

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
El Paso Electric Company

AUTHORIZING THE OPERATION OF
Newman Power Station
Electric Services

LOCATED AT
El Paso County, Texas
Latitude 31° 59' 9" Longitude 106° 25' 56"
Regulated Entity Number: RN100211309

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: 080 Issuance Date: _____

For the Commission

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General Terms and Conditions

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

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

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

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

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

Special Terms and Conditions: Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

- C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
 - E. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
 - F. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 2 (Emissions Banking and Trading of Allowances) Requirements for an electric generating facility authorized under 30 TAC Chapter 116, Subchapter I:
 - (i) Title 30 TAC § 101.332 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.333 (relating to Allocation of Allowances)
 - (iii) Title 30 TAC § 101.334 (relating to Allowance Deductions)
 - (iv) Title 30 TAC § 101.335 (relating to Allowance Banking and Trading)
 - (v) Title 30 TAC § 101.336 (relating to Emission Monitoring and Compliance Demonstration and Reporting)
 - (vi) Title 30 TAC § 101.337 (relating to El Paso Region)
 - (vii) Title 30 TAC § 101.338 (relating to Emission Reductions Achieved Outside the United States)
 - (viii) The terms and conditions by which the emission limits are established to meet the quantity of allowances for the electric generating facility are applicable requirements of this permit
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements

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

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

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

opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

(c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

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

(i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)

(iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible

emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

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

appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader

- C. 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.
- D. Permit holders for sites that have materials handling, construction, roads, streets, alleys, and parking lots shall comply with the following requirements:
 - (i) Title 30 TAC § 111.143 (relating to Materials Handling)
 - (ii) Title 30 TAC § 111.145 (relating to Construction and Demolition)
 - (iii) Title 30 TAC § 111.147 (relating to Roads, Streets, and Alleys)
 - (iv) Title 30 TAC § 111.149 (relating to Parking Lots)
- E. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)

4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

Additional Monitoring Requirements

5. 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 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

6. 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, 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
7. 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.
8. 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).
9. 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

10. 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.

11. Use of Emission Credits to comply with applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use 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) Offsets for Title 30 TAC Chapter 116
 - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)(2)
 - (ii) The 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 1
 - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)(2)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)
12. Use of Discrete Emission Credits to comply with the applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:

- (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
- (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
- (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
- (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
- (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Temporary Fuel Shortages (30 TAC § 112.15)

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

Permit Location

- 14. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

- 15. A permit shield is granted for the emission units, groups, or processes specified in the attached “Permit Shield.” Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment “Permit Shield.” Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the

executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Acid Rain Permit Requirements

16. For units B1, B2, B3, B4A, B4B, GT-6A, and GT-6B (identified in the Certificate of Representation as units 1, 2, 3, xx4, xx5, GT-6A, and GT-6B) located at the affected source identified by ORIS/Facility code 3456, 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 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.

Clean Air Interstate Rule Permit Requirements

17. For units B1, B2, B3, B4A, B4B, GT-6A, and GT-6B (identified in the Certificate of Representation as units 1, 2, 3, xx4, xx5, GT-6A, and GT-6B), located at the site identified by ORIS/Facility code 3456, the designated representative and the owner or operator, as applicable, shall comply with the following Clean Air Interstate Rule (CAIR) Permit requirements. Until approval of the Texas CAIR SIP by EPA, the permit holder shall comply with the equivalent requirements of 40 CFR Part 97 in place of the referenced 40 CFR Part 96 requirements in the Texas CAIR permit and 30 TAC Chapter 122 requirements.

A. General Requirements

- (i) Under 30 TAC § 122.420(b) and 40 CFR §§ 96.120(b) and 96.220(b) the CAIR Permit requirements contained here are a separable portion of the Federal Operating Permit (FOP).
- (ii) The owners and operators of the CAIR NO_x and the CAIR SO₂ source shall operate the source and the unit in compliance with the requirements of this CAIR permit and all other applicable State and federal requirements.
- (iii) The owners and operators of the CAIR NO_x and the CAIR SO₂ source shall comply with the General Terms and Conditions of the FOP that incorporates this CAIR Permit.
- (iv) The term for the initial CAIR permit shall commence with the issuance of the revision containing the CAIR permit and shall be the remaining term for the FOP that incorporates the CAIR permit. Renewal of the initial CAIR permit shall coincide with the renewal of the FOP that incorporates the CAIR 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 and Reporting Requirements

- (i) The owners and operators, and the CAIR designated representative, of the CAIR NO_x source and each CAIR NO_x unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements contained 40 CFR Part 96, Subpart HH.
- (ii) The owners and operators, and the CAIR designated representative, of the CAIR SO₂ source and each CAIR SO₂ unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements contained 40 CFR Part 96, Subpart HHH.
- (iii) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HH and any other credible evidence

shall be used to determine compliance by the CAIR NO_x source with the CAIR NO_x emissions limitation.

- (iv) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH and any other credible evidence shall be used to determine compliance by the CAIR SO₂ source with the CAIR SO₂ emissions limitation.

C. NO_x emissions requirements

- (i) As of the allowance transfer deadline for a control period, the owners and operators of the CAIR NO_x source and each CAIR NO_x unit at the source shall hold, in the source's compliance account, CAIR NO_x allowances available for compliance deductions for the control period under 40 CFR § 96.154(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x units at the source, as determined in accordance with the requirements of 40 CFR Part 96, Subpart HH.
- (ii) A CAIR NO_x unit shall be subject to the requirements of paragraph C.(i) of this CAIR Permit starting on the later of January 1, 2009, or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 96.170(b)(1), (2), or (5).
- (iii) A CAIR NO_x allowance shall not be deducted, for compliance with the requirements of this permit, for a control period in a calendar year before the year for which the CAIR NO_x allowance was allocated.
- (iv) CAIR NO_x allowances shall be held in, deducted from or transferred into or among CAIR NO_x Allowance Tracking System accounts in accordance with the requirements of 40 CFR Part 96, Subpart FF or Subpart GG.
- (v) A CAIR NO_x allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Annual Trading Program. No provision of the CAIR NO_x Annual Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 40 CFR § 96.105 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.
- (vi) A CAIR NO_x allowance does not constitute a property right.
- (vii) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FF or Subpart GG, every allocation, transfer, or deduction of a CAIR NO_x allowance to or from a CAIR NO_x unit's compliance account is incorporated automatically in this CAIR permit.

D. NO_x excess emissions requirement

- (i) If a CAIR NO_x source emits nitrogen oxides during any control period in excess of the CAIR NO_x emissions limitation, the owners and operators of the source and each CAIR NO_x unit at the source shall surrender the CAIR NO_x allowances required for deduction under 40 CFR § 96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law.
- (ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AA, the Clean Air Act, and applicable State law.

E. SO₂ emissions requirements

- (i) As of the allowance transfer deadline for a control period, the owners and operators of the CAIR SO₂ source and each CAIR SO₂ unit at the source shall hold, in the source's compliance account, CAIR SO₂ allowances available for compliance deductions for the control period under 40 CFR § 96.254(a) and (b) in an amount not less than the tons of total sulfur dioxides emissions for the control period from all CAIR SO₂ units at the source, as determined in accordance with the requirements of 40 CFR Part 96, Subpart HHH.
- (ii) A CAIR SO₂ unit shall be subject to the requirements of paragraph E.(i) of this CAIR Permit starting on the later of January 1, 2010, or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 96.270(b)(1), (2), or (5).
- (iii) A CAIR SO₂ allowance shall not be deducted, for compliance with the requirements of this permit, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated.
- (iv) CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with the requirements of 40 CFR Part 96, Subpart FFF or Subpart GGG.
- (v) A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 40 CFR § 96.205 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

- (vi) A CAIR SO₂ allowance does not constitute a property right.
- (vii) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FFF or Subpart GGG, every allocation, transfer, or deduction of a CAIR SO₂ allowance to or from a CAIR SO₂ unit's compliance account is incorporated automatically in this CAIR permit.

F. SO₂ excess emissions requirements

- (i) If a CAIR SO₂ source emits sulfur dioxides during any control period in excess of the CAIR SO₂ emissions limitation, the owners and operators of the source and each CAIR SO₂ unit at the source shall surrender the CAIR SO₂ allowances required for deduction under 40 CFR § 96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law.
- (ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAA, the Clean Air Act, and applicable State law.

G. Recordkeeping and Reporting Requirements

- (i) Unless otherwise provided, the owners and operators of the CAIR NO_x source and each CAIR NO_x unit at the source and the CAIR SO₂ source and each CAIR SO₂ 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 Administrator.
 - (1) The certificate of representation under 40 CFR §§ 96.113 and 96.213 for the CAIR NO_x designated representative for the source and each CAIR NO_x unit and the CAIR SO₂ designated representative for the source and each CAIR SO₂ 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 documents are superseded because of the submission of a new certificate of representation under 40 CFR §§ 96.113 and 96.213 changing the CAIR designated representative.
 - (2) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HH and Subpart HHH, provided that to the extent that these subparts provide for a 3-year period for recordkeeping, the 3-year period shall apply.

