

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Occidental Permian, Ltd.

AUTHORIZING THE OPERATION OF
Wasson CO₂ Removal Plant
Crude Petroleum and Natural Gas Extraction

LOCATED AT
Yoakum County, Texas
Latitude 33° 0' 36" Longitude 102° 45' 15"
Regulated Entity Number: RN100226687

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: O553 Issuance Date: _____

For the Commission

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General Terms and Conditions

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

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

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

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

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

Special Terms and Conditions:

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

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
 - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
 - E. Emission units subject to 40 CFR Part 63, Subparts HH or ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113,

Subchapter C, §§ 113.390 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. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)
- (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
 - (4) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the

applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)

- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- C. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- D. 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. 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)

5. 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.
6. For oil and natural gas production facilities as specified in 40 CFR Part 63, Subpart HH, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.390 incorporated by reference):
 - A. Title 40 CFR § 63.760(a)(1)(i) - (iii) (relating to Applicability and Designation of Affected Source)
7. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

8. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached "CAM Summary" upon issuance of the permit. In addition, the permit holder shall comply with the following:
 - A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
 - B. The permit holder shall report, consistent with the averaging time identified in the "CAM Summary," deviations as defined by the deviation limit in the "CAM Summary." Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).
 - C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "CAM Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
 - D. The permit holder shall operate the monitoring, identified in the attached "CAM Summary," in accordance with the provisions of 40 CFR § 64.7.
 - E. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.
9. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable,

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

New Source Review Authorization Requirements

10. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated August 7, 2025 in the application for project 37524), 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
11. 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.
12. 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

13. 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.
14. Use of Discrete Emission Credits to comply with the applicable requirements:

- A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
- B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Risk Management Plan

- 15. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

Protection of Stratospheric Ozone

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

Permit Location

17. 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)

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

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Unit Summary	12
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Applicable Requirements Summary	13
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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
EMFP1	SRIC ENGINES	N/A	60III-0001	40 CFR Part 60, Subpart IIII	No changing attributes.
EMFP1	SRIC ENGINES	N/A	63ZZZZ-0001	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
EMFP2	SRIC ENGINES	N/A	60III-0001	40 CFR Part 60, Subpart IIII	No changing attributes.
EMFP2	SRIC ENGINES	N/A	63ZZZZ-0001	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
F1-6	FUGITIVE EMISSION UNITS	N/A	40CFR60-KKK	40 CFR Part 60, Subpart KKK	No changing attributes.
FE1	FLARES	N/A	30TAC111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
FE1	FLARES	N/A	30TAC111	40 CFR Part 60, Subpart A	No changing attributes.
GRPDEHY	GLYCOL DEHYDRATION	DEHY1	40CFR63HH	40 CFR Part 63, Subpart HH	No changing attributes.
GRPTURBINE	STATIONARY TURBINES	TE1, TE1R	40CFR60GG	40 CFR Part 60, Subpart GG	No changing attributes.
SULFURUNIT	GAS SWEETENING/SULFUR RECOVERY UNITS	N/A	30TAC112	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
SULFURUNIT	GAS SWEETENING/SULFUR RECOVERY UNITS	N/A	60LLL	40 CFR Part 60, Subpart LLL	No changing attributes.
TE1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	111.111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
TE1R	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	111.111	30 TAC Chapter 111, Visible Emissions	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)
EMFP1	EU	60IIII-0001	NMHC and NO _x	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with an NMHC+NO _x emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart.	None	None	[G]§ 60.4214(d)
EMFP1	EU	60IIII-0001	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.	None	None	[G]§ 60.4214(d)
EMFP1	EU	63ZZZZ-0001	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	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)
						compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
EMFP2	EU	60III-0001	NMHC and NO _x	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with an NMHC+NO _x emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart.	None	None	[G]§ 60.4214(d)
EMFP2	EU	60III-0001	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.	None	None	[G]§ 60.4214(d)
EMFP2	EU	63ZZZ-0001	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
F1-6	EU	40CFR60-KKK	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(d) § 60.482-9(f) § 60.486(k)	Comply with the requirements for pumps in heavy liquid service as stated in §60.482-8, except as provided in §60.633.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)
F1-6	EU	40CFR60-KKK	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a)	Comply with the requirements for valves in heavy liquid service as stated in §60.482-8, except as provided in §60.633.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k)				
F1-6	EU	40CFR60-KKK	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) § 60.486(k)	Comply with the requirements for pressure relief devices in light liquid service as stated in §60.482-8, except as provided in §60.633.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)
F1-6	EU	40CFR60-KKK	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) § 60.486(k)	Comply with the requirements for pressure relief devices in heavy liquid service as stated in §60.482-8, except as provided in §60.633.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)
F1-6	EU	40CFR60-KKK	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) § 60.486(k)	Comply with the requirements for connectors as stated in §60.482-8, except as provided in §60.633.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) § 60.632(d)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-9(a) § 60.482-9(b) § 60.486(k)				
F1-6	EU	40CFR60-KKK	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.18 § 60.482-1(a) § 60.482-1(b) § 60.482-10(d) § 60.482-10(m) § 60.486(k) § 60.633(g)	Comply with the requirements for closed vent systems and control devices - flares - as stated in §60.482-10(d) and §60.482-1(a), (b) and (d), except as provided in §60.633.	§ 60.482-10(e) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) [G]§ 60.485(g) § 60.632(d)	[G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)
F1-6	EU	40CFR60-KKK	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-10(f) [G]§ 60.482-10(g) § 60.482-10(h) § 60.482-10(i) [G]§ 60.482-10(j) [G]§ 60.482-10(k) § 60.482-10(m) § 60.486(k)	Comply with the requirements for closed vent systems and control devices – closed vent systems - as stated in §60.482-10(g) and §60.482-1(a), (b) and (d), except as provided in §60.633.	§ 60.485(a) [G]§ 60.485(b) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) § 60.632(d)	[G]§ 60.482-10(l) [G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)
F1-6	EU	40CFR60-KKK	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-7(b) § 60.482-7(d)(1) § 60.482-7(d)(2) [G]§ 60.482-7(e) [G]§ 60.482-7(f) [G]§ 60.482-7(g) [G]§ 60.482-7(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f)	Comply with the requirements for valves in light liquid service as stated in §60.482-7 and §60.482-1(a), (b) and (d), except as provided in §60.633.	§ 60.482-7(a)(1) [G]§ 60.482-7(a)(2) § 60.482-7(c)(1)(i) § 60.482-7(c)(1)(ii) § 60.482-7(c)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.486(k)				
F1-6	EU	40CFR60-KKK	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-7(b) § 60.482-7(d)(1) § 60.482-7(d)(2) [G]§ 60.482-7(e) [G]§ 60.482-7(f) [G]§ 60.482-7(g) [G]§ 60.482-7(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k)	Comply with the requirements for valves in gas/vapor service as stated in §60.482-7 and §60.482-1(a), (b) and (d), except as provided in §60.633.	§ 60.482-7(a)(1) [G]§ 60.482-7(a)(2) § 60.482-7(c)(1)(i) § 60.482-7(c)(1)(ii) § 60.482-7(c)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) § 60.632(d)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)
F1-6	EU	40CFR60-KKK	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-4(a) § 60.482-4(b)(1) § 60.482-4(c) § 60.482-4(d)(1) § 60.482-4(d)(2) § 60.482-9(a) § 60.482-9(b) § 60.486(k) [G]§ 60.633(b)(3)	Comply with the requirements for pressure relief devices in gas/vapor service as stated in §60.482-4 and 60.482-1(a), (b) and (d), except as provided in §60.633.	§ 60.482-4(b)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) § 60.632(d) § 60.633(b)(1) § 60.633(b)(2) [G]§ 60.633(b)(3) [G]§ 60.633(b)(4)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) § 60.633(b)(1) [G]§ 60.633(b)(4) [G]§ 60.635(b)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)
F1-6	EU	40CFR60-KKK	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-3(a) [G]§ 60.482-3(b) § 60.482-3(c) § 60.482-3(d) § 60.482-3(e)(1) § 60.482-3(e)(2)	Comply with the requirements for compressors as stated in §60.482-3 and §60.482-1(a), (b) and (d), except as provided in §60.633.	§ 60.482-3(e)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) § 60.632(d)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-3(f) § 60.482-3(g)(1) § 60.482-3(g)(2) § 60.482-3(h) [G]§ 60.482-3(i) § 60.482-3(j) § 60.482-9(a) § 60.482-9(b) § 60.486(k)				
F1-6	EU	40CFR60-KKK	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-2(b)(1) [G]§ 60.482-2(b)(2) § 60.482-2(c)(1) [G]§ 60.482-2(c)(2) § 60.482-2(d) [G]§ 60.482-2(d)(1) § 60.482-2(d)(2) § 60.482-2(d)(3) [G]§ 60.482-2(d)(4) [G]§ 60.482-2(d)(5) [G]§ 60.482-2(d)(6) [G]§ 60.482-2(e) § 60.482-2(f) [G]§ 60.482-2(g) § 60.482-2(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(d) § 60.482-9(f) § 60.486(k)	Comply with the requirements for pumps in light liquid service as stated in §60.482-2 and §60.482-1(a), (b) and (d), except as provided in §60.633.	[G]§ 60.482-2(a) [G]§ 60.482-2(b)(2) [G]§ 60.482-2(d)(4) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(h) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)
F1-6	EU	40CFR60-KKK	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(f)	The owner/operator shall demonstrate that equipment is not in VOC service or not in wet gas service in accordance with §60.632(f).	§ 60.632(f)	§ 60.632(f)	None
F1-6	EU	40CFR60-	VOC	40 CFR Part 60,	§ 60.633(f)	Reciprocating compressors	None	§ 60.486(j)	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)
		KKK		Subpart KKK		in wet gas service are exempt from the compressor control requirements of §60.482-3.		§ 60.635(c)	
FE1	EU	30TAC111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
FE1	CD	30TAC111	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None
GRPDEHY	EU	40CFR63 HH	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.764(e)(1)(ii) § 63.764(a) § 63.764(e)(1) § 63.764(j) § 63.775(c)(8)	The owner or operator of an area source is exempt from the requirements of §63.764(d) when the actual average emissions of benzene from the glycol dehydration unit process vent to the atmosphere < 0.90 megagram/yr, as determined by the procedures specified in §63.772(b)(2) of this subpart.	[G]§ 63.772(b)(2)	§ 63.774(d)(1) § 63.774(d)(1)(ii)	None
GRPTURBINE	EU	40CFR60 GG	NO _x	40 CFR Part 60, Subpart GG	§ 60.332(a)(2) § 60.332(a)(3) § 60.332(f) § 60.332(i) § 60.332(k)	No owner or operator shall discharge into the atmosphere from any stationary gas turbine, any gases which contain	§ 60.334(a) § 60.334(g) § 60.334(j) § 60.334(j)(1) [G]§ 60.334(j)(1)(i)	§ 60.334(a) § 60.334(g)	§ 60.334(j) § 60.334(j)(3) § 60.334(j)(4) § 60.334(j)(5)

