

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
City Public Service Board

AUTHORIZING THE OPERATION OF
Rio Nogales Power Station
Fossil Fuel Electric Power Generation

LOCATED AT
Guadalupe County, Texas
Latitude 29° 35' 38" Longitude 97° 58' 11"
Regulated Entity Number: RN100218742

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: O2064 Issuance Date: July 17, 2024



For the Commission

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General Terms and Conditions

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

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

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

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

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

Special Terms and Conditions:

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

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

- E. Emission units subject to 40 CFR Part 63, 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 § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
 - (iv) 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.

Additional Monitoring Requirements

- 6. 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

7. 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 April 7, 2023 in the application for project 34994), 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
8. 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.
9. 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).
10. The permit holder shall comply with the following requirements for Air Quality Standard Permits:
 - A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit
 - B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit
 - C. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects

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.

Permit Location

14. 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)

15. 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

16. For units CTG-1, CTG-2, and CTG-3, located at the affected source identified by ORIS/Facility code 55137, 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

17. For units CTG-1, CTG-2, and CTG-3, located at the site identified by Plant code/ORIS/Facility code 55137, 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 unit(s) [insert unit ID numbers for units that are complying with this provision], 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.
 - (2) For units CTG-1, CTG-2, and CTG-3, 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 with the excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D for heat input.
 - (3) For unit(s) [insert unit ID numbers for units that are complying with this provision], 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 with the excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D for 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.

18. 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 25

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
AARRS	SRIC ENGINES	N/A	60JJJJ-1	40 CFR Part 60, Subpart JJJJ	No changing attributes.
AARRS	SRIC ENGINES	N/A	63ZZZZ-2	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
CLT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
CTG-1	STATIONARY TURBINES	N/A	60GG-1	40 CFR Part 60, Subpart GG	No changing attributes.
CTG-2	STATIONARY TURBINES	N/A	60GG-1	40 CFR Part 60, Subpart GG	No changing attributes.
CTG-3	STATIONARY TURBINES	N/A	60GG-1	40 CFR Part 60, Subpart GG	No changing attributes.
EMERENG	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
EMERENG	SRIC ENGINES	N/A	63ZZZZ-2	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FWPENGINE	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GASGEN	SRIC ENGINES	N/A	60JJJJ	40 CFR Part 60, Subpart JJJJ	No changing attributes.
GASGEN	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-VENTS	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	CTG-1V, CTG-2V, CTG-3V	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
HRS-1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60DB-1	40 CFR Part 60, Subpart Db	No changing attributes.
HRS-2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60DB-1	40 CFR Part 60, Subpart Db	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
HRSG-3	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60DB-1	40 CFR Part 60, Subpart Db	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)
AARRS	EU	60JJJJ-1	CO	40 CFR Part 60, Subpart JJJJ	§ 60.4233(c) § 1054-Appendix I(b)(1)-Table 3 § 60.4231(c) § 60.4234 § 60.4243(a) § 60.4243(a)(1) [G]§ 60.4243(d) § 60.4243(g)	Owners and operators of stationary emergency SI ICE with a maximum engine power greater than 19 KW and less than 97 KW that are rich burn engines that use LPG and were manufactured on or after 01/01/2009 must comply with a CO emission limit of 519 g/KW-hr, as stated in 40 CFR 60.4231(c) and 40 CFR 1054-Appendix I(b)(1)-Table 3.	§ 60.4237(c)	§ 60.4243(a)(1) § 60.4245(a) § 60.4245(a)(1) § 60.4245(a)(2) § 60.4245(a)(3) § 60.4245(b)	[G]§ 60.4245(e)
AARRS	EU	60JJJJ-1	HC and NO _x	40 CFR Part 60, Subpart JJJJ	§ 60.4233(c) § 1054-Appendix I(b)(1)-Table 3 § 60.4231(c) § 60.4234 § 60.4243(a) § 60.4243(a)(1) [G]§ 60.4243(d) § 60.4243(g)	Owners and operators of stationary emergency SI ICE with a maximum engine power greater than 19 KW and less than 97 KW that are rich burn engines that use LPG and were manufactured on or after 01/01/2009 must comply with an HC+NO _x emission limit of 13.4 g/KW-hr, as stated in 40 CFR 60.4231(c) and 40 CFR 1054-Appendix I(b)(1)-Table 3.	§ 60.4237(c)	§ 60.4243(a)(1) § 60.4245(a) § 60.4245(a)(1) § 60.4245(a)(2) § 60.4245(a)(3) § 60.4245(b)	[G]§ 60.4245(e)
AARRS	EU	63ZZZZ-2	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
CLT	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
CTG-1	EU	60GG-1	NO _x	40 CFR Part 60, Subpart GG	§ 60.332(a)(1) § 60.332(a)(3)	No owner or operator shall discharge into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of the amount as determined from the specified equation.	[G]§ 60.334(b) § 60.334(c) § 60.334(j) § 60.334(j)(1) [G]§ 60.334(j)(1)(iii) [G]§ 60.335(a) § 60.335(b)(2) § 60.335(b)(3) § 60.335(b)(6) ** See Periodic Monitoring Summary	[G]§ 60.334(b)	§ 60.334(j) § 60.334(j)(5)
CTG-1	EU	60GG-1	SO ₂	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) § 60.334(h)(1) § 60.334(i) [G]§ 60.334(i)(3)(ii) § 60.334(j) § 60.334(j)(2)(i) § 60.334(j)(2)(iii) § 60.335(b)(10) § 60.335(b)(10)(ii) § 60.335(b)(11)	None	§ 60.334(j) § 60.334(j)(5)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
CTG-2	EU	60GG-1	NO _x	40 CFR Part 60, Subpart GG	§ 60.332(a)(1) § 60.332(a)(3)	No owner or operator shall discharge into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of the amount as determined from the specified equation.	[G]§ 60.334(b) § 60.334(c) § 60.334(j) § 60.334(j)(1) [G]§ 60.334(j)(1)(iii) [G]§ 60.335(a) § 60.335(b)(2) § 60.335(b)(3) § 60.335(b)(6) ** See Periodic Monitoring Summary	[G]§ 60.334(b)	§ 60.334(j) § 60.334(j)(5)
CTG-2	EU	60GG-1	SO ₂	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) § 60.334(h)(1) § 60.334(i) [G]§ 60.334(i)(3)(ii) § 60.334(j) § 60.334(j)(2)(i) § 60.334(j)(2)(iii) § 60.335(b)(10) § 60.335(b)(10)(ii) § 60.335(b)(11)	None	§ 60.334(j) § 60.334(j)(5)
CTG-3	EU	60GG-1	NO _x	40 CFR Part 60, Subpart GG	§ 60.332(a)(1) § 60.332(a)(3)	No owner or operator shall discharge into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of the amount as determined from the specified equation.	[G]§ 60.334(b) § 60.334(c) § 60.334(j) § 60.334(j)(1) [G]§ 60.334(j)(1)(iii) [G]§ 60.335(a) § 60.335(b)(2) § 60.335(b)(3) § 60.335(b)(6) ** See Periodic Monitoring Summary	[G]§ 60.334(b)	§ 60.334(j) § 60.334(j)(5)
CTG-3	EU	60GG-1	SO ₂	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) § 60.334(h)(1) § 60.334(i) [G]§ 60.334(i)(3)(ii)	None	§ 60.334(j) § 60.334(j)(5)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 60.334(j) § 60.334(j)(2)(i) § 60.334(j)(2)(iii) § 60.335(b)(10) § 60.335(b)(10)(ii) § 60.335(b)(11)		
EMERENG	EU	60III-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
EMERENG	EU	60III-1	NMHC and NO _x	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than 560 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NO _x emission limit of 6.4 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
EMERENG	EU	60III-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I	Owners and operators of emergency stationary CI	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.			
EMERENG	EU	63ZZZZ-2	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
FWPENGIN E	EU	63ZZZZ-1	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)	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)