- (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Annual Trading Program and CAIR SO₂ Trading Program or relied upon for compliance determinations.
 - (4) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO_x Annual Trading Program and CAIR SO₂ Trading Program or to demonstrate compliance with the requirements of the CAIR NO_x Annual Trading Program and CAIR SO₂ Trading Program.
- (ii) The CAIR designated representative of a CAIR NO_x source and each CAIR NO_x unit at the source and a CAIR SO₂ source and each CAIR SO₂ unit at the source shall submit the reports required under the CAIR NO_x Annual Trading Program and the CAIR SO₂ Trading Program including those under 40 CFR Part 96, Subpart HH and Subpart HHH.
- H. The CAIR NO_x source and each CAIR NO_x unit shall meet the requirements of the CAIR NO_x Annual Trading Program contained in 40 CFR Part 96, Subparts AA through II.
- I. The CAIR SO₂ source and each CAIR SO₂ unit shall meet the requirements of the CAIR SO₂ Trading Program contained in 40 CFR Part 96, Subparts AAA through III.
- J. Any provision of the CAIR NO_x Annual Trading Program and the CAIR SO₂ Trading Program that applies to a CAIR NO_x source or CAIR SO₂ source or the CAIR designated representative of a CAIR NO_x source or CAIR SO₂ source shall also apply to the owners and operators of such source and the units at the source.
- K. Any provision of the CAIR NO_x Annual Trading Program and the CAIR SO₂ Trading Program that applies to a CAIR NO_x unit or CAIR SO₂ unit or the CAIR designated representative of a CAIR NO_x unit or CAIR SO₂ unit shall also apply to the owners and operators of such unit.
- L. No provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, a CAIR permit application, a CAIR permit, or an exemption under 40 CFR §§ 96.105 or 96.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x source or CAIR NO_x unit or a CAIR SO₂ source or CAIR SO₂ 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 24

Applicable Requirements Summary 27

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
DB-6A	Boilers/Steam Generators/Steam Generating Units	N/A	60Da-DB-6A	40 CFR Part 60, Subpart Da	No changing attributes.
DB-6B	Boilers/Steam Generators/Steam Generating Units	N/A	60Da-DB-6B	40 CFR Part 60, Subpart Da	No changing attributes.
DB-S4-1	Boilers/Steam Generators/Steam Generating Units	N/A	60Db-S4-1	40 CFR Part 60, Subpart Db	No changing attributes.
DB-S4-2	Boilers/Steam Generators/Steam Generating Units	N/A	60Db-S4-2	40 CFR Part 60, Subpart Db	No changing attributes.
FIRE	SRIC Engines	N/A	60IIII-FIRE	40 CFR Part 60, Subpart IIII	No changing attributes.
FIRE	SRIC Engines	N/A	63ZZZZ-GEN	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GEN	SRIC Engines	N/A	60IIII-GEN	40 CFR Part 60, Subpart IIII	No changing attributes.
GEN	SRIC Engines	N/A	63ZZZZ-FIRE	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-BOIL123	Boilers/Steam Generators/Steam Generating Units	B1, B2, B3	R112-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
GRP-BSTACK4	Emission Points/Stationary Vents/Process Vents	S4-1, S4-2	R111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-BSTK123	Emission Points/Stationary Vents/Process Vents	S1, S2, S3	R111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-TANKS	Storage Tanks/Vessels	OT1, OT2, OT6	R115B-01	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP-TURB4	Stationary Turbines	B4CA, B4CB	60GG-TURB4- GAS	40 CFR Part 60, Subpart GG	No changing attributes.
GT-6A	Stationary Turbines	N/A	60GG-GT-6A-CC	40 CFR Part 60, Subpart GG	No changing attributes.
GT-6A	Stationary Turbines	N/A	60GG-GT-6A-SC	40 CFR Part 60, Subpart GG	No changing attributes.
GT-6B	Stationary Turbines	N/A	60GG-GT-6B-CC	40 CFR Part 60, Subpart GG	No changing attributes.
GT-6B	Stationary Turbines	N/A	60GG-GT-6B-SC	40 CFR Part 60, Subpart GG	No changing attributes.
LO-1	Emission Points/Stationary Vents/Process Vents	N/A	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
LO-2	Emission Points/Stationary Vents/Process Vents	N/A	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
LO-3	Emission Points/Stationary Vents/Process Vents	N/A	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
UL-1	Loading/Unloading Operations	N/A	R115C-01	30 TAC Chapter 115, Loading and Unloading of VOC	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)
DB-6A	EU	60Da-DB-6A	NO _x , SO ₂ , PM, PM (Opacity)	40 CFR Part 60, Subpart Da	§ 60.40Da(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
DB-6B	EU	60Da-DB-6B	NO _x , SO ₂ , PM, PM (Opacity)	40 CFR Part 60, Subpart Da	§ 60.40Da(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
DB-S4-1	EU	60Db-S4-1	SO ₂	40 CFR Part 60, Subpart Db	§ 60.42b(k)(2)	Units firing only very low sulfur oil and/or a mixture of gaseous fuels with a potential SO ₂ emission rate of 140 ng/J (0.32 lb/MMBtu) heat input or less are exempt from the SO ₂ emissions limit in §60.42b(k)(1).	§ 60.47b(f)	§ 60.45b(k) § 60.49b(o) § 60.49b(r) § 60.49b(r)(1)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(r) § 60.49b(r)(1)
DB-S4-1	EU	60Db-S4-1	PM	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)

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)
DB-S4-1	EU	60Db-S4-1	PM (Opacity)	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
DB-S4-1	EU	60Db-S4-1	NO _x	40 CFR Part 60, Subpart Db	§ 60.44b(a)(4)(i) § 60.44b(h) § 60.44b(i) § 60.46b(a)	Except as in §60.44b(k), (l), on/after §60.8 test, no facility combusting natural gas and distillate oil (duct burner in a combined cycle system) shall discharge NO _x in excess of 86 ng/J heat input.	§ 60.46b(c) § 60.46b(f) § 60.46b(f)(2) [G]§ 60.48b(b) § 60.48b(c) § 60.48b(d) § 60.48b(e) [G]§ 60.48b(e)(2) § 60.48b(e)(3) § 60.48b(f)	[G]§ 60.48b(b) § 60.48b(c) [G]§ 60.49b(d) [G]§ 60.49b(g) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b)
DB-S4-2	EU	60Db-S4-2	SO ₂	40 CFR Part 60, Subpart Db	§ 60.42b(k)(2)	Units firing only very low sulfur oil and/or a mixture of gaseous fuels with a potential SO ₂ emission rate of 140 ng/J (0.32 lb/MMBtu) heat input or less are exempt from the SO ₂ emissions limit in §60.42b(k)(1).	§ 60.47b(f)	§ 60.45b(k) § 60.49b(o) § 60.49b(r) § 60.49b(r)(1)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(r) § 60.49b(r)(1)
DB-S4-2	EU	60Db-S4-2	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)

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)
DB-S4-2	EU	6oDb-S4-2	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)
DB-S4-2	EU	6oDb-S4-2	NO _x	40 CFR Part 60, Subpart Db	§ 60.44b(a)(4)(i) § 60.44b(h) § 60.44b(i) § 60.46b(a)	Except as in §60.44b(k), (l), on/after §60.8 test, no facility combusting natural gas and distillate oil (duct burner in a combined cycle system) shall discharge NO _x in excess of 86 ng/J heat input.	§ 60.46b(c) § 60.46b(f) § 60.46b(f)(2) [G]§ 60.48b(b) § 60.48b(c) § 60.48b(d) § 60.48b(e) [G]§ 60.48b(e)(2) § 60.48b(e)(3) § 60.48b(f)	[G]§ 60.48b(b) § 60.48b(c) [G]§ 60.49b(d) [G]§ 60.49b(g) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b)
FIRE	EU	6oIII-FIRE	CO	40 CFR Part 60, Subpart III	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2008 model year or earlier must comply with a CO emission limit of 3.5 g/KW-hr, as listed in Table 4 to this subpart.	None	None	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FIRE	EU	60III-FIRE	NMHC and NO _x	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2008 model year or earlier must comply with an NMHC+NO _x emission limit of 10.5 g/KW-hr, as listed in Table 4 to this subpart.	None	None	[G]§ 60.4214(d)
FIRE	EU	60III-FIRE	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2008 model year or earlier must comply with a PM emission limit of 0.54 g/KW-hr, as listed in Table 4 to this subpart.	None	None	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FIRE	EU	63ZZZZ-GEN	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
GEN	EU	60IIII-GEN	NO _x	40 CFR Part 60, Subpart IIII	[G]§ 60.4205(d)(1) § 60.4206 § 60.4207(d) § 60.4211(d) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder and was installed prior to 01/01/2012 must comply with the following NO _x emission limits: 17.0 g/KW-hr when maximum engine speed is less than 130 rpm, 45.0 x N-0.20 when maximum engine speed is at least 130 but less than 2000 rpm, and 9.8 g/KW-hr when maximum engine speed is 2000 rpm or more.	§ 60.4209(a) § 60.4211(d)(1) § 60.4213(a) § 60.4213(b) § 60.4213(c) § 60.4213(e)	[G]§ 60.4211(d)(2) § 60.4214(b)	[G]§ 60.4211(d)(2) [G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GEN	EU	60III-GEN	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(d)(3) § 60.4206 § 60.4207(d) § 60.4211(d) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder must comply with a PM emission limit of 0.40 g/KW-hr.	§ 60.4209(a) § 60.4211(d)(1) § 60.4213(a) § 60.4213(b) § 60.4213(c) § 60.4213(f)	[G]§ 60.4211(d)(2) § 60.4214(b)	[G]§ 60.4211(d)(2) [G]§ 60.4214(d)
GEN	EU	63ZZZZ-FIRE	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
GRP-BOIL123	EU	R112-01	SO2	30 TAC Chapter 112, Sulfur Compounds	§ 112.9(a)	No person may cause, suffer, allow, or permit emissions of SO2 from any liquid fuel-fired steam generator, furnace, or heater to exceed 440 ppmv at actual stack conditions and averaged over 3-hours.	§ 112.2(a) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-BSTACK4	EP	R111-01	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRP-BSTK123	EP	R111-01	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRP-TANKS	EU	R115B-01	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
GRP-TURB4	EU	60GG-TURB4-GAS	SO ₂	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) [G]§ 60.334(h)(3)	None	None
GRP-TURB4	EU	60GG-TURB4-GAS	NO _x	40 CFR Part 60, Subpart GG	§ 60.332(a)(1) § 60.332(a)(3) § 60.332(f) § 60.332(i)	No owner or operator shall discharge into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of the amount as determined from the specified equation.	[G]§ 60.334(b) § 60.334(j) § 60.334(j)(1) [G]§ 60.334(j)(1)(iii) [G]§ 60.335(a) § 60.335(b)(2) § 60.335(b)(3)	[G]§ 60.334(b)	§ 60.334(j) § 60.334(j)(3) § 60.334(j)(5)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GT-6A	EU	60GG-GT-6A-CC	SO2	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) [G]§ 60.334(h)(3)	None	None
GT-6A	EU	60GG-GT-6A-CC	NOX	40 CFR Part 60, Subpart GG	§ 60.332(a)(1) § 60.332(a)(3)	No owner or operator shall discharge into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of the amount as determined from the specified equation.	[G]§ 60.334(b) § 60.334(j) § 60.334(j)(1) [G]§ 60.334(j)(1)(iii) [G]§ 60.335(a) § 60.335(b)(2) § 60.335(b)(3)	[G]§ 60.334(b)	§ 60.334(j) § 60.334(j)(5)
GT-6A	EU	60GG-GT-6A-SC	SO2	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) [G]§ 60.334(h)(3)	None	None
GT-6A	EU	60GG-GT-6A-SC	NOX	40 CFR Part 60, Subpart GG	§ 60.332(a)(1) § 60.332(a)(3)	No owner or operator shall discharge into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of the amount as determined from the specified equation.	[G]§ 60.334(b) § 60.334(j) § 60.334(j)(1) [G]§ 60.334(j)(1)(iii) [G]§ 60.335(a) § 60.335(b)(1) § 60.335(b)(2) § 60.335(c)(1)	[G]§ 60.334(b)	§ 60.334(j) § 60.334(j)(5)
GT-6B	EU	60GG-GT-6B-CC	SO2	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) [G]§ 60.334(h)(3)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GT-6B	EU	60GG-GT-6B-CC	NOX	40 CFR Part 60, Subpart GG	§ 60.332(a)(1) § 60.332(a)(3)	No owner or operator shall discharge into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of the amount as determined from the specified equation.	[G]§ 60.334(b) § 60.334(j) § 60.334(j)(1) [G]§ 60.334(j)(1)(iii) [G]§ 60.335(a) § 60.335(b)(2) § 60.335(b)(3)	[G]§ 60.334(b)	§ 60.334(j) § 60.334(j)(5)
GT-6B	EU	60GG-GT-6B-SC	SO2	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) [G]§ 60.334(h)(3)	None	None
GT-6B	EU	60GG-GT-6B-SC	NOX	40 CFR Part 60, Subpart GG	§ 60.332(a)(1) § 60.332(a)(3)	No owner or operator shall discharge into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of the amount as determined from the specified equation.	[G]§ 60.334(b) § 60.334(j) § 60.334(j)(1) [G]§ 60.334(j)(1)(iii) [G]§ 60.335(a) § 60.335(b)(1) § 60.335(b)(2) § 60.335(c)(1)	[G]§ 60.334(b)	§ 60.334(j) § 60.334(j)(5)
LO-1	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
LO-2	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	None
LO-3	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	None
UL-1	EU	R115C-01	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None

