

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Luminant Generation Company LLC

AUTHORIZING THE OPERATION OF
Odessa Ector Generating Station
Fossil Fuel Electric Power Generation

LOCATED AT
Ector County, Texas
Latitude 31° 50' 20" Longitude 102° 19' 33"
Regulated Entity Number: RN100223882

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, emission units and affected source listed in this permit. Operations of the site, emission units and affected source 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, emission units and affected source 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, emission units and affected source.

Permit No: O2119 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, except for reports required solely by the Acid Rain permit or Cross-State Air Pollution Rule Trading Program requirements, 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, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
 - F. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
 - (i) Title 30 TAC § 101.372 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)
 - (iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)
 - (iv) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)
 - (v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A,

Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

- (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(1)(E)
- (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
- (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
 - (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
 - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
 - (3) Records of all observations shall be maintained.
 - (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer’s eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance

from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.

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

C. 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.

- D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).

- F. 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)

- G. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
 - (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
 - (ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
 - (iii) Title 30 TAC § 111.209 (relating to Exception for Disposal Fires)
 - (iv) Title 30 TAC § 111.211 (relating to Exception for Prescribed Burn)
 - (v) Title 30 TAC § 111.213 (relating to Exception for Hydrocarbon Burning)
 - (vi) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
 - (vii) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)

- 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. 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

7. 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

8. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated January 12, 2024 in the application for project 36211), standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
 - A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
9. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
10. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit.

These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

11. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
12. Use of Discrete Emission Credits to comply with the applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Protection of Stratospheric Ozone

13. 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.

Temporary Fuel Shortages (30 TAC § 112.15)

- 14. The permit holder shall comply with the following 30 TAC Chapter 112 requirements:
 - A. Title 30 TAC § 112.15 (relating to Temporary Fuel Shortage Plan Filing Requirements)
 - B. Title 30 TAC § 112.16(a), (a)(1), and (a)(2)(B) - (C) (relating to Temporary Fuel Shortage Plan Operating Requirements)
 - C. Title 30 TAC § 112.17 (relating to Temporary Fuel Shortage Plan Notification Procedures)
 - D. Title 30 TAC § 112.18 (relating to Temporary Fuel Shortage Plan Reporting Requirements)

Permit Location

- 15. 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)

- 16. 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.

Acid Rain Permit Requirements

- 17. For units CTG-1, CTG-2, CTG-3, and CTG-4 (identified in the Certificate of Representation as units GT1, GT2, GT3, and GT4), located at the affected source identified by ORIS/Facility code 55215, the designated representative and the owner or operator, as applicable, shall comply with the following Acid Rain Permit requirements.
 - A. General Requirements
 - (i) Under 30 TAC § 122.12(1) and 40 CFR Part 72, the Acid Rain Permit requirements contained here are a separable portion of the Federal Operating Permit (FOP) and have an independent public comment process which may be separate from, or combined with the FOP.

- (ii) The owner and operator shall comply with the requirements of 40 CFR Part 72 and 40 CFR Part 76. Any noncompliance with the Acid Rain Permit will be considered noncompliance with the FOP and may be subject to enforcement action.
- (iii) The owners and operators of the affected source shall operate the source and the unit in compliance with the requirements of this Acid Rain Permit and all other applicable State and federal requirements.
- (iv) The owners and operators of the affected source shall comply with the General Terms and Conditions of the FOP that incorporates this Acid Rain Permit.
- (v) The term for the Acid Rain permit shall commence with the issuance of the FOP that incorporates the Acid Rain permit and shall be run concurrent with the remainder of the term of the FOP. Renewal of the Acid Rain permit shall coincide with the renewal of the FOP that incorporates the Acid Rain permit and subsequent terms shall be no more than five years from the date of renewal of the FOP and run concurrent with the permit term of the FOP.

B. Monitoring Requirements

- (i) The owners and operators, and the designated representative, of the affected source and each affected unit at the source shall comply with the monitoring requirements contained in 40 CFR Part 75.
- (ii) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 and any other credible evidence shall be used to determine compliance by the affected source with the acid rain emissions limitations and emissions reduction requirements for SO₂ and NO_x under the ARP.
- (iii) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emission of other pollutants or other emissions characteristics at the unit under other applicable requirements of the FCAA Amendments (42 U.S.C. 7401, as amended November 15, 1990) and other terms and conditions of the operating permit for the source.

C. SO₂ emissions requirements

- (i) The owners and operators of each source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for SO₂.
- (ii) As of the allowance transfer deadline the owners and operators of the affected source and each affected unit at the source shall hold, in the unit's compliance subaccount, allowances in an amount not less than the total annual emissions of SO₂ for the previous calendar year.
- (iii) Each ton of SO₂ emitted in excess of the acid rain emissions limitations for SO₂ shall constitute a separate violation of the FCAA amendments.
- (iv) An affected unit shall be subject to the requirements under (i) and (ii) of the SO₂ emissions requirements as follows:
 - (1) Starting January 1, 2000, an affected unit under 40 CFR § 72.6(a)(2); or

- (2) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR Part 75, an affected unit under 40 CFR § 72.6(a)(3).
 - (v) Allowances shall be held in, deducted from, or transferred into or among Allowance Tracking System accounts in accordance with the requirements of the ARP.
 - (vi) An allowance shall not be deducted, for compliance with the requirements of this permit, in a calendar year before the year for which the allowance was allocated.
 - (vii) An allowance allocated by the EPA Administrator or under the ARP is a limited authorization to emit SO₂ in accordance with the ARP. No provision of the ARP, Acid Rain permit application, this Acid Rain Permit, or an exemption under 40 CFR §§ 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
 - (viii) An allowance allocated by the EPA Administrator under the ARP does not constitute a property right.
- D. NO_x Emission Requirements
- (i) The owners and operators of the source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for NO_x under 40 CFR Part 76.
- E. Excess emissions requirements for SO₂ and NO_x.
- (i) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77.
 - (ii) If an affected source has excess emissions in any calendar year shall, as required by 40 CFR Part 77:
 - (1) Pay, without demand, the penalty required and pay, upon demand, the interest on that penalty.
 - (2) Comply with the terms of an approved offset plan.
- F. Recordkeeping and Reporting Requirements
- (i) Unless otherwise provided, the owners and operators of the affected source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the EPA Administrator.
 - (1) The certificate of representation for the designated representative for the source and each affected unit and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR § 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative.

- (2) All emissions monitoring information, in accordance with 40 CFR Part 75, provided that to the extent that 40 CFR Part 75 provides for a 3-year period for recordkeeping (rather than a five-year period cited in 30 TAC § 122.144), the 3-year period shall apply.
 - (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the ARP or relied upon for compliance certification.
 - (4) Copies of all documents used to complete an acid rain permit application and any other submission under the ARP or to demonstrate compliance with the requirements of the ARP.
- (ii) The designated representative of an affected source and each affected unit at the source shall submit the reports required under the ARP including those under 40 CFR Part 72, Subpart I and 40 CFR Part 75.

G. Liability

- (i) Any person who knowingly violates any requirement or prohibition of the ARP, a complete acid rain permit application, an acid rain permit, or a written exemption under 40 CFR §§ 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to FCAA § 113(c).
- (ii) Any person who knowingly makes a false, material statement in any record, submission, or report under the ARP shall be subject to criminal enforcement pursuant to FCAA § 113(c) and 18 U.S.C. 1001.
- (iii) No permit revision shall excuse any violation of the requirements of the ARP that occurs prior to the date that the revision takes effect.
- (iv) The affected source and each affected unit shall meet the requirements of the ARP contained in 40 CFR Parts 72 through 78.
- (v) Any provision of the ARP that applies to an affected source or the designated representative of an affected source shall also apply to the owners and operators of such source and of the affected units at the source.
- (vi) Any provision of the ARP that applies to an affected unit (including a provision applicable to the DR of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR § 72.44 (Phase II repowering extension plans) and 40 CFR § 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR §§ 75.16, 75.17, and 75.18), the owners and operators and the DR of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the DR and that is located at a source of which they are not owners or operators or the DR.
- (vii) Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or DR of such source or unit, shall be a separate violation of the FCAA Amendments.

- H. Effect on other authorities. No provision of the ARP, an acid rain permit application, an acid rain permit, or an exemption under 40 CFR §§ 72.7 or 72.8 shall be construed as:
- (i) Except as expressly provided in Title IV of the FCAA Amendments, exempting or excluding the owners and operators and, to the extent applicable, the DR of an affected source or affected unit from compliance with any other provision of the FCAA Amendments, including the provisions of Title I of the FCAA Amendments relating to applicable National Ambient Air Quality Standards or State Implementation Plans.
 - (ii) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the FCAA Amendments.
 - (iii) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law.
 - (iv) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
 - (v) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established.
- I. The number of SO₂ allowances allocated by the EPA in 40 CFR Part 73 is enforceable only by the EPA Administrator.

Cross-State Air Pollution Rule (CSAPR) Trading Program Requirements

18. For units CTG-1, CTG-2, CTG-3, and CTG-4 (identified in the Certificate of Representation as units GT1, GT2, GT3, and GT4), located at the site identified by Plant code/ORIS/Facility code 55215, the designated representative and the owner or operator, as applicable, shall comply with the following CSAPR requirements.
- A. General Requirements
 - (i) The owners and operators of the CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall operate the source and the unit in compliance with the requirements of the CSAPR NO_x Ozone Season Group 2 Trading Program and all other applicable State and federal requirements.
 - (ii) The owners and operators of the CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall comply with the requirements of 40 CFR Part 97, Subpart EEEEE for CSAPR NO_x Ozone Season Group 2 Trading Program, and with the General Terms and Conditions of the Federal Operating Permit (FOP) that incorporates the CSAPR requirements.
 - B. Description of CSAPR Monitoring Provisions
 - (i) The CSAPR subject unit(s), and the unit-specific monitoring provisions at this source, are identified in the following paragraph(s). These unit(s) are subject to the requirements for the CSAPR NO_x Ozone Season Group 2 Trading Program.

