.162(g) § 63.162(h) [G]§ 63.163 [G]§ 63.171 [G]§ 63.176 § 63.2346(c) § 63.2350(a) § 63.2370(a)-Table 7.4.a.i § 63.2370(a)-Table 7.4.a.ii § 63.2396(e)(2)	differences noted in §63.2346(c): §63.163, Standards: Pumps in light liquid service. §63.163(a)-(j)	§ 63.2350(d) § 63.2378(a)-Table 10.5.a.i	§ 63.181(h) [G]§ 63.181(h)(3) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7) § 63.181(h)(8) § 63.181(h)(9) § 63.2350(d) § 63.2370(a)-Table 7.4.a.ii [G]§ 63.2390(b) § 63.2394(a) § 63.2394(b) § 63.2394(c)	§ 63.182(c)(4) [G]§ 63.182(d) § 63.2382(a) § 63.2382(b)(2) § 63.2382(d)(1) [G]§ 63.2382(d)(2) § 63.2382(d)(3) § 63.2386(a) § 63.2386(b) [G]§ 63.2386(b)(1) [G]§ 63.2386(b)(2) § 63.2386(b)(3) § 63.2386(b)-Table 11.1.a § 63.2386(b)-Table 11.1.b § 63.2386(b)-Table 11.2.a.i § 63.2386(c) § 63.2386(c)(1) § 63.2386(c)(12) § 63.2386(c)(2) § 63.2386(c)(3) § 63.2386(c)(4) § 63.2386(c)(6) § 63.2386(c)(7) § 63.2386(d) § 63.2386(d)(2) § 63.2386(e) § 63.2386(f) [G]§ 63.2386(i) [G]§ 63.2386(j) § 63.2396(e)(2)
FWP1	EU	60III-FWP	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)	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	§ 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)
					[G]§ 60.4211(f)	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.			
FWP1	EU	60IIII-FWP	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
FWP1	EU	63ZZZZ-FWP	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(b)(1) § 63.6595(c) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	An affected source which meets either of the criteria in paragraphs §63.6590(b)(1)(i)-(ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f).	None	None	§ 63.6645(f)
GRP425TK	EU	5112-TK425	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(c)(1) § 115.111(c)(2) § 115.112(c)(2) § 115.112(c)(2)(A) § 115.112(c)(3)	Tanks shall not store VOC, other than crude oil or condensate, unless the required pressure is maintained, or they are	§ 115.114(c)(1)(A)	None	§ 115.114(c)(1)(B)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.112(c)(3)(A) § 115.114(c)(1)(A)	equipped with the appropriate control device specified in Table I(b).			
GRP425TK	EU	60KB-TK425	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2) § 60.116b(e)(2)(i)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3)
GRP425TK	EU	63EEEE-TK425	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2396(a)(1)	After the compliance dates specified in §63.2342, any storage tank that is assigned to the OLD affected source that is both controlled with a floating roof and is in compliance with the provisions of either 40 CFR part 60, subpart Kb, or 40 CFR part 61, subpart Y is in compliance with the provisions of this subpart. Records shall be kept for 5 years rather than 2 years for storage tanks that are assigned to the OLD affected source.	None	§ 63.2396(a)(1)	None
GRPADDTK	EU	63EEEE-ADDTK	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2343(a)	For each storage tank subject to this subpart having a capacity of less than 18.9 cubic meters (5,000 gallons) you must keep documentation that verifies that each storage	None	§ 63.2343(a)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						tank identified in §63.2343(a) is not required to be controlled.			
GRPMVCU	EU	63Y_MVC U	112(B) HAPS	40 CFR Part 63, Subpart Y	§ 63.562(b) [G]§ 63.562(b)(1) § 63.562(b)(3) [G]§ 63.562(b)(6) § 63.562(e) § 63.562(e)(1) [G]§ 63.562(e)(2) [G]§ 63.562(e)(3) § 63.562(e)(4) § 63.562(e)(5) § 63.562(e)(6) § 63.562(e)(7) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.563(a)(2) § 63.563(a)(3)	Marine tank vessel loading operations shall apply MACT standards, except for the VMT source.	[G]§ 63.562(b)(6) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) § 63.563(b) § 63.563(b)(1) § 63.563(b)(10) § 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)	[G]§ 63.562(b)(6) § 63.562(e)(5) [G]§ 63.562(e)(7)(i) § 63.562(e)(7)(ii) [G]§ 63.565(d) § 63.567(f) [G]§ 63.567(g) § 63.567(j)(1) § 63.567(j)(2) [G]§ 63.567(k)	[G]§ 63.562(b)(6) § 63.562(e)(7)(ii) [G]§ 63.567(b)(2) § 63.567(b)(3) [G]§ 63.567(b)(4) § 63.567(b)(5)(ii) § 63.567(c) § 63.567(e)(1) [G]§ 63.567(e)(2) § 63.567(e)(3) § 63.567(e)(4) § 63.567(e)(5) § 63.567(e)(6) § 63.567(f) § 63.567(j)(3) § 63.567(m) § 63.567(n)(1) § 63.567(n)(2)
GRPMVCU	EU	63Y_MVC U	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)	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)	§ 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)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual 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)(7)(ii) § 63.563(a)(2) § 63.563(a)(3)		[G]§ 63.565(b) [G]§ 63.565(d) § 63.565(f) § 63.565(f)(1) § 63.565(l)		§ 63.567(n)(1) § 63.567(n)(2)
T-1	EU	63EEEE-T1	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2343(a)	For each storage tank subject to this subpart having a capacity of less than 18.9 cubic meters (5,000 gallons) you must keep documentation that verifies that each storage tank identified in §63.2343(a) is not required to be controlled.	None	§ 63.2343(a)	None
TK-5001	EU	5112-TK5001	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(c)(1) § 115.111(c)(2) § 115.112(c)(2) § 115.112(c)(2)(A) § 115.112(c)(3) § 115.112(c)(3)(A) § 115.114(c)(1)(A)	Tanks shall not store VOC, other than crude oil or condensate, unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(b).	§ 115.114(c)(1)(A)	None	§ 115.114(c)(1)(B)
TK-5001	EU	60KB-TK5001	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) § 60.116b(e)(2) § 60.116b(e)(2)(i)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3)
TK-5001	EU	63EEEE-TK5001	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2396(a)(1)	After the compliance dates specified in §63.2342, any storage tank that is	None	§ 63.2396(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)
						assigned to the OLD affected source that is both controlled with a floating roof and is in compliance with the provisions of either 40 CFR part 60, subpart Kb, or 40 CFR part 61, subpart Y is in compliance with the provisions of this subpart. Records shall be kept for 5 years rather than 2 years for storage tanks that are assigned to the OLD affected source.			

Permit Shield

Permit Shield 26

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
GRPADDTK	T-3, T-4, T-5, T-6	40 CFR Part 60, Subpart Kb	Storage capacity is less than 19,800 gallons.
GRPMLFUG	MLFUG 1, MLFUG 2	40 CFR Part 63, Subpart EEEE	Equipment leak components that are part of an affected source under another MACT rule are exempted. GRPMLFUG is part of the marine loading affected source under MACT Y.
GRPMVCU	MVCU1, MVCU2, MVCU3, MVCU4	30 TAC Chapter 115, Loading and Unloading of VOC	All loading and unloading of marine vessels is exempt from this division.
T-1	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is less than 19,800 gallons.

New Source Review Authorization References

New Source Review Authorization References 28

New Source Review Authorization References by Emission Unit..... 29

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: GHGPSDTX179	Issuance Date: 04/23/2021
PSD Permit No.: PSDTX1536	Issuance Date: 04/23/2021
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.: 151476	Issuance Date: 04/23/2021
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.478	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**
ADDFUG	CHEMICAL ADDITIVES STORAGE TANK FUGITIVES	151476, PSDTX1536
EMGEN	EMERGENCY GENERATOR	151476, GHGPSDTX179, PSDTX1536
FUG	FUGITIVES	151476, PSDTX1536, 106.261/11/01/2003 [168385, 175873], 106.263/11/01/2001 [176252], 106.478/09/04/2000 [176252]
FWP1	FIREWATER PUMP 1	151476, GHGPSDTX179, PSDTX1536
ML_FUG 1	MARINE LOADING FUGITIVES - BERTH 1	151476, PSDTX1536
ML_FUG 2	MARINE LOADING FUGITIVES - BERTH 2	151476, PSDTX1536
MVCU1	MARINE LOADING VAPOR COMBUSTOR 1	151476, GHGPSDTX179, PSDTX1536
MVCU2	MARINE LOADING VAPOR COMBUSTOR 2	151476, GHGPSDTX179, PSDTX1536
MVCU3	MARINE LOADING VAPOR COMBUSTOR 3	151476, GHGPSDTX179, PSDTX1536
MVCU4	MARINE LOADING VAPOR COMBUSTOR	151476, GHGPSDTX179, PSDTX1536
T-1	DIESEL STORAGE TANK 1	151476, PSDTX1536
T-3	CHEMICAL ADDITIVES STORAGE TANK 1	151476, PSDTX1536
T-4	CHEMICAL ADDITIVES STORAGE TANK 2	151476, PSDTX1536
T-5	CHEMICAL ADDITIVES STORAGE TANK 3	151476, PSDTX1536
T-6	CHEMICAL ADDITIVES STORAGE TANK 4	151476, PSDTX1536
TK-1001	STORAGE TANK TK-1001	151476, PSDTX1536
TK-1002	STORAGE TANK TK-1002	151476, PSDTX1536
TK-1003	STORAGE TANK TK-1003	151476, PSDTX1536
TK-1004	STORAGE TANK TK-1004	151476, PSDTX1536