Additional Monitoring Requirements

Periodic Monitoring Summary..... 38

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-BOIL123	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R112-01
Pollutant: SO ₂	Main Standard: § 112.9(a)
Monitoring Information	
Indicator: Sulfur Content	
Minimum Frequency: Once per year	
Averaging Period: n/a	
Deviation Limit: < 0.7% Sulfur in fuel	
Periodic Monitoring Text: Keep a record of fuel composition. Any record which shows that the sulfur concentration is not < 0.7% shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-BSTACK4	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R111-01
Pollutant: PM (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: Maximum opacity = 15% when burning alternate fuels	
<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>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-BSTK123	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R111-01
Pollutant: PM (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: Maximum opacity = 15% when burning alternate fuels	
<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 42

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		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
CT-1467-6	N/A	30 TAC Chapter 115, Fugitives Pet Ref B Counties	Not located in Houston/Galveston/Brazoria area
CT-1467-6	N/A	40 CFR Part 61, Subpart L	Not located at coke byproduct recovery plant
CT-1467-6	N/A	40 CFR Part 63, Subpart JJJ	Not located at a Group IV polymer or resin plant
CT-1467-6	N/A	40 CFR Part 63, Subpart Q	Has not used chromium or chromium containing compounds after September 8, 1994
FIRE	N/A	30 TAC Chapter 117, Subchapter B	Not located in ozone non-attainment area.
FUG	N/A	30 TAC Chapter 115, Fugitives Pet Ref B Counties	Not at a petroleum refinery in non-attainment area
FUG	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	Not in ozone non-attainment area
FUG	N/A	40 CFR Part 60, Subpart DDD	Not at polymer manufacturing site
FUG	N/A	40 CFR Part 60, Subpart GGG	Not at a petroleum refinery
FUG	N/A	40 CFR Part 60, Subpart KKK	Not at a natural gas processing plant
FUG	N/A	40 CFR Part 60, Subpart VV	Not in SO2 service
FUG	N/A	40 CFR Part 61, Subpart F	Not in vinyl chloride service

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		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
FUG	N/A	40 CFR Part 61, Subpart J	Not in benzene service
FUG	N/A	40 CFR Part 61, Subpart V	Not in VHAP service
FUG	N/A	40 CFR Part 63, Subpart CC	Not located at petroleum refinery
FUG	N/A	40 CFR Part 63, Subpart H	Not in organic HAP service
FUG	N/A	40 CFR Part 63, Subpart HH	Not at oil or natural gas production facility
FUG	N/A	40 CFR Part 63, Subpart I	Not in organic HAP service
FUG	N/A	40 CFR Part 63, Subpart JJJ	Not located at a thermoplastic process unit
FUG	N/A	40 CFR Part 63, Subpart U	Not located at elastomer product process
GEN	N/A	30 TAC Chapter 117, Subchapter B	Not located in ozone non-attainment area.
GRP-BOIL123	B1, B2, B3	40 CFR Part 60, Subpart D	Construction commenced prior to August 17, 1971
GRP-BOIL123	B1, B2, B3	40 CFR Part 60, Subpart Da	Construction commenced prior to September 18, 1978
GRP-BOIL123	B1, B2, B3	40 CFR Part 60, Subpart Db	Construction commenced prior to June 19, 1984
GRP-BOIL4	B4DA, B4DB	40 CFR Part 60, Subpart D	Steam generating unit has a heat input rate less than 250 MMBtu/hr

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-BOIL4	B4DA, B4DB	40 CFR Part 60, Subpart Da	Construction commenced prior to September 18, 1978
GRP-BOIL4	B4DA, B4DB	40 CFR Part 60, Subpart Db	Construction commenced prior to June 19, 1984
GRP-CT	CT1, CT-1467-4, CT2, CT3	40 CFR Part 63, Subpart Q	Units have not used chromium-based treatments after September 8, 1984
GRP-TANKS	OT1, OT2, OT6	40 CFR Part 60, Subpart K	Construction commenced prior to June 11, 1973
GRP-TANKS	OT1, OT2, OT6	40 CFR Part 60, Subpart Ka	Construction commenced prior to May 18, 1978
GRP-TANKS	OT1, OT2, OT6	40 CFR Part 60, Subpart Kb	Construction commenced prior to July 23, 1984
OTD-1	N/A	30 TAC Chapter 115, Storage of VOCs	Storage tank has a storage capacity less than 1,000 gallons
OTD-2	N/A	30 TAC Chapter 115, Storage of VOCs	Storage tank has a storage capacity less than 1,000 gallons
OTD-3	N/A	30 TAC Chapter 115, Storage of VOCs	Storage tank has a storage capacity less than 1,000 gallons

New Source Review Authorization References

New Source Review Authorization References 46

New Source Review Authorization References by Emission Unit..... 47

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.: PSDTX1090	Issuance Date: 03/20/2015
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.: 114528	Issuance Date: 01/17/2014
Authorization No.: 1467	Issuance Date: 03/20/2015
Authorization No.: 45606	Issuance Date: 08/10/2012
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.227	Version No./Date: 09/04/2000
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: 03/14/1997
Number: 106.454	Version No./Date: 11/01/2001
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
B1	Unit 1 Boiler	45606
B2	Unit 2 Boiler	45606
B3	Unit 3 Boiler	45606
B4CA	Unit 4, Combustion Turbine GT-1	1467, PSDTX1090
B4CB	Unit 5, Combustion Turbine GT-2	1467, PSDTX1090
B4DA	Unit 4, GT-1 Duct Burner and HRSG	1467, PSDTX1090
B4DB	Unit 4, GT-2 Duct Burner and HRSG	1467, PSDTX1090
CT-1467-4	Cooling Tower	1467, PSDTX1090
CT-1467-6	Cooling Tower	1467, PSDTX1090
CT1	Cooling Tower	45606
CT2	Cooling Tower	45606
CT3	Cooling Tower	45606
DB-6A	Duct Burner 6A	1467, PSDTX1090
DB-6B	Duct Burner 6B	1467, PSDTX1090
DB-S4-1	Duct Burners Unit S4-1	114528
DB-S4-2	Duct Burners Unit S4-2	114528
FIRE	Firewater Pump Engine	1467, PSDTX1090
FUG	Piping Fugitives	1467, PSDTX1090

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
GEN	Emergency Generator Engine	1467, PSDTX1090
GT-6A	Combustion Turbine GT-6A	1467, PSDTX1090
GT-6B	Combustion Turbine GT-6B	1467, PSDTX1090
LO-1	Gas Turbine GT-6A Lube Oil Vent	1467, PSDTX1090
LO-2	Gas Turbine GT-6B Lube Oil Vent	1467, PSDTX1090
LO-3	Steam Turbine Lube Oil Vent	1467, PSDTX1090
OT1	Fuel Storage Tank 1 (TK1)	45606
OT2	Fuel Storage Tank 2 (TK2)	45606
OT6	Residual Oil Tank (Old TK1)	45606
OTD-1	Diesel Storage Tank 1	1467, PSDTX1090
OTD-2	Diesel Storage Tank 2	1467, PSDTX1090
OTD-3	Diesel Storage Tank 3	1467, PSDTX1090
S1	Stack, Unit 1 Boiler	45606
S2	Stack, Unit 2 Boiler	45606
S3	Stack, Unit 3 Boiler	45606
S4-1	Stack, Unit 4, Combustion Turbine and HRSG, GT-1	1467, PSDTX1090
S4-2	Stack, Unit 4, Combustion Turbine and HRSG, GT-2	1467, PSDTX1090
UL-1	Tank Truck Unloading Station for Diesel Fuel	45606