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)
						nitrogen oxides in excess of the amount as determined from the specified equation.	[G]§ 60.335(a) § 60.335(b)(1) § 60.335(b)(2) § 60.335(b)(4) § 60.335(c)(1) ** See CAM Summary		
GRPTURBINE	EU	40CFR60 GG	SO ₂	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) § 60.334(h)(1) § 60.334(i) § 60.334(i)(2) § 60.334(j) § 60.334(j)(2)(i) § 60.334(j)(2)(iii)	§ 60.334(i) § 60.334(i)(2)	§ 60.334(j) § 60.334(j)(5)
SULFURUNIT	EU	30TAC112	SO ₂	30 TAC Chapter 112, Sulfur Compounds	§ 112.7(a) § 112.7(b)	No person may cause, suffer, allow, or permit emissions of SO ₂ to exceed the emission limits specified for stack effluent flow rates less than or equal to 4,000 scfm as determined by the specified equation in §112.7(a).	§ 112.2(a) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)
SULFURUNIT	PRO	60LLL	SO ₂	40 CFR Part 60, Subpart LLL	§ 60.642(b) § 60.642(a)	After demonstrating compliance with Paragraph (a), the owner or operator shall achieve a minimum SO ₂ emission reduction efficiency, Zc, as determined from Table 2.	[G]§ 60.643(a)(1) § 60.643(a)(2) § 60.643(b) § 60.644(a) [G]§ 60.644(b) § 60.644(c) § 60.644(c)(1) § 60.644(c)(2) § 60.644(c)(3) § 60.644(c)(4) § 60.644(c)(4)(i) § 60.644(c)(4)(iii) § 60.644(c)(4)(iv) § 60.644(d)	§ 60.647(a)	§ 60.647(b) § 60.647(b)(1) § 60.647(b)(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)
							[G]§ 60.646(a) [G]§ 60.646(b) [G]§ 60.646(d) § 60.646(f) § 60.646(g) [G]§ 60.648		
TE1	EP	111.111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
TE1R	EP	111.111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

Additional Monitoring Requirements

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CAM Summary

Unit/Group/Process Information	
ID No.: GRPTURBINE	
Control Device ID No.: SWISTE1	Control Device Type: Steam/water injection system
Control Device ID No.: SWISTER1	Control Device Type: Steam/water injection system
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart GG	SOP Index No.: 40CFR60GG
Pollutant: NO _x	Main Standard: § 60.332(a)(2)
Monitoring Information	
Indicator: Steam or Water Flow Rate	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: From the latest test data: Use 0 gpm water up to 19.5 MW. After 19.5 MW, there is a linear increase in water injection rate to 3.3 gpm at 22.5 MW.	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within $\pm 5\%$.	