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(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)				
GASGEN	EU	60JJJJ	CO	40 CFR Part 60, Subpart JJJJ	§ 60.4233(d)-Table 1 § 60.4234 § 60.4243(b) § 60.4243(b)(1) [G]§ 60.4243(d) § 60.4243(g)	Owners and operators of stationary emergency SI ICE with a maximum engine power greater than 25 HP and less than 100 HP and were manufactured on or after 01/01/2009 must comply with a CO emission limit of 387 g/HP-hr, as listed in Table 1 to this subpart.	§ 60.4237(c)	§ 60.4243(a)(1) § 60.4245(a) § 60.4245(a)(2) § 60.4245(a)(3) § 60.4245(b)	None
GASGEN	EU	60JJJJ	HC and NO _x	40 CFR Part 60, Subpart JJJJ	§ 60.4233(d)-Table 1 § 60.4234 § 60.4243(b) § 60.4243(b)(1) [G]§ 60.4243(d) § 60.4243(g)	Owners and operators of stationary emergency SI ICE with a maximum engine power greater than 25 HP and less than 100 HP and were manufactured on or after 01/01/2009 must comply with an HC+NO _x emission limit of 10 g/HP-hr, as listed in Table 1 to this subpart.	§ 60.4237(c)	§ 60.4243(a)(1) § 60.4245(a) § 60.4245(a)(2) § 60.4245(a)(3) § 60.4245(b)	None
GASGEN	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	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
GRP-VENTS	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
HRSG-1	EU	60DB-1	NO _x	40 CFR Part 60, Subpart Db	§ 60.44b(l)(1) § 60.44b(h) § 60.44b(i) § 60.46b(a) § 60.48b(h)	Affected facilities combusting coal, oil, or natural gas, or a mixture of these fuels, or any other fuels: a limit of 86 ng/JI (0.20 lb/million Btu) heat input unless the affected facility meets the specified requirements.	§ 60.46b(c) § 60.46b(f) [G]§ 60.46b(f)(1) ** See Periodic Monitoring Summary	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b)
HRSG-1	EU	60DB-1	PM	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
HRSG-1	EU	60DB-1	PM (Opacity)	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).			
HRSG-1	EU	60DB-1	SO ₂	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
HRSG-2	EU	60DB-1	NO _x	40 CFR Part 60, Subpart Db	§ 60.44b(l)(1) § 60.44b(h) § 60.44b(i) § 60.46b(a) § 60.48b(h)	Affected facilities combusting coal, oil, or natural gas, or a mixture of these fuels, or any other fuels: a limit of 86 ng/Jl (0.20 lb/million Btu) heat input unless the affected facility meets the specified requirements.	§ 60.46b(c) § 60.46b(f) [G]§ 60.46b(f)(1) ** See Periodic Monitoring Summary	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b)
HRSG-2	EU	60DB-1	PM	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
HRSG-2	EU	60DB-1	PM (Opacity)	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
HRSG-2	EU	60DB-1	SO ₂	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
HRSG-3	EU	60DB-1	NO _x	40 CFR Part 60, Subpart Db	§ 60.44b(l)(1) § 60.44b(h) § 60.44b(i) § 60.46b(a) § 60.48b(h)	Affected facilities combusting coal, oil, or natural gas, or a mixture of these fuels, or any other fuels: a limit of 86 ng/Jl (0.20 lb/million Btu) heat input unless the affected facility meets the specified requirements.	§ 60.46b(c) § 60.46b(f) [G]§ 60.46b(f)(1) ** See Periodic Monitoring Summary	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b)
HRSG-3	EU	60DB-1	PM	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
HRSG-3	EU	60DB-1	PM (Opacity)	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
HRSG-3	EU	60DB-1	SO ₂	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84,	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).			

Additional Monitoring Requirements

Periodic Monitoring Summary 36

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: CLT	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Quarterly	
Averaging Period: Six minutes	
Deviation Limit: Maximum opacity of 15% (based on the limit in 30 TAC §111.111(a)(1)(C)) except during periods defined in 30 TAC §111.111(a)(1)(E).	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded at least once during each calendar quarter unless the emission unit venting to this stationary vent does not operate during the quarter. Records of all observations shall be maintained.</p> <p>Visible emissions observations shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations shall be made during times when the activities described in 30 TAC 111.111(a)(1)(E) are not occurring. To properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for performing the visible emissions observations.</p> <p>If visible emissions are not present during the observation, the RO may certify that the source is in compliance. 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 an opacity test specified in 30 TAC 111.111(a)(1)(F) to determine if the source is in compliance with the opacity requirements. If an opacity test is performed by a certified opacity reader and the emissions from the source are determined by the certified opacity reader to have an opacity measurement within the allowable limit, then the RO may certify that the source is in compliance with the applicable opacity requirement. If the certified opacity reader determines that the opacity measurement exceeds the allowable limit, then the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC 122.145(2).</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: CTG-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart GG	SOP Index No.: 60GG-1
Pollutant: NO _x	Main Standard: § 60.332(a)(1)
Monitoring Information	
Indicator: NO _x concentration	
Minimum Frequency: Four times per hour	
Averaging Period: One hour	
Deviation Limit: A 4-hour rolling average value of NO _x exhaust concentration greater than 109 ppmv at 15% O ₂ shall be considered and reported as a deviation.	
<p>Periodic Monitoring Text: A continuous emissions monitoring system (CEMS) that meets the specifications of 40 CFR § 60.334(b) shall be used to monitor compliance with the NO_x emission limit. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and data analysis requirements specified in the applicable performance specifications in 40 CFR Part 75.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: CTG-2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart GG	SOP Index No.: 60GG-1
Pollutant: NO _x	Main Standard: § 60.332(a)(1)
Monitoring Information	
Indicator: NO _x concentration	
Minimum Frequency: Four times per hour	
Averaging Period: One hour	
Deviation Limit: A 4-hour rolling average value of NO _x exhaust concentration greater than 109 ppmv at 15% O ₂ shall be considered and reported as a deviation.	
<p>Periodic Monitoring Text: A continuous emissions monitoring system (CEMS) that meets the specifications of 40 CFR § 60.334(b) shall be used to monitor compliance with the NO_x emission limit. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and data analysis requirements specified in the applicable performance specifications in 40 CFR Part 75.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: CTG-3	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart GG	SOP Index No.: 60GG-1
Pollutant: NO _x	Main Standard: § 60.332(a)(1)
Monitoring Information	
Indicator: NO _x concentration	
Minimum Frequency: Four times per hour	
Averaging Period: One hour	
Deviation Limit: A 4-hour rolling average value of NO _x exhaust concentration greater than 109 ppmv at 15% O ₂ shall be considered and reported as a deviation.	
<p>Periodic Monitoring Text: A continuous emissions monitoring system (CEMS) that meets the specifications of 40 CFR § 60.334(b) shall be used to monitor compliance with the NO_x emission limit. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and data analysis requirements specified in the applicable performance specifications in 40 CFR Part 75.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-VENTS	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Fuel Type	
Minimum Frequency: Annually	
Averaging Period: N/A	
Deviation Limit: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with natural gas, it shall be considered and reported as a deviation.	
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.: HRSG-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Db	SOP Index No.: 60DB-1
Pollutant: NO _x	Main Standard: § 60.44b(l)(1)
Monitoring Information	
Indicator: NO _x Concentration	
Minimum Frequency: Four times per hour	
Averaging Period: Hourly	
Deviation Limit: Based on the combined emissions from the duct burner and the associated combustion turbine and on the combined heat input to both units, NO _x emissions greater than 0.20 lb NO _x /MMBtu shall be considered and reported as a deviation.	
Periodic Monitoring Text: The continuous emissions monitoring system (CEMS) specified in Special Condition No. 24 of NSR Permit No. 40867/PSD Permit No. PSDTX938 shall be used to monitor compliance with the NO _x emission limit. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and data analysis requirements specified in the applicable performance specifications in 40 CFR Part 75.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: HRSO-2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Db	SOP Index No.: 60DB-1
Pollutant: NO _x	Main Standard: § 60.44b(l)(1)
Monitoring Information	
Indicator: NO _x concentration	
Minimum Frequency: Four times per hour	
Averaging Period: One hour	
Deviation Limit: Based on the combined emissions from the duct burner and the associated combustion turbine and on the combined heat input to both units, NO _x emissions greater than 0.20 lb NO _x /MMBtu shall be considered and reported as a deviation.	
Periodic Monitoring Text: The continuous emissions monitoring system (CEMS) specified in Special Condition No. 24 of NSR Permit No. 40867/PSD Permit No. PSDTX938 shall be used to monitor compliance with the NO _x emission limit. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and data analysis requirements specified in the applicable performance specifications in 40 CFR Part 75.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: HRS-3	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Db	SOP Index No.: 60DB-1
Pollutant: NO _x	Main Standard: § 60.44b(l)(1)
Monitoring Information	
Indicator: NO _x concentration	
Minimum Frequency: Four times per hour	
Averaging Period: One hour	
Deviation Limit: Based on the combined emissions from the duct burner and the associated combustion turbine and on the combined heat input to both units, NO _x emissions greater than 0.20 lb NO _x /MMBtu shall be considered and reported as a deviation.	
Periodic Monitoring Text: The continuous emissions monitoring system (CEMS) specified in Special Condition No. 24 of NSR Permit No. 40867/PSD Permit No. PSDTX938 shall be used to monitor compliance with the NO _x emission limit. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and data analysis requirements specified in the applicable performance specifications in 40 CFR Part 75.	