- (1) For units CTG-1, CTG-2, CTG-3, and CTG-4, the owners and operators shall comply with the continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR Part 75, Subpart H for NO_x and heat input.
- (ii) The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR §§ 97.830 through 97.835 (CSAPR NO_x Ozone Season Group 2 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable CSAPR trading program.
- (iii) Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR §§ 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at <https://www.epa.gov/airmarkets/clean-air-markets-monitoring-plans-part-75-sources>.
- (iv) Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR Part 75, Subpart E and 40 CFR § 75.66 and § 97.835 (CSAPR NO_x Ozone Season Group 2 Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at <https://www.epa.gov/airmarkets/part-75-petition-responses>.
- (v) Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR §§ 97.830 through 97.834 (CSAPR NO_x Ozone Season Group 2 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR § 75.66 and § 97.835 (CSAPR NO_x Ozone Season Group 2 Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on the EPA's website at <https://www.epa.gov/airmarkets/part-75-petition-responses>.
- (vi) The descriptions of monitoring applicable to the unit(s) included above meet the requirement of 40 CFR §§ 97.830 through 97.834 (CSAPR NO_x Ozone Season Group 2 Trading Program), and therefore procedures for minor permit revisions, in accordance with 30 TAC § 122.217, may be used to add or change this unit's monitoring system description.

19. CSAPR NO_x Ozone Season Group 2 Trading Program Requirements (40 CFR § 97.806)

A. Designated representative requirements

- (i) The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR §§ 97.813 through 97.818.

B. Emissions monitoring, reporting, and recordkeeping requirements

- (i) The owners and operators, and the designated representative, of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall comply with the monitoring, reporting, and

recordkeeping requirements of 40 CFR § 97.830 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), § 97.831 (initial monitoring system certification and recertification procedures), § 97.832 (monitoring system out-of-control periods), § 97.833 (notifications concerning monitoring), § 97.834 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and § 97.835 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

- (ii) The emissions data determined in accordance with 40 CFR § 97.830 through § 97.835 and any other credible evidence shall be used to calculate allocations of CSAPR NO_x Ozone Season Group 2 allowances under 40 CFR §§ 97.811(a)(2) and (b) and § 97.812 and to determine compliance with the CSAPR NO_x Ozone Season Group 2 emissions limitation and assurance provisions under paragraph C. below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR §§ 97.830 through 97.835 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

C. NO_x emissions requirements

(i) CSAPR NO_x Ozone Season Group 2 emissions limitation

- (1) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold, in the source's compliance account, CSAPR NO_x Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR § 97.824(a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Ozone Season Group 2 units at the source.
- (2) If total NO_x emissions during a control period in a given year from the CSAPR NO_x Ozone Season Group 2 units at a CSAPR NO_x Ozone Season Group 2 source are in excess of the CSAPR NO_x Ozone Season Group 2 emissions limitation set forth in paragraph C.(i)(1) above, then:
 - (a) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold the CSAPR NO_x Ozone Season Group 2 allowances required for deduction under 40 CFR § 97.824(d); and
 - (b) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart EEEEE and the Clean Air Act.

(ii) CSAPR NO_x Ozone Season Group 2 assurance provisions

- (1) If total NO_x emissions during a control period in a given year from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_x Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR § 97.825(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR § 97.825(b), of multiplying -
 - (a) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and
 - (b) The amount by which total NO_x emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state for such control period exceed the state assurance level.
- (2) The owners and operators shall hold the CSAPR NO_x Ozone Season Group 2 allowances required under paragraph C.(ii)(1) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
- (3) Total NO_x emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state during a control period in a given year exceed the state assurance level if such total NO_x emissions exceed the sum, for such control period, of the state NO_x Ozone Season Group 2 trading budget under 40 CFR § 97.810(a) and the state's variability limit under 40 CFR § 97.810(b).
- (4) It shall not be a violation of 40 CFR Part 97, Subpart EEEEE or of the Clean Air Act if total NO_x emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total NO_x emissions from the CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state during a control period exceeds the common designated representative's assurance level.
- (5) To the extent the owners and operators fail to hold CSAPR NO_x Ozone Season Group 2 allowances for a control period in a given year in accordance with paragraphs C.(ii)(1) through (3) above,

- (a) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (b) Each CSAPR NO_x Ozone Season Group 2 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs C.(ii)(1) through (3) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart EEEEE and the Clean Air Act.
- (iii) Compliance periods
 - (1) A CSAPR NO_x Ozone Season Group 2 unit shall be subject to the requirements under paragraph C.(i) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.830(b) and for each control period thereafter.
 - (2) A CSAPR NO_x Ozone Season Group 2 unit shall be subject to the requirements under paragraph C.(ii) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.830(b) and for each control period thereafter.
- (iv) Vintage of allowances held for compliance
 - (1) A CSAPR NO_x Ozone Season Group 2 allowance held for compliance with the requirements under paragraph C.(i)(1) above for a control period in a given year must be a CSAPR NO_x Ozone Season Group 2 allowance that was allocated for such control period or a control period in a prior year.
 - (2) A CSAPR NO_x Ozone Season Group 2 allowance held for compliance with the requirements under paragraphs C.(i)(2)(a) and (ii)(1) through (3) above for a control period in a given year must be a CSAPR NO_x Ozone Season Group 2 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
- (v) Allowance Management System requirements. Each CSAPR NO_x Ozone Season Group 2 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart EEEEE.
- (vi) Limited authorization. A CSAPR NO_x Ozone Season Group 2 allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:
 - (1) Such authorization shall only be used in accordance with the CSAPR NO_x Ozone Season Group 2 Trading Program; and
 - (2) Notwithstanding any other provision of 40 CFR Part 97, Subpart EEEEE, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines

is necessary or appropriate to implement any provision of the Clean Air Act.

- (vii) Property right. A CSAPR NO_x Ozone Season Group 2 allowance does not constitute a property right.

D. FOP revision requirements

- (i) No FOP revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO_x Ozone Season Group 2 allowances in accordance with 40 CFR Part 97, Subpart EEEEE.
- (ii) This FOP incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR §§ 97.830 through 97.835, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, subpart H), an excepted monitoring system (pursuant to 40 CFR Part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR § 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, subpart E). Therefore the Description of CSAPR Monitoring Provisions for CSAPR subject unit(s) may be added to, or changed, in this FOP using procedures for minor permit revisions in accordance with 30 TAC § 122.217.

E. Additional recordkeeping and reporting requirements

- (i) Unless otherwise provided, the owners and operators of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
 - (1) The certificate of representation under 40 CFR § 97.816 for the designated representative for the source and each CSAPR NO_x Ozone Season Group 2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR § 97.816 changing the designated representative.
 - (2) All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart EEEEE.
 - (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_x Ozone Season Group 2 Trading Program.
- (ii) The designated representative of a CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall make all submissions required under the CSAPR NO_x Ozone Season Group 2 Trading Program, except as provided in 40 CFR § 97.818. This requirement does not

change, create an exemption from, or otherwise affect the responsible official submission requirements under 30 TAC § 122.165.

F. Liability

- (i) Any provision of the CSAPR NO_x Ozone Season Group 2 Trading Program that applies to a CSAPR NO_x Ozone Season Group 2 source or the designated representative of a CSAPR NO_x Ozone Season Group 2 source shall also apply to the owners and operators of such source and of the CSAPR NO_x Ozone Season Group 2 units at the source.
- (ii) Any provision of the CSAPR NO_x Ozone Season Group 2 Trading Program that applies to a CSAPR NO_x Ozone Season Group 2 unit or the designated representative of a CSAPR NO_x Ozone Season Group 2 unit shall also apply to the owners and operators of such unit.

G. Effect on other authorities

- (i) No provision of the CSAPR NO_x Ozone Season Group 2 Trading Program or exemption under 40 CFR § 97.805 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO_x Ozone Season Group 2 source or CSAPR NO_x Ozone Season Group 2 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Unit Summary 23

Applicable Requirements Summary 24

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
EMERGEN	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
EMERGEN2	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FIREPUMP	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-CTG	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	CTG-1, CTG-2, CTG-3, CTG-4	R1151	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
GRP-CTG	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	CTG-1, CTG-2, CTG-3, CTG-4	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-CTG	STATIONARY TURBINES	CTG-1, CTG-2, CTG-3, CTG-4	60KKKK-1	40 CFR Part 60, Subpart KKKK	75% of Peak = The combustion turbine does not operate at less than 75% of peak load or at temperatures less than zero degrees F.
GRP-CTG	STATIONARY TURBINES	CTG-1, CTG-2, CTG-3, CTG-4	60KKKK-2	40 CFR Part 60, Subpart KKKK	75% of Peak = The combustion turbine operates at less than 75% of peak load or at temperatures less than zero degrees F., 30 MW = The combustion turbine has an output of greater than 30 MW.
GRPCTOW	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	COOLTOWER1, COOLTOWER2	R1111	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)
EMERGEN	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
EMERGEN2	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
FIREPUMP	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	Table 2d.4.a-c.			
GRP-CTG	EP	R1151	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See Periodic Monitoring Summary	None	None
GRP-CTG	EP	R1111	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
GRP-CTG	EU	60KKKK-1	NO _x	40 CFR Part 60, Subpart KKKK	§ 60.4320(a)-Table 1 § 60.4320(a) § 60.4320(b) § 60.4325 § 60.4333(a) § 60.4333(b)(1) § 60.4335(b)(1) [G]§ 60.4345	New, modified, or reconstructed turbine firing natural gas with a heat input at peak load > 850 MMBtu/h must meet the nitrogen oxides emission standard of 15 ppm at 15 percent O ₂ .	§ 60.4333(b)(1) § 60.4335(b)(1) [G]§ 60.4345 § 60.4350(a) § 60.4350(b) § 60.4350(d) § 60.4350(e) § 60.4350(f) § 60.4350(h) [G]§ 60.4400(a) § 60.4400(b) § 60.4400(b)(1) § 60.4400(b)(2)	[G]§ 60.4345 § 60.4350(b)	[G]§ 60.4345 § 60.4350(d) § 60.4375(a) § 60.4380 [G]§ 60.4380(b) § 60.4395