New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
TK-1005	STORAGE TANK TK-1005	151476, PSDTX1536
TK-1006	STORAGE TANK TK-1006	151476, PSDTX1536
TK-1007	STORAGE TANK TK-1007	151476, PSDTX1536
TK-1008	STORAGE TANK TK-1008	151476, PSDTX1536
TK-1009	STORAGE TANK TK-1009	151476, PSDTX1536, 106.263/11/01/2001 [176252], 106.478/09/04/2000 [176252]
TK-2001	STORAGE TANK TK-2001	151476, PSDTX1536
TK-2002	STORAGE TANK TK-2002	151476, PSDTX1536
TK-2003	STORAGE TANK TK-2003	151476, PSDTX1536
TK-2004	STORAGE TANK TK-2004	151476, PSDTX1536
TK-2005	STORAGE TANK TK-2005	151476, PSDTX1536
TK-2006	STORAGE TANK TK-2006	151476, PSDTX1536
TK-2007	STORAGE TANK TK-2007	151476, PSDTX1536
TK-2008	STORAGE TANK TK-2008	151476, PSDTX1536
TK-3001	STORAGE TANK TK-3001	151476, PSDTX1536
TK-3002	STORAGE TANK TK-3002	151476, PSDTX1536
TK-3003	STORAGE TANK TK-3003	151476, PSDTX1536
TK-3004	STORAGE TANK TK-3004	151476, PSDTX1536
TK-3005	STORAGE TANK TK-3005	151476, PSDTX1536, 106.263/11/01/2001 [176252], 106.478/09/04/2000 [176252]
TK-3006	STORAGE TANK TK-3006	151476, PSDTX1536, 106.263/11/01/2001 [176252], 106.478/09/04/2000 [176252]

New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
TK-5001	SURGE RELIEF STORAGE TANK 15-5001	151476, PSDTX1536

**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 33

Acronym List

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

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

Appendix B

Major NSR Summary Table 35

Major NSR Summary Table

Permit Numbers 151476, PSDTX1536, GHGPSDTX179					Issuance Date: April 23, 2021		
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 Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
MVCU 1	Marine Loading Vapor Combustor 1	VOC	7.60	---	4, 5, 6, 16, 20, 21	4, 5, 20, 21, 33	4, 20, 21
		NO _x	5.02	---			
		CO	3.77	---			
		PM	1.97	---			
		PM ₁₀	1.97	---			
		PM _{2.5}	1.97	---			
		SO ₂	10.23	---			
		H ₂ S	≤0.01	---			
		CO ₂ (6)	41,247	---			
		CH ₄ (6)	1.66	---			
		N ₂ O (6)	0.33	---			
		CO ₂ e	41,388	---			

Major NSR Summary Table

Permit Numbers 151476, PSDTX1536, GHGPSDTX179					Issuance Date: April 23, 2021		
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 Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
MVCU 2	Marine Loading Vapor Combustor 2	VOC	7.60	---	4, 5, 6, 16, 20, 21	4, 5, 20, 21, 33	4, 20, 21
		NO _x	5.02	---			
		CO	3.77	---			
		PM	1.97	---			
		PM ₁₀	1.97	---			
		PM _{2.5}	1.97	---			
		SO ₂	10.23	---			
		H ₂ S	≤0.01	---			
		CO ₂ (6)	41,247	---			
		CH ₄ (6)	1.66	---			
		N ₂ O (6)	0.33	---			
		CO ₂ e	41,388	---			

Major NSR Summary Table

Permit Numbers 151476, PSDTX1536, GHGPSDTX179					Issuance Date: April 23, 2021		
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 Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
MVCU 3	Marine Loading Vapor Combustor 3	VOC	7.60	---	4, 5, 6, 16, 20, 21	4, 5, 20, 21, 33	4, 20, 21
		NO _x	5.02	---			
		CO	3.77	---			
		PM	1.97	---			
		PM ₁₀	1.97	---			
		PM _{2.5}	1.97	---			
		SO ₂	10.23	---			
		H ₂ S	≤0.01	---			
		CO ₂ (6)	41,247	---			
		CH ₄ (6)	1.66	---			
		N ₂ O (6)	0.33	---			
		CO ₂ e	41,388	---			

Major NSR Summary Table

Permit Numbers 151476, PSDTX1536, GHGPSDTX179					Issuance Date: April 23, 2021		
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 Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
MVCU 4	Marine Loading Vapor Combustor 4	VOC	7.60	---	4, 5, 6, 16, 20, 21	4, 5, 20, 21, 33	4, 20, 21
		NO _x	5.02	---			
		CO	3.77	---			
		PM	1.97	---			
		PM ₁₀	1.97	---			
		PM _{2.5}	1.97	---			
		SO ₂	10.23	---			
		H ₂ S	≤0.01	---			
		CO ₂ (6)	41,247	---			
		CH ₄ (6)	1.66	---			
		N ₂ O (6)	0.33	---			
		CO ₂ e	41,388	---			

Major NSR Summary Table

Permit Numbers 151476, PSDTX1536, GHGPSDTX179					Issuance Date: April 23, 2021		
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 Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
MLVCU 1 MLVCU 2 MLVCU 3 MLVCU 4	Marine Loading Vapor Combustor – Annual Cap	VOC	---	26.82	4, 5, 6, 16, 20, 21	4, 5, 20, 21, 33	4, 20, 21
		NO _x	---	20.87			
		CO	---	15.65			
		PM	---	8.18			
		PM ₁₀	---	8.18			
		PM _{2.5}	---	8.18			
		SO ₂	---	35.75			
		H ₂ S	---	0.02			
		CO ₂ (6)	---	171,485			
		CH ₄ (6)	---	6.90			
		N ₂ O (6)	---	1.38			
CO ₂ e	---	172,069					
ML_FUG 1 ML_FUG 2	Marine Loading Fugitives Berth1 and Berth2 - CAP	VOC	24.35	26.14	4, 12, 13, 15, 17	4, 12, 13, 14, 17, 33	4, 12
		H ₂ S	0.02	0.02			
FUG	Fugitives (5)	VOC	5.36	23.49	12, 13	12, 13, 33	
		H ₂ S	<0.01	0.02			
TK-1001	Storage Tank TK-1001	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-1002	Storage Tank TK-1002	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			

Major NSR Summary Table

Permit Numbers 151476, PSDTX1536, GHGPSDTX179					Issuance Date: April 23, 2021		
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 Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
TK-1003	Storage Tank TK-1003	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-1004	Storage Tank TK-1004	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-1005	Storage Tank TK-1005	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-1006	Storage Tank TK-1006	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-1007	Storage Tank TK-1007	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-1008	Storage Tank TK-1008	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-1009	Storage Tank TK-1009	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-2001	Storage Tank TK-2001	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-2002	Storage Tank TK-2002	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-2003	Storage Tank TK-2003	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			

Major NSR Summary Table

Permit Numbers 151476, PSDTX1536, GHGPSDTX179					Issuance Date: April 23, 2021		
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 Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
TK-2004	Storage Tank TK-2004	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-2005	Storage Tank TK-2005	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-2006	Storage Tank TK-2006	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-2007	Storage Tank TK-2007	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-2008	Storage Tank TK-2008	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-3001	Storage Tank TK-3001	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-3002	Storage Tank TK-3002	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-3003	Storage Tank TK-3003	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-3004	Storage Tank TK-3004	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-3005	Storage Tank TK-3005	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			