Permit Shield

Permit Shield 45

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
CLT	N/A	40 CFR Part 63, Subpart Q	Cooling tower does not use chromium-based water treatment chemicals.
CONDTK	N/A	40 CFR Part 60, Subpart Kb	Storage vessel capacity is < 75 m ³ (19,812 gallons).
CONDTKLD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Unit is located in Guadalupe County, which is an exempted county under 30 TAC 115, Subchapter C, Division 1, Loading and Unloading of VOCs.
CTG-1	N/A	40 CFR Part 60, Subpart KKKK	Unit was not constructed, reconstructed, or modified after February 18, 2005.
CTG-2	N/A	40 CFR Part 60, Subpart KKKK	Unit was not constructed, reconstructed or modified after February 18, 2005.
CTG-3	N/A	40 CFR Part 60, Subpart KKKK	Unit was not constructed, reconstructed or modified after February 18, 2005.
FWPENGINE	N/A	30 TAC Chapter 117, Subchapter E, Division 1	Unit is not a utility electric power boiler or stationary gas turbine and is not an affected unit.
FWPENGINE	N/A	40 CFR Part 60, Subpart IIII	Unit was not constructed, reconstructed or modified after July 11, 2005.
GLYTHR	N/A	40 CFR Part 60, Subpart Dc	Unit has maximum design heat input capacity of 100 MMBtu/hr or less, but greater than or equal to 10 MMBtu/hr; however, the unit is a process heater and not a steam generating unit.
GLYTHR	N/A	40 CFR Part 63, Subpart DDDDD	Unit is not located at a major source of HAPs.
HRSG-1	N/A	40 CFR Part 60, Subpart Da	HRSG Heat Input Rate < 250 MMBtu/hr.
HRSG-1	N/A	40 CFR Part 60, Subpart Dc	HRSG Heat Input Rate > 100 MMBtu/hr.

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
HRSG-1	N/A	40 CFR Part 63, Subpart JJJJJJ	Unit does not meet the definition of a boiler per 63.11237 and is not an affected source.
HRSG-2	N/A	40 CFR Part 60, Subpart Da	HRSG Heat Input Rate < 250 MMBtu/hr.
HRSG-2	N/A	40 CFR Part 60, Subpart Dc	HRSG Heat Input Rate > 100 MMBtu/hr.
HRSG-2	N/A	40 CFR Part 63, Subpart JJJJJJ	Unit does not meet the definition of a boiler per 63.11237 and is not an affected source.
HRSG-3	N/A	40 CFR Part 60, Subpart Da	HRSG Heat Input Rate < 250 MMBtu/hr.
HRSG-3	N/A	40 CFR Part 60, Subpart Dc	HRSG Heat Input Rate > 100 MMBtu/hr.
HRSG-3	N/A	40 CFR Part 63, Subpart JJJJJJ	Unit does not meet the definition of a boiler per 63.11237 and is not an affected source.
OILWATSEP	N/A	40 CFR Part 60, Subpart Kb	Storage capacity of unit is less than 75 m3.
OILWATSEP	N/A	40 CFR Part 63, Subpart VV	Standard is not referenced by any other Subpart of 40 CFR Parts 60, 61 or 63 that is applicable to the site.
PARTSWASH	N/A	30 TAC Chapter 115, Degreasing Processes	Unit is a remote reservoir cold solvent cleaner.
PARTSWASH	N/A	40 CFR Part 63, Subpart T	Cleaner does not use halogenated HAP solvents.

New Source Review Authorization References

New Source Review Authorization References 48

New Source Review Authorization References by Emission Unit 49

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.: PSDTX938	Issuance Date: 05/09/2023
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 40867	Issuance Date: 05/09/2023
Authorization No.: 153251	Issuance Date: 11/03/2020
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.122	Version No./Date: 09/04/2000
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.244	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.261	Version No./Date: 01/25/2023
Number: 106.262	Version No./Date: 01/25/2023
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 09/04/2000
Number: 106.265	Version No./Date: 09/04/2000
Number: 106.266	Version No./Date: 09/04/2000
Number: 106.316	Version No./Date: 09/04/2000
Number: 106.355	Version No./Date: 11/01/2000
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.412	Version No./Date: 09/04/2000
Number: 106.454	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**
AARRS	EMERGENCY GENERATOR ENGINE	106.511/09/04/2000
CLT	COOLING TOWER	40867, PSDTX938
CONDTK	CONDENSATE CATCH TANK	106.472/09/04/2000
CONDTKLD	LOADING FROM CONDESATE CATCH TANK	106.472/09/04/2000
CTG-1	TURBINE NO. 1	40867, 153251, PSDTX938, 106.261/01/25/2023 [171272], 106.262/01/25/2023 [171272]
CTG-1V	TURBINE NO. 1 VENT	40867, PSDTX938
CTG-2	TURBINE NO. 2	40867, 153251, PSDTX938
CTG-2V	TURBINE NO. 2 VENT	40867, PSDTX938
CTG-3	TURBINE NO. 3	40867, 153251, PSDTX938
CTG-3V	TURBINE NO. 3 VENT	40867, PSDTX938
EMERENG	EMERGENCY GENERATOR ENGINE	106.511/09/04/2000
FWPENGINE	FIRE WATER PUMP ENGINE	106.511/09/04/2000
GASGEN	EMERGENCY GENERATOR ENGINE	106.511/09/04/2000
GLYTHR	PROCESS HEATER	106.183/09/04/2000
HRSG-1	HRSG NO. 1	40867, PSDTX938
HRSG-2	HRSG NO. 2	40867, PSDTX938
HRSG-3	HRSG NO. 3	40867, PSDTX938
OILWATSEP	OIL WATER SEPARATOR	106.532/09/04/2000
PARTSWASH	PARTS WASHER	106.454/09/04/2000

**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 51

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 53

Major NSR Summary Table

Permit Numbers 40867 and PSDTX938					Issuance Date: May 9, 2023		
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
CTG-1	GE PG7421FA Combustion Turbine No.1	NO _x	91.3	--	5, 6, 16, 19, 21, 23, 24, 26, 27	5, 6, 19, 21, 23, 24, 26, 28, 29	21, 23, 24, 29, 30, 31
		NO _x (startup or shutdown)	115.0	--			
		CO	54.6	--			
		CO (startup or shutdown)	4592.3	--			
		PM	19.3	--			
		PM ₁₀	19.3	--			
		PM _{2.5}	19.3	--			
		VOC	3.3	--			
		VOC (startup or shutdown)	76.5	--			
		SO ₂	30.0	--			
	H ₂ SO ₄	4.6	--				
CTG-2	GE PG7421FA Combustion Turbine No.2	NO _x	91.3	--	5, 21, 23, 24, 26, 27	5, 6, 19, 19, 21, 23, 24, 26, 28, 29	21, 23, 24, 30, 31
		NO _x (startup or shutdown)	115.0	--			
		CO	54.6	--			
		CO (startup or shutdown)	4592.3	--			
		PM	19.3	--			
		PM ₁₀	19.3	--			
		PM _{2.5}	19.3	--			