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)
							§ 60.4400(b)(4) § 60.4400(b)(5) § 60.4400(b)(6) [G]§ 60.4405		
GRP-CTG	EU	60KKKK-1	SO ₂	40 CFR Part 60, Subpart KKKK	§ 60.4330(a)(2) § 60.4333(a)	You must not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 26 ng SO ₂ /J (0.060 lb SO ₂ /MMBtu) heat input. If your turbine simultaneously fires multiple fuels, each fuel must meet this requirement.	§ 60.4365 § 60.4365(a) § 60.4415(a) § 60.4415(a)(2) § 60.4415(a)(2)(ii)	§ 60.4365(a)	§ 60.4375(a)
GRP-CTG	EU	60KKKK-2	NO _x	40 CFR Part 60, Subpart KKKK	§ 60.4320(a)-Table 1 § 60.4320(a) § 60.4320(b) § 60.4333(a) § 60.4333(b)(1) § 60.4335(b)(1) [G]§ 60.4345	Turbines operating at less than 75 percent of peak load, or turbines operating at temperatures less than 0 degrees F with greater than 30 MW output must meet the nitrogen oxides emission standard of 96 ppm at 15 percent O ₂ .	§ 60.4333(b)(1) § 60.4335(b)(1) [G]§ 60.4345 § 60.4350(a) § 60.4350(b) § 60.4350(d) § 60.4350(e) § 60.4350(f) § 60.4350(h) [G]§ 60.4400(a) § 60.4400(b) § 60.4400(b)(1) § 60.4400(b)(2) § 60.4400(b)(4) § 60.4400(b)(5) § 60.4400(b)(6) [G]§ 60.4405	[G]§ 60.4345 § 60.4350(b)	[G]§ 60.4345 § 60.4350(d) § 60.4375(a) § 60.4380 [G]§ 60.4380(b) § 60.4395
GRP-CTG	EU	60KKKK-2	SO ₂	40 CFR Part 60, Subpart KKKK	§ 60.4330(a)(2) § 60.4333(a)	You must not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 26 ng SO ₂ /J	§ 60.4365 § 60.4365(a) § 60.4415(a) § 60.4415(a)(2) § 60.4415(a)(2)(ii)	§ 60.4365(a)	§ 60.4375(a)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						(0.060 lb SO ₂ /MMBtu) heat input. If your turbine simultaneously fires multiple fuels, each fuel must meet this requirement.			
GRPCTOW	EP	R1111	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

Periodic Monitoring Summary 29

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-CTG	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Fuel Type	
Minimum Frequency: Once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: 157.5 lb PM/hr (based on minimum flow rate of 468,743 acfm)	
<p>Periodic Monitoring Text: Maximum allowable particulate matter (PM) emission rate per 30 TAC §111.151(a) range from approximately 150-220 lb/hr based on exhaust gas flow rate. Combustion turbine (CT) manufacturer guarantee is 18.3 lb PM/hr when burning gas authorized by NSR permit 41008. Stack testing was performed on two of the four CTs to demonstrate initial compliance. Continued compliance will be demonstrated by the exclusive use of gas authorized by NSR permit 41008. Any quarter where a fuel type other than gas authorized by NSR permit 41008 is used shall be reported as a deviation.</p>	

Periodic Monitoring Summary

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

Permit Shield

Permit Shield 33

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
CONDENTK1	N/A	40 CFR Part 60, Subpart Kb	The storage vessel capacity is less than 75 cubic meters (19,810 gallons).
EMERGEN	N/A	40 CFR Part 60, Subpart IIII	The unit was not constructed, reconstructed, or modified after July 11, 2005.
EMERGEN2	N/A	40 CFR Part 60, Subpart IIII	The unit was constructed after July 11, 2005 but manufactured on or before April 1, 2006 and installed before December 31, 2008.
FIREPUMP	N/A	40 CFR Part 60, Subpart IIII	The unit was not constructed, reconstructed, or modified after July 11, 2005.
GRP-CTG	CTG-1, CTG-2, CTG-3, CTG-4	40 CFR Part 60, Subpart TTTT	Construction of the stationary combustion turbines did not commence after January 1, 2014 and the units have not been reconstructed.
GRP-CTG	CTG-1, CTG-2, CTG-3, CTG-4	40 CFR Part 63, Subpart DDDDD	The units are not located at a major source of HAPs.
GRP-CTG	CTG-1, CTG-2, CTG-3, CTG-4	40 CFR Part 63, Subpart JJJJJ	The units are electric utility steam generating units as defined in 40 CFR Part 63, Subpart JJJJJ.
GRP-CTG	CTG-1, CTG-2, CTG-3, CTG-4	40 CFR Part 63, Subpart YYYY	The units are not located at a major source of hazardous air pollutants (HAPs).
GRPCTOW	COOLTOWER1, COOLTOWER2	40 CFR Part 63, Subpart Q	The units are not located at a major source of HAPs.
GRPDIESLTK	EG1-DSLTK, EG2-DSLTK, FP-DSLTK, MV-DSLTK	40 CFR Part 60, Subpart Kb	The capacity of each storage vessel is less than 75 cubic meters (19,810 gallons).
GRPDRENLTk	DRENLTkCT1, DRENLTkCT2, DRENLTkCT3, DRENLTkCT4, DRENLTkST1, DRENLTkST2	40 CFR Part 60, Subpart Kb	Each unit is a process tank and therefore is not a storage vessel as defined in 40 CFR Part 60, Subpart Kb.

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
GRPHYDTKST	HYDRTKST1, HYDRTKST2	40 CFR Part 60, Subpart Kb	Each unit is a process tank and therefore is not a storage vessel as defined in 40 CFR Part 60, Subpart Kb.
GRPIOCTK	CT-BT, CT-CIT, CT-SAT, CT-SIT, WP-BT, WP-FST, WP-SAT	40 CFR Part 60, Subpart Kb	The tanks do not store any volatile organic liquid (VOL).
GRPLUBETNK	LUBETNKCT1, LUBETNKCT2, LUBETNKCT3, LUBETNKCT4, LUBETNKST1, LUBETNKST2	40 CFR Part 60, Subpart Kb	Each unit is a process tank and therefore is not a storage vessel as defined in 40 CFR Part 60, Subpart Kb.
GRPSCAVTK	SCAVTK1, SCAVTK2, SCAVTK3, SCAVTK4	40 CFR Part 60, Subpart Kb	Each unit is a process tank and therefore is not a storage vessel as defined in 40 CFR Part 60, Subpart Kb.
OILWATRSEP	N/A	40 CFR Part 63, Subpart VV	This standard is not referenced by any other subpart of 40 CFR Parts 60, 61, or 63 that is applicable to the site.
PAINTING	N/A	40 CFR Part 63, Subpart MMMM	The site is not a major source of hazardous air pollutants.
WASHER1	N/A	40 CFR Part 63, Subpart T	The units are parts washers using solvent that contains a combined total of 5 percent or less by weight of the halogenated HAP compounds listed in 40 CFR §63.460(a).

New Source Review Authorization References

New Source Review Authorization References 36

New Source Review Authorization References by Emission Unit 37

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.: PSDTX936	Issuance Date: 03/13/2024
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.: 41008	Issuance Date: 03/13/2024
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 12/24/1998
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.355	Version No./Date: 09/04/2000
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: 106.511	Version No./Date: 09/04/2000
Number: 106.532	Version No./Date: 09/04/2000

New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
CONDENTK1	CONDENSATE STORAGE TANK 1 (METERING YARD)	41008, PSDTX936
COOLTOWER1	COOLING TOWER 1	41008, PSDTX936
COOLTOWER2	COOLING TOWER 2	41008, PSDTX936
CT-BT	COOLING TOWER BLEACH TANK	106.371/09/04/2000
CT-CIT	COOLING TOWER CORROSION INHIBITOR TANK	106.371/09/04/2000
CT-SAT	COOLING TOWER SULFURIC ACID TANK	106.371/09/04/2000
CT-SIT	COOLING TOWER SCALE INHIBITOR TANK	106.371/09/04/2000
CTG-1	TURBINE/HRSG-1	41008, PSDTX936, 106.261/11/01/2003 [134858], 106.262/11/01/2003 [134858]
CTG-2	TURBINE/HRSG-2	41008, PSDTX936, 106.261/11/01/2003 [134858], 106.262/11/01/2003 [134858]
CTG-3	TURBINE/HRSG-3	41008, PSDTX936, 106.261/11/01/2003 [134858], 106.262/11/01/2003 [134858]
CTG-4	TURBINE/HRSG-4	41008, PSDTX936, 106.261/11/01/2003 [134858], 106.262/11/01/2003 [134858]
DRENLTCT1	BEARING DRAIN ENLARGEMENT RESERVOIR COMB TURB 1	106.261/12/24/1998
DRENLTCT2	BEARING DRAIN ENLARGEMENT RESERVOIR COMB TURB 2	106.261/12/24/1998
DRENLTCT3	BEARING DRAIN ENLARGEMENT RESERVOIR COMB TURB 3	106.261/12/24/1998
DRENLTCT4	BEARING DRAIN ENLARGEMENT RESERVOIR COMB TURB 4	106.261/12/24/1998
DRENLTST1	BEARING DRAIN ENLARGEMENT RESERVOIR STEAM TURB 1	106.261/12/24/1998
DRENLTST2	BEARING DRAIN ENLARGEMENT RESERVOIR STEAM TURB 2	106.261/12/24/1998
EG1-DSLTK	DIESEL FUEL STORAGE TANK FOR EMERG GEN ENGINE 1	106.472/09/04/2000

