

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Wolf Hollow I Power, LLC

AUTHORIZING THE OPERATION OF
Wolf Hollow I
Fossil Fuel Electric Power Generation

LOCATED AT
Hood County, Texas
Latitude 32° 20' 01" Longitude 97° 44' 01"
Regulated Entity Number: RN100219195

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: O2066 Issuance Date: _____

For the Commission

Table of Contents

Section	Page
General Terms and Conditions	1
Special Terms and Conditions:	1
Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting.....	1
Additional Monitoring Requirements	6
New Source Review Authorization Requirements	6
Compliance Requirements.....	7
Risk Management Plan	8
Protection of Stratospheric Ozone	8
Permit Location	8
Permit Shield (30 TAC § 122.148).....	8
Acid Rain Permit Requirements	8
Cross-State Air Pollution Rule (CSAPR) Trading Program Requirements	12
Attachments	19
Applicable Requirements Summary.....	20
Additional Monitoring Requirements	25
Permit Shield.....	27
New Source Review Authorization References	30
Appendix A.....	33
Acronym List	34
Appendix B.....	35

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.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
 - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(1)(E)
 - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
 - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive

ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
- (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer’s eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (5) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity

requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.
 - B. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
 - C. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
 - D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
 - E. 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. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
- A. When filling stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons at a Stage I motor vehicle fuel dispensing facility, the permit holder

shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:

- (i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
 - (ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)
 - (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
- A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
6. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
7. For each gasoline dispensing facility, with a throughput of less than 10,000 gallons per month as specified in 40 CFR Part 63, Subpart CCCCCC, the permit holder shall comply with the following requirements (Title 30 TAC, Subchapter C, § 113.1380 incorporated by reference):
- A. Title 40 CFR § 63.11111(e), for records of monthly throughput
 - B. Title 40 CFR § 63.11111(i), for compliance due to increase of throughput
 - C. Title 40 CFR § 63.11113(c), for compliance due to increase of throughput
 - D. Title 40 CFR § 63.11115(a), for operation of the source
 - E. Title 40 CFR § 63.11116(a) and (a)(1) - (4), for work practices
 - F. Title 40 CFR § 63.11116(b), for records availability
 - G. Title 40 CFR § 63.11116(d), for portable gasoline containers
8. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be

maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

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

New Source Review Authorization Requirements

10. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated October 23, 2024 in the application for project 36294), standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
 - A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
11. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
12. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating

noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

13. 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

14. 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.
15. Use of Discrete Emission Credits to comply with the applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Risk Management Plan

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

Protection of Stratospheric Ozone

17. 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

18. 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)

19. 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

20. For units CTG1 and CTG2 (identified in the Certificate of Representation as units CTG1 and CTG2), located at the affected source identified by ORIS/Facility/Plant code 55139, 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

21. For units CTG1 and CTG2 (identified in the Certificate of Representation as units CTG1 and CTG2), located at the site identified by ORIS/Facility code 55139, 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) CTG1 and CTG2, 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.

22. 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 21

Applicable Requirements Summary 22

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
AUXBLR	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Db-0001	40 CFR Part 60, Subpart Db	No changing attributes.
E-GEN	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
E-PUMP	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-TURB	STATIONARY TURBINES	CTG1, CTG2	60KKKK-0001	40 CFR Part 60, Subpart KKKK	No changing attributes.
GRP-VNT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	E-ST1, E-ST2	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
AUXBLR	EU	60Db-0001	NO _x	40 CFR Part 60, Subpart Db	§ 60.40b(a)	The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)).	§ 60.46b(g)	[G]§ 60.49b(d) § 60.49b(o) [G]§ 60.49b(p)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(2) § 60.49b(a)(3) § 60.49b(q) § 60.49b(q)(1) § 60.49b(q)(3) § 60.49b(w)
AUXBLR	EU	60Db-0001	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)
AUXBLR	EU	60Db-0001	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)
AUXBLR	EU	60Db-0001	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)

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)
E-GEN	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) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
E-PUMP	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) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
GRP-TURB	EU	60KKKK-0001	NO _x	40 CFR Part 60, Subpart KKKK	§ 60.4320(a)-Table 1 § 60.4320(a) § 60.4320(b) § 60.4333(a) § 60.4333(b)(1) § 60.4335(b)(1) [G]§ 60.4345	Turbines operating at less than 75 percent of peak load, or turbines operating at temperatures less than 0 degrees F with greater than 30 MW output must meet the nitrogen oxides emission standard of 96 ppm at 15 percent O ₂ .	§ 60.4333(b)(1) § 60.4335(b)(1) [G]§ 60.4345 § 60.4350(a) § 60.4350(b) § 60.4350(d) § 60.4350(e) § 60.4350(f) § 60.4350(h) [G]§ 60.4400(a)	[G]§ 60.4345 § 60.4350(b)	[G]§ 60.4345 § 60.4350(d) § 60.4375(a) § 60.4380 [G]§ 60.4380(b) § 60.4395

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 60.4400(b) § 60.4400(b)(1) § 60.4400(b)(2) § 60.4400(b)(4) § 60.4400(b)(5) § 60.4400(b)(6) [G]§ 60.4405		
GRP-TURB	EU	60KKKK-0001	SO ₂	40 CFR Part 60, Subpart KKKK	§ 60.4330(a)(2) § 60.4333(a)	You must not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 26 ng SO ₂ /J (0.060 lb SO ₂ /MMBtu) heat input. If your turbine simultaneously fires multiple fuels, each fuel must meet this requirement.	§ 60.4365 § 60.4365(b) § 60.4415(a) § 60.4415(a)(2) § 60.4415(a)(2)(ii)	§ 60.4365(b)	§ 60.4375(a)
GRP-VNT	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