Appendix A

Acronym List50

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
COMS	.....	continuous opacity monitoring system
CVS	.....	closed-vent system
D/FW	.....	Dallas/Fort Worth (nonattainment area)
DR	.....	Designated Representative
EIP	.....	El Paso (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
GF	.....	grandfathered
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
MMBtu/hr	.....	Million British thermal units per hour
MRRT	.....	monitoring, recordkeeping, reporting, and testing
NA	.....	nonattainment
N/A	.....	not applicable
NADB	.....	National Allowance Data Base
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
PM	.....	particulate matter
ppmv	.....	parts per million by volume
PSD	.....	prevention of significant deterioration
RO	.....	Responsible Official
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..... 52

Major NSR Summary Table

Permit Number: 1467 and PSDTX1090			Issuance Date: March 20, 2015				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
S4-1	Westinghouse W501-B6 69 MW Turbine with 124 MMBtu/hr Duct Burner (11)	NOx(12)	188	674	2, 3, 4, 10, 13, 23, 24	2, 3, 10, 13, 18,19, 23, 24	2, 20
		CO(12)	840	1,665	2, 4, 10, 23, 24	2, 10,18,19, 23, 24	2, 20
		SO2	17	12	2, 4, 23, 24	2, 4, 18, 23, 24	2, 20
		VOC	12	44	2, 4, 23, 24	2, 18, 23, 24	2, 20
		PM/PM10/PM2.5	2	6	2, 4, 8, 23, 24	2, 8,18, 23, 24	2, 20
S4-2	Westinghouse W501-B6 69 MW Turbine with 124 MMBtu/hr Duct Burner(11)	NOx(12)	188	674	2, 3, 4, 10, 13, 23, 24	2, 3, 10, 13, 18,19, 23, 24	2, 20
		CO(12)	840	1,665	2, 4, 10, 23, 24	2, 10,18,19, 23, 24	2, 20
		SO2	17	12	2, 4, 23, 24	2, 4, 18, 23, 24	2, 20
		VOC	12	44	2, 4, 23, 24	2, 18, 23, 24	2, 20
		PM/PM10/PM2.5	2	6	2, 4, 8, 23, 24	2, 8,18, 23, 24	2, 20
SC-S6A	GE Frame 7EA 70 MW Turbine without Duct Burner High Load Operation (8)	NOx	174	-	2, 3, 4, 6, 12, 14, 15	2, 6,12, 14, 15, 18	2, 12, 14, 20
		CO	233	-	2, 4, 12, 14, 15	2, 12, 14, 15, 18	2, 12, 14, 20
		VOC	8	-	2, 4, 12	2, 12, 18	2, 12, 20
		PM/PM10/PM2.5	9	-	2, 4, 8,12	2, 8,12, 18	2, 12, 20
		SO2	14	-	2, 4, 12	2, 4, 12, 18	2, 12, 20
		H2SO4	2	-	2, 4, 12	2, 12, 18	2, 12, 20
SC-S6A	GE Frame 7EA 70 MW Turbine without Duct Burner Startup, Shutdown, and Low Load Operation (9)(Limited to 2,500 hours per year)	NOx	180	-	2, 3, 4, 6, 12, 14, 15, 23, 24	2, 6, 12, 14, 15, 18, 23, 24	2, 12, 14, 20
		CO	386	-	2, 4, 12, 14, 15, 23, 24	2, 12, 14, 15, 18, 23, 24	2, 12, 14, 20
		VOC	5	-	2, 4, 12, 23, 24	2, 12, 18, 23, 24	2, 12, 20

Major NSR Summary Table

Permit Number: 1467 and PSDTX1090			Issuance Date: March 20, 2015				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
		PM/PM10/PM2.5	9	-	2, 4, 8,12, 23, 24	2, 8, 12, 18, 23, 24	2, 12, 20
		SO2	14	-	2, 4, 12, 23, 24	2, 4, 12, 18, 23, 24	2, 12, 20
		H2SO4	2	-	2, 4, 12, 23, 24	2, 12, 18, 23, 24	2, 12, 20
SC-S6A	Annual Emissions from EPN SC-S6A(11)	NOx	-	283(6)	2, 3, 4, 6, 12, 14, 15	2, 6, 12, 14, 15, 18	2, 12, 14, 20
		CO	-	363	2, 4, 12, 14, 15	2, 12, 14, 15, 18	2, 12, 14, 20
		VOC	-	8	2, 4, 12	2, 12, 18	2, 12, 20
		PM/PM10/PM2.5	-	29	2, 4, 8,12	2,8,12, 18	2, 12, 20
		SO2	-	13	2, 4, 12	2, 4, 12, 18	2, 12, 20
		H2SO4	-	2	2, 4, 12	2, 12, 18	2, 12, 20
SC-S6B	GE Frame 7EA 70 MW Turbine without Duct Burner High Load Operation(8)	NOx	174	-	2, 3, 4, 6, 12, 14, 15	2, 6, 12, 14, 15, 18	2, 12, 14, 20
		CO	233	-	2, 4, 12, 14, 15	2, 12, 14, 15, 18	2, 12, 14, 20
		VOC	8	-	2, 4, 12	2, 12, 18	2, 12, 20
		PM/PM10/PM2.5	9	-	2, 4,8, 12	2, 8,12, 18	2, 12, 20
		SO2	14	-	2, 4, 12	2, 4, 12, 18	2, 12, 20
		H2SO4	2	-	2, 4, 12	2, 12, 18	2, 12, 20
SC-S6B	GE Frame 7EA 70 MW Turbine without Duct Burner Startup, Shutdown, and Low Load Operation (9)(Limited to 2,500 hours per year)	NOx	180	-	2, 3, 4, 6, 12, 14, 15, 23, 24	2, 6, 12, 14, 15, 18, 23, 24	2, 12, 14, 20
		CO	386	-	2, 4, 12, 14, 15, 23, 24	2, 12, 14, 15, 18, 23, 24	2, 12, 14, 20
		VOC	5	-	2, 4, 12, 23, 24	2, 12, 18, 23, 24	2, 12, 20
		PM/PM10/PM2.5	9	-	2, 4, 8,12, 23, 24	2, 8,12, 18, 23, 24	2, 12, 20
		SO2	14	-	2, 4, 12, 23, 24	2, 4, 12, 18, 23, 24	2, 12, 20
		H2SO4	2	-	2, 4, 12, 23, 24	2, 12, 18, 23, 24	2, 12, 20
SC-S6B	Annual Emissions from EPN SC-S6B(11)	NOx	-	283 (6)	2, 3, 4, 6, 12, 14, 15	2,6, 12, 14, 15, 18	2, 12, 14, 20

Major NSR Summary Table

Permit Number: 1467 and PSDTX1090			Issuance Date: March 20, 2015				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
		CO	-	363	2, 4, 12, 14, 15	2, 12, 14, 15, 18	2, 12, 14, 20
		VOC	-	8	2, 4, 12	2, 12, 18	2, 12, 20
		PM/PM10/PM2.5	-	29	2, 4,8, 12	2, 8,12, 18	2, 12, 20
		SO2	-	13	2, 4, 12	2, 4, 12, 18	2, 12, 20
		H2SO4	-	2	2, 4, 12	2, 12, 18	2, 12, 20
CC-S6A	GE Frame 7EA 70 MW Turbine with 285 MMBtu/hr Duct Burner High Load Operation (8)	NOx	42	-	2, 3, 4, 6, 12, 14, 15	2, 6, 12, 14, 15, 18	2, 12, 14, 20
		CO	326	-	2, 4, 12, 14, 15	2, 12, 14, 15, 18	2, 12, 14, 20
		VOC	18	-	2, 4, 12	2, 12, 18	2, 12, 20
		PM/PM10/PM2.5	15	-	2, 4, 8,12	2, 8,12, 18	2, 12, 20
		SO2	20	-	2, 4, 12	2, 4, 12, 18	2, 12, 20
		H2SO4	3.8	-	2, 4, 12	2, 12, 18	2, 12, 20
		NH3	20	-	2, 12, 7, 16	7, 16, 18	
CC-S6A	GE Frame 7EA 70 MW Turbine with 285 MMBtu/hr Duct Burner Startup, Shutdown, and Low Load Operation (9)	NOx	180	-	2, 3, 4, 6, 12, 14, 15, 23, 24	2, 6,12, 14, 15, 18, 23, 24	2, 12, 14, 20
		CO	518	-	2, 4, 12, 14, 15, 23, 24	2, 12, 14, 15, 18, 23, 24	2, 12, 14, 20
		VOC	18	-	2, 4, 12, 23, 24	2, 12, 18, 23, 24	2, 12, 20
		PM/PM10/PM2.5	15	-	2, 4, 8,12, 23, 24	2, 8,12, 18, 23, 24	2, 12, 20
		SO2	20	-	2, 4, 12, 23, 24	2, 4, 12, 18, 23, 24	2, 12, 20
		H2SO4	3.8	-	2, 4, 12, 23, 24	2, 12, 18, 23, 24	2, 12, 20
CC-S6A	Annual Emissions from EPN CC-S6A (11)	NOx	-	165 (7)	2, 3, 4, 6, 12, 14, 15	2, 6,12, 14, 15, 18	2, 12, 14, 20
		CO	-	456	2, 4, 12, 14, 15	2, 12, 14, 15, 18	2, 12, 14, 20
		VOC	-	25	2, 4, 12	2, 12, 18	2, 12, 20
		PM/PM10/PM2.5	-	38	2, 4,8, 12	2, 8,12, 18	2, 12, 20
		SO2	-	16	2, 4, 12	2, 4, 12, 18	2, 12, 20