New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
EG2-DSLTK	DIESEL FUEL STORAGE TANK FOR EMERG GEN ENGINE 2	106.472/09/04/2000 [80697]
EMERGEN	EMERGENCY GENERATOR ENGINE 1	106.511/09/04/2000
EMERGEN2	EMERGENCY GENERATOR ENGINE 2	106.511/09/04/2000 [80697]
FIREPUMP	FIRE WATER PUMP ENGINE	106.511/09/04/2000
FP-DSLTK	DIESEL FUEL STORAGE TANK FOR FIRE WATER PUMP ENG	106.472/09/04/2000
HYDRTKST1	HYDRAULIC FLUID RESERVOIR FOR STEAM TURBINE 1	106.261/11/01/2003 [113228], 106.262/11/01/2003 [113228]
HYDRTKST2	HYDRAULIC FLUID RESERVOIR FOR STEAM TURBINE 2	106.261/11/01/2003 [113228], 106.262/11/01/2003 [113228]
LUBETNKCT1	LUBE OIL TANK FOR COMBUSTION TURBINE 1	41008, PSDTX936
LUBETNKCT2	LUBE OIL TANK FOR COMBUSTION TURBINE 2	41008, PSDTX936
LUBETNKCT3	LUBE OIL TANK FOR COMBUSTION TURBINE 3	41008, PSDTX936
LUBETNKCT4	LUBE OIL TANK FOR COMBUSTION TURBINE 4	41008, PSDTX936
LUBETNKST1	LUBE OIL TANK FOR STEAM TURBINE 1	41008, PSDTX936
LUBETNKST2	LUBE OIL TANK FOR STEAM TURBINE 2	41008, PSDTX936
MV-DSLTK	DIESEL FUEL STORAGE TANK FOR ON-SITE MOTOR VEHICLE	106.472/09/04/2000
OILWATRSEP	OIL/WATER SEPARATOR	106.532/09/04/2000
PAINTING	MAINTENANCE PAINTING OF SITE EQUIPMENT	106.263/11/01/2001
SCAVTK1	HYDROGEN SCAVENGING TANK 1	41008, PSDTX936
SCAVTK2	HYDROGEN SCAVENGING TANK 2	41008, PSDTX936
SCAVTK3	HYDROGEN SCAVENGING TANK 3	41008, PSDTX936

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**
SCAVTK4	HYDROGEN SCAVENGING TANK 4	41008, PSDTX936
WASHER1	SOLVENT PART WASHER	106.454/11/01/2001
WP-BT	WATER PLANT BLEACH TANK	106.371/09/04/2000
WP-FST	WATER PLANT FERRIC SULFATE TANK	106.371/09/04/2000
WP-SAT	WATER PLANT SULFURIC ACID TANK	106.371/09/04/2000

**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 41

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
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 43

Major NSR Summary Table

Permit Number 41008 and PSDTX936					Issuance Date: March 13, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
GT-HRSG 1	Combustion Turbine No. 1 (GE PG7241 [7FA]) Combustion Turbine/HRSG Stack	Combined-Cycle Gas Turbine only operation (Maximum Hourly Limits)					
		NO _x (5)	60.00		4, 9, 10, 12, 13, 14, 15, 16	4, 9, 10, 12, 13, 14, 15, 16, 19, 20	10, 12, 13, 21, 22
		CO (5)	29.00				
		VOC (5)	2.80				
		PM/PM ₁₀ /PM _{2.5} (5)	18.30				
		SO ₂ (5)	2.40				
		H ₂ SO ₄ (5)	0.27				
		Gas Turbine MSS Operations (Maximum Hourly Limits)					
		NO _x (5)	250.00		4, 9, 13, 14, 15, 16	4, 9, 13, 14, 15, 16, 20, 26, 28, 29	13, 21, 22
		CO (5)	2100.00				
		VOC (5)	183.00				
		PM/PM ₁₀ /PM _{2.5} (5)	21.00				
		SO ₂ (5)	2.40				
		H ₂ SO ₄ (5)	0.27				
Combined-Cycle Gas Turbine with HRSG duct burner							

Major NSR Summary Table

Permit Number 41008 and PSDTX936					Issuance Date: March 13, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		(Maximum Hourly Limits)					
		NO _x (5)	82.00		4, 9, 10, 12, 13, 14, 15, 16	4, 9, 10, 12, 13, 14, 15, 16, 19, 20	10, 12, 13, 21, 22
		CO (5)	51.00				
		VOC (5)	5.60				
		PM/PM ₁₀ /PM _{2.5} (5)	21.00				
		SO ₂ (5)	2.70				
		H ₂ SO ₄ (5)	0.30				
GT-HRSG 2	Combustion Turbine No. 2 (GE PG7241 [7FA]) Combustion Turbine/HRSG Stack	Combined-Cycle Gas Turbine only operation (Maximum Hourly Limits)					
		NO _x (5)	60.00		4, 9, 10, 12, 13, 14, 15, 16	4, 9, 10, 12, 13, 14, 15, 16, 19, 20	10, 12, 13, 21, 22
		CO (5)	29.00				
		VOC (5)	2.80				
		PM/PM ₁₀ /PM _{2.5} (5)	18.30				
		SO ₂ (5)	2.40				
		H ₂ SO ₄ (5)	0.27				
Gas Turbine MSS Operations (Maximum Hourly Limits)							

Major NSR Summary Table

Permit Number 41008 and PSDTX936					Issuance Date: March 13, 2024			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements	
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information	
		NO _x (5)	250.00		4, 9, 13, 14, 15, 16	4, 9, 13, 14, 15, 16, 20, 26, 28, 29	13, 21, 22	
		CO (5)	2100.00					
		VOC (5)	183.00					
		PM/PM ₁₀ /PM _{2.5} (5)	21.00					
		SO ₂ (5)	2.40					
		H ₂ SO ₄ (5)	0.27					
		Combined-Cycle Gas Turbine with HRSG duct burner (Maximum Hourly Limits)						
		NO _x (5)	82.00		4, 9, 10, 12, 13, 14, 15, 16	4, 9, 10, 12, 13, 14, 15, 16, 19, 20	10, 12, 13, 21, 22	
		CO (5)	51.00					
		VOC (5)	5.60					
		PM/PM ₁₀ /PM _{2.5} (5)	21.00					
		SO ₂ (5)	2.70					
		H ₂ SO ₄ (5)	0.30					
		GT-HRSG 3	Combustion Turbine No. 3 (GE PG7241 [7FA]) Combustion Turbine/HRSG Stack	Combined-Cycle Gas Turbine only operation (Maximum Hourly Limits)				
NO _x (5)	60.00				4, 9, 10, 12, 13, 14, 15,	4, 9, 10, 12, 13, 14, 15, 16,	10, 12, 13, 21, 22	

Major NSR Summary Table

Permit Number 41008 and PSDTX936					Issuance Date: March 13, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		CO (5)	29.00		16	19, 20	
		VOC (5)	2.80				
		PM/PM ₁₀ /PM _{2.5} (5)	18.30				
		SO ₂ (5)	2.40				
		H ₂ SO ₄ (5)	0.27				
		Gas Turbine MSS Operations (Maximum Hourly Limits)					
		NO _x (5)	250.00		4, 9, 13, 14, 15, 16	4, 9, 13, 14, 15, 16, 20, 26, 28, 29	13, 21, 22
		CO (5)	2100.00				
		VOC (5)	183.00				
		PM/PM ₁₀ /PM _{2.5} (5)	21.00				
		SO ₂ (5)	2.40				
		H ₂ SO ₄ (5)	0.27				
		Combined-Cycle Gas Turbine with HRSG duct burner (Maximum Hourly Limits)					
		NO _x (5)	82.00		4, 9, 10, 12, 13, 14, 15, 16	4, 9, 10, 12, 13, 14, 15, 16, 19, 20	10, 12, 13, 21, 22
		CO (5)	51.00				

Major NSR Summary Table

Permit Number 41008 and PSDTX936					Issuance Date: March 13, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		VOC (5)	5.60				
		PM/PM ₁₀ /PM _{2.5} (5)	21.00				
		SO ₂ (5)	2.70				
		H ₂ SO ₄ (5)	0.30				
GT-HRSG 4	Combustion Turbine No. 4 (GE PG7241 [7FA]) Combustion Turbine/HRSG Stack	Combined-Cycle Gas Turbine only operation (Maximum Hourly Limits)					
		NO _x (5)	60.00		4, 9, 10, 12, 13, 14, 15, 16	4, 9, 10, 12, 13, 14, 15, 16, 19, 20	10, 12, 13, 21, 22
		CO (5)	29.00				
		VOC (5)	2.80				
		PM/PM ₁₀ /PM _{2.5} (5)	18.30				
		SO ₂ (5)	2.40				
		H ₂ SO ₄ (5)	0.27				
		Gas Turbine MSS Operations (Maximum Hourly Limits)					
		NO _x (5)	250.00		4, 9, 13, 14, 15, 16	4, 9, 13, 14, 15, 16, 20, 26, 28, 29	13, 21, 22
		CO (5)	2100.00				
VOC (5)	183.00						