Major NSR Summary Table

Permit Numbers 151476, PSDTX1536, GHGPSDTX179					Issuance Date: April 23, 2021		
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 Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
TK-3006	Storage Tank TK-3006	VOC	13.96	4.83	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	<0.01			
TK-5001	Surge Relief Storage Tank TK-5001	VOC	13.61	1.00	3, 8, 9, 10, 11, 26	3, 9, 10, 11, 26, 33	3
		H ₂ S	<0.01	0.01			
T-1	Diesel Storage Tank 1	VOC	0.07	<0.01	27	27, 33	
T-3	Chemical Additive Storage Tank 1	VOC	11.48	0.36	27, 32	27, 32, 33	
T-4	Chemical Additive Storage Tank 2	VOC	11.48	0.36	27, 32	27, 32, 33	
T-5	Chemical Additive Storage Tank 3	VOC	11.48	0.36	27, 32	27, 32, 33	
T-6	Chemical Additive Storage Tank 4	VOC	11.48	0.36	27, 32	27, 32, 33	
ADDFUG	Chemical Additives Storage Tank Fugitives (5)	VOC	0.06	0.26	12, 13, 32	12, 13, 32, 33	12
STRL_UNCL	Tank Roof Landing - Uncontrolled	VOC	104.31	4.43	22, 23, 24, 26	22, 23, 24, 26, 33	
		H ₂ S	0.26	0.01			

Major NSR Summary Table

Permit Numbers 151476, PSDTX1536, GHGPSDTX179					Issuance Date: April 23, 2021		
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 Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
MSS_COMB	Combustion Device for MSS Control	VOC	53.43	47.94	20, 21, 22, 23, 24, 26, 31	20, 21, 22, 23, 24, 26, 31, 33	20, 21
		NO _x	6.15	2.15			
		CO	8.20	2.87			
		PM	0.32	0.11			
		PM ₁₀	0.32	0.11			
		PM _{2.5}	0.32	0.11			
		SO ₂	6.53	4.17			
		H ₂ S	0.04	0.03			
		CO ₂ (6)	6,738	2,360			
		CH ₄ (6)	0.27	0.09			
		N ₂ O (6)	0.05	0.02			
		CO ₂ e	6,761	2,368			
FRTANK_SL	Sludge Frac Tanks – Carbon Canisters Control	VOC	0.07	0.16	22, 23, 24, 27, 29, 31	22, 23, 24, 27, 29, 31, 33	
		H ₂ S	0.03	0.06			
FRTANK_CR	Routine MSS Crude Frac Tank – Carbon Canisters Control	VOC	0.05	<0.01	22, 23, 24, 27, 29, 31	22, 23, 24, 27, 29, 31, 33	
		H ₂ S	0.03	<0.01			
FRTANK_WD	Water Draw Frac Tanks – Carbon Canisters Control	VOC	0.05	0.37	22, 23, 24, 27, 29, 31	22, 23, 24, 27, 29, 31, 33	
		H ₂ S	0.03	0.19			
FRTANK_LVP	Low Vapor Pressure Frac Tank	VOC	1.42	0.24	22, 23, 24, 27, 29, 31	22, 23, 24, 27, 29, 31, 33	
		H ₂ S	<0.01	<0.01			

Major NSR Summary Table

Permit Numbers 151476, PSDTX1536, GHGPSDTX179					Issuance Date: April 23, 2021		
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 Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
VTRUCK_HVP	High Vapor Pressure Vacuum Trucks	VOC	0.11	0.33	22, 23, 24, 28, 31	22, 23, 24, 28, 31, 33	
		H ₂ S	0.04	0.12			
VTRUCK_LVP	Low Vapor Pressure Vacuum Trucks	VOC	1.55	0.75	22, 23, 24, 28	22, 23, 24, 28, 33	
		H ₂ S	<0.01	<0.01			
MSS	Additional MSS activities	VOC	19.85	6.51	22, 23, 24	22, 23, 24, 33	
		H ₂ S	0.01	<0.01			
		PM	0.01	<0.01			
		PM ₁₀	<0.01	<0.01			
		PM _{2.5}	<0.01	<0.01			
FWP1	Firewater Pump 1	VOC	0.08	<0.01	3, 4	3, 4, 19, 33	3, 4
		NO _x	4.07	0.20			
		CO	1.38	0.07			
		PM	0.13	<0.01			
		PM ₁₀	0.13	<0.01			
		PM _{2.5}	0.13	<0.01			
		SO ₂	<0.01	<0.01			
		CO ₂ (6)	2,475	123.76			
		CH ₄ (6)	0.10	<0.01			
		N ₂ O (6)	0.02	<0.01			
		CO ₂ e	2,483	124.18			

Major NSR Summary Table

Permit Numbers 151476, PSDTX1536, GHGPSDTX179					Issuance Date: April 23, 2021		
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 Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
EMGEN	Emergency Generator	VOC	0.21	0.01	3, 4	3, 4, 19, 33	3, 4
		NO _x	0.61	0.03			
		CO	1.03	0.05			
		PM	0.06	<0.01			
		PM ₁₀	0.06	<0.01			
		PM _{2.5}	0.06	<0.01			
		SO ₂	<0.01	<0.01			
		CO ₂ (6)	2,475	123.76			
		CH ₄ (6)	0.10	<0.01			
		N ₂ O (6)	0.02	<0.01			
		CO ₂ e	2,484	124.18			

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code §101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- H₂S - hydrogen sulfide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- CO₂ - carbon dioxide
- N₂O - nitrous oxide
- CH₄ - methane
- CO₂e - carbon dioxide equivalents based on CO₂, N₂O, CH₄
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Emission rate is given for informational purposes only and does not constitute enforceable limit.



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
SOUTH TEXAS GATEWAY OPERATING LLC
Authorizing the Construction and Operation of
Buckeye South Texas Gateway Terminal
Located at Ingleside, San Patricio County, Texas
Latitude 27° 49' 37" Longitude -97° 11' 34"

Permits: 151476, GHGPSDTX179 and PSDTX1536

Amendment Date: April 23, 2021

Expiration Date: March 13, 2029

For the Commission

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

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

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

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

Common Acronyms in Air Permits

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

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

Special Conditions

Permit Number 151476, PSDTX1536, GHGPSDTX179

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

Federal Applicability

3. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60):
 - A. Subpart A, General Provisions.
 - B. Subpart Kb, 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.
 - C. Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
4. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63:
 - A. Subpart A, General Provisions.
 - B. Subpart Y, National Emission Standards for Marine Tank Vessel Loading Operations.
 - C. Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

Emission Standards and Operational Specifications

Vapor Combustion Unit

5. Vapor combustor unit (VCU) shall be designed and operated in accordance with the following requirements:
 - A. The vapor combustor units (EPNs MVCU1, MVCU2, MVCU3, and MVCU4) shall achieve 99.9 % control of the waste gas directed to it. This shall be ensured by maintaining the temperature in, or immediately downstream of, the combustion chamber above 1400°F prior to the initial stack test performed in accordance with Special Condition No. 21. **(04/2021)**

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 and during active loading operations.

- B. 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 $\pm 2.5^{\circ}\text{C}$.

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

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

6. Natural gas combusted at this facility for the purposes of pilot and assist gas shall be sweet natural gas containing no more than 5 grains of total sulfur per 100 dry standard cubic feet.