Additional Monitoring Requirements

Periodic Monitoring Summary 26

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-VNT	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Fuel Type	
Minimum Frequency: Annually or at any time an alternate fuel is used	
Averaging Period: N/A	
Deviation Limit: The presence of visible emissions unless an opacity test, as specified in 111.111(a)(1)(F) is performed and the source is determined to be in compliance. However, if the source is out of compliance, a deviation shall be reported.	
<p>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, for a period greater than or equal to 24 consecutive hours it shall be considered and reported as a deviation or the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are observed. Any time an alternate fuel is fired for a period of greater than 7 consecutive days then visible emissions observations will be conducted no less than once per week. Documentation of all observations shall be maintained. If visible emissions are present during the firing of an alternate fuel, the permit holder shall either list this occurrence as a deviation or the permit holder may determine the opacity consistent with Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.</p>	

Permit Shield

Permit Shield 28

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
E-CTOWER	N/A	40 CFR Part 63, Subpart Q	Chromium cleaning compounds not used.
E-GEN	N/A	40 CFR Part 60, Subpart IIII	Did not commence construction after July 11, 2005.
E-PUMP	N/A	40 CFR Part 60, Subpart IIII	Did not commence construction after July 11, 2005.
E-TANK8	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 75 cubic meters
E-TANK9	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 75 cubic meters
GRP-BLR	HRSG1, HRSG2	30 TAC Chapter 112, Sulfur Compounds	Steam generator does not fire liquid or solid fuel.
GRP-BLR	HRSG1, HRSG2	30 TAC Chapter 117, Subchapter E, Division 1	Heat recovery steam generators were constructed after December 31, 1995.
GRP-BLR	HRSG1, HRSG2	40 CFR Part 60, Subpart Da	Not capable of combusting more than 73 MW (250 MMBtu/hr) heat input of fossil fuel (either alone or in combination with any other fuel).
GRP-TURB	CTG1, CTG2	30 TAC Chapter 117, Subchapter E, Division 1	Heat recovery steam generators were constructed after December 31, 1995.
GRP-TURB	CTG1, CTG2	40 CFR Part 63, Subpart YYYY	Combustion turbines not located at a major source of HAP emissions.
TANK19	N/A	40 CFR Part 60, Subpart Kb	Storage vessel has capacity less than 75 cubic meters (19,813 gallons)
TANK21	N/A	40 CFR Part 60, Subpart Kb	Storage vessel has capacity less than 75 cubic meters (19,813 gallons)
UNLOAD-DSL	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Transfers are of diesel, not gasoline.

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
UNLOAD-GAS	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Transfers are at a motor vehicle fuel dispensing facility.

New Source Review Authorization References

New Source Review Authorization References 31

New Source Review Authorization References by Emission Unit..... 32

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.: PSDTX939	Issuance Date: 10/31/2019
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.: 41166	Issuance Date: 10/31/2019
Authorization No.: 122616	Issuance Date: 07/27/2023
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.122	Version No./Date: 09/04/2000
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.265	Version No./Date: 09/04/2000
Number: 106.433	Version No./Date: 09/04/2000
Number: 106.452	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: 106.473	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**
AUXBLR	AUXILARY BOILER	41166, PSDTX939
CTG1	TURBINE 1	41166, 122616, PSDTX939, 106.261/11/01/2003 [161185], 106.262/11/01/2003 [161186]
CTG2	TURBINE 2	41166, 122616, PSDTX939, 106.261/11/01/2003 [161186, 176399], 106.262/11/01/2003 [161185, 176399]
E-CTOWER	COOLING TOWER	41166, PSDTX939
E-GEN	EMERGENCY GENERATOR ENGINE	106.511/09/04/2000
E-PUMP	EMERGENCY FIRE WATER PUMP ENGINE	106.511/09/04/2000
E-ST1	HRSG 1 STACK	41166, PSDTX939, 106.261/11/01/2003 [161186], 106.262/11/01/2003 [161186]
E-ST2	HRSG 2 STACK	41166, PSDTX939, 106.261/11/01/2003 [161186], 106.262/11/01/2003 [161186]
E-TANK8	240-GAL DIESEL TANK/FIRE WATER PUMP ENGINE	106.472/09/04/2000
E-TANK9	750 GAL DIESEL TANK/EMERGENCY GENERATOR ENGINE	106.472/09/04/2000
HRSG1	HRSG 1	41166, PSDTX939
HRSG2	HRSG 2	41166, PSDTX939
TANK19	PLANT GASOLINE TANK	106.473/09/04/2000
TANK21	PLANT DIESEL TANK	106.472/09/04/2000
UNLOAD-DSL	DIESEL UNLOADING	106.472/09/04/2000
UNLOAD-GAS	GASOLINE UNLOADING	106.473/09/04/2000