Major NSR Summary Table

Permit Number: 1467 and PSDTX1090			Issuance Date: March 20, 2015				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
		H2SO4	-	3.1	2, 4, 12	2, 12, 18	2, 12, 20
		NH3	-	50	2, 12, 7, 16	7, 16, 18	
CC-S6B	GE Frame 7EA 70 MW Turbine with 285 MMBtu/hr Duct Burner High Load Operation(8)	NOx	42	-	2, 3, 4, 6, 12, 14, 15	2, 6, 12, 14, 15, 18	2, 12, 14, 20
		CO	326	-	2, 4, 12, 14, 15	2, 12, 14, 15, 18	2, 12, 14, 20
		VOC	18	-	2, 4, 12	2, 12, 18	2, 12, 20
		PM/PM10/PM2.5	15	-	2, 4, 8, 12	2, 8, 12, 18	2, 12, 20
		SO2	20	-	2, 4, 12	2, 4, 12, 18	2, 12, 20
		H2SO4	3.8	-	2, 4, 12	2, 12, 18	2, 12, 20
		NH3	20	-	2, 12, 7, 16	7, 16, 18	
CC-S6B	GE Frame 7EA 70 MW Turbine with 285 MMBtu/hr Duct Burner Startup, Shutdown, and Low Load Operation (9)	NOx	180	-	2, 3, 4, 6, 12, 14, 15, 23, 24	2, 6, 12, 14, 15, 18, 23, 24	2, 12, 14, 20
		CO	518	-	2, 4, 12, 14, 15, 23, 24	2, 12, 14, 15, 18, 23, 24	2, 12, 14, 20
		VOC	18	-	2, 4, 12, 23, 24	2, 12, 18, 23, 24	2, 12, 20
		PM/PM10/PM2.5	15	-	2, 4, 8, 12, 23, 24	2, 8, 12, 18, 23, 24	2, 12, 20
		SO2	20	-	2, 4, 12, 23, 24	2, 4, 12, 18, 23, 24	2, 12, 20
		H2SO4	3.8	-	2, 4, 12, 23, 24	2, 12, 18, 23, 24	2, 12, 20
CC-S6B	Annual Emissions from EPN CC-S6B (11)	NOx	-	165 (7)	2, 3, 4, 6, 12, 14, 15	2, 6, 12, 14, 15, 18	2, 12, 14, 20
		CO	-	456	2, 4, 12, 14, 15	2, 12, 14, 15, 18	2, 12, 14, 20
		VOC	-	25	2, 4, 12	2, 12, 18	2, 12, 20
		PM/PM10/PM2.5	-	38	2, 4, 8, 12	2, 8, 12, 18	2, 12, 20
		SO2	-	16	2, 4, 12	2, 4, 12, 18	2, 12, 20
		H2SO4	-	3.1	2, 4, 12	2, 12, 18	2, 12, 20
		NH3	-	50	2, 12, 7, 16	7, 16, 18	

Major NSR Summary Table

Permit Number: 1467 and PSDTX1090			Issuance Date: March 20, 2015				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
FIRE	Firewater Pump Engine	NOx	9.3	0.9	9	9, 18	
		CO	2.0	0.2	9	9, 18	
		VOC	0.8	<0.1	9	9, 18	
		PM/PM10/PM2.5	0.7	<0.1	9	9, 18	
		SO2	0.1	<0.1	9	9, 18	
		H2SO4	<0.1	<0.1	9	9, 18	
OTD-1	Diesel Storage Tank 1	VOC	<0.1	<0.1			
OTD-2	Diesel Storage Tank 2	VOC	<0.1	<0.1			
OTD-3	Diesel Storage Tank 3	VOC	<0.1	<0.1			
LO-1	Gas turbine GT-6A Lube Oil Vent	VOC	<0.1	0.2			
		PM/PM10/PM2.5	<0.1	0.2			
LO-2	Gas turbine GT-6B Lube Oil Vent	VOC	<0.1	0.2			
		PM/PM10/PM2.5	<0.1	0.2			
LO-3	Steam Turbine Lube Oil Vent	VOC	<0.1	0.2			
		PM/PM10/PM2.5	<0.1	0.2			
FUG-6	Unit 6 Piping Fugitives (10)	VOC	0.3	1.5			
		H2S	<0.1	0.1			
		NH3	0.5	2.2			
		Cl2	<0.1	0.4			
OTA-1	Ammonia Storage Tank	NH3	<0.1	0.4			
CT-1467-4	Cooling Tower 4	PM	5.94	26.04	17	17, 18	17
		PM10	0.38	1.67	17	17, 18	17
		PM2.5	0.01	0.03	17	17, 18	17
		HOCl	<0.1	<0.1	5, 17	5, 17, 18	17
CT-1467-6	Cooling Tower 6	PM	1.49	6.51	17	17, 18	17
		PM10	0.10	0.42	17	17, 18	17

Major NSR Summary Table

Permit Number: 1467 and PSDTX1090			Issuance Date: March 20, 2015				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
		PM2.5	0.002	0.01	17	17, 18	17
		HOCl	<0.1	<0.1	5, 17	5, 17, 18	17
FUG-4	Unit 4 Fugitives (10)	VOC	0.5	2.2	2, 4, 10	2,4,10, 18	
		Cl ₂	0.08	0.35	2, 4, 10,17	2, 4,10,17, 18	17
MSSFUG	MSS Fugitive Emissions (ILE) (10)	NO _x	<0.01	<0.01	21, 23, 24	18	
		CO	<0.01	<0.01	21, 23, 24	18	
		PM	<0.01	<0.01	21, 23, 24	18	
		PM ₁₀	<0.01	<0.01	21, 23, 24	18	
		PM _{2.5}	<0.01	<0.01	21, 23, 24	18	
		VOC	7.00	1.07	21, 23, 24	18	
		NH ₃	<0.01	<0.01	21, 23, 24	18	

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) NO_x total oxides of nitrogen
 CO carbon monoxide
 VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 SO₂ sulfur dioxide
 PM total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 PM₁₀ total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
 PM_{2.5} particulate matter equal to or less than 2.5 microns in diameter
 H₂SO₄ sulfuric acid
 H₂S hydrogen sulfide
 NH₃ anhydrous ammonia
 Cl₂ chlorine
 HOCl hypochlorous acid
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Inorganic compounds calculated at HOCl
- (6) For Unit 6, the annual NO_x emissions for Simple Cycle Operations assumes up to 2,500 hours of startup, shutdown, and low load operation per turbine.

- (7) For Unit 6, the annual NO_x emissions after HRSG installation is determined assuming a limitation of 2,500 hours of simple cycle operation and up to 2,500 hours of startup, shutdown, and low load operation per turbine.
- (8) High Load Operation is defined in Special Condition No. 6(A)(1).
- (9) Low Load Operation is defined in Special Condition No. 6(A)(2).
- (10) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (11) The tpy emission limit specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities.
- (12) The NO_x and CO lb/hr and tpy emission rates are authorized by Standard Permit Registration No. 114528.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
AIR QUALITY PERMIT



A Permit Is Hereby Issued To
El Paso Electric Company
Authorizing the Continued Operation of
Newman Power Station
Located at **El Paso, El Paso County, Texas**
Latitude 31° 58' 59" Longitude 106° 25' 54"

Permits: 1467 and PSDTX1090

Issuance Date : March 20, 2015

Expiration Date: March 20, 2025

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 116.116 (30 TAC 116.116)]
- 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(a), (b) and (c)]
- 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)(iii)]
- Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction; comply with any additional recordkeeping requirements specified in special conditions attached to 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)]
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 for upsets and maintenance 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, regulations, 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 a condition of "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.

Special Conditions

Permit Numbers 1467 and PSDTX1090

Emission Standards, Fuel Specifications and Work Practices

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates" (MAERT), and those sources are limited to the emission limits and other conditions specified in the attached table. The annual rates are based on any consecutive 12-month period.
2. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources. The following subparts of Title 40 Code of Federal Regulations (40 CFR) Part 60 apply:
 - A. General Conditions, Subpart A
 - B. Unit 4 (Emission Point Numbers (EPNs) S4-1 and S4-2) is subject to the applicable requirements of Subpart GG, Standards of Performance for Stationary Gas Turbines and Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units for Which Construction Is Commenced After June 19, 1984.
 - C. Unit 6 (EPNs SC-S6A, SC-S6B, CC-S6A and CC-S6B) is subject to the applicable requirements of Subpart GG, Standards of Performance for Stationary Gas Turbines. Unit 6 (EPNs CC-S6A and CC-S6B) is subject to the applicable requirements of Subpart Da, Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978.
3. NO_x Control Methods:
 - A. Water injection shall be used as needed to reduce the emissions of nitrogen oxides (NO_x) from each of the turbines in Unit 4, EPNs S4-1 and S4-2. The water injection rate shall be sufficient to meet the limitations in the MAERT.
 - B. Dry low-NO_x combustors shall be used to reduce the emissions of NO_x from both of the turbines in Unit 6, EPNs SC-S6A and SC-S6B, while operating in simple cycle mode. Selective Catalytic Reduction with ammonia (NH₃) injection will be used for NO_x reduction from the heat recovery steam generators (HRSGs) while operating the turbines or duct burners (EPNs CC-S6A and CC-S6B) in the combined cycle mode during High Load Operations, as described in Special Condition No. 6. Ammonia injection shall be sufficient to meet the NO_x emission limits in the MAERT.
 - C. For Unit 6 (EPNs CC-S6A and CC-S6B), the inlet temperature to the selective catalytic reduction (SCR) unit shall be monitored, as provided by the SCR manufacturer, to identify those periods of time when the inlet gas temperature is in the operating range for ammonia injection.

4. Fuel Sulfur Content Requirements:

- A. Fuel fired in the gas turbines and duct burners for Unit 4 shall be natural gas with a sulfur content less than or equal to 0.25 grain of hydrogen sulfide and five grains of total sulfur per 100 dry standard cubic feet.
- B. For Unit 6, the annual average sulfur content shall be less than or equal to 1.2 grains of total sulfur per 100 dry standard cubic foot.
- C. The permit holder shall monitor fuel consumption continuously for each turbine unit using a monitoring device that is accurate to $\pm 5\%$ and maintained, calibrated, and operated in accordance with the manufacturer's specifications. The certification of the monitoring device shall be in accordance with EPA approved methods and calibrated in accordance with the manufacturer's recommendations or at least annually. The permit holder shall monitor fuel consumption continuously for the following four combinations of combustion units:
 - (1) Unit 4 (GT-1) Gas Turbine including the duct burner
 - (2) Unit 4 (GT-2) Gas Turbine including the duct burner
 - (3) Unit 6 (GT-6A) Gas Turbine including duct burner DB-6A
 - (4) Unit 6 (GT-6B) Gas Turbine including duct burner DB-6B
- D. Emissions of sulfur dioxide (SO_2) shall be monitored in accordance with 40 CFR Part 75.11(e)(1) to demonstrate compliance with the maximum allowable emission rates for SO_2 .