Storage Tanks

7. Tanks are approved to store the liquids on the Approved Product List, Attachment 1.
8. The true vapor pressure of any liquid stored at this facility in an atmospheric tank shall not exceed 11.0 psia.
9. Storage tanks are subject to the following requirements:
- A. An internal floating deck or "roof" shall be installed. 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 floating roof: (1) a liquid-mounted seal, (2) two continuous seals mounted one above the other, or (3) a mechanical shoe seal.
- B. For any tank equipped with a floating roof, the permit holder shall perform the visual inspections 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 inspection was performed, any measurements made, results of inspections and measurements made (including raw data), and actions taken to correct any deficiencies noted.
- C. The floating roof design shall incorporate sufficient flotation to conform to the requirements of API Code 650 dated November 1, 1998 except that an internal floating cover need not be designed to meet rainfall support requirements and the materials of construction may be steel or other materials.
- D. The tanks shall be designed to completely drain its entire contents to a sump in a manner that leaves no more than 9 gallons of free-standing liquid in the tank or the sump.
- E. 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. Fixed roof 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 that were used to determine the MAERT limits in the permit application (Form PI-1 April 16, 2018). Sample calculations from the application shall be attached to a copy of this permit at the plant site.
10. The hydrogen sulfide in the vapor space of any tank subject to this condition shall not exceed 1000 parts per million by volume (ppmv).
- A. In order to demonstrate compliance with this Special Condition, the permit holder shall determine the dissolved hydrogen sulfide concentration of each crude oil stock to be stored in the storage tanks identified above. The hydrogen sulfide concentration may be determined using method ASTM UOP163-10 or ASTM D7621-14. Colorimetric gas detector tubes may be used to determine H₂S concentrations if they are used in accordance with Special Condition No. 24(B). Any additional method of sampling method and analysis used must be approved by the TCEQ.
- B. In order to demonstrate compliance with this Special Condition, the permit holder shall conduct sampling to determine the concentration of H₂S in tank vapor spaces. H₂S concentration may be determined using an instrument meeting the requirements of paragraph A above, except that the "release concentration" shall be 1000 ppmv. Additional analytical methods may be approved by the TCEQ Regional Office.
- C. The frequency of sampling shall be the more frequent of:
- (1) annual; or
 - (2) within 60 days of any change of service for an affected tank.
- D. Records of H₂S concentrations measured to meet the requirements of this condition shall be maintained at the plant site. Records of Certificates or sampling results shall be kept for a period of five years.
11. This permit authorizes emissions from EPNs TK-1001 to TK-1009, TK-2001 to TK-2008, TK-3001 to TK-3006, and TK-5001 for the storage tanks identified in Attachment 1 during planned floating roof landings. Tank roof landings include all operations when the tank floating roof is on its supporting legs. These emissions are subject to the maximum allowable emission rates indicated in the MAERT. The following requirements apply to tank roof landings. **(04/2021)**
- A. At all times that the roof is resting on its leg supports, 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. The vapor recovery system collection rate shall be no less than 100 cubic feet per minute when the tank is idle or the tank is being drained, and two times the fill rate when the tank is being refilled.
- (3) The control device shall be operated as required by Special Condition No 5.
The roof shall be landed on its lowest legs 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. 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. 24.
- (4) The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged.
- (5) Degassing must be performed every 24 hours unless there is no standing liquid in the tank or the VOC partial pressure of the remaining liquid in the tank is less than 0.15 psia.

C. The tank shall not be opened or ventilated without control, except as allowed by (1) 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 24.
 - (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 7.1.3.2 of AP-42 "Compilation of Air Pollution Emission Factors, Chapter 7—Storage of Organic Liquids" dated November 2006 (or later edition) and the permit application.

Fugitive emissions

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

12. The following requirements apply to piping, valves, connectors, pumps, agitators, and compressors containing or in contact with fluids that could reasonably be expected to contain greater than or equal to 10 weight percent volatile organic compounds (VOC) at any time.

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

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

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

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 automatic seal failure detection and alarm system need not be monitored. These seal systems may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

- H. Damaged or leaking valves or connectors found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. Damaged or leaking pump, compressor, and agitator seals found to be emitting VOC in excess of 2,000 ppmv or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days 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) or 500 pounds, whichever is greater, the TCEQ Regional Manager and any local programs shall be notified and the TCEQ Executive Director 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 G through H 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.

Physical Inspections of Piping, Valves, Pumps, and Compressors – 28PI

- 13. Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment:
 - A. In addition to the requirement in Special Condition No. 12(B) to 12(E), all piping components shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.
 - B. Damaged or leaking valves, connectors, compressor seals, and pump seals found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown, the

repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. At the discretion of the TCEQ Executive Director or designated representative, early unit shutdown or other appropriate action may be required based on the number and severity of tagged leaks awaiting shutdown.

- C. 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.

Marine Loading

14. The permit holder shall maintain and update a monthly emissions record which includes calculated emissions of VOC from all loading operations (EPNs ML_FUG 1 and ML_FUG 2) over the previous rolling 12 month period. The record shall include the loading spot, control method used, quantity loaded in 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." **(04/2021)**
15. All lines and connectors shall be visually inspected for any defects prior to hookup. Lines and connectors that are visibly damaged shall be removed from service. Operations shall cease immediately upon detection of any liquid leaking from the lines or connections.
16. Loading emissions shall be vented to vapor combustion units (EPNs MVCU1, MVCU2, MVCU3, and MVCU4) with a 99.9% of minimum control efficiency. **(04/2021)**

Special Conditions for 99.9% Marine Loading Vapor Collection

17. The following additional requirements apply to loading of a volatile organic compound (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 within the first hour of loading and once every 8 hours thereafter for on-shore equipment and on board the ship.

- (1) If a liquid leak is detected during loading and cannot be repaired immediately (for example, by tightening a bolt or packing gland), then the loading operation shall cease until the leak is repaired.
- (2) If a vapor leak is detected by sight, sound, smell, or hydrocarbon gas analyzer during the loading operation, then a "first attempt" shall be made to repair the leak. Loading operations need not be ceased if the first attempt to repair the leak is not successful provided that the first attempt effort is documented by the owner or operator of the marine vessel and a copy of the repair log is made available to a representative of the marine terminal.
- (3) If the attempt to repair the leak is not successful and loading continues, emissions from the loading operation for that ship shall be calculated assuming a collection efficiency of 99%.
- (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.

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. **(04/2021)**

18. **Reserved.**

Emergency Engines

19. Fuel used for the firewater pump (EPN FWP1) and emergency generator (EPN EMGEN) shall be ultra-low sulfur diesel. Operation of each engine is limited to a total of 100 hours per year of non-emergency operation. Operational records to demonstrate compliance with this condition shall be kept on site for five years. **(04/2021)**

Compliance Assurance Monitoring

20. The following requirements apply to capture systems for a vapor combustion device (EPN MSS_COMB) and vapor combustor units (EPNs MVCU1, MVCU2, MVCU3, and MVCU4). **(04/2021)**
 - A. The permit holder shall either:
 - (1) Conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or
 - (2) Once a year, verify the capture system is leak-free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.
 - B. 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

- 21. 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 a vapor combustion device (EPN MSS_COMB) and vapor combustion units (EPNs MVCU1, MVCU2, MVCU3, and MVCU4) to demonstrate compliance with the MAERT and Special Condition Nos. 5 and 31. The permit holder is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. Sampling shall be conducted in accordance with the appropriate procedures of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual and the U.S. Environmental Protection Agency (EPA) Reference Methods. **(04/2021)**

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

- A. The appropriate TCEQ Regional Office shall be notified not less than 45 days prior to sampling. The notice shall include:
 - (1) Proposed date for pretest meeting.
 - (2) Date sampling will occur.
 - (3) Name of firm conducting sampling.
 - (4) Type of sampling equipment to be used.
 - (5) Method or procedure to be used in sampling.
 - (6) Description of any proposed deviation from the sampling procedures specified in this permit or TCEQ/EPA sampling procedures.
 - (7) Procedure/parameters to be used to determine worst case emissions during the sampling period.

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

- B. Air contaminants emitted from EPNs MVCU1, MVCU2, MVCU3, MVCU4, and MSS_COMB to be tested for include NO_x, CO and VOC. **(04/2021)**
- C. Sampling shall occur within 60 days after achieving the maximum operating rate, but no later than 180 days after initial start-up of the facilities (or increase in production, as appropriate) and at such other times (identify the need for any periodic sampling here) as may be required

by the TCEQ Executive Director. Requests for additional time to perform sampling shall be submitted to the appropriate regional office.

- D. The vapor combustor units (EPNs MVCU1, MVCU2, MVCU3, and MVCU4) and vapor combustion device (EPN MSS_COMB) shall be operated with maximum waste gas flow (loading rate) and VOC concentration to demonstrate compliance with the maximum allowable emission rate limits. 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. **(04/2021)**

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

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

One copy to the appropriate TCEQ Regional Office.

- F. Sampling ports and platform(s) shall be incorporated into the design of the vapor combustion device (EPN MSS_COMB) and vapor combustion units (EPNs MVCU1, MVCU2, MVCU3, and MVCU4) according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities" of the Texas Commission on Environmental Quality (TCEQ) Sampling Procedures Manual. Alternate sampling facility designs must be submitted for approval to the TCEQ Regional Director. **(04/2021)**

Planned Maintenance, Startup and Shutdown

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

Additionally, this permit authorizes emissions from the following temporary facilities used to support planned MSS activities at permanent site facilities: frac tanks, containers, vacuum trucks, portable vapor combustion device. Emissions from temporary facilities are authorized provided the temporary facility (a) does not remain on the plant site for more than 12 consecutive months, (b) is used solely to support planned MSS activities at the permanent site facilities listed in this Attachment, and (c) does not operate as a replacement for an existing authorized facility.