Major NSR Summary Table

Permit Number 41008 and PSDTX936					Issuance Date: March 13, 2024				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements		
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information		
		PM/PM ₁₀ /PM _{2.5} (5)	21.00						
		SO ₂ (5)	2.40						
		H ₂ SO ₄ (5)	0.27						
		Combined-Cycle Gas Turbine with HRSG duct burner (Maximum Hourly Limits)					4, 9, 10, 12, 13, 14, 15, 16	4, 9, 10, 12, 13, 14, 15, 16, 19, 20	10, 12, 13, 21, 22
		NO _x (5)	82.00						
		CO (5)	51.00						
		VOC (5)	5.60						
		PM/PM ₁₀ /PM _{2.5} (5)	21.00						
		SO ₂ (5)	2.70						
		H ₂ SO ₄ (5)	0.30						
GT-HRSG 1, GT-HRSG 2, GT-HRSG 3, and GT-HRSG 4	(GE PG7241 [7FA]) Combustion Turbine/HRSG Stack No. 1,2, 3, and 4	Limits for combined emissions from normal, MSS, and reduced load operation			4, 12, 13, 14, 15, 16	4, 12, 13, 15, 16, 19, 20, 26, 28, 29	12, 13, 21, 22		
		NO _x (5)		1126.00					
		NO _x (7)	930.00	--					

Major NSR Summary Table

Permit Number 41008 and PSDTX936					Issuance Date: March 13, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		CO (5)		635.60			
		VOC (5)		68.00			
		PM/PM ₁₀ /PM _{2.5} (5)		342.40			
		SO ₂ (5)		40.40			
		H ₂ SO ₄ (5)		4.80			
Ancillary Sources (Hourly and Annual Limits)							
CT-1	Cooling Tower No. 1	PM/PM ₁₀ (5)	18.70	81.70	17	17, 19, 20	17
		HOCl	0.04	0.17			
		HCl	0.03	0.12			
		H ₂ SO ₄	< 0.01	< 0.01			
		VOC (5)	0.02	0.07			
CT-2	Cooling Tower No. 2	PM/PM ₁₀ (5)	18.70	81.70	17	17, 19, 20	17
		HOCl	0.04	0.17			
		HCl	0.03	0.12			
		H ₂ SO ₄	< 0.01	< 0.01			
		VOC (5)	0.02	0.07			

Major NSR Summary Table

Permit Number 41008 and PSDTX936					Issuance Date: March 13, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
F-1	Natural Gas, Condensate, Lube Oil, and Seal Oil Piping for Units 1 thru 4	VOC (5)(6)	2.71	11.85			
		H ₂ S (5)	< 0.01	< 0.01			
LUBETNKCT1	Unit 1 Combustion Turbine Lube Oil Reservoir Vent	VOC (5)(6)	0.09	0.40			
		PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40			
LUBETNKCT2	Unit 2 Combustion Turbine Lube Oil Reservoir Vent	VOC (5)(6)	0.09	0.40			
		PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40			
LUBETNKCT3	Unit 3 Combustion Turbine Lube Oil Reservoir Vent	VOC (5)(6)	0.09	0.40			
		PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40			
LUBETNKCT4	Unit 4 Combustion Turbine Lube Oil Reservoir Vent	VOC (5)(6)	0.09	0.40			
		PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40			
LUBETNKST1	Steam Turbine No. 1 Lube Oil Reservoir Vent	VOC (5)(6)	0.09	0.40			
		PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40			
LUBETNKST2	Steam Turbine No. 2 Lube Oil Reservoir Vent	VOC (5)(6)	0.09	0.40			
		PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40			
CONDENTK1	Natural Gas Condensate	VOC (5)	0.12	0.50			

Major NSR Summary Table

Permit Number 41008 and PSDTX936					Issuance Date: March 13, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Storage Tank No. 1 in Metering Yard	H ₂ S	0.01	0.01			
LD-CONDTK1	Natural Gas Condensate Truck Loading from Storage Tank No. 1	VOC (5)	18.10	0.01			
		H ₂ S	0.01	0.01			
SCAVTK1	Hydrogen Scavenging Tank Vent for Unit 1 Seal Oil	VOC (5)	0.01	0.01			
		PM/PM ₁₀ /PM _{2.5} (5)	0.01	0.01			
SCAVTK2	Hydrogen Scavenging Tank Vent for Unit 2 Seal Oil	VOC (5)	0.01	0.01			
		PM/PM ₁₀ /PM _{2.5} (5)	0.01	0.01			
SCAVTK3	Hydrogen Scavenging Tank Vent for Unit 3 Seal Oil	VOC (5)	0.01	0.01			
		PM/PM ₁₀ /PM _{2.5} (5)	0.01	0.01			
SCAVTK4	Hydrogen Scavenging Tank Vent for Unit 4 Seal Oil	VOC (5)	0.01	0.01			
		PM/PM ₁₀ /PM _{2.5} (5)	0.01	0.01			

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources, use area name or fugitive source name.

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

H₂SO₄ - sulfuric acid

HOCl - hypochlorous acid

HCl - hydrogen chloride

H₂S - hydrogen sulfide

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5},
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5},
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) These emissions are authorized under Federal PSD and state permitting regulations.
- (6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (7) MSS hourly emission limit only. The tpy emission limit represented in the MAERT for these facilities includes combined emissions from the facilities during normal operations, planned MSS activities and reduced load operation.



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
Luminant Generation Company LLC
Authorizing the Construction and Operation of
Odessa Ector Generating Station
Located at Odessa, Ector County, Texas
Latitude 31.838888 Longitude -102.325555

Permits: 41008 and PSDTX936

Amendment Date: March 13, 2024

Expiration Date: March 30, 2030



For the Commission

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

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

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

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

Common Acronyms in Air Permits

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

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

Special Conditions

Permit Numbers 41008 and PSDTX936

Emission Standards and Operating Specifications

1. The four combustion turbine generator (CTG) units authorized by this permit are each rated for a nominal maximum power output of 200 megawatts (MW) and have a combined nominal capacity of 1,100 MW in combined cycle operations. These are the nominal ratings and are not limitations. Higher than nominal output is allowed but the permit holder must still maintain compliance with all other permit conditions. Each of the four CTG units authorized by this permit is limited to a maximum heat input capacity of 1,910 million British thermal units per hour (MMBtu/hr), based on the higher heating value (HHV) of the fuel fired.
2. The four heat recovery steam generating unit (HRSGU) duct burners are each limited to a maximum heat input capacity of 275 MMBtu/hr based on the HHV of the fuel fired.
3. Fuel for CTGs and HRSGU duct burners is limited to pipeline-quality natural gas and the natural gas blends, described in Odessa-Ector Power Partner's letter to Texas Commission on Environmental Quality (TCEQ) dated July 19, 2007. The fuel shall contain no more than 0.37 grains total sulfur per 100 dry standard cubic feet (dscf) (0.37 grain total sulfur per 100 dscf averaged over any consecutive 12-month period). Use of any other fuel shall require modification to this permit. Fuel usage shall also be based on the limitations specified in Special Condition Nos. 1, 2, and the compliance demonstration requirements in Special Condition No. 16.
4. Upon request by the Executive Director of the TCEQ or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuels fired in the gas turbines and duct burners or shall allow air pollution control agency representatives to obtain a sample for analysis.
5. The CTG units shall normally operate in the 6Q stage of combustion (which typically corresponds to loads between 50 and 100 percent of base load) except for periods of maintenance, startup or shutdown (MSS) (as defined in Special Conditions Nos. 28 and 29) and reduced load operation. Reduced load operation which is defined as non-MSS operation in other than the 6Q stage of combustion, is authorized to accommodate periods of reduced power demand. During reduced load operation, emissions must not exceed the maximum pounds per hour (lbs/hr) emission rates specified on the attached table titled "Emission Sources - Maximum Allowable Emissions Rates."
6. For any CTG load except during periods of planned MSS or during periods of reduced load operation associated with reduced power demand as authorized under Special Condition No. 5, the CTG emissions shall not exceed the following exhaust concentration limits.

The limits are expressed as three hour-average concentrations (or one-hour-average concentrations prior to July 1, 2012) in parts per million by volume dry basis (ppmvd), corrected to 15 percent oxygen (O₂), without correction to International Standards Organization (ISO) conditions. Compliance with the concentration limits for nitrogen oxides (NO_x) and carbon monoxide (CO) is based on concentrations averaged over each rolling three-clock hour period of normal operation (or each one clock hour of normal operation prior to July 1, 2012), as measured and recorded by the continuous emissions monitoring system (CEMS) specified in Special Condition No. 13:

- A. NO_x - 9.0 ppmvd.
- B. CO - 9.0 ppmvd.

- C. Volatile organic compounds (VOC), 1.2 ppmvd. For the purposes of this limit, VOC is defined as total hydrocarbons, not including methane and ethane, and is calculated (measured) as methane.