**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 34

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 36

Major NSR Summary Table

Permit Numbers: 41166 and PSDTX939					Issuance Date: October 31, 2019		
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
E-ST 1	MH1501G (~254 MW) + ~243.3 MMBtu/hr DB – Normal Operations, Hourly Emission Rates	NOx	91.9	--	4, 7, 9, 10, 11, 12, 14, 15, 16, 27	4, 7, 9, 10, 11, 12, 14, 15, 16, 23, 24, 27	9, 10, 11, 12, 25, 26, 27
		CO	143.4	--			
		VOC	12.3	--			
		PM ₁₀ /PM _{2.5}	30.1	--			
		SO ₂	41.8	--			
		H ₂ SO ₄	5.1	--			
		NH ₃	37.8	--			
E-ST 2	MH1501G (~254 MW) + ~243.3 MMBtu/hr DB – Normal Operations, Hourly Emission Rates	NOx	91.9	--	4, 7, 9, 10, 11, 12, 14, 15, 16, 27	4, 7, 9, 10, 11, 12, 14, 15, 16, 23, 24, 27	9, 10, 11, 12, 25, 26, 27
		CO	143.4	--			
		VOC	12.3	--			
		PM ₁₀ /PM _{2.5}	30.1	--			
		SO ₂	41.8	--			
		H ₂ SO ₄	5.1	--			
		NH ₃	37.8	--			
E-ST 1	MH1501G (~254 MW) + ~243.3 MMBtu/hr DB – Reduced Load and MSS Operations, Hourly Emission Rates	NOx	386.9	--	4, 7, 9, 10, 11, 12, 14, 15, 16, 19, 21, 27	4, 7, 9, 10, 11, 12, 14, 15, 16, 19, 21, 22, 23, 24, 27	9, 10, 11, 12, 25, 26, 27
		CO	3029.2	--			
		VOC	333.4	--			
		PM ₁₀ /PM _{2.5}	21.3	--			
		SO ₂	18.2	--			
		H ₂ SO ₄	2.2	--			
		NH ₃	20.5	--			
E-ST 2	MH1501G (~254 MW) + ~243.3 MMBtu/hr DB – Reduced Load	NOx	386.9	--	4, 7, 9, 10, 11, 12, 14, 15, 16, 19, 21, 27	4, 7, 9, 10, 11, 12, 14, 15, 16, 19, 21, 22, 23, 24, 27	9, 10, 11, 12, 25, 26, 27
		CO	3029.2	--			
		VOC	333.4	--			
		PM ₁₀ /PM _{2.5}	21.3	--			

Major NSR Summary Table

Permit Numbers: 41166 and PSDTX939					Issuance Date: October 31, 2019		
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
	and MSS Operations, Hourly Emission Rates	SO ₂	18.2	--			
		H ₂ SO ₄	2.2	--			
		NH ₃	20.5	--			
E-ST 1 & E-ST2	MH1501G (~254 MW) + ~243.3 MMBtu/hr DB – Normal, Reduced Load and MSS Operations, Annual Emission Rates	NO _x	--	708.7	4, 7, 9, 10, 11, 12, 14, 16, 19, 21, 25, 27	4, 7, 9, 10, 11, 12, 14, 16, 19, 21, 22, 23, 24, 25, 27	9, 10, 11, 12, 25, 26, 27
		CO	--	1128.6			
		VOC	--	103.0			
		PM ₁₀ /PM _{2.5}	--	230.9			
		SO ₂	--	161.6			
		H ₂ SO ₄	--	19.8			
		NH ₃	--	291.5			
E-AUXBLR	Auxiliary Boiler 142 MMBtu/hr – Normal, Reduced Load and MSS Operations	NO _x	8.5	3.7	11, 15, 16, 25	11, 15, 16, 23, 24, 25	11, 25, 26, 27
		CO	10.5	4.6			
		VOC	0.77	0.34			
		PM ₁₀ /PM _{2.5}	1.4	0.6			
		SO ₂	2.2	0.49			
E-TANK7	Diesel Storage Tank 300 gallon	VOC	0.01	<0.01			
C-TOWER	Cooling Tower	PM	5.68	24.87	17	17, 23, 24	25
		PM ₁₀ /PM _{2.5}	0.41	1.82			
E-PIPFUG	Piping Fugitives	VOC	0.11	0.5	16	16	
		NH ₃	0.33	1.41			
MSSFUG	Non-ILEs Maintenance Emissions (Attachment B)	VOC	276.33	0.27	19, 21	19, 21, 22, 23, 24	25, 26

Major NSR Summary Table

Permit Numbers: 41166 and PSDTX939					Issuance Date: October 31, 2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			Ib/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
ILEMSS	ILEs Maintenance (Attachment A)	NO _x	<0.01	<0.01	14, 21	14, 21, 23, 24	18, 25, 26
		CO	<0.01	<0.01			
		VOC	0.21	0.01			
		PM ₁₀	0.36	0.01			
		PM _{2.5}	0.36	0.01			

Footnotes:

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

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

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

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

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

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

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

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

CO - carbon monoxide

MSS - maintenance, start-up, and shutdown emissions

HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

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

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

(6) For NO_x and CO emissions that are measured using a CEMS, the Reduced Load/MSS Ib/hr limits apply during each clock hour that includes one or more minutes of reduced load operation or MSS activities. During all other clock hours, the normal Ib/hr limits apply.

(7) For NH₃ emissions that are measured using a CEMS, the Normal Load limits apply during each clock hour that includes one or more minutes of normal load operation. During all other clock hours, the Reduced Load/MSS Ib/hr limits apply



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
Wolf Hollow I Power, LLC
Authorizing the Continued Operation of
Wolf Hollow I
Located at **Granbury, Hood County, Texas**
Latitude 32° 20' 1" *Longitude* -97° 44' 1"

Permit: 41166 and PSDTX939

Issuance Date: October 31, 2019

Expiration Date: October 31, 2029

For the Commission

- 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
- 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]
- 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)]
- 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)]
- 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)]
- 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)]
- 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.

Special Conditions

Permit Numbers 41166 and PSDTX939

Emission Standards and Operating Specifications

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emissions Rates," maintenance activities listed in Attachment A [Inherently Low Emitters (ILEs)], Attachment B [non-ILE maintenance activities (non-ILEs)], startup, and shutdown activities. Those sources are limited to the emissions limits and other conditions specified in that attached table. Annual rates are based on a rolling 12-month period. **(11/11)**

Also authorized under this permit are two Mitsubishi Heavy Industry G-Frame combined cycle combustion gas turbine generators (CGTs) using Selective Catalytic Reduction (SCR) technology each rated at a nominal net capability of 254 megawatt electric (MWe); and each CGT will have a heat recovery steam generator (HRSG) with a 243.3 MMBtu per hour (MMBtu/hr) duct burner. The two HRSGs will power a steam turbine generator with a nominal net capability of 299 MWe. Total plant net capability is estimated to be 807 MWe. **(11/11)**

Also authorized under this permit is a 142.2 MMBtu/hr Auxiliary Boiler (Emission Point No. [EPN] E-AUXBLR). The Auxiliary Boiler is limited to a maximum annual heat input of 124,567 MMBtu which represents an annual capacity factor of 0.10. The Auxiliary Boiler shall not be used to generate power in the steam turbine generator.