CAM Summary

Unit/Group/Process Information	
ID No.: GRPTURBINE	
Control Device ID No.: SWISTE1	Control Device Type: Steam/water injection system
Control Device ID No.: SWISTER1	Control Device Type: Steam/water injection system
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart GG	SOP Index No.: 40CFR60GG
Pollutant: NO _x	Main Standard: § 60.332(a)(2)
Monitoring Information	
Indicator: Fuel Consumption	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: From the latest test data: Maximum fuel use = 3754 MMscf/year.	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the fuel flow meter is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within ± 5%.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: SULFURUNIT	
Control Device ID No.: IE1	Control Device Type: Sulfur recovery unit with incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: 30TAC112
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: Four times per hour	
Averaging Period: Daily	
Deviation Limit: When waste gas is being directed to the incinerator, any monitoring data below 1200 F shall be considered and reported as a deviation.	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The minimum combustion temperature is 1200 degrees F (649 degrees C) when waste gas is being directed to the incinerator. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: SULFURUNIT	
Control Device ID No.: IE1	Control Device Type: Sulfur recovery unit with incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: 30TAC112
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: SO ₂ Mass Emissions in Pounds per Hour	
Minimum Frequency: Four times per hour	
Averaging Period: Hourly	
Deviation Limit: Any monitoring data above 16.48 lb/hr SO ₂ shall be considered and reported as a deviation.	
Periodic Monitoring Text: A continuous emission monitoring system (CEMS) that measures and records the mass emissions rate of sulfur dioxide expressed in pounds per hour in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B. The maximum SO_x mass emission rate is the applicable or corresponding emission limit. Any monitoring data above the limit from the underlying applicable requirement shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: TE1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: 111.111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Fuel Type	
Minimum Frequency: Annually	
Averaging Period: N/A	
Deviation Limit: Use of fuel other than natural gas.	
Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, it shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: TE1R	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: 111.111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Fuel Type	
Minimum Frequency: Annually	
Averaging Period: N/A	
Deviation Limit: Use of fuel other than natural gas.	
Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, it shall be considered and reported as a deviation.	

Permit Shield

Permit Shield 31

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
COOLTWR	N/A	40 CFR Part 63, Subpart Q	Cooling tower unit does not use chromium-based water treatment chemicals and site is not major for HAPs.
GRPTNK-A	TK-METHANOL, V-2801, V2-2501, V2-2502, V2-2503, V2-2751, V6-1304	30 TAC Chapter 115, Storage of VOCs	Unit is not located in an applicable area.
GRPTNK-A	TK-METHANOL, V-2801, V2-2501, V2-2502, V2-2503, V2-2751, V6-1304	40 CFR Part 60, Subpart Kb	Vessel is less than 75 cubic meters.

New Source Review Authorization References

New Source Review Authorization References	33
New Source Review Authorization References by Emission Unit.....	34

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.: GHGPSDTX228	Issuance Date: 03/08/2024
PSD Permit No.: PSDTX682M1	Issuance Date: 03/08/2024
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.: 16754	Issuance Date: 03/08/2024
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 66	Version No./Date: 04/05/1995
Number: 106.352	Version No./Date: 11/22/2012
Number: 106.359	Version No./Date: 09/10/2013
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.476	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 09/04/2000
Number: 106.511	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**
COOLTWR	COOLING TOWER	106.371/09/04/2000
DEHY1	GLYCOL DEHYDRATOR 1	16754, GHGPSDTX228, PSDTX682M1
EMFP1	DIESEL EMERGENCY FIRE WATER PUMP 1	106.511/09/04/2000
EMFP2	DIESEL EMERGENCY FIRE WATER PUMP 2	106.511/09/04/2000
F1-6	PROCESS FUGITIVES	16754, GHGPSDTX228, PSDTX682M1, 66/04/05/1995 [28996], 106.352/11/22/2012
FE1	EMERGENCY FLARE	16754, GHGPSDTX228, PSDTX682M1
SULFURUNIT	LOCAT PROCESS	16754, GHGPSDTX228, PSDTX682M1
TE1	TURBINE GENERATOR	16754, GHGPSDTX228, PSDTX682M1
TE1R	REPLACEMENT TURBINE GENERATOR	16754, GHGPSDTX228, PSDTX682M1
TK-METHANOL	METHANOL TANK	106.478/09/04/2000
V-2801	TEG MAKE-UP TANK	106.472/09/04/2000
V2-2501	H-50 OIL TANK	106.472/09/04/2000
V2-2502	FE5.5 TANK	106.472/09/04/2000
V2-2503	25% CAUSTIC TANK	106.472/09/04/2000
V2-2751	CALCIUM NITRATE TANK	106.472/09/04/2000
V6-1304	SULFURIC ACID TANK	106.472/09/04/2000

**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 36

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 38

Major NSR Summary Table

Permit Numbers: 16754 and PSDTX682M1					Issuance Date: March 8, 2024		
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
FE1	Process Flare Normal Operation (7)	CO	328.39	41.57	6, 23	6, 23, 24	
		H ₂ S	5.66	0.22			
		NO _x	38.97	7.80			
		SO ₂	531.96	19.98			
		VOC (9)	179.78	14.10			
		HAP	19.88	1.47			
	Process Flare - Gas Flaring (8)	CO	569.57	170.87	4, 6, 22, 23, 28	4, 6, 11, 22, 23, 24, 28	4
		H ₂ S	8.31	2.49			
		NO _x	66.43	19.93			
		SO ₂	781.19	234.36			
		VOC (9)	308.66	92.60			
		HAP	34.66	10.40			
IE1	Lo-Cat Unit Incinerator	CO	11.42	50.00	3, 6, 7, 12, 13, 14, 15, 16, 20, 21, 22	3, 5, 6, 7, 12, 13, 14, 16, 20, 21, 22, 24	3, 16, 20, 25
		H ₂ S	0.01	0.03			
		NO _x	4.57	20.00			
		PM	0.87	3.83			
		PM ₁₀	0.87	3.83			
		PM _{2.5}	0.87	3.83			
		SO ₂	16.48	72.00			
		TRS	1.20	5.25			