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

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

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

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

23. Process units and facilities, with the exception of those identified in Special Conditions Nos. 26, 27, 29, and Attachment A shall be depressurized, emptied, degassed, and placed in service in accordance with the following requirements.
- A. The process equipment shall be depressurized to a control device or a controlled recovery system prior to venting to atmosphere, degassing, or draining liquid. Equipment that only contains material that is liquid with VOC partial pressure less than 0.50 psi at the normal process temperature and 95°F may be opened to atmosphere and drained in accordance with paragraph C of this special condition. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded.
 - B. If mixed phase materials must be removed from process equipment, the cleared material shall be routed to a knockout drum or equivalent to allow for managed initial phase separation. If the VOC partial pressure is greater than 0.50 psi at either the normal process temperature or 95°F, any vents in the system must be routed to a control device or a controlled recovery system. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. Control must remain in place until degassing has been completed or the system is no longer vented to atmosphere.
 - C. All liquids from process equipment or storage vessels must be removed to the maximum extent practical prior to opening equipment to commence degassing and/or maintenance. Liquids must be drained into a closed vessel or closed liquid recovery system unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid must be covered or transferred to a covered vessel within one hour of being drained.
 - D. If the VOC partial pressure is greater than 0.50 psi at the normal process temperature or 95°F, facilities shall be degassed using good engineering practice to ensure air contaminants are removed from the system through the control device or controlled recovery system to the extent allowed by process equipment or storage vessel design. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. The facilities to be degassed shall not be vented directly to atmosphere, except as necessary to establish isolation of the work area or to monitor VOC concentration following controlled depressurization. The venting shall be minimized to the maximum extent practicable and actions taken recorded. The control device or recovery system utilized shall be recorded with the estimated emissions from controlled and uncontrolled degassing calculated using the methods that were used to determine allowable emissions for the permit application.
 - (1) For MSS activities identified in Attachment B, the following option may be used in lieu of (2) below. The facilities being prepared for maintenance shall not be vented directly

to atmosphere until the VOC concentration has been verified to be less than 10 percent of the lower explosive limit (LEL) per the site safety procedures.

- (2) The locations and/or identifiers where the purge gas or steam enters the process equipment or storage vessel and the exit points for the exhaust gases shall be recorded (process flow diagrams [PFDs] or piping and instrumentation diagrams [P&IDs] may be used to demonstrate compliance with the requirement). If the process equipment is purged with a gas, two system volumes of purge gas must have passed through the control device or controlled recovery system before the vent stream may be sampled to verify acceptable VOC concentration prior to uncontrolled venting. The VOC sampling and analysis shall be performed using an instrument meeting the requirements of Special Condition No. 24. The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged. If there is not a connection (such as a sample, vent, or drain valve) available from which a representative sample may be obtained, a sample may be taken upon entry into the system after degassing has been completed. The sample shall be taken from inside the vessel so as to minimize any air or dilution from the entry point. The facilities shall be degassed to a control device or controlled recovery system until the VOC concentration is less than 10,000 ppmv or 10 percent of the LEL. Documented site procedures used to de-inventory equipment to a control device for safety purposes (i.e., hot work or vessel entry procedures) that achieve at least the same level of purging may be used in lieu of the above.

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

All instances of venting directly to atmosphere per Special Condition No. 23.E must be documented when occurring as part of any MSS activity. The emissions associated with venting without control must be included in the work order or equivalent for those planned MSS activities identified in Attachment B.

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

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

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

VOC Concentration = Concentration as read from the instrument*RF

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

- (2) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording VOC concentration each minute. As an alternative the VOC concentration may be monitored over a five-minute period with an instrument designed to continuously measure concentration and record the highest concentration read. The highest measured VOC concentration shall be recorded and shall not exceed the specified VOC concentration limit prior to uncontrolled venting.
 - B. Colorimetric gas detector tubes may be used to determine air contaminant concentrations if they are used in accordance with the following requirements.
 - (1) The air contaminant concentration measured as defined in (3) is less than 80 percent of the range of the tube and is at least 20 percent of the maximum range of the tube.
 - (2) The tube is used in accordance with the manufacturer's guidelines.
 - (3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:

measured contaminant concentration (ppmv) < release concentration.

Where the release concentration is:

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.
25. This condition applies only to piping and components subject to leak detection and repair monitoring requirements identified in other NSR permits. 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;
 - A. a cap, blind flange, plug, or second valve must be installed on the line or valve; or
 - B. the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results

recorded. For all other situations, the open-ended valve or line shall be monitored once 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.

26. This permit authorizes emissions from EPN STRL_UNCL for the storage tanks identified in the attached facility list during planned floating roof landings. Tank roofs may only be landed for changes of tank service or tank inspection/maintenance as identified in the permit application. Emissions from change of service tank landings, emissions from the tank will be routed to a control device at all times. Tank roof landings include all operations when the tank floating roof is on its supporting legs. These emissions are subject to the maximum allowable emission rates indicated on the MAERT. The following requirements apply to tank roof landings.
- A. The tank liquid level shall be continuously lowered after the tank floating roof initially lands on its supporting legs until the tank has been drained to the maximum extent practicable without entering the tank. Liquid level may be maintained steady for a period of up to two hours if necessary to allow for valve lineups and pump changes necessary to drain the tank. This requirement does not apply where the vapor under a floating roof is routed to control or a controlled recovery system during this process.
- B. If the VOC partial pressure of the liquid previously stored in the tank is greater than 0.50 psi at 95°F, tank refilling or degassing of the vapor space under the landed floating roof must begin within 24 hours after the tank has been drained unless the vapor under the floating roof is routed to control or a controlled recovery system during this period. The tank shall not be opened except as necessary to set up for degassing and cleaning. Floating roof tanks with liquid capacities less than 100,000 gallons may be degassed without control if the VOC partial pressure of the standing liquid in the tank has been reduced to less than 0.02 psia prior to ventilating the tank. Controlled degassing of the vapor space under landed roofs shall be completed as follows:
- (1) Any gas or vapor removed from the vapor space under the floating roof must be routed to a control device or a controlled recovery system and controlled degassing must be maintained until the VOC concentration is less than 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. 24.
 - (4) The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged.

- (5) Degassing must be performed every 24 hours unless there is no standing liquid in the tank or the VOC partial pressure of the remaining liquid in the tank is less than 0.15 psia.
- C. The tank shall not be opened or ventilated without control, except as allowed by (1) or (2) below until one of the criteria in part D of this condition is satisfied.
 - (1) Minimize air circulation in the tank vapor space.
 - (a) One manway may be opened to allow access to the tank to remove or de-volatilize the remaining liquid. Other manways or access points may be opened as necessary to remove or de-volatilize the remaining liquid. Wind barriers shall be installed at all open manways and access points to minimize air flow through the tank.
 - (b) Access points shall be closed when not in use
- D. The tank may be opened without restriction and ventilated without control, after all standing liquid has been removed from the tank or the liquid remaining in the tank has a VOC partial pressure less than 0.02 psia. These criteria shall be demonstrated in any one of the following ways.
 - (1) Low VOC partial pressure liquid that is soluble with the liquid previously stored may be added to the tank to lower the VOC partial pressure of the liquid mixture remaining in the tank to less than 0.02 psia. This liquid shall be added during tank degassing if practicable. The estimated volume of liquid remaining in the drained tank and the volume and type of liquid added shall be recorded. The liquid VOC partial pressure may be estimated based on this information and engineering calculations.
 - (2) If water is added or sprayed into the tank to remove standing VOC, one of the following must be demonstrated:
 - (a) Take a representative sample of the liquid remaining in the tank and verify no visible sheen using the static sheen test from 40 CFR 435 Subpart A Appendix 1.
 - (b) Take a representative sample of the liquid remaining in the tank and verify hexane soluble VOC concentration is less than 1000 ppmw using EPA method 1664 (may also use 8260B or 5030 with 8015 from SW-846).
 - (c) Stop ventilation and close the tank for at least 24 hours. When the tank manway is opened after this period, verify VOC concentration is less than 1000 ppmv through the procedure in Special Condition no. 24.
 - (3) No standing liquid verified through visual inspection.
- E. The permit holder shall maintain records to document the method used to release the tank. Tanks shall be refilled as rapidly as practicable until the roof is off its legs with the following exceptions:
 - (1) Only one tank with a landed floating roof can be filled at any time at a rate not to exceed the rate specified in the following table: **(04/2021)**

Reason for Roof Landing	Filling Rate for Selected Control Device
	VCU
Change of Service	12,136 bbl/hr
Tank Cleaning	40,454 bbl/hr

- (2) The vapor space below the tank roof is directed to a control device when the tank is refilled until the roof is floating on the liquid. The control device used and the method

and locations used to connect the control device shall be recorded. All emissions from the tank being filled must exit through the control device.