2. The CGT limitations apply to normal operation (normal operating range defined as 75 to 100 percent load) not including periods of start-up or shutdown, not to exceed the time periods specified in the manufacturer procedures. Reduced load operation is authorized to accommodate periods of reduced power provided the maximum pounds per hour (lbs/hr) emission rates for reduced load operations specified in the attached maximum allowable emission rates table (MAERT) table for EPNs E-ST1 and E-ST2 are not exceeded. **(11/11)**

The Auxiliary Boiler (EPN E-AUXBLR) shall not exceed the emission and operation limitations specified in the attached MAERT table.

3. Fuel for the CGTs, HRSG burners, and the auxiliary boiler is limited to pipeline-quality natural gas containing no more than 5 grains total sulfur per 100 dry standard cubic feet.
4. 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 fuel-fired in the CGTs or shall allow air pollution control agency representatives to obtain a sample for analysis.

5. Emission Limits

- A. Emissions of nitrogen oxide (NO_x) as measured after the natural gas-fired HRSG and after the SCR system shall not exceed 9 parts per million on a dry basis (ppmvd) when corrected to 15 percent oxygen (O_2), during normal operation except during periods of reduced load, maintenance, start-up, or shutdown (MSS). **(11/11)**
 - B. Emissions of carbon monoxide (CO) as measured after the HRSG and SCR shall not exceed 25 ppmvd when corrected to 15 percent O_2 , at full load. This limit does not apply during periods of reduced load and MSS. **(11/11)**
 - C. Emissions of volatile organic compounds (VOC) as measured after the natural gas fired HRSG and SCR, defined as total hydrocarbons minus methane and ethane, shall not exceed 2.8 ppmvd when corrected to 15 percent O_2 . These limits do not apply during periods of reduced load and MSS. **(11/11)**
 - D. Emissions of ammonia (NH_3) shall not exceed 10 ppmvd when corrected to 15 percent O_2 . These limits do not apply during MSS. The SCR system shall be maintained according to manufacturer recommendations. **(11/11)**
6. Combustion air cooling may be utilized to enhance the power output of each CGT. Steam injection will not be utilized.
7. During normal operations opacity of emissions from all stack sources covered by this permit shall not exceed 5 percent averaged over a six-minute period. During periods of MSS, the opacity shall not exceed 15 percent averaged over a six minute period. Visible emission observations shall be performed and recorded quarterly 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. If visible emissions are present the permit holder shall perform one of the following within 24 hours: **(11/11)**
- A. Take corrective action within 48 hours of first observing the visible emission, if the corrective action eliminates the visible emissions such that visible emissions are no longer observed during the visible emissions determination then no further action is required other than to document the incident within one week of the observation.
 - B. Record this as a violation of the opacity limit in this condition.
 - C. Conduct and record an opacity observation as determined by 40 CFR Part 60, Appendix A, Reference Method 9 to determine if there is a violation of the opacity limit in this condition.
8. The Cooling Tower (EPN: C-TOWER) shall not exceed a total dissolved solids (TDS) concentration of 15,000 parts per million by weight (ppmw).

Federal Applicability

9. These facilities shall comply with applicable requirements of the EPA regulations on Standards of Performance for New Stationary Sources, 40 CFR Part 60:
 - A. Subpart A: General Conditions
 - B. Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.
 - C. Subpart GG: Standards of Performance for 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

10. Sampling ports and platforms shall be incorporated into the design of all exhaust stacks according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities." Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Director.
11. Upon request of the TCEQ or any other air pollution agency with jurisdiction, 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 each combined cycle unit's stack and also the Auxiliary Boiler Stack (EPN E-AUXBLR) when firing natural gas. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and in accordance with the appropriate EPA Reference Methods (RM) 201A and 202 or RM 5, modified to include back-half condensibles, for the concentration of particulate matter less than 10 microns in diameter (PM₁₀); RM 8 or RM 6 or 6c for sulfur dioxide (SO₂); RM 9 for opacity; RM 10 for the concentration of CO; and RM 25A, modified to exclude methane and ethane, for the concentration of VOC. In addition, RM 20 or equivalent methods shall be used to determine the concentrations of NO_x and O₂ for the CGTs. RM 7E or equivalent methods shall be used to determine the concentrations of NO_x and O₂ for the Auxiliary Boiler.

Fuel sampling using the methods and procedures of 40 CFR § 60.335(d) may be conducted in lieu of stack sampling for SO₂ or the permit holder may be exempted from fuel monitoring of SO₂ as provided under 40 CFR § 60.334(h)(3)(i). If fuel sampling is used, compliance with New Source Performance Standards (NSPS) Subpart GG SO₂ limits shall

be based on 100 percent conversion of the sulfur in the fuel to SO₂. Any deviations from those procedures must be approved by the Executive Director of the TCEQ prior to sampling. The TCEQ Executive Director or his designated representative shall be afforded the opportunity to observe all such sampling.

- A. Air emissions from each CGT shall be tested while firing at full load for the ambient conditions at the time of testing. Air contaminants to be sampled and analyzed while at full load include (but are not limited to) NO_x, O₂, CO, VOC, SO₂, PM₁₀, and NH₃. (Fuel sampling using the methods and procedures of 40 CFR § 60.335[d] may be conducted in lieu of stack sampling for SO₂.)