Major NSR Summary Table

Permit Numbers: 16754 and PSDTX682M1					Issuance Date: March 8, 2024		
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
		VOC (9)	0.55	2.40			
		HAP	0.13	0.58			
TE1	Turbine Generator, Turbine Replacement and Auxiliary Heater	CO (5)	81.70	358.10	3, 6, 7, 9, 10, 15, 16, 17, 18, 19	3, 5, 6, 7, 8, 9, 10, 16, 17, 18, 19, 24	3, 16, 25
		NO _x (5)	85.50	374.80			
		PM	1.98	8.69			
		PM ₁₀	1.98	8.69			
		PM _{2.5}	1.98	8.69			
		SO ₂	1.02	4.47			
		VOC (9)	0.63	2.76			
		HAP	0.31	1.35			
F1-6	Process Fugitives (6)	H ₂ S	0.01	0.04	3, 26, 27	3, 26, 27	3
		VOC (9)	8.67	38.00			
		HAP	0.93	4.06			

(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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented

PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

H₂S - hydrogen sulfide

TRS - total reduced sulfur

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

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) PSDTX682 authorized emissions.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (7) Process Flare Normal Operation emissions authorize the activities specified in Special Condition No. 23.E.
- (8) Gas Flaring emissions only authorize maintenance startup, and shutdown (MSS) and alternate operating scenarios (AOS) activities as represented in Special Condition No. 28.
- (9) Speciated HAPs emissions rates are quantified in the total VOC emission rate.

Major NSR Summary Table

Permit Number: GHGPSDTX228				Issuance Date: March 8, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			TPY (4)	Special Conditions/ Application Information	Special Conditions/ Application Information	Special Conditions/ Application Information
FE1	Process Flare – Gas Flaring	CO ₂ (5)	184,185	30	30, 31	
		CH ₄ (5)	145			
		N ₂ O (5)	0.408			
		CO ₂ e	187,931			

(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) CO₂ - carbon dioxide

N₂O - nitrous oxide

CH₄ - methane

HFCs - hydrofluorocarbons

PFCs - perfluorocarbons

SF₆ - sulfur hexafluoride

CO₂e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):

CO₂ (1), N₂O (298), CH₄(25), SF₆ (22,800), HFC (various), PFC (various)

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.

(5) Emission rate is given for informational purposes only and does not constitute enforceable limit.



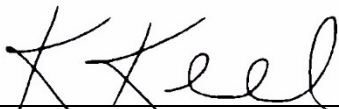
Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
Occidental Permian Ltd.
Authorizing the Construction and Operation of
Wasson Co2 Removal Plant
Located at **Denver City, Yoakum County, Texas**
Latitude 33.009722 *Longitude* -102.755555

Permits: 16754, PSDTX682M1 and GHGPSDTX228

Amendment Date: March 8, 2024

Expiration Date: March 12, 2031



For the Commission

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

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

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

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

Common Acronyms in Air Permits

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

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

Special Conditions

Permit Numbers 16754, PSDTX682M1, and GHGPSDTX228

EMISSION STANDARDS AND FUEL SPECIFICATIONS

1. This permit authorizes emissions only from those points listed in the attached table entitled Emission Sources - Maximum Allowable Emission Rates and the facilities covered by this permit are authorized to emit subject to the emission rate limits on that table and other operating requirements specified in the special conditions.
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 with the exception of those listed below:

<u>Valve No.</u>	<u>Service</u>
PSV 201	Fourth State Suction Scrubber
PSV 283A	Lo-Cat Flash Booster Compressor Suction Scrubber
PSV 344	CO ₂ Stripper Tower
PSV 350	CO ₂ Stripper Condenser and Reflux Accumulator
PSV 370	CO ₂ Recovery Tower Feed Separator
PSV 379A and 379B	CO ₂ Recovery Tower
PSV 395	CO ₂ Reflux Accumulator
PSV 424	Monodiethanolamine (MDEA) High-Pressure Flash Tank
PSV 427	MDEA Low-Pressure Flash Tank
PSV 452	CO ₂ High-Pressure Scrubber
PSV 458	CO ₂ Low-Pressure Scrubber
PSV 482-1, 2, and 3	First Stage CO ₂ Compression
PSV 485-1, 2, and 3	Second Stage CO ₂ Compression
PSV 488-1, 2, and 3	Third Stage CO ₂ Compression
PSV 511	First Stage CO ₂ Discharge Scrubber
PSV 515	Second Stage CO ₂ Discharge Scrubber
PSV 522	Third Stage CO ₂ Discharge Scrubber
PSV 525	CO ₂ TEG Contactor
PSV 532	CO ₂ Product Surge Tank
PSV 554	CO ₂ Pipeline Heater

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 for the following:
 - A. Stationary Gas Turbines in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subparts A and GG, and
 - B. Equipment Leaks of VOC from Onshore Natural Gas Processing Plants in 40 CFR Part 60, Subparts A and KKK.

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- C. Standards of Performance for SO₂ Emissions From Onshore Natural Gas Processing for Which Construction, Reconstruction, or Modification Commenced After January 20, 1984, and on or Before August 23, 2011, Subpart LLL. **(03/24)**
- 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: **(03/24)**
 - A. General Provisions, Subpart A.
 - B. National Emission Standards for Oil and Natural Gas Production Facilities, Subpart HH.
- 5. The holder of this permit shall physically identify by labeling all equipment covered by this permit at the property that has the potential of emitting air contaminants. Permitted emission points shall be identified by labeling corresponding to the emission point numbering on the MAERT; or exempt facilities shall be identified by labeling corresponding to the emission point numbering used in the most recent emissions inventory submitted to the TCEQ.
- 6. Fuel for the auxiliary heater, the Lo-Cat unit incinerator, flare and gas turbines operating under this permit is limited to natural gas containing no more than 5 grains total sulfur per 100 standard cubic feet. Use of any other fuel will require prior approval of the Executive Director of the TCEQ.
- 7. Opacity of emissions from the Lo-Cat unit incinerator and the gas turbines must not exceed 5 percent averaged over a six-minute period. The opacity shall be determined by the EPA Reference Method 9.
- 8. During periods of overhaul or planned maintenance of the gas-fired Rolls-Royce RB-211 29080 EGKW Phase 2 Permanent Turbine Generator, the holder of this permit is authorized to replace the permanent turbine with a temporary rental unit with a model which produces equivalent power or less and will emit up to or less than the current permit allowables during the periods of turbine overhaul or maintenance.
 - A. The rental turbine must not be installed until the permanent Rolls-Royce RB-211 29080 EGKW Phase 2 Gas Turbine has been removed for overhaul. Similarly, the overhauled permanent Rolls-Royce (RB-211 29080 EGKW Phase 2) will not be reinstalled until the rental gas turbine has been removed. It will be a violation of this permit to operate the two turbines simultaneously. The rental turbine can only be in use during the period of overhaul or maintenance of the permanent turbine.
 - B. In the event a turbine inspection reveals damage to any of the five modules comprising the turbine, the holder of this permit is authorized to replace the damaged module with an equivalent module subject to the approval of the TCEQ Regional Director who must be notified and provided with satisfactory technical data/information to ensure that the replacement module is identical or equivalent to the damaged module being replaced and that the replacement module will not lead to any increase in emissions from the permitted source.
 - C. The auxiliary heater will run when both turbines are down for overhaul or maintenance or concurrently with the turbine generator or the replacement turbine during start-up and shut down events when the rating of the turbine or turbine replacement is under 10 MW. It will be a violation of this permit to operate the heater and the turbine(s) simultaneously when the turbine or turbine replacement is running over 10 MW.