5. Cooling Tower Chlorine System Inspections:

- A. Audio, olfactory, and visual inspection for chlorine leaks at Cooling Towers 4 and 6 shall be performed once per week.
- B. Upon detection of a leak, plant personnel shall initiate actions to commence repair or replacement of the leaking component.
- C. Date and time of each inspection shall be noted in the operator's log or equivalent. Records shall be maintained at the plant site of all repairs and replacements made due to leaks. These records shall be made available to representatives of the Texas Commission on Environmental Quality (TCEQ) or any other agency with jurisdiction upon request.

Emission Concentration Limitations

6. For Unit 6 (EPNs SC-S6A and SC-S6B and EPNs CC-S6A and CC-S6B):
 - A. The 24-hour daily-block average concentration in the stack gases for the Unit 6 combustion turbines (EPNs SC-S6A and SC-S6B) shall not exceed 9 parts per million dry (ppmvd) for NO_x, when operating at High Load in the simple cycle mode, or 3 ppmvd when operating in Steady State, High Load combined cycle mode, corrected to 15 percent oxygen (O₂).
 - (1) High Load Operations are defined as each 1-hour block when the combustion turbine operates for the entire 1-hour block in "Pre-mix" mode, as indicated by the General Electric Turbine Control System, at greater than 65% load. High Load Operations do not include periods of startup, shutdown, or operations below 65% load.
 - (2) Low Load Operations, defined as periods of startup, shutdown, and operation outside of pre-mix mode or less than or equal to 65% load are authorized, provided the emission rates specified by Special Condition No. 1 are not exceeded.
 - (3) Steady State does not include periods of operation where the load changes 10% or more at any time within any hour or any two consecutive hours.
 - B. Total Low Load Operation hours shall not exceed 2,500 hours per turbine per year.
 - C. The NO_x concentration, measured by the continuous emission monitoring system (CEMS), shall be corrected to 15 percent O₂.
7. Concentrations of NH₃ in the SCR stack shall not exceed 15 parts per million (ppm) on a three hour basis or 10 ppm on an annual average basis, corrected to 15 percent O₂.
8. Opacity from Units 4 and 6 are limited as follows:
 - A. For Unit 4 (EPNs S4-1 and S4-2), opacity of emissions from each stack shall not exceed 20 percent averaged over a six-minute period. Each determination shall be made by first observing for visible emissions while each facility is in operation. Observations shall be made at least 15 feet and no more than 0.25 mile from the emission point. If visible emissions are observed from an emission point, then the opacity shall be determined and documented within 24 hours for that emission point using 40 CFR Part 60, Appendix A, Test Method 9. Contributions from uncombined water shall not be included in determining compliance with this condition. Observations shall be performed and recorded quarterly. If the opacity exceeds 20 percent, corrective action to eliminate the source of visible emissions shall be taken promptly and documented within one week of first observation.

- B. For Unit 6 (EPNs SC-S6A & B and CC-S6A & B), opacity of emissions from each stack shall not exceed 5 percent averaged over a six-minute period, except during Low Load Operations. During Low Load Operations, the opacity shall not exceed 15 percent averaged over a six-minute period. Each determination shall be made by first observing for visible emissions while each facility is in operation. Observations shall be made at least 15 feet and no more than 0.25 mile from the emission point. If visible emissions are observed from an emission point, then the opacity shall be determined and documented within 24 hours for that emission point using 40 CFR Part 60, Appendix A, Test Method 9. Contributions from uncombined water shall not be included in determining compliance with this condition. Observations shall be performed and recorded quarterly. If the opacity exceeds 5 percent during High Load Operations, or 15 percent during Low Load Operations, corrective action to eliminate the source of visible emissions shall be taken promptly and documented within one week of first observation.
9. The Diesel Fired Firewater Pump (EPN FIRE) is authorized to fire diesel fuel containing no more than 0.05 weight percent sulfur and is limited to a maximum of 200 non-emergency hours of operation annually.
10. The requirements of Pollution Control Project Standard Permit Registration No. 114528, including, but not limited to, emissions limits, monitoring, and recordkeeping, are incorporated by reference.
11. A copy of the current version of this permit shall be kept at the plant site and made immediately available at the request of personnel from the TCEQ, EPA, or any local air pollution control agency having jurisdiction. In addition, the holder of this permit shall clearly identify all equipment at the property that has the potential of emitting air contaminants. Permitted emission points shall be clearly identified corresponding to the emission point numbering on the MAERT.

Initial Determination of Compliance for Unit 6

12. Both turbines within Unit 6 shall be tested at a low and high load of the permitted operating range that is defined in Special Condition No. 6 for the atmospheric conditions which exist during testing in compliance with applicable portions of 40 CFR Part 60. The duct burners shall be tested at their maximum firing rate while the turbine is operating as close to maximum load as possible. Each tested turbine load shall be identified in the sampling report. The permit holder shall present, at the pretest meeting, the manner in which emission source stack sampling will be conducted in order to demonstrate compliance with emission standards found in 40 CFR Part 60, Subparts A, Da and GG. Sampling must be conducted in accordance with procedures of the TCEQ Sampling Procedures Manual and in accordance with the methods specified in the applicable portions of 40 CFR Part 60. If fuel sampling is used to demonstrate compliance with the maximum allowable emission rates of SO₂ in Special Condition No. 1, it shall be based on 100 percent conversion of the sulfur in the fuel to SO₂. The

holder of this permit is responsible for providing safe and adequate sampling and testing facilities and conducting the sampling and testing operation at the applicant's expense.

- A. Testing of the turbines in simple cycle mode (EPNs SC-S6A and B) and the turbines and duct burners in combined cycle mode (EPNs CC-S6A and B) may be accomplished at different times during the continuous construction schedule.

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

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

The purpose of the pretest meeting is to review and formalize the necessary sampling and testing procedures, to review the safety and adequacy of the sampling facilities, to provide the proper data forms for recording pertinent data, to identify each operating parameter which is significant to maintaining emission compliance, and to review the format procedures for submitting the test reports.

A written proposed description of any deviation from sampling procedures specified in this permit condition or any TCEQ or EPA sampling procedure shall be made available to the TCEQ at or prior to the pretest meeting. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in Paragraph B of this condition shall be submitted to the TCEQ Air Permits Division in Austin. Test waivers and alternate or equivalent procedure proposals for New Source Performance Standard testing which must have the EPA approval shall be submitted to the TCEQ Air Permits Division in Austin.

- B. At least one turbine from Unit 6 shall be tested for VOC, PM₁₀, SO₂ and H₂SO₄. Testing for these air contaminants shall be performed concurrently and while operating as close to maximum load as possible for the atmospheric conditions occurring during the test. Ammonia need not be sampled until startup of the duct burners. This testing will be used to demonstrate initial compliance with Special Condition Nos. 1 and 6.

- C. For VOC, PM₁₀, SO₂ and H₂SO₄, if the sampling of one turbine per unit demonstrates compliance, this sampling shall be deemed sufficient to represent emission rates from similar turbines within that unit operating under the same conditions. If the turbine tested exceeds any applicable emission limit of this permit then the other shall be tested for the pollutants which exceeded their respective limits. Additional sampling shall occur as may be required by the TCEQ.
- D. Within 60 days after the completion of the testing and sampling required herein, copies of the sampling report shall be distributed as follows:
 - (1) One copy to the TCEQ El Paso Regional Office.
 - (2) One copy to EPA Region 6 in Dallas.
- E. Deadlines for testing and reporting may be extended upon showing of good cause to the TCEQ El Paso Regional Office.

Continuous Demonstration of Compliance for Unit 4

- 13. For each turbine stack in Unit 4, the holder of this permit shall install, calibrate, maintain, and operate a CEMS in accordance with 40 CFR Part 75 to demonstrate compliance with the maximum allowable emission rates for NO_x, as indicated in Special Condition Nos. 1 and 10. Except for system breakdowns, repairs, calibration checks and zero and span adjustments required, all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements. During any period of CEMS unavailability lasting longer than two hours (except for calibrations and routine maintenance), the holder of this permit shall maintain the water injection rate established by testing performed for the initial demonstration of compliance and shall demonstrate compliance by recording the water injection flow rate and unit load.

Continuous Demonstration of Compliance for Unit 6

- 14. For each turbine or heat recovery steam generator stack in Unit 6 (EPN SC-S6A and B; and CC-S6A and B) the holder of this permit shall install, calibrate, maintain, and operate a CEMS to measure and record the concentrations of NO_x, CO and diluent gases [O₂ or carbon dioxide (CO₂)].
 - A. The CEMS noted above shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B, or an acceptable alternative. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Air Permits Division for requirements to be met. The CEMS

shall meet the applicable quality-assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1, or an acceptable alternative.