The CGTs combustion air coolers shall be operating during sampling if their operation is necessary to achieve the maximum load on the turbines.

- B. Air emissions from each CGT shall be tested while firing at three partial load conditions in the normal operating range of the CGTs and at 35 percent load. The operating range should be established during the pretest meeting.

Air emissions to be sampled and analyzed while at partial load include (but are not limited to) NO_x, O₂, CO, VOC, and NH₃. The VOC need only be sampled at a partial load between and including 70 to 75 percent of full load conditions. All other contaminants for which partial load sampling is required shall be sampled at each of the three partial load conditions. Each tested load shall be identified in the sampling report.

- C. The holder of this permit shall conduct the performance test for the CGTs, as required under 40 CFR § 60.8, using the NO_x Continuous Emission Monitoring System (CEMS).
- D. Air contaminants emitted from the Auxiliary Boiler to be tested for at minimum load, 50 percent load, and maximum firing include (but are not limited to) NO_x, CO, SO₂, O₂, and opacity. The emission limit at all loads for NO_x shall be 0.06 pound per MMBtu. For 50 percent and greater loads, the emission limit for CO shall be 100 ppmvd. For loads less than 50 percent, the emission limit for CO shall be based on the maximum allowable emission rates, expressed as lb/hr, for the Auxiliary Boiler (E-AUXBLR) in the attached MAERT table. The operating range of the Auxiliary Boiler shall be determined by the lowest load at which the boiler can demonstrate compliance with this condition.

The CO concentration limit (ppmvd) for 50 percent and greater loads is expressed on a dry basis; at 3 percent (by volume) stack gas O₂, averaged over a one-hour period. Measured concentrations shall be expressed accordingly. The NO_x heat input based limit is based upon fuel higher heating value averaged over a one-hour period.

- E. Initial testing to demonstrate compliance was performed on May 13, 2003 and July 21-24, 2003.

Continuous Determination of Compliance for CO, NO_x, and NH₃

- 12. The holder of this permit shall install, calibrate, maintain, and operate a CEMS to measure and record the concentrations of NO_x, CO, NH₃, and diluent from each Stack (EPNs: E-ST1 and E-ST2, respectively).
 - A. Monitored NO_x, CO, and NH₃ concentrations shall be corrected and reported in dimensional units corresponding to the emission rate and concentration limits established in this permit.
 - B. Each CEMS shall meet the applicable quality-assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1, or an acceptable alternative. Relative accuracy exceedances and any CEMS downtime shall be reported to the appropriate TCEQ Regional Director, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director.
 - C. The monitoring data shall be reduced to hourly average values at least once everyday, 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 designated representative upon request. The data from each CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit. Hourly average NO_x, CO, and NH₃ concentrations, converted to lbs/hr, from EPNs: E-ST1 and E-ST2 shall be summed monthly to tons per year and used to determine compliance with the emission limits of this permit.
 - E. The TCEQ Dallas/Fort Worth Regional Office shall be notified at least 30 days prior to any required relative accuracy test audit in order to provide them the opportunity to observe the testing.
 - F. If applicable, each 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. The 40 CFR Part 75 is deemed an

Special Conditions

Permit Numbers: 41166 and PSDTX939

Page 6

acceptable alternative to the performance specifications and quality assurance requirements of 40 CFR Part 60.

13. Continuous compliance for the Auxiliary Boiler (E-AUXBLR) shall be determined using the emission limits of the attached maximum allowable emission rates table (MAERT).
14. If any emission monitor fails to meet specified performance, it shall be repaired or replaced as soon as reasonably possible, 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 Dallas/Fort Worth Regional Office which allows for a longer repair/replacement time. The holder of this permit shall develop an operation and maintenance program (including stocking necessary spare parts) to ensure that the continuous monitors are available as required.
15. The holder of this permit shall additionally install, calibrate, maintain, and operate continuous monitoring systems to monitor and record the average hourly natural gas consumption of each CGT, HRSG burners, and the Auxiliary Boiler. The systems shall be accurate to $\pm \square 5.0$ percent of the unit's maximum flow.
16. The holder of this permit shall monitor the fuel as specified in 40 CFR § 60.334(b) or the permit holder may be exempted from fuel monitoring of SO₂ as provided under 40 CFR § 60.334(h)(3)(i). Any request for a custom monitoring schedule shall be made in writing and directed to the TCEQ Regional Director. Any custom schedule approved by TCEQ pursuant to 40 CFR § 60.334(b) will be recognized as enforceable conditions of this permit.
17. To demonstrate compliance with the TDS concentration in Special Condition No. 8 and with the hourly and annual particulate emission rate in the MAERT, the holder of this permit shall have the option to either measure conductivity (in order to convert to TDS) or conduct a direct TDS analysis.
 - A. Option A: Direct TDS Analysis
 - (1) Analysis shall be performed in accordance with "Standard Methods for the Examination of Water and Wastewater" Method 2540.
 - (2) Continuous compliance with the hourly and annual particulate matter emission rates for the Cooling Tower in the MAERT shall be demonstrated by monitoring the TDS of the cooling water at a monitoring point in the re-circulating water of the cooling tower, and recording the TDS every two weeks.
 - (3) If a TDS exceedance occurs, an evaluation shall be conducted within 24 hours of the receipt of the analysis report and corrective action to eliminate the exceedance shall be taken promptly and documented with one week of the occurrence.

B. Option B: Conductivity Measurement

- (1) Perform sampling to establish the conductivity to TDS conversion factor that shall be used by the permit holder to demonstrate compliance with the TDS concentration. A conservative default conversion factor of 0.80 (conductivity to TDS) may be used initially until a site specific demonstrated value is determined.