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9. The concentration of nitrogen oxides (NO_x) in the turbine stack shall not exceed 95 ppmv on a dry basis and adjusted to 15 percent oxygen as specified in 40 CFR Part 60, Subpart GG. The adjusted NO_x emission level shall be used to determine compliance with this condition.
10. The water injection rate necessary to comply with the concentration limit stated in Special Condition No. 9 shall be determined during the stack sampling required in Special Condition No. 17.
11. The waste gas stream from the amine regenerator overhead distillation column shall be directed to the plant inlet scrubber. Except for process gas flaring authorized under this permit, the waste gas stream from the glycol regenerator vent and glycol flash tank shall be directed to the plant inlet scrubber. **(03/24)**
12. Lo-Cat Sulfur Removal Unit **(03/24)**
 - A. All acid gases shall be routed to the Lo-Cat sulfur removal unit during normal operation. Inlet Gas and Lo-Cat Process Gas flaring emissions should be calculated according to Special Condition No. 23.D. It is not permissible under any circumstances to vent the acid gas directly to the atmosphere. Sulfur production at the Lo-Cat unit shall not exceed 16.9 long tons per day (LTPD).
 - B. The minimum sulfur recovery efficiency for the Lo-Cat unit shall be 98.5 percent. The sulfur recovery efficiency shall be determined by calculation as follows:
$$\text{Efficiency} = \frac{(\text{S recovered}) * (100)}{(\text{S acid gas})}$$

where: efficiency = sulfur recovery efficiency, percent

S recovered = S produced, LTPD

S acid gas = S recovered + S stack

S stack = sulfur in the incinerator stack, LTPD

The average sulfur emission reduction efficiency (sulfur recovery efficiency) shall be demonstrated for each 24-hour period by a sulfur mass balance calculation using data obtained from the incinerator stack SO₂ monitor, stack mass flow rate and sulfur production records. Records and copies of the compliance calculations shall be maintained on-site for a period of at least two years and made readily available upon request to representatives of the TCEQ.
 - C. The Lo-Cat incinerator shall control 99.50 percent of the VOC contained in the incoming waste gas stream sent to the Lo-Cat unit.
13. The Lo-Cat unit incinerator firebox temperature shall be maintained at a temperature of 1470°F or greater when waste gas is directed to it. The Lo-Cat incinerator firebox exit temperature shall be continuously monitored and recorded when waste gas is directed to it. The hourly average temperature in, or immediately downstream of, the incinerator firebox shall be maintained at or above 1470°F. The temperature measurement device shall monitor the temperature at least 4 equally spaced times each hour and the hourly average shall be recorded. **(03/24)**

The temperature monitor shall be installed, calibrated at least annually and maintained according to the manufacturer's specifications. The device shall have an accuracy of the greater of ±2 percent of the temperature being measured expressed in degrees Celsius or ±2.5°C.

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14. The in-stack concentration of carbon monoxide (CO) from the Lo-Cat unit incinerator shall not exceed 220 ppmv calculated as an hourly average. If the in-stack CO concentration does exceed this permit limit, then additional stack sampling may be required to determine whether or not adequate combustion of the organic compounds is being achieved.

INITIAL DETERMINATION OF COMPLIANCE

15. Sampling ports and platform(s) shall be incorporated into the design of the Lo-Cat unit incinerator and the gas turbine stacks according to the specifications set forth in the attachment entitled Chapter 2, Stack Sampling Facilities. Alternate sampling facility designs may be submitted for approval by the Executive Director of the TCEQ.
16. The holder of this permit shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the gas turbine and the Lo-Cat incinerator. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.

- A. The TCEQ Lubbock Regional Office shall be contacted as soon as testing is scheduled but not less than 45 days prior to sampling to schedule a pretest meeting. The notice shall include:

- (1) Date for pretest meeting.
- (2) Date sampling will occur.
- (3) Name of firm conducting sampling.
- (4) Type of sampling procedure to be used in sampling.
- (5) Method or procedure to be used in sampling.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports.

A written proposed description of any deviation from sampling procedures specified in permit conditions or the TCEQ or EPA sampling procedures shall be made available to the TCEQ at or prior to the pretest meeting. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in this special condition shall be submitted to the TCEQ Office Air, Air Permits Division.

Test waivers and alternate/equivalent procedure proposals for New Source Performance Standards (NSPS) testing which must have the EPA approval shall be submitted to the TCEQ Regional Office.

- B. Air contaminants emitted from Emission Point No. (EPN) TE1 to be tested for include (but are not limited to) NO_x and CO.

The EPN for the permanent turbines and rental turbines will be designated as TE1. Testing of the gas turbine shall be conducted at four turbine loads including the minimum and peak operating loads. This data will be used to construct a linear water-to-fuel ratio plot which shall be used to determine compliance with the NO_x emission limit specified in Special Condition No. 9.