- F. The occurrence of each roof landing and the associated emissions shall be recorded and the rolling 12-month tank roof landing emissions shall be updated on a monthly basis. These records shall include at least the following information:
- (1) the identification of the tank and emission point number, and any control devices or recovery systems used to reduce emissions;
 - (2) the reason for the tank roof landing;
 - (3) for the purpose of estimating emissions, the date, time, and other information specified for each of the following events:
 - (a) the roof was initially landed,
 - (b) all liquid was pumped from the tank to the extent practical,
 - (c) start and completion of controlled degassing, and total volumetric flow,
 - (d) all standing liquid was removed from the tank or any transfers of low VOC partial pressure liquid to or from the tank including volumes and vapor pressures to reduce tank liquid VOC partial pressure to <0.02 psi,
 - (e) if there is liquid in the tank, VOC partial pressure of liquid, start and completion of uncontrolled degassing, and total volumetric flow,
 - (f) refilling commenced, liquid filling the tank, and the volume necessary to float the roof; and
 - (g) tank roof off supporting legs, floating on liquid;
 - (4) the estimated quantity of each air contaminant, or mixture of air contaminants, emitted between events c and g with the data and methods used to determine it. The emissions associated with roof landing activities shall be calculated using the methods described in Section 7.1.3.2 of AP-42 "Compilation of Air Pollution Emission Factors, Chapter 7 - Storage of Organic Liquids" dated March 2020 and the permit application. **(04/2021)**
27. Fixed roof storage tanks are subject to the requirements of Special Condition Nos. 26.C. and 26.D. If the ventilation of the vapor space is controlled, the emission control system shall meet the requirements of Special Condition Nos. 26.B.(1) through 26.B.(4). Records shall be maintained per Special Condition Nos. 26.F.(3)c through 26.F.(3)e, and 26.F.(4).
28. The following requirements apply to vacuum and air mover truck operations to support planned MSS at this site:
- A. Prior to initial use, identify any liquid in the truck. Record the liquid level and document the VOC partial pressure. After each liquid transfer, identify the liquid, the volume transferred, and its VOC partial pressure.
 - B. If vacuum pumps or blowers are operated when liquid is in or being transferred to the truck, the following requirements apply:
 - (1) If the VOC partial pressure of the liquid in or being transferred to the truck is greater than 0.50 psi at 95°F, the vacuum/blower exhaust shall be routed to a control device or a controlled recovery system.
 - (2) Equip fill line intake with a "duckbill" or equivalent attachment if the hose end cannot be submerged in the liquid being collected.

- (3) A daily record containing the information identified below is required for each vacuum truck in operation at the site each day.
 - (a) For each liquid transfer made with the vacuum operating, record the duration of any periods when air may have been entrained with the liquid transfer. The reason for operating in this manner and whether a "duckbill" or equivalent was used shall be recorded. Short, incidental periods, such as those necessary to walk from the truck to the fill line intake, do not need to be documented.
 - (b) If the vacuum truck exhaust is controlled with a control device other than an engine or oxidizer, VOC exhaust concentration upon commencing each transfer, at the end of each transfer, and at least every hour during each transfer shall be recorded, measured using an instrument meeting the requirements of Special Condition Nos. 24.A or B.
 - C. Record the volume in the vacuum truck at the end of the day, or the volume unloaded, as applicable.
 - D. The permit holder shall determine the vacuum truck emissions each month using the daily vacuum truck records and the calculation methods utilized in the permit application. If records of the volume of liquid transferred for each pick-up are not maintained, the emissions shall be determined using the physical properties of the liquid vacuumed with the greatest potential emissions. Rolling 12 month vacuum truck emissions shall also be determined on a monthly basis.
 - E. If the VOC partial pressure of all the liquids vacuumed into the truck is less than 0.10 psi, this shall be recorded when the truck is unloaded or leaves the plant site and the emissions may be estimated as the maximum potential to emit for a truck in that service as documented in the permit application. The recordkeeping requirements in Special Condition Nos. 28.A through 28.D do not apply.
29. The following requirements apply to frac, or temporary, tanks and vessels used in support of MSS activities.
 - A. The exterior surfaces of these tanks/vessels that are exposed to the sun shall be white or aluminum effective May 1, 2013. This requirement does not apply to tanks/vessels that only vent to atmosphere when being filled, sampled, gauged, or when removing material.
 - B. These tanks/vessels must be covered and equipped with fill pipes that discharge within 6 inches of the tank/vessel bottom.
 - C. These requirements do not apply to vessels storing less than 450 gallons of liquid that are closed such that the vessel does not vent to atmosphere except when filling, sampling, gauging, or when removing material.
 - D. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all frac tanks during the previous calendar month and the past consecutive 12 month period. This record must be updated by the last day of the month following. The record shall include tank identification number, dates put into and removed from service, control method used, tank capacity and volume of liquid stored in gallons, name of the material stored, VOC molecular weight, and VOC partial pressure at the estimated monthly average material temperature in psia. Filling emissions for tanks shall be calculated using the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Loading Operations" and standing emissions determined using: the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Storage Tanks."

- E. If the tank/vessel is used to store liquid with VOC partial pressure less than 0.10 psi at 95°F, records may be limited to the days the tank is in service and the liquid stored. Emissions may be estimated based upon the potential to emit as identified in the permit application.
30. Additional occurrences of MSS activities authorized by this permit may be authorized under permit by rule only if conducted in compliance with this permit's procedures, emission controls, monitoring, and recordkeeping requirements applicable to the activity.
31. Control devices required by this permit for emissions from planned MSS activities are limited to those types identified in this condition. Control devices shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. Each device used must meet all the requirements identified for that type of control device.

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

A. Carbon Adsorption System (CAS).

- (1) The CAS shall consist of 2 carbon canisters in series with adequate carbon supply for the emission control operation.
- (2) The CAS shall be sampled downstream of the first can and the concentration recorded at least once every hour of CAS run time to determine breakthrough of the VOC.
- (3) The method of VOC sampling and analysis shall be by detector meeting the requirements of Special Condition Nos. 24.A or B.
- (4) Breakthrough is defined as the highest measured VOC concentration at or exceeding 100 ppmv above background. When the condition of breakthrough of VOC from the initial saturation canister occurs, the waste gas flow shall be switched to the second canister and a fresh canister shall be placed as the new final polishing canister within four hours. Sufficient new activated carbon canisters shall be maintained at the site to replace spent carbon canisters such that replacements can be done in the above specified time frame.
- (5) Records of CAS monitoring shall include the following:
 - (a) Sample time and date.
 - (b) Monitoring results (ppmv).
 - (c) Canister replacement log.
- (6) Single canister systems are allowed if the time the carbon canister is in service is limited to no more than 30 percent of the minimum potential saturation time. The permit holder shall maintain records for these systems, including the calculations performed to determine the saturation time. The time limit on carbon canister service shall be recorded and the expiration date attached to the carbon can.

B. Portable Flare

- (1) The heating value and velocity requirements in 40 CFR 60.18 shall be satisfied during operations authorized by this permit.
- (2) The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be

recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.

- (3) Hourly mass emission rates shall be determined and recorded using the above readings and the emission factors used in the permit initial application (PI-1 Form, April 16, 2018).

C. Vapor Combustor

- (1) The vapor combustion unit shall achieve 99 percent control of the waste gas directed to it. This shall be demonstrated by:
 - (a) Maintaining vapor combustor firebox exit temperature above 1400°F with waste gas flows that 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 vapor combustor.
 - (b) having completed a control efficiency demonstration (stack test) in accordance with the approved test methods in 30 TAC 115.545 (relating to Approved Test Methods) within the past 12 months and maintaining vapor combustor firebox exit temperature at not less than that temperature maintained during the demonstration with waste gas flow limited to that maintained during the demonstration while waste gas is being fed into the combustor.
 - (c) The vapor combustor exhaust temperature shall be continuously monitored and recorded when waste gas is directed to the Vapor Combustor. The temperature measurements shall be made at intervals of six minutes or less and recorded at that frequency.
 - (d) 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 $\pm 2.5^\circ\text{C}$.

Chemical Flexibility

32. Except as provided for below, the use of compounds at the additive tank and injection system is limited to those identified in the initial permit application (Form PI-1, dated April 16, 2018). New compounds may be authorized through the use of the procedure below, 30 TAC Chapter 106, or 30 TAC Chapter 116.
 - A. Short-term (pounds per hour [lb/hr]) and annual (TPY) emissions and calculations shall be completed for each chemical at each affected source. Emission rates (ER) shall be calculated in accordance with the methods documented in the initial permit application (Form PI-1, dated April 16, 2018). The calculated ER shall not exceed the maximum allowable emissions rate at any emission point.
 - B. The Effect Screening Level (ESL) for the compound shall be obtained from the current TCEQ ESL list or by written request to the TCEQ Toxicology Division. A record of each ESL obtained by written request shall be kept on file by the applicant.
 - C. The new materials shall serve the same basic function, and the emissions shall emit at the same Emission Point Nos. (EPNs) as the emissions currently authorized.
 - D. All the constituents of the new compound shall be known; i.e., the weight percentages of the constituents add to 100 percent or more.
 - E. Any air contaminant in the new compound is exempt from paragraphs F and G below if it meets E(1) or E(2) below:

- (1) The compound's annual ESL \geq 10 percent of the compound's short term ESL, is emitted at a rate, and has a short-term effects screening level (ESL), as stated in the following table:

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

- (2) It has a true vapor pressure at 68°F of less than 0.01 mm Hg.