Cooling water samples (minimum of three samples) shall be collected and a TDS/Conductivity analysis performed on each of the samples in order to establish the actual cooling water conductivity to TDS conversion factor. The conductivity and TDS analysis shall be performed in accordance with “Standard Methods for the Examination of Water and Wastewater” Methods 2510 (Conductivity) and Methods 2540 (Solids). An average conversion factor and standard deviation based on the values shall be determined from the cooling water sample results.

- (2) Within 30 days after completion of the sampling, a copy of the sampling report shall be submitted to the TCEQ Dallas/Ft Worth Regional Office.
- (3) Continuous compliance with the hourly and annual particulate matter emission rates for the Cooling Tower in the MAERT shall be demonstrated by monitoring the conductivity of the cooling water at a monitoring point in the recirculating water of the cooling tower, and recording the conductivity reading on no less than a weekly basis. Each conductivity measurement shall be converted to TDS concentration in ppmw using the conductivity factor established in accordance with Special Condition No. 17 B (1). The permit holder shall utilize one of the following monitoring options.

a. A Process Conductivity Meter (PCM).

1. The PCM shall be quality assured quarterly, to confirm the conversion factor, 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” Methods 2510 (Conductivity) and Methods 2540 (Solids).
2. The PCM shall be calibrated once a quarter in accordance with the manufacturer specifications.
3. In the event the PCM is offline due to repair or maintenance, either the use of a portable conductivity meter or a TDS analysis in

accordance with Method 2540 (solids) may be used to satisfy the weekly periodic monitoring requirements.

or

b. A portable conductivity meter.

1. The portable conductivity meter shall be quality assured quarterly, to confirm the conversion factor, 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” Methods 2510 (Conductivity) and Methods 2540 (Solids).
2. The portable conductivity meter shall be calibrated once a quarter in accordance with the manufacturer specifications.
3. In the event the portable conductivity meter is unavailable due to repair or maintenance, a TDS analysis in accordance with Method 2540 (solids) may be used to satisfy the weekly periodic monitoring requirements.

(4) If a conductivity exceedance occurs, an evaluation shall be conducted within 24 hours and corrective action to eliminate the exceedance shall be taken promptly and documented with one week of the occurrence.

C. Records shall include the date and time of the monitoring, the location of the monitoring point for the cooling tower recirculating water, and the measured conductivity and equivalent TDS or the direct TDS analysis.

Planned Maintenance, Start-up, and Shutdown (MSS) (11/11)

18. Facility and air pollution control equipment shall be operated in a manner consistent with good air pollution control, safe operating practices, and protection of the facility.
19. The emissions from planned MSS activities are reflected in the MAERT. The emissions will be minimized by the following:
 - A. The frequency and duration of operation of the turbines (EPNs: E-ST 1 and E-ST 2) during planned MSS activities will be minimized and applicable monitoring systems kept in operation.

- B. Start-up is defined as the period that begins when fuel is introduced into the system and shall not exceed 7 hours.
 - C. A shutdown shall not exceed 2 hours.
20. Planned maintenance activities authorized in this permit are identified in Attachment A (ILEs) and Attachment B (non-ILEs).

MSS Compliance (11/11)

21. Emissions from planned MSS activities for use in Special Condition Nos. 18, 19, and 20 shall be determined by the use of an appropriate method, including but not limited to any of the following methods:
- A. Use of a CEMS. The CEMS shall be certified to measure the pollutant's emission over the entire range of a planned MSS activity.
 - B. Use of the emission factor(s), facility-specific parameter(s), manufacture's emission factors, and/or engineering knowledge of the facility operations.
 - C. Use of emissions data measured (by a CEMS or during emissions testing) during the same type of planned MSS activity occurring at or on an identical or 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.
 - D. Use of emissions testing data collected during a planned MSS 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.
22. Compliance with the emissions limits for planned maintenance activities identified in this permit shall be demonstrated as follows.
- A. ILEs (EPN: ILEMSS/Attachment A)
 - (1) The total emissions from all ILE planned maintenance activities shall be considered to be no more than the estimated potential to emit for those activities that are represented in the permit application dated December 21, 2010.
 - (2) The permit holder shall annually confirm the continued validity of the estimated potential to emit as represented in the permit application dated December 21, 2010.

- B. For each pollutant emitted during non-ILE planned maintenance activities (Attachment B), the permit holder shall do the following for each calendar month.
 - (1) Determine the total emissions of the pollutant that result from such non-ILE planned maintenance activities in accordance with the methods listed in Special Condition No. 21.
 - (2) Compare the pollutant's short-term (hourly) emissions during planned maintenance activities to the applicable short-term planned MSS emissions limit in the MAERT.
 - (3) Once the pollutant's emissions during planned maintenance activities have been measured for 12 months after the MSS permit amendment issued on November 2, 2011, compare the rolling 12-month emissions of the pollutant, as determined using the data, to the applicable annual planned MSS emissions limit in the MAERT.

Recordkeeping Requirements

- 23. The following records shall be kept at the plant for the life of the permit. All records required in this permit shall be made available at the request of personnel from the TCEQ, EPA, or any air pollution control agency with jurisdiction.
 - A. A copy of this permit.
 - B. Permit application dated April 22, 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. 11 to demonstrate initial compliance.
 - D. Stack sampling results or other air emissions testing (other than CEMS data) that may be conducted on units authorized under this permit after the date of issuance of this permit.
 - E. System maintenance records specifying dates of catalyst replacement.
 - F. Manufacturer recommended operating and maintenance procedures for all major equipment, including CGT and the Auxiliary Boiler recommended time periods for startup and shutdown.