- B. The monitoring concentration data shall be reduced to hourly average values at least once every day, using a minimum of four equally-spaced data points from each one hour period. At least two valid data points shall be generated during the hourly period in which zero and span is performed.
 - C. 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.
 - D. The TCEQ El Paso Regional Office shall be notified at least 21 days prior to any required relative accuracy test audit in order to provide that office the opportunity to observe the testing.
 - E. If applicable, the CEMS for the turbines/duct burner stacks may 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 requirements of 40 CFR Part 75, Appendix A and B, respectively, are deemed an acceptable alternative to the performance specifications and quality assurance requirements of 40 CFR Part 60 for the NO_x and O₂ or CO₂ CEMS.
15. The holder of this permit shall calculate hourly mass emissions in pounds per hour (lb/hr) using the EPA Reference Method 19 or a measured exhaust flow rate and the measured concentrations of NO_x and CO from the CEMS required in Special Condition No. 14. Emissions shall be calculated and stored in an electronic format in pounds per hour, pounds per month and tons per year (based on any consecutive 12-month period). Records of this information shall also be available in a form suitable for inspection.
16. The NH₃ concentration in each HRSG exhaust stack in Unit 6 (EPNs CC-S6A and B) shall be tested or calculated according to one of the methods listed below and shall be tested or calculated according to frequency listed below. Testing for NH₃ slip is only required when the SCR unit is in operation.
- A. The holder of this permit may install, calibrate, maintain, and operate a CEMS to measure and record the concentrations of NH₃. The NH₃ concentrations shall be corrected and reported in accordance with Special Condition No. 7.
 - B. As an approved alternative, the NH₃ slip may be measured using a sorbent or stain tube device specific for NH₃ measurement in the 2 to 30 ppm range. The frequency of sorbent or stain tube testing shall be at least one test per day for the first 60 days of operation, after which, the frequency may be reduced to at least one test per week. These results shall be recorded and used to determine compliance with Special Condition No. 7. Test results may consist of the average of three or more measurements.

- C. As an approved alternative to sorbent or stain tube testing or an NH₃ CEMS, the permit holder may install and operate a second NO_x CEMS probe located between the duct burners and the SCR, upstream of the stack NO_x CEMS, which may be used in association with the SCR efficiency and NH₃ injection rate to estimate NH₃ slip. This condition shall not be construed to set a minimum NO_x reduction efficiency on the SCR unit. These results shall be recorded and used to determine compliance with Special Condition No. 7.
- D. As an approved alternative to sorbent or stain tube testing, NH₃ CEMS, or a second NO_x CEMS, the permit holder may install and operate a dual stream system of NO_x CEMS at the exit of the SCR. One of the exhaust streams would be routed, in an unconverted state, to one NO_x CEMS, and the other exhaust stream would be routed through a NH₃ converter to convert NH₃ to NO_x and then to a second NO_x CEMS. The NH₃ slip concentration shall be calculated from the difference between the two NO_x CEMS readings (converted and unconverted). These results shall be recorded and used to determine compliance with Special Condition No. 7.
- E. Any other method used for measuring NH₃ slip shall require prior approval from the TCEQ Air Permits Division.

Continuous Determination of Compliance for Cooling Towers

- 17. The Cooling Towers (EPN CT-1467-4 and CT-1467-6) shall not exceed a total dissolved solids (TDS) concentration of 9,000 parts per million by weight (ppmw) or mg/l as demonstrated based on measurements required by this Special Condition.
 - A. A conservative default conversion factor of 0.80 (conductivity to TDS) may be used initially until a site specific demonstrated value is determined.
 - B. The holder of this permit shall perform sampling to establish the conductivity to TDS conversion factor that shall be used by the permit holder to demonstrate compliance in accordance with Special Condition No. 17. A cooling water sample shall be collected monthly in each of the three calendar months following the start of the increase in TDS in the cooling water to 9,000 ppmw. In addition, a conductivity and TDS analysis shall be performed in accordance with "Standard Methods for the Examination of Water and Wastewater" Method 2510 (Conductivity) and Method 2540 (Solids) or EPA approved methods. An average conversion factor and standard deviation based on the three values shall be determined from the cooling water sample results.
 - C. Within 45 days after completion of the sampling, copies of the sampling report shall be submitted to the TCEQ El Paso Regional Office.
 - D. Continuous compliance with the lb/hr and TPY particulate matter emission rates for the Cooling Towers in the MAERT shall be demonstrated by the holder of this

permit by monitoring the conductivity of the cooling water at a monitoring point in the recirculating water of each cooling tower, and recording these conductivity readings on a no less than monthly basis. Each conductivity measurement shall be converted to TDS concentration in ppmw or mg/l using the conductivity to TDS conversion factor established in accordance with Special Condition No. 17B.

- E. The monitoring data required by this special condition shall be kept for at least five years from the date monitoring is done, and the data shall be made available upon request to the EPA or TCEQ personnel.

Recordkeeping Requirements

- 18. The following information shall be made and maintained by the holder of this permit for a period of five years and shall be made available on request to representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction:
 - A. The Unit 4 and 6 CEMS data records required by Special Condition Nos. 13 and 14 to demonstrate compliance with the NO_x limitations, including any periods of CEMS downtime with reason for failure and corrective action.
 - B. For Unit 4, water injection rates and turbine load records which are required by Special Condition Nos. 3A and 13.
 - C. The starting time and duration of all periods of duct burner firing for Units 4 and 6.
 - D. A log shall be kept to demonstrate compliance with the total Low Load annual operating hours for Unit 6, as noted in Special Condition No. 6.
 - E. The SCR inlet temperature, during periods of SCR startup.
 - F. Date and description of any routine, planned maintenance on the turbines or duct burners for Units 4 and 6.
 - G. Cooling Tower records shall include:
 - (1) The cooling tower ID with the monitoring point for the cooling tower recirculating water.
 - (2) The date and time of the monthly monitoring.
 - (3) The monthly measured conductivity and the equivalent TDS in parts per million or mg/l in the recirculating water of the cooling tower.
 - (4) Monthly records of the circulation rates for each cooling tower.

- H. Records of natural gas consumption and fuel sulfur content (as provided by the fuel suppliers) to demonstrate compliance with Special Condition No. 4.
 - I. Records of diesel fuel use and the hours of operation of the firewater pump engine to show compliance with Special Condition No. 9.
 - J. Records of visible emission/opacity observations and corrective actions taken as specified in Special Condition No. 8.
 - K. Records of planned maintenance, startup, and shutdown (MSS) activities as specified in Special Condition Nos. 23-24 and Attachment A, including the date, time, and duration of those activities, and emissions from those activities.
19. A copy of the current version of Pollution Control Project Standard Permit Registration No. 114528 shall be kept at the plant site and made immediately available at the request of personnel from the TCEQ, EPA, or any local air pollution control agency having jurisdiction.

Reporting

20. Reports of periods of excess emissions, periods of CEMS downtime (downtime for this report shall not include daily calibration checks and routine maintenance not exceeding two hours), and periods during CEMS downtime when the water injection system fails to maintain the required water injection rate for the turbine load, shall be submitted semi-annually to the TCEQ El Paso Regional Office and the El Paso City-County Health District.

Maintenance, Startup, and Shutdown

21. This permit authorizes the emissions from the planned MSS activities listed in Attachment A and the MAERT, and these activities are limited to the emission limits specified on the MAERT. Attachment A identifies the inherently low emitting (ILE) planned maintenance activities that this permit authorizes to be performed.
22. The holder of this permit shall minimize emissions during planned MSS activities by operating the facility and associated air pollution control equipment in accordance with good air pollution control practices, safe operating practices, and protection of the facility.
23. Turbine combustion optimization maintenance activities associated with Unit 4 (EPNs S4-1 and S4-2) and Unit 6 (EPNs SC-S6A and SC-S6B and EPNs CC-S6A and CC-S6B) are authorized, which includes leak and operability checks (e.g., turbine over-speed tests, troubleshooting), balancing, and tuning activities that occur during seasonal tuning, a combustor change-out, a major repair, maintenance to a combustor, or other similar circumstances. Combustion optimization maintenance activities shall not exceed eight hours per event.

24. Emissions during planned MSS activities will be minimized by limiting the duration of operation in planned startup and shutdown mode as follows:
- A. Unit 4 (EPNs S4-1 and S4-2)
 - (1) A planned startup of the electric generating facilities (EGFs) with EPNs S4-1 and S4-2 is defined as the period that begins when an initial flame detection signal is recorded in the plant's Data Acquisition System (DAS) and ends when the water injection system has been online for at least 15 minutes and the turbine reaches an output of 15 megawatts (MW). A planned startup is limited to 480 minutes per event.
 - (2) A planned shutdown of the EGFs with EPNs S4-1 and S4-2 is defined as the period that begins when the water injection system goes offline and the turbine output drops below 55 MW and ends when a flame detection signal is no longer recorded in the DAS. A planned shutdown for each EGF is limited to 180 minutes per event.
 - B. Unit 6 Simple Cycle (EPNs SC-S6A and SC-S6B)
 - (1) A planned startup of the electric generating facilities (EGFs) with EPNs SC-S6A and SC-S6B is defined as the period that begins when an initial flame detection signal is recorded in the plant's DAS and ends when the DAS detects "pre-mix" signal for the combustion turbine. A planned startup is limited to 480 minutes per event.
 - (2) A planned shutdown of the EGFs with EPNs SC-S6A and SC-S6B is defined as the period that begins when the DAS no longer provides the "pre-mix" signal for the combustion turbine and output continues to drop until the DAS detects a "flame off" signal. A planned shutdown ends when a flame detection signal is no longer recorded in the DAS. A planned shutdown for each EGF is limited to 180 minutes per event.
 - C. Unit 6 Combined Cycle (EPNs CC-S6A and CC-S6B)
 - (1) A planned startup of the electric generating facilities (EGFs) with EPNs CC-S6A and CC-S6B is defined as the period that begins when an initial flame detection signal is recorded in the plant's DAS and ends when the ammonia injection system has been online for at least 15 minutes and the DAS detects "pre-mix" signal for the combustion turbine. A planned startup is limited to 480 minutes per event.
 - (2) A planned shutdown of the EGFs with EPNs CC-S6A and CC-S6B is defined as the period that begins when the DAS no longer provides the "pre-mix" signal for the combustion turbine, the ammonia injection system has gone offline, and output continues to drop until the DAS detects a "flame off" signal. A planned shutdown ends when a flame

detection signal is no longer recorded in the DAS. A planned shutdown for each EGF is limited to 180 minutes per event.