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

- (1) Determine the emission rate of each air contaminant including emissions of the same air contaminant (if an existing air contaminant) from the currently authorized materials that may be emitted at the same time from each emission point.
- (2) Multiply the emission rate of the air contaminant by the unit impact multiplier for each emission point from the following table (or the appropriate screening table in TCEQ's Modeling and Effects Review Applicability (MERA) Guidance, APDG 5874) to determine the off-property impact Ground Level Concentration (GLC) for each emission point. **(04/2021)**

Emission Point Number	Unit Impacts ($\mu\text{g}/\text{m}^3$ per lb/hr)
T-3A	1211.84
T-4A	1299.04
T-5A	1408.41
T-6A	1507.79
ADDDFUGA	1873.13
T-3B	800.10
T-4B	833.06
T-5B	813.48
T-6B	839.70
ADDDFUGB	1,073.46
T-3C	1,620.94
T-4C	1,586.20
T-5C	1,510.57
T-6C	1,477.03
ADDDFUGC	1,954.91
T-3D	146.82
T-4D	146.05
T-5D	147.99
T-6D	149.83

Emission Point Number	Unit Impacts ($\mu\text{g}/\text{m}^3$ per lb/hr)
ADDDFUGD	223.20

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

$$\text{Total GLC}_{\text{MAX}} < \text{ESL}_{\text{SHORT}}$$

Where:

Total GLC_{MAX} = the sum of the short-term GLCs from each emission point.

$\text{ESL}_{\text{SHORT}}$ = the short-term ESL of the new or existing air contaminant from the most current ESL list published by the TCEQ or as specifically derived by TCEQ Toxicology Division. The ESL shall be obtained in writing prior to the use of the new or increased air contaminant.

- G. For all other new or increases in existing air contaminants, the following procedure shall be completed to determine if the annual impacts are acceptable.
 - (1) Determine the emission rate of each air contaminant including emissions of the same air contaminant (if an existing air contaminant) from the currently authorized materials that may be emitted at the same time from each emission point.
 - (2) Multiply the emission rate of the air contaminant by the unit impact multiplier for each emission point from the following table (or the appropriate screening table in TCEQ's MERA Guidance, APDG 5874) to determine the off-property impact Ground Level Concentration (GLC) for each emission point. **(04/2021)**

Emission Point Number	Unit Impacts ($\mu\text{g}/\text{m}^3$ per tpy)
T-3A	4.36
T-4A	5.03
T-5A	6.01
T-6A	6.93
ADDDFUGA	6.09
T-3B	4.59
T-4B	4.75
T-5B	4.81
T-6B	4.80
ADDDFUGB	5.28
T-3C	3.61
T-4C	3.51
T-5C	3.58
T-6C	3.57

Emission Point Number	Unit Impacts ($\mu\text{g}/\text{m}^3$ per tpy)
ADDDFUGC	3.57
T-3D	0.163
T-4D	0.162
T-5D	0.162
T-6D	0.162
ADDDFUGD	0.155

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

$$\text{Total GLC}_{\text{MAX}} < \text{ES}_{\text{ANNUAL}}$$

Where:

Total GLC_{MAX} = the sum of the long-term GLCs from each emission point.

ES_{LONG} = the annual ESL of the new or existing air contaminant from the most current ESL list published by the TCEQ or as specifically derived by TCEQ Toxicology Division. The ESL shall be obtained in writing prior to the use of the new or increased air contaminant.

- H. Additive tanks T-3, T-4, T-5, and T-6 may be moved to different locations within the plant site without prior TCEQ authorization approval provided impacts do not exceed the UIMs represented in Special Condition Nos. 32.F.(2) and SC 32.G.(2), Should the impacts exceed those previously represented, these impact increases must be authorized through submittal of a permit alteration or amendment, including a revised impacts analysis, to the TCEQ. **(04/2021)**
- I. The short-term or annual emission rates from new or existing air contaminants shall not cause any increases in the short-term or annual emission rates as listed on the maximum allowable emission rates table (MAERT).
- J. This special condition does not authorize the use of any chlorinated or fluorinated compound.
- K. The permit holder shall maintain records of the information below and the demonstrations in steps A through G above. The following documentation is required for each compound:
 - (1) Chemical name(s), composition, and chemical abstract registry number if available.
 - (2) True vapor pressure at maximum hourly and annual average storage temperature.
 - (3) Molecular weight.
 - (4) Storage tanks, loading areas, and fugitive areas where the material is to be handled and the emission control device to be utilized.
 - (5) Date new compound handling commenced.
 - (6) Safety Data Sheet.
 - (7) Maximum concentration of the chemical in mole percent (or in weight percent for fugitive areas) in the affected facilities.

Recordkeeping

33. All the records used to demonstrate compliance with the Special Conditions and the limits specified in the MAERT shall be maintained electronically or in hard copy format for at least five years. All records required in this permit shall be made available at the request of personnel from the TCEQ or any air pollution control agency with jurisdiction.

Monitoring, quality assurance/quality control requirements, emission calculation methodologies, record keeping, and reporting requirements related to GHG emissions shall adhere to the applicable requirements in 40 CFR Part 98 and this permit.

Dated: April 23, 2021

Permit Number 151476, PSDTX1536, GHGPSDTX179

Attachment 1

Approved Product List

Tank Identifier (EPN)	Product Stored	Tank Type	Tank Identifier (EPN)	Product Stored	Tank Type
TK-1001	Crude Oil	Internal floating roof tank	T-1	Diesel	Fixed roof tank
TK-1003	Crude Oil	Internal floating roof tank	T-3	Chemical Additives	Fixed roof tank
TK-1004	Crude Oil	Internal floating roof tank	T-4	Chemical Additives	Fixed roof tank
TK-1005	Crude Oil	Internal floating roof tank	T-5	Chemical Additives	Fixed roof tank
TK-1006	Crude Oil	Internal floating roof tank	T-6	Chemical Additives	Fixed roof tank
TK-1007	Crude Oil	Internal floating roof tank			
TK-1008	Crude Oil	Internal floating roof tank			
TK-1009	Crude Oil	Internal floating roof tank			
TK-2001	Crude Oil	Internal floating roof tank			
TK-2002	Crude Oil	Internal floating roof tank			
TK-2003	Crude Oil	Internal floating roof tank			
TK-2004	Crude Oil	Internal floating roof tank			
TK-2005	Crude Oil	Internal floating roof tank			
TK-2006	Crude Oil	Internal floating roof tank			
TK-2007	Crude Oil	Internal floating roof tank			
TK-2008	Crude Oil	Internal floating roof tank			
TK-3001	Crude Oil	Internal floating roof tank			
TK-3002	Crude Oil	Internal floating roof tank			
TK-3003	Crude Oil	Internal floating roof tank			
TK-3004	Crude Oil	Internal floating roof tank			
TK-3005	Crude Oil	Internal floating roof tank			
TK-3006	Crude Oil	Internal floating roof tank			
TK-5001	Crude Oil	Internal floating roof tank			

*Chemical additives include crude oil, cutter stock, diesel, and diesel exhaust.

Dated: April 23, 2021

Permit 151476, PSDTX1536, GHGPSDTX179

Attachment A

Inherently Low Emitting Activities

Activity	Emissions		
	VOC	H ₂ S	PM/PM ₁₀ /PM _{2.5}
Calibration of Instruments	X	X	
Carbon Canister Change-out	X	X	X
Calibration of Analyzers	X	X	
Meter Proving	X	X	
Basket Strainer Maintenance	X	X	
Pump Maintenance	X	X	
Pipeline Maintenance	X	X	

Dated: March 13, 2019

Permit 151476, PSDTX1536, GHGPSDTX179

Attachment B

MSS Activity Summary

Facilities	Description	Emissions Activity	EPN
all floating roof tanks	tank roof landing - uncontrolled	operation with landed roof	STRL_UNCL
all floating roof tanks	tank roof landing - combustion device control	vent to vapor combustion device	MSS_COMB
all frac tanks	frac tanks - combustion device control	vent to vapor combustion device	MSS_COMB
all frac tanks	sludge frac tanks - carbon canisters control	vent to carbon canisters	FRTANK_SL
all frac tanks	routine MSS crude frac tank - carbon canisters control	vent to carbon canisters	FRTANK_CR
all frac tanks	water draw frac tanks - carbon canisters control	vent to carbon canisters	FRTANK_WD
all frac tanks	low vapor pressure frac tank	vent to atmosphere	FRTANK_LVP
all vacuum trucks	high vapor pressure vacuum trucks	vent to atmosphere	VTRUCK_HVP
all vacuum trucks	low vapor pressure vacuum trucks	vent to atmosphere	VTRUCK_LVP
all process units	instrument calibration, carbon canister change-out, analyzer calibration, meter proving, basket strainer maintenance, pump maintenance, pipeline maintenance, pipeline pigging activities	vent to atmosphere	MSS

Dated: April 23, 2021

Emission Sources - Maximum Allowable Emission Rates

Permit Number 151476, PSDTX1536, GHGPSDTX179

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities authorized by this permit.