- C. Air contaminants emitted from the Lo-Cat unit incinerator (EPN 1E1) to be tested for include (but are not limited to) NO_x, CO, SO₂, VOC, and total reduced sulfur. **(03/24)**

- D. Sampling of the gas turbine and of the Lo-Cat unit incinerator (EPN 1E1) shall occur within 60 days after the facility achieves maximum production but not later than 180 days after initial

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start-up of the facility and at such other times as may be required by the Executive Director of the TCEQ. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office. Additional time to comply with the requirements of 40 CFR Part 60 and 40 CFR Part 61 cannot be granted. **(03/24)**

- E. Sampling as specified in paragraph b of this special condition shall be performed each time any of the following occurs:
 - (1) The first time a rental turbine generator is installed for operation during an overhaul or maintenance of the permanent turbine. This will be a one-time-only test for each different model of the rental turbine generator to demonstrate initial compliance with the emission limits of the permit. If a previously-rented turbine generator, tested as specified above, is re-rented, it will be subject only to the quarterly tests specified in Special Condition No. 17 for Continuous Demonstration of Compliance.
 - (2) The first time the permanent turbine is reinstalled after the first overhaul or maintenance.
 - (3) The replacement turbine modules must be identical to the damaged module being replaced in order not to be tested as specified in Special Condition No. 16E.
- F. One copy of the final sampling report shall be forwarded to the TCEQ Lubbock Regional Office within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual.

CONTINUOUS DEMONSTRATION OF COMPLIANCE

- 17. The holder of this permit shall perform stack sampling at least quarterly to establish the quantities of NO_x and CO being emitted into the atmosphere from EPN TE1 or rental turbine. Emissions shall be measured and recorded in the as-found operating condition, except no compliance determination shall be established during engine start-up or shutdown conditions. Emission testing shall be performed as soon as practicable but no later than seven days following the installation of a rental turbine or the reinstallation of an overhauled turbine. **(03/24)**

While the engine is operating between 50 and 100 percent of maximum load, compliance with the NO_x and CO permit limits shall be demonstrated. The use of portable analyzers specifically designed for measuring NO_x and CO concentrations in ppmv is acceptable for this evaluation. A hot-air probe or equivalent shall be used with the analyzer to prevent damage to the probes because of high stack temperatures. Three sets of measurements should be averaged to determine the concentrations. Prior to and following the measurements, the portable analyzer shall be checked for accuracy using an audit gas that conforms to specifications in 40 CFR Part 60, Appendix F, Section 5.1.2(3). Any other method approved by the TCEQ Regional Director is also acceptable.

- 18. The holder of this permit shall install and operate a continuous monitoring system to monitor and record natural gas and water consumption in the turbine. This system shall be accurate to ±5 percent and shall be approved by the Executive Director of the TCEQ. Any one-hour period of turbine operation, except for start-up, during which the water injection rate falls below the rate determined in Special Condition Nos. 10 and 16 may, at the discretion of the TCEQ, be used to determine violations of the emission limitations of Special Condition No. 9.
- 19. The testing required in Special Condition Nos. 16 and 17 shall constitute the methods for demonstrating continuous compliance with the standards for the gas turbines. If the NO_x and CO emissions are determined once per quarter, compliance in each quarter will be based on the data

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collected once per quarter. Compliance with the emission limitations may also be determined by any TCEQ compliance sampling method.

20. The holder of this permit shall install, calibrate, and maintain a continuous emission monitoring system (CEMS) to measure and record the in-stack concentration of CO and SO₂ from the Lo-Cat unit incinerator.
 - A. Each CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specification Nos. 1 through 7, 40 CFR Part 60, Appendix B. For CO monitor certification, calibration error testing as specified by the TCEQ shall be performed. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ in Austin for requirements to be met.
 - B. The systems shall be zeroed and spanned daily and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in 40 CFR 60, Appendix B, or as specified by the TCEQ if not specified in Appendix B. Zero and span is not required on weekends and plant holidays if instrument technicians are not normally scheduled on those days, unless the monitor is required by a subpart of NSPS or National Emission Standards for Hazardous Air Pollutants (NESHAP), in which case zero and span shall be done daily without exception.

Each monitor shall be quality-assured at least quarterly in accordance with 40 CFR Part 60, Appendix F, Procedure 1, Section 5.1.2. For non-NSPS sources, an equivalent method approved by the TCEQ may be used.
 - C. All cylinder gas audit exceedances of ± 15 percent accuracy and any CEMS downtime shall be reported to the appropriate TCEQ Regional Director, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director.
 - D. The monitoring data collected shall be reduced to hourly average concentrations in ppm at least once every day using a minimum of four equally-spaced data points over each one-hour period. The individual average concentrations shall be reduced to units of the permit allowable emission rates in pounds per hour of CO and SO₂ at least once every week.
 - E. For NSPS sources subject to Appendix F, the appropriate TCEQ Regional Office shall be notified at least 30 days prior to each annual relative accuracy testing audit in order to provide them the opportunity to observe the testing.
21. The testing required in Special Condition No. 16 and the CEMS required by Special Condition No. 20 shall constitute the methods for demonstrating continuous compliance with the standards for the Lo-Cat unit incinerator, including compliance with Special Condition Nos. 1, 13 and 14. For the Lo-Cat incinerator, if the CO emissions are determined once per hour, compliance in each hour will be based on the data collected once per hour. Compliance with the emission limitations may also be determined by any TCEQ compliance sampling method.
22. The following requirements apply to capture systems for the flare shown as EPN FE1 and Lo-Cat Incinerator shown as EPN IE1.
 - A. If used to control pollutants designated as VOC, then conduct a once a month visual, audible and/or olfactory inspection of the capture system to verify there are no leaking components in each capture system;
 - B. Each control device shall not have a bypass.

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- 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.
23. The flare designated as EPN FE1 shall be designed and operated in accordance with the following requirements: **(03/24)**
- A. The flare systems shall be designed such that the combined assist natural gas and waste stream to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity at all times when emissions may be vented to them.
- The heating value and velocity requirements shall be satisfied during operations authorized by this permit. Flare testing per 40 CFR § 60.18(f) may be requested by the appropriate regional office to demonstrate compliance with these requirements.
- B. The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple, infrared monitor, or ultraviolet 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 inspected at a frequency in accordance with, the manufacturer's specifications.
- C. The flare shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours.
- D. The permit holder shall continuously calculate the flow of streams sent to the flare identified as EPN FE1 using the flow monitors as summarized in the following table: **(PSD) (03/24)**

Stream Name	Stream Description	Monitor Tag IDs	Calculated Flare Inlet Flow Volumes
Inlet	Inlet Gas	PV102, FI-123, FR-335	Flared = FI-123 - FR-335 - 2 MMSCFD (Flow Meter Drift Constant)
Lo-Cat	Lo-Cat Process	PV141A	Cv = valve flow coefficient = differential pressure (PV141A) SG = Specific Gravity
TEG	Inlet Gas through TEG	PV303	Cv = valve flow coefficient = differential pressure (PV303) SG = Specific Gravity
CO2 Stripper	Process Gas	PIC335, FR-335, FI-380	Flared = FI-335 - FI-380 - 3.5 MMSCFD (Flow Meter Drift Constant)
CO2 Recovery Gas (Upstream of FG Membranes)	Fuel Gas	PV402, FI-380, FI-401, FIC-560	Flared = FI-380 - FI-401 - FIC-560
CO2 Recovery Gas (Downstream of FG Membranes)	Fuel Gas	PV447, FI-380, FI-401, FIC-560	Flared = FI-380 - FI-401 - FIC-560
Injection Gas	CO2 to Injection	FIC-1290B	Flared = FIC-1290B

Flow readings and calculated flare volumes shall be taken at least once every 15 minutes and the average hourly values of the flow shall be recorded each hour. The flow monitors shall operate as

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required by this section at least 95% of the time when the flare is operational, averaged over a rolling 12 month period.