7. [RESERVED]

- 8. For any CTG load except during periods of planned MSS or during periods of reduced load operation associated with reduced power demand as authorized under Special Condition No. 5, the combined CTG and HRSGU duct burner emissions shall not exceed the following exhaust concentration limits. The limits are expressed as three hour-average concentrations in ppmvd, corrected to 15 percent O₂, without correction to ISO conditions. Compliance with the concentration limits for NO_x and CO is based on concentrations averaged over each rolling three-clock hour period of normal operation (or each one-clock hour of normal operation prior to July 1, 2012), as measured and recorded by the CEMS specified in Special Condition No. 13:

- A. NO_x - 10.9 ppmvd.
- B. CO - 11.4 ppmvd.
- C. VOC - 2.2 ppmvd.

- 9. Opacity of emissions shall not exceed the following limits, expressed as opacity readings averaged over a six-minute period:

- A. Except during MSS activities, five percent from Emission Point Numbers (EPNs) GT-HRSG 1, GT-HRSG 2, GT-HRSG 3, and GT-HRSG 4.
- B. During MSS activities, 15 percent from EPNs GT-HRSG 1, GT-HRSG 2, GT-HRSG 3, GT-HRSG 4.
- C. 15 percent, from any cooling tower vent.

Compliance with the limits specified in Special Conditions 9A, 9B, and 9C shall be determined by first observing for visible emissions while each facility is in operation. Observations shall be made at least 15 feet and no more than 0.25 miles from the emission points. Up to three emissions points may be read concurrently, provided that all three emissions points are within a 70-degree viewing sector or angle in front of the observer such that the proper sun position (at the observer's back) can be maintained for all three emission points. If visible emissions are observed from an emission point, then the opacity shall be determined and documented within 24 hours for that emission point during the specific type of operation that exhibited the visible emissions (i.e., during MSS operation versus non-MSS operation) using Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9.

Observations to verify compliance with the limits specified in Special Conditions 9A, 9B, and 9C shall be performed and recorded quarterly. Contributions from uncombined water shall not be included in determining compliance with the limits. If the opacity measured using Method 9 exceeds the specified limits, corrective action to eliminate the source of visible emissions shall be taken promptly and documented within one week of first observation.

Federal Applicability

10. The CTGs/HRSGUs shall comply with applicable requirements of the EPA Regulations on Standards of Performance for New Stationary Sources, Title 40 Code of Federal Regulations (40 CFR) Part 60: **(03/24)**
 - A. Subpart A: General Provisions.
 - B. Subpart KKKK: Standards of Performance for Stationary Combustion Turbines.

Initial Determination of Compliance

11. Sampling ports and platforms shall be incorporated into the design of all four exhaust stacks (EPNs GT-HRSG 1, GT-HRSG 2, GT-HRSG 3, and GT-HRSG 4) according to the specifications set forth in the attachment titled "Chapter 2, Stack Sampling Facilities." Alternate sampling facility designs may be submitted for approval by the TCEQ Midland Regional Director.
12. Upon request of the TCEQ Midland Regional Office, the holder of this permit shall perform stack sampling and other testing as required to establish the actual quantities of air contaminants being emitted into the atmosphere from at least two of the four units: EPNs GT-HRSG 1, GT-HRSG 2, GT-HRSG 3, and GT-HRSG 4. If any unit sampled exceeds the allowable emissions or if there is a significant deviation in the results of the two sampled units, additional units may be required to sample. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and in accordance with the appropriate EPA Reference Methods.

Fuel sampling using the methods and procedures of 40 CFR Part 60, Subpart GG may be conducted in lieu of stack sampling for sulfur dioxide (SO₂). If fuel sampling is used, compliance with New Source Performance Standards (NSPS), Subpart GG, SO₂ limits shall be based on 100 percent conversion of the sulfur in the fuel to SO₂. Any deviations from those procedures must be approved by the Executive Director of the TCEQ prior to sampling. The TCEQ Executive Director or his designated representative shall be afforded the opportunity to observe all such sampling.

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 Midland 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 equipment to be used.
- (5) Method or procedure to be used in sampling.
- (6) Procedure used to determine turbine loads during and after the sampling period.
- (7) Method to determine stack concentration of particulate matter (PM).

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports. A written proposed description of any deviation from sampling procedures specified in permit conditions or TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Midland Regional Director shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in this condition or alternate/equivalent test procedure proposals for NSPS requiring U.S. EPA approval under 40 CFR Part 60 shall be submitted to the TCEQ Office of Air, Air Permits Division in Austin.

- B. Air emissions to be tested for at full CTG load include (but are not limited to) NO_x, O₂, CO, VOC, PM equal to or less than 10 microns in diameter, and opacity. Testing at full CTG load shall be conducted for the following test conditions: CTG only, and CTG and duct burner firing at the maximum feasible rate. This testing will be used to demonstrate initial compliance with Special Condition Nos. 6 and 8 and the maximum allowable emission rates table (MAERT).
- C. Air emissions of NO_x, O₂, CO, and VOC from each CTG (duct burners off) shall be tested at three partial load conditions in the normal operating range of the gas turbine, including the minimum point in the range. The normal operating range consistent with emission limits is to be determined during stack testing. This testing will be used to demonstrate initial compliance with Special Condition No. 6 and the MAERT. Each tested load shall be identified in the sampling report.
- D. Air emissions of NO_x, O₂, CO, and VOC from the HRSGU duct burners shall be tested while firing at maximum rated heat capacity that will produce the highest allowable emission rates considering the ambient conditions at the time of testing. If simultaneous sampling is not possible, the HRSGU duct burner emissions shall be calculated as the remainder of emissions when subtracting the CTG emissions with the duct burners out of service from the GT-HRSGU stack emissions with the duct burners in service. The CTG must be operating at a maximum rate for the ambient conditions and shall be fired with natural gas. For the purposes of demonstrating initial compliance, emissions from the HRSGU duct burners shall not exceed the limits in Special Condition No. 8.
- E. Sampling of each gas turbine and duct burner shall occur within 60 days after achieving the maximum production rate at which each gas turbine and duct burner will be operated but no later than 180 days after initial startup of each unit. Additional sampling shall occur as may be required by the TCEQ or EPA.
- F. Within 60 days after the completion of the testing and sampling required herein, two copies of the sampling reports shall be distributed as follows:
 - (1) One copy to the TCEQ Midland Regional Office.
 - (2) One copy to the EPA Region 6 Office, Dallas.
- G. The initial performance testing was completed in July 2001.

Continuous Determination of Compliance

- 13. The holder of this permit shall install, calibrate, maintain, and operate a CEMS to measure and record the concentrations of NO_x, CO, and O₂ from each GT-HRSGU Stack (EPNs GT-HRSG 1, GT-HRSG 2, GT-HRSG 3, and GT-HRSG 4). The initial certification and Relative Accuracy Test Audit shall be conducted prior to or during the sampling required by Special Condition No. 12. For

periods of planned MSS or reduced load operation as authorized under Special Condition No. 5 during which CEMS emission data for a CTG-HRSGU stack are unavailable, combustion turbine emission rates may alternatively be calculated using manufacturer emission factors or representative data previously measured and recorded by the unit's CEMS during MSS operations.

- A. Monitored NO_x and CO concentrations shall be corrected and reported in dimensional units corresponding to the emission rate and concentration limits established for the gas turbines and duct burners in this permit.
 - B. The NO_x CEMS shall meet the relevant quality-assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1. As an alternative, the quality-assurance procedures outlined in 40 CFR Part 75, Appendix B for NO_x and O₂ may be used to satisfy the quality assurance requirements of this condition. For the CO CEMS, Cylinder Gas Audits may be conducted in all four calendar quarters in lieu of annual Relative Accuracy Test Audits. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, Section 5.2.3, or in 40 CFR Part 75, Appendix B (if selected for NO_x and O₂), and any CEMS downtime shall be reported to the TCEQ Midland Regional Director, as required by Special Condition No. 21, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the Regional Director of the TCEQ Midland Office.
 - C. The monitoring data shall be reduced to hourly average values at least once every day, using a minimum of four equally-spaced data points from each one-hour period.
 - D. All monitoring data and quality-assurance data shall be maintained by the source for a period of five years and shall be made available to the TCEQ Executive Director or his designated representative upon request. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit. Hourly average concentrations from EPN GT-HRSG 1, GT-HRSG 2, GT-HRSG 3, or GT-HRSG 4 shall be converted to tons per year and used to determine compliance with the annual emission limits in the MAERT.
 - E. The TCEQ Midland Regional Office shall be notified at least 30 days prior to any required relative accuracy test audit in order to provide them the opportunity to observe the testing.
 - F. If applicable, the CEMS will be required to meet the design and performance specifications, pass the field tests, and meet the installation requirements and data analysis and reporting requirements specified in the applicable performance specifications in 40 CFR Part 75, Appendix A.
14. If any emission monitor for a GT-HRSGU stack fails to meet specified performance, it shall be repaired or replaced immediately, but no later than seven days after it was first detected by any employee at the site, unless written permission is obtained from the TCEQ which allows for a longer repair/replacement time. The holder of this permit shall develop an operation and maintenance program (including stocking necessary spare parts) to ensure that the continuous monitors are available as required.
15. The holder of this permit shall additionally install, calibrate, maintain, and operate continuous monitoring systems to monitor and record the average hourly natural gas consumption of the gas turbines and the duct burners. The systems shall be accurate to ± 5.0 percent of the unit's maximum flow.

16. To demonstrate compliance with Special Condition No. 3 and the SO₂ limitations in the MAERT for the CTGs and HRSGU duct burners, the holder of this permit shall determine the sulfur content of natural gas fired using one of the following options:
 - A. The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 0.37 grains/100 scf or less; or
 - B. Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 0.37 grains/100 scf. Fuel sampling shall be performed quarterly.