Major NSR Summary Table

Permit Numbers 40867 and PSDTX938					Issuance Date: May 9, 2023		
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	3.3	--			
		VOC (startup or shutdown)	76.5	--			
		SO ₂	30.0	--			
		H ₂ SO ₄	4.6	--			
CTG-3	GE PG7421FA Combustion Turbine No.3	NO _x	91.3	--	5, 6, 16, 19, 21, 23, 24, 26, 27	5, 6, 19, 21, 23, 24, 26, 28, 29	21, 23, 24, 30, 31
		NO _x (startup or shutdown)	115.0	--			
		CO	54.6	--			
		CO (startup or shutdown)	4592.3	--			
		PM	19.3	--			
		PM ₁₀	19.3	--			
		PM _{2.5}	19.3	--			
		VOC	3.3	--			
		VOC (startup or shutdown)	76.5	--			
		SO ₂	30.0	--			
CTG-1	GE PG7421FA Combustion Turbine/HRSG No.1	NO _x	104.1	--	5, 6, 16, 19, 21, 23, 24, 26, 27	5, 6, 19, 21, 23, 24, 26, 28, 29	21, 23, 24, 29, 30, 31
		NO _x (startup or shutdown)	115.0	--			
		CO	70.6	--			

Major NSR Summary Table

Permit Numbers 40867 and PSDTX938					Issuance Date: May 9, 2023		
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 (startup or shutdown)	4592.3	--			
		PM	21.7	--			
		PM ₁₀	21.7	--			
		PM _{2.5}	21.7	--			
		VOC	5.3	--			
		VOC (startup or shutdown)	76.5	--			
		SO ₂	32.5	--			
		H ₂ SO ₄	5.0	--			
CTG-2	GE PG7421FA Combustion Turbine/HRSG No.2	NO _x	104.1	--	5, 21, 23, 24, 26, 27	5, 6, 19, 19, 21, 23, 24, 26, 28, 29	21, 23, 24, 30, 31
		NO _x (startup or shutdown)	115.0	--			
		CO	70.6	--			
		CO (startup or shutdown)	4592.3	--			
		PM	21.7	--			
		PM ₁₀	21.7	--			
		PM _{2.5}	21.7	--			
		VOC	5.3	--			
		VOC (startup or shutdown)	76.5	--			
		SO ₂	32.5	--			

Major NSR Summary Table

Permit Numbers 40867 and PSDTX938					Issuance Date: May 9, 2023		
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
		H ₂ SO ₄	5.0	--			
CTG-3	GE PG7421FA Combustion Turbine/HRSG No.3	NO _x	104.1	--	5, 6, 16, 19, 21, 23, 24, 26, 27	5, 6, 19, 21, 23, 24, 26, 28, 29	21, 23, 24, 30, 31
		NO _x (startup or shutdown)	115.0	--			
		CO	70.6	--			
		CO (startup or shutdown)	4592.3	--			
		PM/PM ₁₀ /PM _{2.5}	21.7	--			
		VOC	5.3	--			
		VOC (startup or shutdown)	76.5	--			
		SO ₂	32.5	--			
		H ₂ SO ₄	5.0	--			
CTG-1 through 3	GE PG7421FA Combustion Turbine/HRSG Nos.1 through 3 (7)	NO _x	--	852.1	5, 6, 21, 23, 24, 26, 28, 29	5, 6, 21, 23, 24, 26, 27	21, 23, 24, 30, 31
		CO	--	464.7			
		PM	--	258.9			
		PM ₁₀	--	258.9			
		PM _{2.5}	--	258.9			
		VOC	--	42.9			
		SO ₂	--	33.9			
		H ₂ SO ₄	--	5.2			
F-1	Fugitives (5)	VOC	--	0.52	12	GC7, 12, 29	

Major NSR Summary Table

Permit Numbers 40867 and PSDTX938					Issuance Date: May 9, 2023		
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
		H ₂ S	--	<0.01			
		NH ₃	--	0.05			
MSS-Fug	Miscellaneous Maintenance Activities (5)	VOC	3.11	0.77	6, 16, 19	6, 19, 29	
		PM	1.48	0.03			
		PM ₁₀	0.35	<0.01			
		PM _{2.5}	0.04	<0.01			
		NO _x	<0.01	<0.01			
		CO	<0.01	<0.01			
		SO ₂	<0.01	<0.01			
WT-NH3-TK	Aqueous Ammonia Day Tank	NH ₃	<0.01	<0.01		11	
CLT	Cooling Tower	VOC	<0.01	<0.01	13	GC7, 13, 29	
		PM	3.2	14.0			
		PM ₁₀	0.08	0.35			
		PM _{2.5}	<0.01	<0.01			
		HOCl	0.16	0.68			
		HCl	0.11	0.47			
LO-RSV-CT1	Lube Oil Vent Demister 1	VOC	0.07	0.29		GC7	
		PM/PM ₁₀ /PM _{2.5}	0.07	0.29			
LO-RSV-CT2	Lube Oil Vent Demister 2	VOC	0.07	0.29		GC7	
		PM/PM ₁₀ /PM _{2.5}	0.07	0.29			

Major NSR Summary Table

Permit Numbers 40867 and PSDTX938					Issuance Date: May 9, 2023		
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
LO-RSV-CT3	Lube Oil Vent Demister 3	VOC	0.07	0.29		GC7	
		PM/PM ₁₀ /PM _{2.5}	0.07	0.29			

(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) NO_x - total oxides of nitrogen

CO - carbon monoxide

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

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

SO₂ - sulfur dioxide

H₂SO₄ - sulfuric acid

NH₃ - ammonia

HOCl - hypochlorous acid

HCl - hydrogen chloride

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

(6) Planned maintenance, startup, and shutdown (MSS) lbs/hour emissions for all pollutants are authorized even if not specifically identified as MSS. During any clock hour that includes one or more minutes of planned MSS, that pollutant's maximum hourly emission rate shall apply during that clock hour.

(7) Planned MSS emissions are included.



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
City Public Service Board
Authorizing the Construction and Operation of
Rio Nogales Power Station
Located at Seguin, Guadalupe County, Texas
Latitude 29.593818 Longitude -97.973562

Permit: 40867

Revision Date: May 9, 2023

Expiration Date: April 30, 2029

A handwritten signature in black ink that reads "Erin E. Chamalor".

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
°F = Temperature in degrees Fahrenheit
°K = Temperature in degrees Kelvin
µg = microgram
µg/m³ = microgram per cubic meter
acfm = actual cubic feet per minute
AMOC = alternate means of control
AOS = alternative operating scenario
AP-42 = Air Pollutant Emission Factors, 5th edition
APD = Air Permits Division
API = American Petroleum Institute
APWL = air pollutant watch list
BPA = Beaumont/ Port Arthur
BACT = best available control technology
BAE = baseline actual emissions
bbl = barrel
bbl/day = barrel per day
bhp = brake horsepower
BMP = best management practices
Btu = British thermal unit
Btu/scf = British thermal unit per standard cubic foot or feet
CAA = Clean Air Act
CAM = compliance-assurance monitoring
CEMS = continuous emissions monitoring systems
cfm = cubic feet (per) minute
CFR = Code of Federal Regulations
CN = customer ID number
CNG = compressed natural gas
CO = carbon monoxide
COMS = continuous opacity monitoring system
CPMS = continuous parametric monitoring system
DFW = Dallas/ Fort Worth (Metroplex)
DE = destruction efficiency
DRE = destruction and removal efficiency
dscf = dry standard cubic foot or feet
dscfm = dry standard cubic foot or feet per minute
ED = (TCEQ) Executive Director
EF = emissions factor
EFR = external floating roof tank
EGU = electric generating unit
EI = Emissions Inventory
ELP = El Paso
EPA = (United States) Environmental Protection Agency
EPN = emission point number
ESL = effects screening level
ESP = electrostatic precipitator
FCAA = Federal Clean Air Act
FCCU = fluid catalytic cracking unit
FID = flame ionization detector
FIN = facility identification number
ft = foot or feet
ft/sec = foot or feet per second
g = gram
gal/wk = gallon per week
gal/yr = gallon per year
GLC = ground level concentration
GLC_{max} = maximum (predicted) ground-level concentration
gpm = gallon per minute
gr/1000scf = grain per 1000 standard cubic feet
gr/dscf = grain per dry standard cubic feet
H₂CO = formaldehyde
H₂S = hydrogen sulfide
H₂SO₄ = sulfuric acid
HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
HC = hydrocarbons
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/Brazoria
hp = horsepower
hr = hour
IFR = internal floating roof tank
in H₂O = inches of water
in Hg = inches of mercury
IR = infrared
ISC3 = Industrial Source Complex, a dispersion model
ISCST3 = Industrial Source Complex Short-Term, a dispersion model
K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
LACT = lease automatic custody transfer
LAER = lowest achievable emission rate
lb = pound
lb/day = pound per day
lb/hr = pound per hour
lb/MMBtu = pound per million British thermal units
LDAR = Leak Detection and Repair (Requirements)
LNG = liquefied natural gas
LPG = liquefied petroleum gas
LT/D = long ton per day
m = meter
m³ = cubic meter
m/sec = meters per second
MACT = maximum achievable control technology
MAERT = Maximum Allowable Emission Rate Table
MERA = Modeling and Effects Review Applicability
mg = milligram
mg/g = milligram per gram
mL = milliliter
MMBtu = million British thermal units
MMBtu/hr = million British thermal units per hour
MSDS = material safety data sheet
MSS = maintenance, startup, and shutdown
MW = megawatt
NAAQS = National Ambient Air Quality Standards
NESHAP = National Emission Standards for Hazardous Air Pollutants
NGL = natural gas liquids
NNSR = nonattainment new source review
NO_x = total oxides of nitrogen
NSPS = New Source Performance Standards

PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including 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 40867 and PSDTX938

Emission Standards and Operating Specifications

1. The three combustion turbine generator (CTG) units authorized by this permit are each rated for a nominal power output of 170 megawatts (MW) each. The steam turbine(s) will produce a nominal 270 MW for a combined nominal capacity of 800 MW in combined cycle operation.
2. The three heat recovery steam generating unit (HRSGU) duct burners are each limited to a maximum heat input capacity of 160 million British thermal units per hour (MMBtu/hr) based on the higher heating value (HHV) of natural gas. The total annual heat input to all duct burners shall not exceed 720,000 MMBtu for the facility site.
3. The CTG units shall normally operate at 100 percent base load except for periods of startup or shutdown. Reduced load operation is authorized to accommodate periods of reduced power demands provided the maximum pounds per hour (lbs/hr) emission rates specified on the attached table entitled "Emission Sources - Maximum Allowable Emissions Rates" are not exceeded. **(03/15)**
4. Fuel for CTGs and HRSGU duct burners is limited to pipeline quality natural gas containing a short-term maximum of 5.0 grains total sulfur per 100 dry standard cubic feet (dscf) and no more than 0.5 grain total sulfur per 100 dscf averaged over any consecutive 12-month period. Use of any other fuel shall require modification to this permit.
5. Upon request by the Executive Director of the Texas Commission on Environmental Quality (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.
6. During normal operations, opacity shall not exceed 5 percent averaged over a six-minute period from Emission Point Nos. (EPNs) CTG-1, CTG-2 and CTG-3. During periods of maintenance, startup, and shutdown (MSS) operation the opacity shall not exceed 15 percent averaged over a six minute period. The permit holder shall demonstrate compliance with this special condition in accordance with the following procedures: **(5/14)**
 - A. Visible emission observations shall be conducted and recorded at least once per week while the facilities are in operation, unless the emission unit is not operating for the entire week.
 - B. This determination shall be made by first observing for visible emissions while the facility is in operation. Observations shall be made at least 15 feet and no more than 0.25 miles from the emission point(s). A certified opacity reader is not required for these visible emission observations.

- C. If visible emissions are observed from an emission point, then the opacity shall be determined and documented within 24 hours for that emission point using Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9.
 - D. If the opacity limitations of this special condition are exceeded, corrective action to eliminate the source of visible emissions shall be taken promptly and documented within one week of first observation.
7. Each CTG unit is authorized to steam inject for power augmentation during periods of peak demand provided the maximum lbs/hr emission rates specified in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates" for EPNs CTG-1, CTG-2, or CTG-3 are not exceeded.
8. CTG Emission Limits - are expressed without correction to International Standards Organization (ISO) conditions.

Emissions of nitrogen oxides (NO_x) shall not exceed 9 parts per million by volume dry basis (ppmvd) when corrected to 15 percent oxygen (O_2) without steam injection and 12 ppmvd with steam injection. These emission limits apply at any normal operating load except during periods of start-up or shutdown.

Carbon monoxide (CO) shall not exceed 9 ppmvd without steam injection and 15 ppmvd with steam injection. Emissions of volatile organic compounds (VOC), as defined in 30 TAC § 101.1, shall not exceed 1.4 parts per million by volume wet basis. These emission limits apply at full load only.

Compliance with this condition shall be demonstrated by completion of the initial stack sampling as described in Special Condition No. 23.

9. HRSGU Duct Burner Emission Limits - are expressed as the hourly average in lb/MMBtu, based on the HHV of natural gas.

Emissions of NO_x shall not exceed 0.08 lb/MMBtu. Emissions of CO shall not exceed 0.1 lb/MMBtu, and VOC shall not exceed 0.012 lb/MMBtu at any normal operating load except during periods of start-up or shutdown.

Compliance with this condition shall be demonstrated by completion of the initial stack sampling as described in Special Condition No. 23.

10. Combined CTG and HRSGU Duct Burner Stack Emission Limits - are expressed as the average hourly concentration in ppmvd when corrected to 15 percent O_2 , without correction to ISO conditions.

Emissions of NO_x shall not exceed 12.8 ppmvd at any normal operating load except during periods of start-up or shutdown. The CO shall not exceed 14.4 ppmvd, and VOC shall not exceed 2.0 ppmvd at full load only.

Compliance with this condition shall be demonstrated by completion of the initial stack sampling as described in Special Condition No. 23.

11. The aqueous ammonia day tank (EPN WT-NH3-TK) shall be equipped with a submerged fill pipe and shall have all uninsulated exterior surfaces that are exposed to the sun be white or aluminum specular. **(5/14)**
12. All pumps, valves, and connectors (equipment components) in aqueous ammonia service shall be inspected at least once per week by audible, visual, and olfactory (AVO) inspection. When a component is discovered to be leaking, steps shall be taken to minimize the emissions from the leaking component promptly and an entry made into a log within 24 hours of discovery. A first attempt to repair or replace the leaking equipment must be made within 5 days of discovery. Every reasonable effort shall be made to repair or replace a leaking component, as specified in this paragraph, within 15 days after the discovery of the leak. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown or within 90 days of the date of discovery, whichever comes first, and the emissions estimate upon which the delay to repair decision was based shall be documented. Written standard operating procedures used by the facility to address maintenance and repair related problem discovery and resolution procedures shall include the requirements listed above in order to assure that leaking components are logged and repaired or replaced within the timeframes specified in this paragraph. **(5/14)**
13. The cooling tower (EPN CLT) shall meet the following requirements: **(5/14)**
 - A. The cooling tower shall be equipped with drift eliminators that achieve a maximum drift of 0.001 percent. The drift eliminators and other cooling tower mechanical controls must be operated and maintained in good working order, consistent with manufacturers' requirements for proper operation. Maintenance and repairs of the system shall be documented when they occur.
 - B. The cooling tower water shall not exceed a total dissolved solids (TDS) concentration of 3000 parts per million by weight (ppmw).
 - C. Continuous compliance with the hourly and annual particulate matter emission rates for the cooling tower in the maximum allowable emission rates table (MAERT) shall be demonstrated by the holder of this permit by monitoring the conductivity of the cooling water at a monitoring point in the recirculating water of the cooling tower and recording these conductivity readings on a no less than weekly basis. The monitoring shall be performed using a process conductivity meter (PCM) and each conductivity measurement shall be converted to TDS concentration in ppmw using the conductivity to TDS conversion factor established in accordance with Special Condition No. 13D. A conservative default conversion factor of 0.80 (conductivity to TDS) may be used initially until a site specific conversion factor is determined. If a conductivity exceedance occurs, an evaluation shall be conducted and corrective taken and documented within 24 hours.