Special Conditions

Permit Numbers: 41166 and PSDTX939

Page 11

24. 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 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, NH₃, and O₂ emissions from EPNs: E-ST1 and E-ST2 to demonstrate compliance with the emission rates listed in the MAERT.
 - B. Raw data files of all CEMS data including calibration checks and adjustments and maintenance performed on these systems in a permanent form suitable for inspection.
 - C. Records of the hours of operation, average daily quantity, and sulfur content of natural gas fired in each CGT, HRSG burners, and the Auxiliary Boiler, pursuant to Special Condition No. 3.
 - D. Hours of combustion air cooling to enhance the power output of each CGT pursuant to Special Condition No. 6.
 - E. Monthly and cumulative yearly totals of the heat input (in MMBtu) to the Auxiliary Boiler including times of start-up and shutdown. A monthly determination of the annual capacity factor which shall be calculated based on the total heat input of the preceding 12 month period divided by 1,245,672 MMBtu.
 - F. Records of visible emissions and opacity observations pursuant to Special Condition No. 7.
 - G. Records of conductivity readings, TDS concentrations, conductivity exceedances, corrective action taken and the quarterly PCM quality assurance checks pursuant to Special Condition No. 8 and Special Condition No. 17.
 - H. Startup/Shutdown records shall include the following: **(11/11)**
 - (1) Type and quantity of fuel used; and
 - (2) Emissions from the event; and
 - (3) Date, time and duration of the event.

- I. Monthly maintenance records pursuant to Special Condition No. 22B shall include the following: **(11/11)**
 - (1) Type of activity.
 - (2) Emissions from the activity.
 - (3) Date, time, and duration of the activity.
- J. Pursuant to Special Condition No. 22A(2), the annual confirmation shall be kept with examples of the method of data reduction including units, conversion factors, assumptions, and the basis of the assumptions in accordance with the original manner as represented in the application dated December 21, 2010. **(11/11)**

Reporting

25. The holder of this permit shall submit to the TCEQ Dallas/Fort Worth Regional Office and the Air Enforcement Branch of EPA in Dallas 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 non-complying emissions and CEMS downtimes by cause.
26. For the purposes of reporting pursuant to Special Condition No. 25, non-complying emissions from equipment authorized by this permit shall be defined as follows:
 - A. Non-complying emissions of NO_x, CO, or NH₃ shall be defined as each one hour period of operation, except during MSS, during which the average emissions as measured and recorded by the CEMS exceed any lb/hr emission limitation specified in the MAERT.
 - B. Non-complying annual emissions shall be defined as any rolling 12-month period of operation during which the 12 month cumulative emissions exceeds the annual limits specified in the MAERT of this permit.
 - C. Non-complying emissions of SO₂ shall be defined as emissions resulting from firing fuel which is found to contain sulfur in excess of the limits of Special Condition No. 3 or which indicates exceedance of the SO₂ limitation specified in the MAERT based on 100 percent conversion of the sulfur in the fuel to SO₂.

27. If the average NO_x, CO, or NH₃ 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 NH₃ emission rate exceeds the emission rate in the MAERT for more than 12-consecutive hours, the permit holder shall notify the TCEQ Dallas/Fort Worth Regional Office either verbally or with a written report detailing the cause of the increase in emissions and all efforts being made to correct the problem.

Additional Site Permit Authorizations

28. The following facilities/operations and associated MSS emissions are authorized through Permit by Rule (PBR) under Title 30 Texas Administrative Code (30 TAC) Chapter 106 and are not incorporated into this permit, are listed here for reference purposes only:
(11/11)

EPN	Source	Size	PBR 30 TAC §
TANK3	Sodium Hypochlorite Tank	12,000 gal	106.472
TANK4	Ferric Chloride Tank	600 gal	106.472
TANK5	Scale Inhibitor Storage Tank	6,000 gal	106.472
TANK6	Sulfuric Acid Storage Tank	6,000 gal	106.472
TANK8	Sodium Bisulfate Base Tank	400 gal	106.472
TANK13	Sodium Hydroxide Storage Tank (50%)	2,100 gal	106.472
TANK14	HRSG1 Atmospheric Blow-down Tank	7,945 gal	106.472
TANK15	HRSG1 Atmospheric Blow-down Tank	7,945 gal	106.472
TANK16	Aux. Boiler Atmospheric Blow-down Tank	3,525 gal	106.472
TANK17	Aux. Boiler De-aerator Overflow Tank	3,525 gal	106.472
TANK18	Non-Oxidizing Biocide Base Tank	400 gal	106.472
TANK19	Gasoline Tank	500 gal	106.472
TANK20	Diesel Tank	500 gal	106.472
TANK21	Diesel Tank	1,000 gal	106.472
TANK22	Waste Oil Tank	100 gal	106.472
E-GEN	Emergency Generator	685 hp	106.511
E-PUMP	Emergency Firewater Pump	183 hp	106.511

Special Conditions

Permit Numbers: 41166 and PSDTX939

Page 14

29. The following operations are authorized through PBRs under 30 TAC Chapter 106:
(11/11)

Activity	PBR
Bench Scale Laboratory Equipment	106.122
Soldering, Brazing, Welding	106.227
Routine MSS of Facilities, & Temporary Maintenance Facilities	106.263
Hand-held & Manually Operated Machines	106.265
Dry Abrasive Cleaning	106.452
Surface Coating	106.263, 106.433
Solvent Cleaning	106.454
Water and Wastewater Treatment	106.532

Date: November 22, 2011

Permit No. 41166 and PSDTX939

Attachment A

Inherently Low Emitters (EPN: ILEMSS)							
Activities	Spreadsheet Table	Emissions					
		NO _x	CO	VOC	PM	SO ₂	NH ₃
Catalyst handling and maintenance ¹	B-2				X		
Miscellaneous particulate filter maintenance ²	B-4				X		
Inspection, repair, replacement, adjusting, testing, and calibration of analytical equipment, process instrumentation including sight glasses, meters, gauges, CEMS, and PEMS	B-6	X	X				X
Turbine washing - online ³	B-7				X		
Small equipment and fugitive component repair/replacement in VOC service ⁴	B-9			X			X
Small equipment and fugitive component repair/replacement in VOC and NH ₃ service ⁴	B-10			X			
Boiler general maintenance ⁵	B-13				X		
Management of sludge from pits, ponds, sumps, and water conveyances ⁶	B-15			X			

¹ Includes, but is not limited to replacement, cleaning, activation, and deactivation of SCR and oxidation catalyst.