17. The holder of this permit shall demonstrate continuous compliance with the hourly and annual PM emission limits in the MAERT for the cooling towers by periodically monitoring the solids concentration in the cooling water. The water in the Cooling Towers must not exceed a total dissolved solids (TDS) concentration of 13,000 parts per million by weight (ppmw). The holder of this permit shall:
 - A. Perform sampling to establish a TDS-to-conductivity conversion factor [in ppmw per micromho/centimeter (µmho/cm)]. Collect a sample of cooling water in each of the three calendar months following issuance of this Special Condition. Analyze each of the three samples for conductivity and TDS in order to establish the actual cooling water TDS-to-conductivity conversion factor. Analyze conductivity and TDS in accordance with "Standard Methods for the Examination of Water and Wastewater" Method 2510 (Conductivity) and Method 2540 (Solids). Determine an average conversion factor and standard deviation based on the three values from the cooling water sample results.
 - B. Submit to the TCEQ Midland Regional Office copies of the sampling report within 30 days after completion of the sampling.
 - C. On no less than a weekly basis, measure and record the conductivity of the cooling water at a monitoring point in the recirculating water system of each cooling tower. Convert each conductivity measurement to TDS concentration in ppmw using the TDS-to-conductivity conversion factor established in accordance with A. of this Special Condition. A conservative default conversion factor of 0.80 may be used initially until a site-specific demonstrated value is determined.

Projected Actual Emissions Tracking (03/24)

18. The project associated with the permit application PI-1 dated February 16, 2024, TCEQ NSR Project No. 370412, was determined to not be subject to major new source review through the use of projected actual emission rates as listed in the table of this special condition for EPNs GT-HRSG 1, GT-HRSG 2, GT-HRSG 3, and GT-HRSG 4. Actual emissions from these sources shall be monitored as represented in the application, and records shall be maintained and reported in accordance with 30 TAC §116.127. Records shall be maintained for five calendar years from the project's commencement of operation. A report is due to the Executive Director within 60 days after the end of each calendar year of which records must be maintained documenting the unit's annual emissions during the calendar year that preceded submission of the report in accordance with 30 TAC §116.127(c). **(03/24)**

FIN/EPN	Pollutant	Baseline Actual Emissions ^b (tpy)	Post Project Allowable (tpy)	Projected Actual Emissions ^b (tpy)	CHA ^{a, b} Correction (tpy)	Monitoring Special Condition Nos.
GT-HRSG 1, GT-HRSG 2, GT-HRSG 3, GT-HRSG 4	NO _x	681.67	1126.00	792.69	198.29	13
	CO	248.36	635.60	395.75	156.67	13
	VOC	18.56	68.00	21.58	5.43	15
	SO ₂	14.22	40.40	16.54	4.17	3, 15, 16
	PM	45.53	342.40	52.95	13.43	15
	PM ₁₀	45.53	342.40	52.95	13.43	15
	PM _{2.5}	45.53	342.40	52.95	13.43	15

^aCHA = Could have accommodated increment.

^bBaseline actual emissions, projected actual emissions, and CHA correction emissions shown in the table do not represent not-to-exceed permit limits.

Recordkeeping Requirements

19. The following records shall be kept at the plant for the life of the permit. All records required in this permit shall be made available at the request of personnel from the TCEQ, EPA, or any air pollution control agency with jurisdiction.
 - A. A copy of this permit.
 - B. Permit application dated April 1, 1999 and subsequent representations submitted to the TCEQ, including the amendment application dated August 14, 2009.
 - C. A complete copy of the testing reports and records of the initial performance testing completed pursuant to Special Condition No. 12 to demonstrate initial compliance.
 - D. Stack sampling results or other testing (other than CEMS data) that may be conducted on units authorized under this permit after the date of issuance of this permit.

20. The following information shall be maintained by the holder of this permit in a form suitable for inspection for a period of five years after collection and shall be made immediately available upon request to representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction:
 - A. The CEMS data of NO_x, CO, and O₂ emissions from EPNs GT-HRSG 1, GT-HRSG 2, GT-HRSG 3, and GT-HRSG 4 to demonstrate compliance with the MAERT;
 - B. Raw data files of all CEMS data, including relative accuracy test audit (RATA) results, calibration checks and adjustments and maintenance performed on these systems in a permanent form suitable for inspection;

- C. Records of the hours of operation and average daily quantity of natural gas fired in the CTGs and HRSGU duct burners,
- D. Fuel sulfur content as required by Special Condition No. 16;
- E. Results of visible emission and opacity observations, as specified in Special Condition No. 9, and
- F. Results of TDS and conductivity monitoring data from cooling tower water, as specified in Special Condition No. 17, including:
 - (1) Location of the monitoring point for the cooling tower recirculating water and date and time of monitoring; and
 - (2) Weekly measured conductivity in $\mu\text{mhos/cm}$ and the equivalent TDS ppmw in the recirculating water in the cooling tower.
- G. Records of actual emissions in accordance with Special Condition No. 18. **(03/24)**
- H. Records to demonstrate compliance with Special Condition Nos. 28 and 29 with regards to startup and shutdown of each CTG.

Reporting

- 21. The holder of this permit shall submit to the TCEQ Midland Regional Office and the Air Enforcement Branch of EPA in Dallas semi-annual reports as described in 40 CFR § 60.7. Such reports are required for each emission unit which is required to be continuously monitored pursuant to this permit. In addition to the information specified in 40 CFR § 60.7(c), each report shall contain the hours of operation of the CTGs authorized by this permit and a summary of the periods of noncomplying emissions and CEMS downtimes by cause. The reporting of emission exceedances required by this condition does not relieve the holder of this permit from the notification requirements of emission events or maintenance as required by Title 30 Texas Administrative Code (30 TAC) §§ 101.201, 101.211, 101.221, 101.222, and 101.223.
- 22.
 - A. If the average NO_x or CO stack outlet emission rate for EPNs GT-HRSG 1, GT-HRSG 2, GT-HRSG 3, and GT-HRSG 4 other than planned MSS exceeds the maximum allowable emissions rate for more than one averaging periods, the holder of this permit shall investigate and determine the reason for the exceedance and, if needed, make necessary repairs and/or adjustments as soon as possible.
 - B. If the NO_x or CO emission rate exceeds the emission rate in the MAERT for more than 24 consecutive hours, the permit holder shall notify the TCEQ Midland Regional Office within the next 24 hours either verbally or with a written report via facsimile detailing the cause of the increase in emissions and all efforts being made to correct the problem.
- 23. Report actual emissions in accordance with Special Condition No. 18. **(03/24)**

Permit by Rule Incorporation

24. The following equipment and activities are authorized by permit by rule (PBR) under 30 TAC Chapter 106 and are incorporated into this permit by reference only.

Combustion Activities	PBR
Comfort Heaters	§ 106.102
Comfort Air Conditioning Systems	§ 106.103
Space Heaters	§ 106.183
Emergency Generator Engines, Emergency Fire Water Pump Engine	§ 106.511
Temporary Emergency Generators and Air Compressors	§ 106.511
Miscellaneous Process / Activities	PBR
Bench Scale Laboratory Equipment	§ 106.122
Food Preparation	§ 106.242
Water Treatment Systems, Including Chemical and Water Storage Tanks and Piping	§ 106.371
Vehicle Fueling Facilities, Including Piping and Dispensing	§ 106.412
Miscellaneous Organic and Inorganic Liquid Loading/Unloading	§ 106.472
Oil/Water Separator	§ 106.532
Wastewater Treatment Systems	§ 106.532
Storage Tanks	PBR
Diesel Fuel Storage Tank for Emergency Generator 1	§ 106.472
Diesel Fuel Storage Tank for Emergency Generator 2	§ 106.472
Diesel Fuel Storage Tank for Fire Water Pump Engine	§ 106.472
Hydraulic Oil Storage Tank 1	§ 106.472
Hydraulic Oil Storage Tank 2	§ 106.472
Lube/Hydraulic/Seal Oil Storage Tank for Turbine Recirculation Systems	§ 106.472
Miscellaneous Lube Oil and Grease, Including Used Lubricants	§ 106.472
Steam Turbine Condensate	§ 106.472
Maintenance, Startup, and Shutdown (MSS) Activities	PBR
Welding, Soldering, and Brazing	§ 106.227
Miscellaneous Routine Maintenance, Start-up/Shutdown, Temporary Maintenance (including, but not limited to: blast cleaning, miscellaneous oil changes, painting, water washes, steam cleaning, condensate blowdown)	§ 106.263
Hand-held and Manually Operated Machines	§ 106.265
Natural Gas Pipeline Purging and Maintenance	§ 106.355
Parts Washer Degreaser and Associated Solvent Handling	§ 106.454

Combustion Activities	PBR
Sludge Management	§ 106.532
Hydraulic Control System	No.113228
Replace Turbine Components	No.134858

Maintenance, Startup, and Shutdown

25. Emissions from planned combustion optimization activities shall be subject to the hourly emission limits for MSS activities from the gas turbines listed on the MAERT.
26. The emissions limits that are specified in Special Condition Nos. 6 and 8 do not apply to the clock hours during which planned MSS activities occur. Additionally, if a CTG operates in MSS mode during any part of a clock hour, the applicable lb/hr emission limit for that hour will be the MSS limit specified in the MAERT.
27. The holder of this permit shall minimize emissions during planned MSS activities by operating the facilities authorized by the permit and associated air pollution control equipment in accordance with good air pollution control practices, safe operating practices, and protection of the plant.
28. A planned startup of a CTG authorized by this permit is defined as the period that begins when fuel flow to the CTG is established and ends when the 6Q stage of combustion is achieved, plus 15 minutes. A planned startup for a CTG is limited to 360 minutes (six hours), except a planned startup of a CTG after a maintenance outage is limited to 960 minutes (sixteen hours).
29. Except for periods of reduced load operation associated with reduced power demand as authorized under Special Condition No. 5 and periods of planned combustion optimization maintenance activities as authorized under Special Condition No. 25, a planned shutdown of a CTG is defined as the period that begins when the reduction of fuel flow to the turbine falls below the level necessary to maintain 6Q operation and ends when the unit is no longer receiving fuel. A planned shutdown for a CTG is limited to 60 minutes.