Air Contaminants Data

Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
MVCU 1	Marine Loading Vapor Combustor 1	VOC	7.60	-
		NO _x	5.02	-
		CO	3.77	-
		PM	1.97	-
		PM ₁₀	1.97	-
		PM _{2.5}	1.97	-
		SO ₂	10.23	-
		H ₂ S	<0.01	-
		CO ₂ (6)	41,247	-
		CH ₄ (6)	1.66	-
		N ₂ O (6)	0.33	-
		CO ₂ e	41,388	-
MVCU 2	Marine Loading Vapor Combustor 2	VOC	7.60	-
		NO _x	5.02	-
		CO	3.77	-
		PM	1.97	-
		PM ₁₀	1.97	-
		PM _{2.5}	1.97	-
		SO ₂	10.23	-
		H ₂ S	<0.01	-
		CO ₂ (6)	41,247	-
		CH ₄ (6)	1.66	-
		N ₂ O (6)	0.33	-
		CO ₂ e	41,388	-

Emission Sources - Maximum Allowable Emission Rates

Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
MVCU 3	Marine Loading Vapor Combustor 3	VOC	7.60	-
		NO _x	5.02	-
		CO	3.77	-
		PM	1.97	-
		PM ₁₀	1.97	-
		PM _{2.5}	1.97	-
		SO ₂	10.23	-
		H ₂ S	<0.01	-
		CO ₂ (6)	41,247	-
		CH ₄ (6)	1.66	-
		N ₂ O (6)	0.33	-
		CO ₂ e	41,388	-
MVCU 4	Marine Loading Vapor Combustor 4	VOC	7.60	-
		NO _x	5.02	-
		CO	3.77	-
		PM	1.97	-
		PM ₁₀	1.97	-
		PM _{2.5}	1.97	-
		SO ₂	10.23	-
		H ₂ S	<0.01	-
		CO ₂ (6)	41,247	-
		CH ₄ (6)	1.66	-
		N ₂ O (6)	0.33	-
		CO ₂ e	41,388	-

Emission Sources - Maximum Allowable Emission Rates

Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)

Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rate	
			lbs/hour	TPY (4)
MLVCU 1 MLVCU 2 MLVCU 3 MLVCU 4	Marine Loading Vapor Combustor – Annual Cap	VOC	-	26.82
		NO _x	-	20.87
		CO	-	15.65
		PM	-	8.18
		PM ₁₀	-	8.18
		PM _{2.5}	-	8.18
		SO ₂	-	35.75
		H ₂ S	-	0.02
		CO ₂ (6)	-	171,485
		CH ₄ (6)	-	6.90
		N ₂ O (6)	-	1.38
CO ₂ e	-	172,069		
ML_FUG 1 ML_FUG 2	Marine Loading Fugitives Berth1 and Berth2 - CAP	VOC	24.35	26.14
		H ₂ S	0.02	0.02
FUG	Fugitives (5)	VOC	5.36	23.49
		H ₂ S	<0.01	0.02
TK-1001	Storage Tank TK-1001	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-1002	Storage Tank TK-1002	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-1003	Storage Tank TK-1003	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-1004	Storage Tank TK-1004	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-1005	Storage Tank TK-1005	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-1006	Storage Tank TK-1006	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-1007	Storage Tank TK-1007	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
TK-1008	Storage Tank TK-1008	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-1009	Storage Tank TK-1009	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
TK-2001	Storage Tank TK-2001	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-2002	Storage Tank TK-2002	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-2003	Storage Tank TK-2003	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-2004	Storage Tank TK-2004	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-2005	Storage Tank TK-2005	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-2006	Storage Tank TK-2006	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-2007	Storage Tank TK-2007	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-2008	Storage Tank TK-2008	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-3001	Storage Tank TK-3001	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-3002	Storage Tank TK-3002	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-3003	Storage Tank TK-3003	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-3004	Storage Tank TK-3004	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-3005	Storage Tank TK-3005	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01
TK-3006	Storage Tank TK-3006	VOC	13.96	4.83
		H ₂ S	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
TK-5001	Surge Relief Storage Tank TK-5001	VOC	13.61	1.00
		H ₂ S	<0.01	0.01
T-1	Diesel Storage Tank 1	VOC	0.07	<0.01
T-3	Chemical Additive Storage Tank 1	VOC	11.48	0.36
T-4	Chemical Additive Storage Tank 2	VOC	11.48	0.36
Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
T-5	Chemical Additive Storage Tank 3	VOC	11.48	0.36
T-6	Chemical Additive Storage Tank 4	VOC	11.48	0.36
ADDFUG	Chemical Additives Storage Tank Fugitives (5)	VOC	0.06	0.26
STRL_UNCL	Tank Roof Landing - Uncontrolled	VOC	104.31	4.43
		H ₂ S	0.26	0.01
MSS_COMB	Combustion Device for MSS Control	VOC	53.43	47.94
		NO _x	6.15	2.15
		CO	8.20	2.87
		PM	0.32	0.11
		PM ₁₀	0.32	0.11
		PM _{2.5}	0.32	0.11
		SO ₂	6.53	4.17
		H ₂ S	0.04	0.03
		CO ₂ (6)	6,738	2,360
		CH ₄ (6)	0.27	0.09
		N ₂ O (6)	0.05	0.02
CO ₂ e	6,761	2,368		
FRTANK_SL	Sludge Frac Tanks – Carbon Canisters Control	VOC	0.07	0.16
		H ₂ S	0.03	0.06
FRTANK_CR	Routine MSS Crude Frac Tank – Carbon Canisters Control	VOC	0.05	<0.01
		H ₂ S	0.03	<0.01
FRTANK_WD	Water Draw Frac Tanks – Carbon Canisters Control	VOC	0.05	0.37
		H ₂ S	0.03	0.19

Emission Sources - Maximum Allowable Emission Rates

Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
FRTANK_LVP	Low Vapor Pressure Frac Tank	VOC	1.42	0.24
		H ₂ S	<0.01	<0.01
VTRUCK_HVP	High Vapor Pressure Vacuum Trucks	VOC	0.11	0.33
		H ₂ S	0.04	0.12
VTRUCK_LVP	Low Vapor Pressure Vacuum Trucks	VOC	1.55	0.75
		H ₂ S	<0.01	<0.01

Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
MSS	Additional MSS activities	VOC	19.85	6.51
		H ₂ S	0.01	<0.01
		PM	0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
FWP1	Firewater Pump 1	VOC	0.08	<0.01
		NO _x	4.07	0.20
		CO	1.38	0.07
		PM	0.13	<0.01
		PM ₁₀	0.13	<0.01
		PM _{2.5}	0.13	<0.01
		SO ₂	<0.01	<0.01
		CO ₂ (6)	2,475	123.76
		CH ₄ (6)	0.10	<0.01
		N ₂ O (6)	0.02	<0.01
		CO _{2e}	2,483	124.18
EMGEN	Emergency Generator	VOC	0.21	0.01
		NO _x	0.61	0.03
		CO	1.03	0.05
		PM	0.06	<0.01
		PM ₁₀	0.06	<0.01
		PM _{2.5}	0.06	<0.01
		SO ₂	<0.01	<0.01
CO ₂ (6)	2,475	123.76		

Emission Sources - Maximum Allowable Emission Rates

Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		CH ₄ (6)	0.10	<0.01
		N ₂ O (6)	0.02	<0.01
		CO ₂ e	2,484	124.18

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- H₂S - hydrogen sulfide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- CO₂ - carbon dioxide
- N₂O - nitrous oxide
- CH₄ - methane
- CO₂e - carbon dioxide equivalents based on CO₂, N₂O, CH₄
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Emission rate is given for informational purposes only and does not constitute enforceable limit.

DATE: April 23, 2021