- D. The holder of this permit shall perform sampling according to the following requirements to establish the conductivity to TDS conversion factor that shall be used by the permit holder to demonstrate compliance in accordance with Special Condition No. 13B.
- (1) A cooling water sample shall be collected in each of the three calendar months following issuance of the May 2014 permit amendment and a conductivity and TDS analysis performed for each of the three samples in order to establish the actual cooling water conductivity to TDS conversion factor. The conductivity and TDS analyses shall be performed in accordance with "Standard Methods for the Examination of Water and Wastewater" Method 2510 (Conductivity) and Method 2540 (Solids). An average conversion factor and standard deviation based on the three values shall be determined from the cooling water sample results.
 - (2) Within 30 days after completion of the sampling, one copy of the sampling report shall be submitted to the TCEQ San Antonio Regional Office.
- E. The PCM shall be quality-assured quarterly to confirm the conversion factor, the TDS ppmw, and the correlation between the two, by performing a conductivity and TDS analysis. The conductivity and TDS analysis shall be performed in accordance with "Standard Methods for the Examination of Water and Wastewater" Method 2510 (Conductivity) and Method 2540 (Solids).

Planned Maintenance, Startup, and Shutdown (MSS) (03/15)

14. This permit authorizes the emissions from the planned MSS activities listed in Attachment A, Attachment B, and the MAERT attached to this permit. Attachment A identifies the inherently low emitting (ILE) planned maintenance activities that this permit authorizes to be performed. Attachment B identifies the planned maintenance activities that are authorized by PBR and are incorporated by reference or listed as de minimis activities.
15. The emissions limits that are identified in Special Conditions Nos. 8, 9, and 10 do not apply during planned MSS activities.
16. Emissions during planned startup and shutdown activities will be minimized by limiting the duration of operation in planned startup and shutdown mode as follows:
 - A. A planned startup of EPN Nos. CTG-1, CTG-2, and CTG-3, which are part of the Electric Generating Facility (EGF) is defined as the period that begins when the startup sequence is initiated by the operator and flame is established in the combustion system of the turbine and is complete when the turbine reaches normal operating mode. A planned startup for EPN Nos. CTG-1, CTG-2, and CTG-3 is limited to 500 minutes each. **(05/23)**

- B. A planned shutdown of EPN Nos. CTG-1, CTG-2, and CTG-3 is defined as the period that begins when the operator initiates the shutdown sequence by lowering the turbine output below the threshold for normal operating mode and is complete when the combustion turbine flame is no longer established. A planned shutdown for EPN Nos. CTG-1, CTG-2, and CTG-3 is limited to 120 minutes each. **(05/23)**
 - C. A planned startup of the Steam Turbine, which is part of the EGF, from operation in simple cycle mode may require each of the combustion turbines (EPN Nos. CTG-1, CTG-2, and CTG-3) to resume a planned startup. In this scenario, the planned startup is defined as the period that begins when the startup sequence is initiated by the operator to lower any of the combustion turbine(s) output below the threshold of normal operating mode and is complete when the combustion turbine(s) is returned to normal operating mode. A planned startup of each combustion turbine as part of the steam turbine startup is limited to 500 minutes each. **(05/23)**
 - D. A planned shutdown of the Steam Turbine, in order to operate in simple cycle mode may require each of the combustion turbines (EPN Nos. CTG-1, CTG-2, and CTG-3) to be taken out of normal operating mode. This shutdown period is defined as the period that begins when the operator initiates the shutdown sequence by lowering the turbine output below the threshold for normal operating mode and is complete when the combustion turbine(s) is returned to normal operating mode. The duration that each combustion turbine is out of normal operating mode as part of a planned shutdown of the steam turbine is limited to 120 minutes each. **(05/23)**
17. The holder of this permit shall minimize emissions during planned MSS activities by operating the facility and associated air pollution control equipment in accordance with good air pollution control practices, safe operating practices, and protection of the facility.
18. Compliance with the emissions limits for planned MSS activities identified in the MAERT attached to this permit may be demonstrated as follows:
- For each pollutant emitted during ILE planned maintenance activities, the permit holder shall annually confirm the continued validity of the estimated potential to emit represented in the permit application for all ILE planned maintenance activities. The total emissions from all ILE planned maintenance activities (See Attachment A) shall be considered to be no more than the estimated potential to emit for those activities that are represented in the permit application.
19. The permit holder shall determine the emissions during planned MSS activities for use in Special Condition No. 18 as follows:
- A. For each pollutant whose emissions during normal facility operations are measured with a CEMS that has been certified to measure the pollutant's

emissions over the entire range of a planned MSS activity, the permit holder shall measure the emissions of the pollutant during the planned MSS activity using the CEMS.

- B. For each pollutant not described in Special Condition No. 18, the permit holder shall calculate the pollutant's emissions during all occurrences of each type of planned MSS activity for each calendar month using the frequency of the planned MSS activity identified in work orders or equivalent records and the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application. In lieu of using the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application to calculate such emissions, the permit holder may determine the emissions of the pollutant during the planned MSS activity using an appropriate method, including but not limited to, any of the methods described in paragraphs 1 through 4 below, provided that the permit holder maintains appropriate records supporting such determination:
- (1) Use of emission factor(s), facility-specific parameter(s), and/or engineering knowledge of the facility's operations.
 - (2) Use of emissions data measured (by a CEMS or during emissions testing) during the same type of planned MSS activity occurring at or on a similar facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.
 - (3) Use of emissions testing data collected during a planned MSS activity occurring at or on the facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.
 - (4) Use of parametric monitoring system (PEMS) data applicable to the facility.
20. With the exception of the emission limits in the MAERT attached to this permit, the permit conditions relating to planned MSS activities do not become effective until 180 days after issuance of the permit amendment that added such conditions.

Federal Applicability

21. These facilities shall comply with applicable requirements of 40 CFR Part 60, Subpart A, General Conditions, and the following:
- A. Subpart Db, Electric Utility Steam Generating Units.
 - B. Subpart KKKK, Stationary Gas Turbines.

If any condition of this permit is more stringent than the regulations so incorporated, then for the purposes of complying with this permit, the permit shall govern and be the standard by which compliance shall be demonstrated.

Initial Determination of Compliance

22. Sampling ports and platforms shall be incorporated into the design of all three CTG HRSGU Exhaust Stacks (EPNs CTG-1, CTG-2, and CTG-3) according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities." Alternate sampling facility designs may be submitted for approval by the TCEQ San Antonio Regional Director.
23. 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 three combustion gas turbine heat recovery steam generator duct burner units (EPNs CTG-1, CTG-2, and/or CTG-3). If a sampled unit exceeds any emission limit established in this permit or if in the opinion of the Executive Director of the TCEQ there is a significant deviation in the results of the two sampled units, the holder of this permit may be required to sample the additional unit as directed by the TCEQ Executive Director. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and in accordance with the appropriate EPA Test Methods.

Fuel sampling using the methods and procedures of 40 CFR § 60.335(d) may be conducted in lieu of stack sampling for sulfur dioxide (SO₂). If fuel sampling is used, compliance with 40 CFR Part 60, 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 San Antonio 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.

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 San Antonio Regional Office shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in this condition shall be submitted to the TCEQ Office of Air, Air Permits Division in Austin. Test waivers and alternate/equivalent procedure proposals for NSPS testing which must have EPA approval shall be submitted to the TCEQ San Antonio Regional Office.

- B. Air emissions to be tested for at full CTG load include (but are not limited to) NO_x, O₂, CO, VOC, particulate matter 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 (without steam injection for power augmentation), and CTG (with steam injection for power augmentation) and duct burner firing at the maximum achievable rate. This testing will be used to demonstrate initial compliance with the MAERT. The testing was completed May 24, 2002.
- C. Air emissions of NO_x, O₂, CO, and VOC from each CTG (steam injection for power augmentation off and 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 is to be established at the pre-test meeting. This testing will be used to demonstrate initial compliance with 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 considering the ambient conditions at the time of testing. If simultaneous sampling prior to the HRSGU and at the exhaust stack is not possible, the HRSGU duct burner emissions shall be calculated as the remainder of emissions when subtracting the CTG emissions without steam injection for power augmentation and with the duct burners out of service from the CTG HRSGU stack emissions without steam injection for power augmentation and with the duct burners in service. The CTG must be operating at a maximum rate for the ambient conditions during this testing. For the purposes of demonstrating initial compliance, emissions from the HRSGU duct burners shall not exceed the limits in Special Condition No. 9.
- E. Sampling of the gas turbines and duct burners shall occur within 60 days after achieving the maximum production rate at which the 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. For all testing conducted pursuant to this permit condition, the holder of this permit shall monitor and record the fuel flow rate to each tested unit and include these values in the sampling report, along with site conditions, gas turbine loads, and other

relevant parameters as determined at the pretest meeting or as outlined in the TCEQ Sampling Procedures Manual.