The monitors shall be calibrated or have a calibration check performed on an annual basis to meet the following accuracy specifications: the flow monitor shall be $\pm 5.0\%$.

The flared streams shall be monitored or determined and include hydrocarbon species through C6+ and H₂S as specified in the following table:

Stream Name	Periodic Analysis Sample Point	Minimum Analysis Frequency
Inlet	WCRP West Inlet	Quarterly
Lo-Cat	N/A - No recurring analysis required, use historical or plant records	
TEG	Glycol Contactor Sample Valve	Quarterly
CO ₂ Stripper	Membrane Feed Gas	Quarterly
CO ₂ Recovery Gas (Upstream of FG Membranes)	Membrane Feed Gas	Quarterly
CO ₂ Recovery Gas (Downstream of FG Membranes)	Membrane Low Pressure Residue	Quarterly
Injection Gas	WCRP CO ₂ Discharge	Quarterly

The composition data sampled according to preceding table shall be used to calculate heating values of the flared streams for the purposes of evaluating compliance with this condition.

Flared gas net heating value and actual exit velocity determined in accordance with 40 CFR §§60.18(f)(3) and 60.18(f)(4) shall be recorded at least once every hour.

Hourly mass emission rates shall be determined and recorded using the above readings and the emission factors used in the permit amendment application, PI-1 form dated December 2, 2022 and subsequent application updates associated with TCEQ Project No. 350939.

- E. The emissions listed as "Process Flare Normal Operation" on the MAERT authorize the following flaring activities:
- (1) Pilot and purge gas (including sump vapors),
 - (2) Up to 100 million (MM) standard cubic feet per rolling twelve months of natural gas spikes waste gas shall be directed to this flare for emission abatement, and
 - (3) Up to 12 MM standard cubic feet per rolling twelve months of no flare points waste gas shall be directed to this flare for emission abatement. Records shall be updated on a semi-annual basis by the permit holder to demonstrate with this representation. The records shall be maintained at the plant site.
- F. The Flare (EPN FE1) shall not have a bypass.

RECORDKEEPING

24. The following records shall be made and maintained at the plant site by the holder of this permit.
- A. All CEMS monitoring data and quality-assured data.

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- B. Written records of data used in constructing the linear water-to-fuel ratio plot specified by Special Condition No. 16B for use in determining compliance with the NO_x emission limit.
- C. Written records of the results of all compliance testing applicable to the permanent turbine, the rental unit, and the Lo-Cat unit incinerator.
- D. Written records of the occurrence and duration of any malfunction in the operation of the permanent turbine, the rental unit, and the Lo-Cat unit incinerator.
- E. Written records of Lo-Cat unit incinerator fire box temperature and the hours of operation of the Lo-Cat unit incinerator.
- F. Written records of the turbine water-to-fuel ratio and the hours of operation of the turbine engine and the auxiliary heater.
- G. Records of flow rate and composition data for streams to flare, as specified in Special Condition No. 23. **(03/24)**
- H. Records showing which turbine (permanent or rental) is in service and the dates when the turbine changes take place shall be maintained.
- I. Records of the maintenance events and emissions associated with it shall be maintained.

REPORTING

- 25. The holder of this permit shall submit annual reports to the TCEQ Lubbock Regional Office and the TCEQ Office of Permitting and Registration, Air Permits Division in Austin. Such reports are required for each source covered by this permit subject to Special Condition Nos. 9 and 14. Each report shall contain the results of all testing required in Special Condition Nos. 16 and 17.

PROCESS FUGITIVE PROGRAMS

- 26. Piping, Valves, Flanges, Connectors, Pumps and Compressors in VOC Service subject to NSPS Subpart KKK - 28M
 - A. These conditions shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.5 pound per square inch, absolute (psia) at 100°F or at maximum process operating temperature if less than 100°F or (2) where the 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:

 - i. piping and instrumentation diagram (PID); or
 - ii. a written or electronic database.
 - B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.
 - C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.

- D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph A above. If an unsafe-to-monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe-to-monitor times. A difficult-to-monitor component for which quarterly monitoring is specified may instead be monitored annually.
- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 hours 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 a cap, blind flange, plug, or a second valve to seal the line so that no leakage occurs. Except during sampling, both valves shall be closed. If the removal of a component for repair or replacement results in an open-ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 24 hours. If the repair or replacement is not completed within 24 hours, the line or valve must have a cap, blind flange, plug, or second valve installed.

Lines required by the Railroad Commission of Texas to have threaded connections are exempt from the requirement to be welded or flanged.

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

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 are being monitored, the response factor shall be calculated for the average composition of the process fluid. 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.

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

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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, connectors, compressor seals, agitator seals, and pump seals found to be emitting VOC in excess of 10,000 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. Every reasonable effort shall be made to repair a leaking component as specified in this paragraph within 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.
- I. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times, test methods, and instrument readings. Records of physical inspections shall be noted in the operator's log or equivalent.
- J. Fugitive emission monitoring required by an applicable New Source Performance Standard (NSPS), 40 CFR Part 60, or an applicable National Emission Standard for Hazardous Air Pollutants (NESHAP), 40 CFR Part 61, may be used in lieu of Items F through I of this condition.
- K. Compliance with the requirements of this condition does not assure compliance with requirements of NSPS or NESHAP and does not constitute approval of alternate standards for these regulations.

27. Piping, Valves, Flanges, Connectors, Pumps and Compressors in Hydrogen Sulfide (H₂S) Service

- A. Visual, audio and olfactory checks for H₂S leaks within the operating area shall be made at least once per day or the permit holder shall install and operate an ambient property line monitoring network to detect H₂S. The ambient monitors shall be capable of detecting and alarming H₂S concentrations on ten parts per million by volume. Operations personnel shall perform an initial on-site inspection of the facility within twenty-four hours of initial alarm.
- B. Immediately, but no later than one hour upon detection of a leak, plant personnel shall take the following actions:
 - (1) Isolate the leak.
 - (2) Commence repair or replacement of the leaking component.
 - (3) Use a leak collection/containment system to prevent the leak until repair or replacement can be made if immediate repair is not possible.