25. Compliance with the emissions limits for planned MSS activities identified in the MAERT attached to this permit shall be demonstrated as follows. The permit holder shall annually confirm the continued validity of the estimated potential to emit represented in the permit application for all ILE planned maintenance activities. The total emissions from all ILE planned maintenance activities (see Attachment A) shall be considered to be no more than the estimated potential to emit for those activities that are represented in the permit application.
26. With the exception of the emission limits in the MAERT attached to this permit, the permit conditions relating to planned MSS activities do not become effective until 180 days after issuance of the permit amendment that added such conditions.

General Requirements

27. The following facilities are authorized by permits by rule (PBR) under Title 30 Texas Administrative Code Chapter 106. These authorizations are listed here for reference purposes only.

Facilities	PBR Authorization
Brazing, Soldering, Welding	§ 106.227
Routine Maintenance, Startup, and Shutdown of Facilities and Temporary Maintenance Facilities	§ 106.263
Handheld and Manually Operated Machines	§ 106.265
Surface Coating	§ 106.433
Abrasive Blasting, Outdoor	§ 106.452
Solvent Cleaning, Parts Degreaser	§ 106.454
Portable and Emergency Engines (operating fewer than 876 hours per year)	§ 106.511
Sludge Management	§ 106.532

Date: March 20, 2015

Attachment A
 Permit Numbers 1467 and PSDTX1090
 Inherently Low Emitting (ILE) Planned Maintenance Activities

ILE Planned Maintenance Activities	Emissions				
	NH ₃	VOC	NO _x	CO	PM
Air intake filter maintenance ¹					x
Gaseous fuel venting ²		x			
Sludge management		x			
Ammonia system component change-out	x				
Condensate removal from natural gas line knockout		x			
Small equipment maintenance - high vapor pressure VOC ³		x			
Condenser cleaning		x			
Lube oil system		x			
CEMS calibration			x	x	

Notes:

1. Includes, but is not limited to, combustion turbine air intake filters.
2. Includes, but is not limited to, venting prior to pipeline pigging, and meter proving.
3. Includes, but is not limited to, (i) repair/replacement of pumps, compressors, valves, pipes, flanges, transport lines, filters and screens in natural gas, fuel oil, diesel oil, ammonia, lube oil, and gasoline service, and (ii) vehicle and mobile equipment maintenance that may involve small VOC emissions, such as oil changes, transmission service, and hydraulic system service.

Date: March 20, 2015

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 1467 and PSDTX1090

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

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
Unit 4				
S4-1	Westinghouse W501-B6 69 MW Turbine with 124 MMBtu/hr Duct Burner (11)	NO _x (12)	188	674
		CO (12)	840	1,665
		SO ₂	17	12
		VOC	12	44
		PM/PM ₁₀ / PM _{2.5}	2	6
S4-2	Westinghouse W501-B6 69 MW Turbine with 124 MMBtu/hr Duct Burner (11)	NO _x (12)	188	674
		CO (12)	840	1,665
		SO ₂	17	12
		VOC	12	44
		PM/PM ₁₀ / PM _{2.5}	2	6
Unit 6 Simple Cycle				
SC-S6A	GE Frame 7EA 70 MW Turbine without Duct Burner High Load Operation (8)	NO _x	174	-
		CO	233	-
		VOC	8	-
		PM/PM ₁₀ / PM _{2.5}	9	-
		SO ₂	14	-
		H ₂ SO ₄	2	-

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SC-S6A	GE Frame 7EA 70 MW Turbine without Duct Burner Startup, Shutdown, and Low Load Operation (9) (Limited to 2,500 hours per year)	NO _x	180	-
		CO	386	-
		VOC	5	-
		PM/PM ₁₀ / PM _{2.5}	9	-
		SO ₂	14	-
		H ₂ SO ₄	2	-
SC-S6A	Annual Emissions from EPN SC-S6A (11)	NO _x	-	283 (6)
		CO	-	363
		VOC	-	8
		PM/PM ₁₀ / PM _{2.5}	-	29
		SO ₂	-	13
		H ₂ SO ₄	-	2
SC-S6B	GE Frame 7EA 70 MW Turbine without Duct Burner High Load Operation (8)	NO _x	174	-
		CO	233	-
		VOC	8	-
		PM/PM ₁₀ / PM _{2.5}	9	-
		SO ₂	14	-
		H ₂ SO ₄	2	-
SC-S6B	GE Frame 7EA 70 MW Turbine without Duct Burner Startup, Shutdown, and Low Load Operation (9) (Limited to 2,500 hours per year)	NO _x	180	-
		CO	386	-
		VOC	5	-
		PM/PM ₁₀ / PM _{2.5}	9	-
		SO ₂	14	-
		H ₂ SO ₄	2	-

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SC-S6B	Annual Emissions from EPN SC-S6B (11)	NO _x	-	283 (6)
		CO	-	363
		VOC	-	8
		PM/PM ₁₀ / PM _{2.5}	-	29
		SO ₂	-	13
		H ₂ SO ₄	-	2
Unit 6 Combine Cycle				
CC-S6A	GE Frame 7EA 70 MW Turbine with 285 MMBtu/hr Duct Burner High Load Operation (8)	NO _x	42	-
		CO	326	-
		VOC	18	-
		PM/PM ₁₀ / PM _{2.5}	15	-
		SO ₂	20	-
		H ₂ SO ₄	3.8	-
		NH ₃	20	-
CC-S6A	GE Frame 7EA 70 MW Turbine with 285 MMBtu/hr Duct Burner Startup, Shutdown, and Low Load Operation (9)	NO _x	180	-
		CO	518	-
		VOC	18	-
		PM/PM ₁₀ / PM _{2.5}	15	-
		SO ₂	20	-
		H ₂ SO ₄	3.8	-

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
CC-S6A	Annual Emissions from EPN CC-S6A (11)	NO _x	-	165 (7)
		CO	-	456
		VOC	-	25
		PM/PM ₁₀ / PM _{2.5}	-	38
		SO ₂	-	16
		H ₂ SO ₄	-	3.1
		NH ₃	-	50
CC-S6B	GE Frame 7EA 70 MW Turbine with 285 MMBtu/hr Duct Burner High Load Operation (8)	NO _x	42	-
		CO	326	-
		VOC	18	-
		PM/PM ₁₀ / PM _{2.5}	15	-
		SO ₂	20	-
		H ₂ SO ₄	3.8	-
		NH ₃	20	-
CC-S6B	GE Frame 7EA 70 MW Turbine with 285 MMBtu/hr Duct Burner Startup, Shutdown, and Low Load Operation (9)	NO _x	180	-
		CO	518	-
		VOC	18	-
		PM/PM ₁₀ / PM _{2.5}	15	-
		SO ₂	20	-
		H ₂ SO ₄	3.8	-

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
CC-S6B	Annual Emissions from EPN CC-S6B (11)	NO _x	-	165 (7)
		CO	-	456
		VOC	-	25
		PM/PM ₁₀ / PM _{2.5}	-	38
		SO ₂	-	16
		H ₂ SO ₄	-	3.1
		NH ₃	-	50
FIRE	Firewater Pump Engine	NO _x	9.3	0.9
		CO	2.0	0.2
		VOC	0.8	<0.1
		PM/PM ₁₀ / PM _{2.5}	0.7	<0.1
		SO ₂	0.1	<0.1
		H ₂ SO ₄	<0.1	<0.1
OTD-1	Diesel Storage Tank 1	VOC	<0.1	<0.1
OTD-2	Diesel Storage Tank 2	VOC	<0.1	<0.1
OTD-3	Diesel Storage Tank 3	VOC	<0.1	<0.1
LO-1	Gas Turbine GT-6A Lube Oil Vent	VOC	<0.1	0.2
		PM/PM ₁₀ / PM _{2.5}	<0.1	0.2
LO-2	Gas Turbine GT-6B Lube Oil Vent	VOC	<0.1	0.2
		PM/PM ₁₀ / PM _{2.5}	<0.1	0.2
LO-3	Steam Turbine Lube Oil Vent	VOC	<0.1	0.2
		PM/PM ₁₀ / PM _{2.5}	<0.1	0.2

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
FUG-6	Unit 6 Piping Fugitives (10)	VOC	0.3	1.5
		H ₂ S	<0.1	0.1
		NH ₃	0.5	2.2
		Cl ₂	<0.1	0.4
OTA-1	Ammonia Storage Tank 1	NH ₃	<0.1	0.4
CT-1467-4	Cooling Tower 4	PM	5.94	26.04
		PM ₁₀	0.38	1.67
		PM _{2.5}	0.01	0.03
		HOCl (5)	<0.1	<0.1
CT-1467-6	Cooling Tower 6	PM	1.49	6.51
		PM ₁₀	0.10	0.42
		PM _{2.5}	0.002	0.01
		HOCl (5)	<0.1	<0.1
FUG-4	Unit 4 Fugitives (10)	VOC	0.5	2.2
		Cl ₂	0.08	0.35
MSSFUG	MSS Fugitive Emissions (ILE) (10)	NO _x	<0.01	<0.01
		CO	<0.01	<0.01
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		VOC	7.00	1.07
		NH ₃	<0.01	<0.01

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

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

Emission Sources - Maximum Allowable Emission Rates

- (3) NO_x - total oxides of nitrogen
- CO - carbon monoxide
- VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- H₂SO₄ - sulfuric acid
- H₂S - hydrogen sulfide
- NH₃ - anhydrous ammonia
- Cl₂ - chlorine
- HOCl - hypochlorous acid
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Inorganic compounds calculated at HOCl.
- (6) For Unit 6, the annual NO_x emissions for Simple Cycle Operations assumes up to 2,500 hours of startup, shutdown, and low load operation per turbine.
- (7) For Unit 6, the annual NO_x emissions after HRSG installation is determined assuming a limitation of 2,500 hours of simple cycle operation and up to 2,500 hours of startup, shutdown, and low load operation per turbine.
- (8) High Load Operation is defined in Special Condition No. 6(A)(1).
- (9) Low Load Operation is defined in Special Condition No. 6(A)(2).
- (10) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (11) The tpy emission limit specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities.
- (12) The NO_x and CO lb/hr and tpy emission rates are authorized by Standard Permit Registration No. 114528.

Date: March 20, 2015