Date: March 13, 2024

Emission Sources - Maximum Allowable Emission Rates

Permit Number 41008 and PSDTX936

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)
GT-HRSG 1	Combustion Turbine No. 1 (GE PG7241 [7FA]) Combustion Turbine/HRSG Stack	Combined-Cycle Gas Turbine only operation (Maximum Hourly Limits)		
		NO _x (5)	60.00	
		CO (5)	29.00	
		VOC (5)	2.80	
		PM/PM ₁₀ /PM _{2.5} (5)	18.30	
		SO ₂ (5)	2.40	
		H ₂ SO ₄ (5)	0.27	
		Gas Turbine MSS Operations (Maximum Hourly Limits)		
		NO _x (5)	250.00	
		CO (5)	2100.00	
		VOC (5)	183.00	
		PM/PM ₁₀ /PM _{2.5} (5)	21.00	
		SO ₂ (5)	2.40	
		H ₂ SO ₄ (5)	0.27	
		Combined-Cycle Gas Turbine with HRSG duct burner (Maximum Hourly Limits)		
		NO _x (5)	82.00	
		CO (5)	51.00	
		VOC (5)	5.60	
		PM/PM ₁₀ /PM _{2.5} (5)	21.00	
		SO ₂ (5)	2.70	
		H ₂ SO ₄ (5)	0.30	

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
GT-HRSG 2	Combustion Turbine No. 2 (GE PG7241 [7FA]) Combustion Turbine/HRSG Stack	Combined-Cycle Gas Turbine only operation (Maximum Hourly Limits)		
		NO _x (5)	60.00	
		CO (5)	29.00	
		VOC (5)	2.80	
		PM/PM ₁₀ /PM _{2.5} (5)	18.30	
		SO ₂ (5)	2.40	
		H ₂ SO ₄ (5)	0.27	
		Gas Turbine MSS Operations (Maximum Hourly Limits)		
		NO _x (5)	250.00	
		CO (5)	2100.00	
		VOC (5)	183.00	
		PM/PM ₁₀ /PM _{2.5} (5)	21.00	
		SO ₂ (5)	2.40	
		H ₂ SO ₄ (5)	0.27	
		Combined-Cycle Gas Turbine with HRSG duct burner (Maximum Hourly Limits)		
		NO _x (5)	82.00	
		CO (5)	51.00	
		VOC (5)	5.60	
		PM/PM ₁₀ /PM _{2.5} (5)	21.00	
		SO ₂ (5)	2.70	
		H ₂ SO ₄ (5)	0.30	

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
GT-HRSG 3	Combustion Turbine No. 3 (GE PG7241 [7FA]) Combustion Turbine/HRSG Stack	Combined-Cycle Gas Turbine only operation (Maximum Hourly Limits)		
		NO _x (5)	60.00	
		CO (5)	29.00	
		VOC (5)	2.80	
		PM/PM ₁₀ /PM _{2.5} (5)	18.30	
		SO ₂ (5)	2.40	
		H ₂ SO ₄ (5)	0.27	
		Gas Turbine MSS Operations (Maximum Hourly Limits)		
		NO _x (5)	250.00	
		CO (5)	2100.00	
		VOC (5)	183.00	
		PM/PM ₁₀ /PM _{2.5} (5)	21.00	
		SO ₂ (5)	2.40	
		H ₂ SO ₄ (5)	0.27	
		Combined-Cycle Gas Turbine with HRSG duct burner (Maximum Hourly Limits)		
		NO _x (5)	82.00	
		CO (5)	51.00	
		VOC (5)	5.60	
		PM/PM ₁₀ /PM _{2.5} (5)	21.00	
		SO ₂ (5)	2.70	
		H ₂ SO ₄ (5)	0.30	

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		
			lbs/hour	TPY (4)	
GT-HRSG 4	Combustion Turbine No. 4 (GE PG7241 [7FA]) Combustion Turbine/HRSG Stack	Combined-Cycle Gas Turbine only operation (Maximum Hourly Limits)			
		NO _x (5)	60.00		
		CO (5)	29.00		
		VOC (5)	2.80		
		PM/PM ₁₀ /PM _{2.5} (5)	18.30		
		SO ₂ (5)	2.40		
		H ₂ SO ₄ (5)	0.27		
		Gas Turbine MSS Operations (Maximum Hourly Limits)			
		NO _x (5)	250.00		
		CO (5)	2100.00		
		VOC (5)	183.00		
		PM/PM ₁₀ /PM _{2.5} (5)	21.00		
		SO ₂ (5)	2.40		
		H ₂ SO ₄ (5)	0.27		
		Combined-Cycle Gas Turbine with HRSG duct burner (Maximum Hourly Limits)			
		NO _x (5)	82.00		
		CO (5)	51.00		
		VOC (5)	5.60		
		PM/PM ₁₀ /PM _{2.5} (5)	21.00		
		SO ₂ (5)	2.70		
		H ₂ SO ₄ (5)	0.30		

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
GT-HRSG 1, GT-HRSG 2, GT-HRSG 3, and GT-HRSG 4	(GE PG7241 [7FA]) Combustion Turbine/HRSG Stack No. 1,2, 3, and 4	Limits for combined emissions from normal, MSS, and reduced load operation		
		NO _x (5)		1126.00
		NO _x (7)	930.00	--
		CO (5)		635.60
		VOC (5)		68.00
		PM/PM ₁₀ /PM _{2.5} (5)		342.40
		SO ₂ (5)		40.40
		H ₂ SO ₄ (5)		4.80
Ancillary Sources (Hourly and Annual Limits)				
CT-1	Cooling Tower No. 1	PM/PM ₁₀ (5)	18.70	81.70
		HOCl	0.04	0.17
		HCl	0.03	0.12
		H ₂ SO ₄	< 0.01	< 0.01
		VOC (5)	0.02	0.07
CT-2	Cooling Tower No. 2	PM/PM ₁₀ (5)	18.70	81.70
		HOCl	0.04	0.17
		HCl	0.03	0.12
		H ₂ SO ₄	< 0.01	< 0.01
		VOC (5)	0.02	0.07
F-1	Natural Gas, Condensate, Lube Oil, and Seal Oil Piping for Units 1 thru 4	VOC (5)(6)	2.71	11.85
		H ₂ S (5)	< 0.01	< 0.01
LUBETNKCT1	Unit 1 Combustion Turbine Lube Oil Reservoir Vent	VOC (5)(6)	0.09	0.40
		PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
LUBETNKCT2	Unit 2 Combustion Turbine Lube Oil Reservoir Vent	VOC (5)(6)	0.09	0.40
		PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40
LUBETNKCT3	Unit 3 Combustion Turbine Lube Oil Reservoir Vent	VOC (5)(6)	0.09	0.40
		PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40
LUBETNKCT4	Unit 4 Combustion Turbine Lube Oil Reservoir Vent	VOC (5)(6)	0.09	0.40
		PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40
LUBETNKST1	Steam Turbine No. 1 Lube Oil Reservoir Vent	VOC (5)(6)	0.09	0.40
		PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40
LUBETNKST2	Steam Turbine No. 2 Lube Oil Reservoir Vent	VOC (5)(6)	0.09	0.40
		PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40
CONDENTK1	Natural Gas Condensate Storage Tank No. 1 in Metering Yard	VOC (5)	0.12	0.50
		H ₂ S	0.01	0.01
LD-CONDTK1	Natural Gas Condensate Truck Loading from Storage Tank No. 1	VOC (5)	18.10	0.01
		H ₂ S	0.01	0.01
SCAVTK1	Hydrogen Scavenging Tank Vent for Unit 1 Seal Oil	VOC (5)	0.01	0.01
		PM/PM ₁₀ /PM _{2.5} (5)	0.01	0.01
SCAVTK2	Hydrogen Scavenging Tank Vent for Unit 2 Seal Oil	VOC (5)	0.01	0.01
		PM/PM ₁₀ /PM _{2.5} (5)	0.01	0.01
SCAVTK3	Hydrogen Scavenging Tank Vent for Unit 3 Seal Oil	VOC (5)	0.01	0.01
		PM/PM ₁₀ /PM _{2.5} (5)	0.01	0.01
SCAVTK4	Hydrogen Scavenging Tank Vent for Unit 4 Seal Oil	VOC (5)	0.01	0.01
		PM/PM ₁₀ /PM _{2.5} (5)	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - H₂SO₄ - sulfuric acid
 - HOCl - hypochlorous acid
 - HCl - hydrogen chloride
 - H₂S - hydrogen sulfide
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5},
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5},
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) These emissions are authorized under Federal PSD and state permitting regulations.
- (6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (7) MSS hourly emission limit only. The tpy emission limit represented in the MAERT for these facilities includes combined emissions from the facilities during normal operations, planned MSS activities and reduced load operation.

Date: March 30, 2020