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

Gas Flaring Continuous Compliance

- 28. This permit authorizes emissions from the flare identified as EPN FE1 for the flaring activities represented in the permit amendment application, PI-1 form dated December 05, 2022 and

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subsequent application updates associated with TCEQ Project No. 350939, and are limited to the emission limits in the MAERT: **(PSD) (03/24)**

If the flare hourly mass emission rate for any pollutant calculated in accordance with Special Condition No. 23.D. has unauthorized emissions that exceed any applicable MAERT hourly emission rate limit, then the flare identified as EPN FE1 shall additionally be limited to hourly flare inlet flow rate limits specified in the table below. These hourly flow rate limits shall no longer apply following 72 consecutive hours in which flow is directed to the flare and the hourly MAERT emission rate limits are not exceeded. If a subsequent exceedance of the MAERT hourly emission rate limit occurs for any pollutant from the flare, then the hourly flow limit and 72-hour requirement shall once again apply as specified above in this paragraph.

Flare EPN FE1 Inlet Flow Rate Limits Following Hourly MAERT Exceedance

Flaring Case	Waste Gas Feed Rate Limit	Assist Gas Feed Rate Limit
	(scf/hr) ^a	(scf/hr) ^a
Waste Gas	4,166,667	833,333

^aThe scf/hr and scf/year flare volumetric feed rates are based on standard conditions of 60°F and 1 atmosphere.

The following records for flaring activities shall be kept:

- A. The type of flaring activity and the reason for the activity;
- B. The common name and the facility identification number, if applicable, of the facilities at which the flaring activity and emissions occurred;
- C. The date and time of the flaring activity and its duration;
- D. The estimated quantity of each air contaminant, or mixture of air contaminants, emitted with the data and methods used to determine it. The emissions from each gas flaring event shall be calculated according to Special Condition No. 23.D and recorded for comparison with the MAERT emission rate limits for EPN FE1. All flaring emissions shall be summed monthly and the rolling 12-month emissions shall be updated on a monthly basis for comparison with the MAERT.

Permit by Rule Referenced

30. The following sources and/or activities are authorized under a Permit by Rule (PBR) by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106). These lists are not intended to be all inclusive and can be altered without modifications to this permit. **(03/24)**

Authorization	EPNs	Source or Activity
159143	REB1	Dehy Reboiler
28996	F1-6	Membrane CO ₂ Removal Unit

Special Conditions

Permit Numbers 16754, PSDTX682M1, and GHGPSDTX228

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30 TAC §106.371	COOLTWR	Cooling Tower E
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Greenhouse Gas Emissions

31. Monitoring, quality assurance/quality control requirements, emission calculation methodologies, recordkeeping, and reporting requirements related to GHG emissions shall adhere to the applicable requirements in 40 CFR Part 98 and this permit. **(GHG PSD) (03/24)**
- A. Where a methodology of 40 CFR Part 98 is referenced in this permit, such reference method shall be modified as follows:
- B. References to annual measurements shall be construed as rolling 12-month totals if the relevant parameter is measured on a monthly or more frequent basis.
- C. References to annual measurements that are not measured at a frequency greater than one month (e.g., quarterly or semiannual) shall be construed as the average of the most recent measurements based on a rolling 12-month period (e.g., average of 4 quarterly or 2 semiannual measurements).
32. Permit holders must keep records sufficient to demonstrate compliance with 30 Texas Administrative Code § 116.164. Records shall be sufficient to demonstrate the amount of emissions of GHGs from the source as a result of construction, a physical change or a change in method of operation does not require authorization under 30 TAC §116.164(a). **(GHG PSD) (03/24)**

Date: March 8, 2024

Emission Sources - Maximum Allowable Emission Rates

Permit Number 16754 and PSDTX682M1

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
FE1	Process Flare Normal Operation (7)	CO	328.39	41.57
		H ₂ S	5.66	0.22
		NO _x	38.97	7.80
		SO ₂	531.96	19.98
		VOC (9)	179.78	14.10
		HAP	19.88	1.47
FE1	Process Flare - Gas Flaring (8)	CO	569.57	170.87
		H ₂ S	8.31	2.49
		NO _x	66.43	19.93
		SO ₂	781.19	234.36
		VOC (9)	308.66	92.60
		HAP	34.66	10.40
IE1	Lo-Cat Unit Incinerator	CO	11.42	50.00
		H ₂ S	0.01	0.03
		NO _x	4.57	20.00
		PM	0.87	3.83
		PM ₁₀	0.87	3.83
		PM _{2.5}	0.87	3.83
		SO ₂	16.48	72.00
		TRS	1.20	5.25
		VOC (9)	0.55	2.40
		HAP	0.13	0.58
TE1	Turbine Generator, Turbine Replacement and Auxiliary Heater	CO (5)	81.70	358.10
		NO _x (5)	85.50	374.80

Emission Sources - Maximum Allowable Emission Rates

		PM	1.98	8.69
		PM ₁₀	1.98	8.69
		PM _{2.5}	1.98	8.69
		SO ₂	1.02	4.47
		VOC (9)	0.63	2.76
		HAP	0.31	1.35
F1-6	Process Fugitives (6)	H ₂ S	0.01	0.04
		VOC (9)	8.67	38.00
		HAP	0.93	4.06

- (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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
 - H₂S - hydrogen sulfide
 - TRS - total reduced sulfur
 - 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
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) PSDTX682 authorized emissions.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (7) Process Flare Normal Operation emissions authorize the activities specified in Special Condition No. 23.E.
- (8) Gas Flaring emissions only authorize maintenance startup, and shutdown (MSS) and alternate operating scenarios (AOS) activities as represented in Special Condition No. 28.
- (9) Speciated HAPs emissions rates are quantified in the total VOC emission rate.

Date: March 8, 2024

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX228

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

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
FE1	Process Flare - Gas Flaring	CO ₂ (5)	184,185
		CH ₄ (5)	145
		N ₂ O (5)	0.408
		CO ₂ e	187,931

(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) CO₂ - carbon dioxide

N₂O - nitrous oxide

CH₄- methane

HFCs - hydrofluorocarbons

PFCs - perfluorocarbons

SF₆ - sulfur hexafluoride

CO₂e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):

CO₂ (1), N₂O (298), CH₄(25), SF₆ (22,800), HFC (various), PFC (various)

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.

(5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Date: March 8, 2024