- G. Within 60 days after the completion of the testing and sampling required herein, three copies of the sampling reports shall be distributed as follows:

One copy to the TCEQ San Antonio Regional Office

One copy to the TCEQ Office of Air, Air Permits Division, Austin

One copy to the EPA Region 6 Office, Dallas

Continuous Determination of Compliance for CO and NO_x

24. The holder of this permit shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) to measure and record the concentrations of NO_x, CO, and O₂ from each CTG HRSGU Stack (EPNs CTG-1, CTG-2, and CTG-3). Fuel supply records shall be used to record the concentration of SO₂ from each CTG-HRSGU Stack (EPNs CTG-1, CTG-2, and CTG-3). The initial certification and relative accuracy test audit (RATA) shall be conducted prior to or during the sampling required by Special Condition No. 23.
- 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 HRSGs in this permit.
- B. The CEMS shall meet the applicable quality assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, Section 5.2.3 and any CEMS downtime shall be reported to the TCEQ San Antonio Regional Director, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the TCEQ San Antonio Regional Director.
- 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. Two valid data points shall be generated during the hourly period in which zero and span is performed.
- 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. At the end of each month, hourly average emission rates from EPNs CTG-1, CTG-2, and CTG-3 shall be summed to tons per year and used to determine compliance with the annual emission limits in the MAERT.
- E. The TCEQ San Antonio Regional Office shall be notified at least 30 days prior to any required RATA 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.
- 25. If any emission monitor 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 facility, unless written permission is obtained from the TCEQ which allows for a longer repair or 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.
- 26. 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.
- 27. The holder of this permit shall monitor the fuels fired in the equipment authorized by this permit for fuel-bound sulfur as specified in 40 CFR § 60.334(h).

Recordkeeping Requirements

- 28. 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 March 17, 1999 and subsequent representations submitted to the TCEQ.
 - C. A complete copy of the testing reports and records of the initial performance testing completed pursuant to Special Condition No. 23 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.
- 29. 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 CTG-1, CTG-2, and CTG-3 to demonstrate compliance with the MAERT.
 - B. Raw data files of all CEMS data including calibration checks and adjustments and maintenance performed on these systems in a form suitable for inspection.

- C. Records of the hours of operation and average daily quantity of natural gas fired in each CTG and HRSGU duct burner.
- D. Records of fuel sulfur content from gas analysis.
- E. Records of visible emission observations and opacity observations pursuant to Special Condition No. 6.
- F. Location of the monitoring point for the cooling tower recirculating water and date and time of monitoring. **(5/14)**
- G. Weekly measured conductivity in ohms and the equivalent TDS in parts per million in the recirculating water of the cooling tower. **(5/14)**
- H. Records of AVO inspections and any repairs made to the equipment components as specified in Special Condition No. 12. **(5/14)**
- I. Records of any repairs made to the cooling tower as specified in Special Condition No. 13A. **(5/14)**
- J. Records of planned start-ups and shutdowns as specified in Special Condition No. 16. **(5/14)**

Reporting

- 30. The holder of this permit shall submit to the TCEQ San Antonio 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 equipment authorized by this permit and a report summary of the periods of noncomplying emissions and CEMS downtimes by cause.
- 31. If the average NO_x, CO, or SO₂ stack outlet emission rate exceeds the maximum allowable emissions rate for more than one hour, 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.

If the NO_x, CO, or SO₂ emission rate exceeds the emission rate in the MAERT for more than 24 hours, the permit holder shall notify the TCEQ San Antonio Regional Office within the next 24 hours verbally followed by a written report via facsimile detailing the cause of the increase in emissions and all efforts made to correct the problem. Estimated emissions should be included in the report.
- 32. The following sources are authorized by Permit-by-Rule and have been incorporated into this permit by reference **(03/15)**:

Source Name	PBR Section Number and Name
Diesel Emergency Fire Pump Engine (265 hp) Model JDEP-06WA	§ 106.511 Portable and Emergency Engines and Turbines
Diesel Emergency Backup Battery Charge with Generator (0.5 MW)	
Diesel Storage Tank (350 gal)	§ 106.472 Organic and Inorganic Liquid Loading and Unloading
Sulfuric Acid (93%) Storage Tank 1 (6,000 gal)	
Sulfuric Acid (93%) Storage Tank 2 (6,000 gal)	
Sodium Hypochlorite (12.5%) Storage Tank 1 (5,000 gal)	
Sodium Hypochlorite (12.5%) Storage Tank 2 (5,000 gal)	
Aluminum Sulfate (48%) Storage Tank (4,000 gal)	
Phosphoric Acid Storage (400 gal tote)	
Scale Inhibitor Storage (totes)	
RO Membrane Cleaner Storage (60 gal drums)	
RO Membrane Anti-scalant Storage (60gal drums)	
Coagulant Storage (50 gal drum)	
Remote Reservoir Parts Washer	§ 106.454 Degreasing Units
Oil Water Separator (25,000 gal)	§ 106.532 Water and Wastewater Treatment

Date: May 9, 2023

Attachment A

Inherently Low Emitting (ILE) Planned Maintenance Activities

Planned Maintenance Activity	Emissions					
	NH ₃ /urea	VOC	NO _x	CO	PM	SO ₂
Miscellaneous particulate filter maintenance ¹					X	
Degassing for maintenance of storage vessels storing material with vapor pressure <0.5 psia	X	X				
Management of sludge from pits, ponds, sumps, and water conveyances ²		X				
Organic chemical usage		X				
Inspection, repair, replacement, adjusting, testing, and calibration of analytical equipment, process instruments including sight glasses, meters, gauges, CEMS, PEMS.		X	X	X		X
Turbine washing – unit online ³					X	
Outdoor/unenclosed dry abrasive blasting (<1% silica in blasting media)					X	
Small equipment and fugitive component repair/replacement in VOC and NH ₃ service ⁴	X	X				

Notes:

1. Includes, but is not limited to, baghouse filters, ash silo/transfer filters, coal handling filters, process-related building air filters, and combustion turbine air intake filters.
2. Includes, but is not limited to, management by vacuum truck/dewatering of materials in open pits and ponds, and sumps, tanks and other closed or open vessels. Materials managed include water and sludge mixtures containing miscellaneous VOCs such as diesel, lube oil, and other waste oils.
3. Involves use of water only
4. Includes, but is not limited to, (i) repair/replacement of pumps, compressors, valves, pipes, flanges, transport lines, filters and screens in natural gas, fuel oil, diesel oil, ammonia, lube oil, and gasoline service, (ii) vehicle and mobile equipment maintenance that may involve small VOC emissions, such as oil changes, transmission service, and hydraulic system service, and (iii) off-line HRSG water pre-treatment maintenance (including maintenance of the anhydrous ammonia systems and aqueous ammonia systems associated with water pre-treatment systems)

Date: March 31, 2015

Attachment B
 Planned Maintenance Activities

This permit does not include the following facilities or planned maintenance, startup, or shutdown (MSS) activities at the site, except as noted in the Maximum Allowable Emission Rates Table (MAERT). Instead, these facilities are authorized under a PBR by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106) or are a de minimis source under 30 TAC § 116.119. The following lists are not intended to be all-inclusive and can be altered at the site without modifications to this permit.