² Includes, but is not limited to baghouse filters, process related building filters, and combustion turbine intake filters.

³ This process involves the use of water only.

⁴ Includes, but is not limited to the following: (a) repair/replacement/ of pumps, compressors, valves, pipes, flanges, transport lines, filters, and screens utilized in natural gas, fuel/diesel/lube oil, ammonia, and gasoline service. (b) vehicle/mobile equipment maintenance that may involve small VOC emissions such as oil changes, transmission service, and hydraulic system service. (c) off-line NO_x control devices including maintenance of the anhydrous/aqueous systems.

⁵ Includes pre-heater basket handling/maintenance, refractory change-out, fan maintenance/balancing, damper/air/heater/soot blower maintenance, and any other general maintenance that does not exceed the worst case emission representations in the application.

⁶ Includes but is it not limited to the following: mgmt by vacuum truck/dewatering of material in open pits/ponds/sumps/tanks and other closed or open vessels. Material managed includes water and sludge materials containing miscellaneous VOCs such as diesel, lube oil, and other waste oils.

Attachment B

Non-Inherently Low Emitters (non-ILEs)								
Activity	EPN	Emissions						
		NO _x	CO	VOC	PM	SO ₂ / H ₂ S	NH ₃ / Urea	Exempt Solvent
Gaseous Fuel Venting ⁷	MSSFUG			X				
Combustion Optimization ⁸	E-ST1 E-ST2 E-AUXBLR	X	X	X	X	X		

⁷ Includes, but is not limited to venting prior to pipeline pigging and meter provings

⁸ Includes, but is not limited to the following: (a) leak and operability checks (*e.g.* turbine over-speed test, trouble shooting). (b) Balancing. (c) Tuning activities that occur during seasonal tuning or after initial construction, a combustor change out, a major repair/maintenance to a combustor, or other similar circumstances.

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 41166 and PSDTX939

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)(7)	TPY (4)
Hourly Emissions Rates - Normal Operations				
E-ST 1	MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB	NO _x	91.9	-
		CO	143.4	-
		VOC	12.3	-
		PM ₁₀ /PM _{2.5}	30.1	-
		SO ₂	41.8	-
		H ₂ SO ₄	5.1	-
		NH ₃	37.8	-
E-ST 2	MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB	NO _x	91.9	-
		CO	143.4	-
		VOC	12.3	-
		PM ₁₀ /PM _{2.5}	30.1	-
		SO ₂	41.8	-
		H ₂ SO ₄	5.1	-
		NH ₃	37.8	-
Hourly Emissions Rates - Reduced Load and MSS Operations				
E-ST 1	MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB	NO _x	386.9	-
		CO	3029.2	-
		VOC	333.4	-
		PM ₁₀ /PM _{2.5}	21.3	-

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour (6)(7)	TPY (4)
E-ST 1	MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB	SO ₂	18.2	-
		H ₂ SO ₄	2.2	-
		NH ₃	20.5	-
E-ST 2	MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB	NO _x	386.9	-
		CO	3029.2	-
		VOC	333.4	-
		PM ₁₀ /PM _{2.5}	21.3	-
		SO ₂	18.2	-
		H ₂ SO ₄	2.2	-
		NH ₃	20.5	-
Annual Emission Rates - Normal, Reduced Load, and MSS Operations				
E-ST 1 & E-ST 2	MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB	NO _x	-	708.7
		CO	-	1128.6
		VOC	-	103.0
		PM ₁₀ /PM _{2.5}	-	230.9
		SO ₂	-	161.6
		H ₂ SO ₄	-	19.8
		NH ₃	-	291.5
E-AUXBLR	Auxiliary Boiler 142 MMBtu/hr	NO _x	8.5	3.7
		CO	10.5	4.6
		VOC	0.77	0.34
		PM ₁₀ /PM _{2.5}	1.4	0.6
		SO ₂	2.2	0.49

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour (6)(7)	TPY (4)
E-TANK7	Diesel Storage Tank 300 gallon	VOC	0.01	<0.01
C-TOWER	Cooling Tower	PM	5.68	24.87
		PM ₁₀ /PM _{2.5}	0.41	1.82
E-PIPFUG	Piping Fugitives	VOC	0.11	0.5
		NH ₃	0.33	1.41
MSSFUG	non-ILEs Maintenance emissions (Attachment B)	VOC	276.33	0.27
ILEMSS	ILEs Maintenance (Attachment A)	NO _x	<0.01	<0.01
		CO	<0.01	<0.01
		VOC	0.21	0.01
		PM ₁₀	0.36	0.01
		PM _{2.5}	0.36	0.01

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
 - MSS - maintenance, start-up, and shutdown emissions
 - 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

Emission Sources - Maximum Allowable Emission Rates

- (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) For NO_x and CO emissions that are measured using a CEMS, the Reduced Load/MSS lb/hr limits apply during each clock hour that includes one or more minutes of reduced load operation or MSS activities. During all other clock hours, the normal lb/hr limits apply.
- (7) For NH_3 emissions that are measured using a CEMS, the Normal Load limits apply during each clock hour that includes one or more minutes of normal load operation. During all other clock hours, the Reduced Load/MSS lb/hr limits apply.

Date: July 9, 2012