Source or Activity – PBR	Authorization
Enclosed abrasive blasting for routine facility maintenance.	§ 106.452(1)
Routine facility maintenance including painting and abrasive blasting on immovable structures	§ 106.263(c)(3)(A)
Filter replacement not covered by this permit for facilities which are authorized by this permit	§ 106.263(c)(1)
Maintenance, startup, and shutdown of boilers, heaters, and other combustion devices emitting only products of combustion of the fuel and authorized by a PBR	§ 106.183
Emergency diesel fire water pumps, electric generators, and portable engines	§ 106.511
Maintenance, startup, and shutdown of portable and emergency engines and turbines authorized by a PBR	§ 106.511
Fugitive component repair, replacement; piping, pumps, valves, flanges, etc. for facilities authorized by a permit	§ 106.263(c)(1)
Maintenance of sewage treatment facility	§ 106.531
Maintenance of water and wastewater treatment facility	§ 106.532
Welding, soldering, and brazing equipment	§ 106.227
Manually operated and hand-held equipment	§ 106.265
Routine maintenance activities which are planned and predictable and ensure the continuous normal operation of a facility or control device or return a facility or control device to normal operating conditions	§ 106.263(c)(1)
Routine maintenance, startup, and shutdown of facilities and temporary maintenance facilities	§ 106.263(c)(3)
Diesel fuel storage tanks, gasoline storage tanks, lube oil storage tanks, and loading and unloading	§ 106.472 and/or § 106.473
Maintenance, startup, and shutdown of storage tanks authorized by a PBR	§ 106.472 and/or § 106.473
Abrasive blasting, painting, and surface preparation of storage tanks	§ 106.263(c)(3)

Source or Activity – De Minimis	Authorization
Water-base surfactants/detergents less than or equal to 2,500 gallons per year, site-wide	§ 116.119(a)(2)(F)
Application of aqueous detergents, surfactants, and other cleaning solutions containing not more than one percent of any organic compound by weight or containing not more than five percent of any organic compound with a vapor pressure less than 0.002 pounds per square inch absolute.	§ 116.119(a)(1)
Manual application of cleaning or stripping solutions or coatings for maintenance	§ 116.119(a)(1)
Blast cleaning operations with water as the cleaning media	§ 116.119(a)(1)
Usage of organic chemicals including lubricants, greases, and oils without propellants other than air or nitrogen for maintaining equipment	§ 116.119(a)(1)
Application of lubricants for maintaining equipment	§ 116.119(a)(1)
Office equipment maintenance and cleaning (printers, copiers, etc.)	§ 116.119(a)(1)
Maintenance and cleaning of in-situ computer and office equipment	§ 116.119(a)(1)
Janitorial and maid services	§ 116.119(a)(1)
Grounds maintenance and landscaping	§ 116.119(a)(1)
Maintenance of heating and cooling equipment for personal use	§ 116.119(a)(1)
Comfort air conditioning or comfort ventilation systems which are not used to remove air contaminants generated by or released from specific units or equipment	§ 116.119(a)(1)
Maintenance of equipment by hydraulic or hydrostatic testing	§ 116.119(a)(1)
Application of argon, ethane, helium, hydrogen, methane, neon, nitrogen, and propane for testing, purging, and leak checking of equipment.	§ 116.119(a)(1)
Aerosol product use – less than 4 cans (64 oz) per day – 12 month rolling average	§ 116.119(a)(1)
Aerosol can puncturing, recycling, and disposal – less than 40 cans per 24-hour period	§ 116.119(a)(1)
Pesticide and insecticide use and fumigation	§ 116.119(a)(1)

Date: May 9, 2023

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 40867 and PSDTX938

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 (6)	TPY (4)
CTG-1	GE PG7421FA Combustion Turbine No.1	NO _x	91.3	--
		NO _x (startup or shutdown)	115.0	--
		CO	54.6	--
		CO (startup or shutdown)	4592.3	--
		PM	19.3	--
		PM ₁₀	19.3	--
		PM _{2.5}	19.3	--
		VOC	3.3	--
		VOC (startup or shutdown)	76.5	--
		SO ₂	30.0	--
		H ₂ SO ₄	4.6	--
CTG-2	GE PG7421FA Combustion Turbine No.2	NO _x	91.3	--
		NO _x (startup or shutdown)	115.0	--
		CO	54.6	--
		CO (startup or shutdown)	4592.3	--
		PM	19.3	--
		PM ₁₀	19.3	--
		PM _{2.5}	19.3	--
		VOC	3.3	--
		VOC (startup or shutdown)	76.5	--

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour (6)	TPY (4)
		SO ₂	30.0	--
		H ₂ SO ₄	4.6	--
CTG-3	GE PG7421FA Combustion Turbine No.3	NO _x	91.3	--
		NO _x (startup or shutdown)	115.0	--
		CO	54.6	--
		CO (startup or shutdown)	4592.3	--
		PM	19.3	--
		PM ₁₀	19.3	--
		PM _{2.5}	19.3	--
		VOC	3.3	--
		VOC (startup or shutdown)	76.5	--
		SO ₂	30.0	--
		H ₂ SO ₄	4.6	--

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour (6)	TPY (4)
CTG-1	GE PG7421FA Combustion Turbine/HRSG No.1	NO _x	104.1	--
		NO _x (startup or shutdown)	115.0	--
		CO	70.6	--
		CO (startup or shutdown)	4592.3	--
		PM	21.7	--
		PM ₁₀	21.7	--
		PM _{2.5}	21.7	--
		VOC	5.3	--
		VOC (startup or shutdown)	76.5	--
		SO ₂	32.5	--
H ₂ SO ₄	5.0	--		
CTG-2	GE PG7421FA Combustion Turbine/HRSG No.2	NO _x	104.1	--
		NO _x (startup or shutdown)	115.0	--
		CO	70.6	--
		CO (startup or shutdown)	4592.3	--
		PM	21.7	--
		PM ₁₀	21.7	--
		PM _{2.5}	21.7	--
		VOC	5.3	--
		VOC (startup or shutdown)	76.5	--
		SO ₂	32.5	--
H ₂ SO ₄	5.0	--		

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour (6)	TPY (4)
CTG-3	GE PG7421FA Combustion Turbine/HRSG No.3	NO _x	104.1	--
		NO _x (startup or shutdown)	115.0	--
		CO	70.6	--
		CO (startup or shutdown)	4592.3	--
		PM/PM ₁₀ /PM _{2.5}	21.7	--
		VOC	5.3	--
		VOC (startup or shutdown)	76.5	--
		SO ₂	32.5	--
		H ₂ SO ₄	5.0	--
CTG-1 through 3	GE PG7421FA Combustion Turbine/HRSG Nos.1 through 3 (7)	NO _x	--	852.1
		CO	--	464.7
		PM	--	258.9
		PM ₁₀	--	258.9
		PM _{2.5}	--	258.9
		VOC	--	42.9
		SO ₂	--	33.9
		H ₂ SO ₄	--	5.2
F-1	Fugitives (5)	VOC	--	0.52
		H ₂ S	--	<0.01
		NH ₃	--	0.05

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour (6)	TPY (4)
MSS-Fug	Miscellaneous Maintenance Activities (5)	VOC	3.11	0.77
		PM	1.48	0.03
		PM ₁₀	0.35	<0.01
		PM _{2.5}	0.04	<0.01
		NO _x	<0.01	<0.01
		CO	<0.01	<0.01
		SO ₂	<0.01	<0.01
WT-NH ₃ -TK	Aqueous Ammonia Day Tank	NH ₃	<0.01	<0.01
CLT	Cooling Tower	VOC	<0.01	<0.01
		PM	3.2	14.0
		PM ₁₀	0.08	0.35
		PM _{2.5}	<0.01	<0.01
		HOCl	0.16	0.68
		HCl	0.11	0.47
LO-RSV-CT1	Lube Oil Vent Demister 1	VOC	0.07	0.29
		PM/PM ₁₀ /PM _{2.5}	0.07	0.29
LO-RSV-CT2	Lube Oil Vent Demister 2	VOC	0.07	0.29
		PM/PM ₁₀ /PM _{2.5}	0.07	0.29
LO-RSV-CT3	Lube Oil Vent Demister 3	VOC	0.07	0.29
		PM/PM ₁₀ /PM _{2.5}	0.07	0.29

(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) NO_x - total oxides of nitrogen
CO - carbon monoxide

Emission Sources - Maximum Allowable Emission Rates

PM	- total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5}
PM ₁₀	- 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
VOC	- volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
SO ₂	- sulfur dioxide
H ₂ SO ₄	- sulfuric acid
NH ₃	- ammonia
HOCl	- hypochlorous acid
HCl	- hydrogen chloride

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Planned maintenance, startup, and shutdown (MSS) lbs/hour emissions for all pollutants are authorized even if not specifically identified as MSS. During any clock hour that includes one or more minutes of planned MSS, that pollutant's maximum hourly emission rate shall apply during that clock hour.
- (7) Planned MSS emissions are included.

Date: March 30, 2015