

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

Golden Spread Electric Cooperative, Inc.

AUTHORIZING THE OPERATION OF

Mustang Station  
Electric Services

LOCATED AT

Yoakum County, Texas

Latitude 32° 58' 22" Longitude 102° 44' 30"

Regulated Entity Number: RN101286433

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:   O1777   Issuance Date: \_\_\_\_\_

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For the Commission

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## **General Terms and Conditions**

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

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

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

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

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

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

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

- C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
  - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
  - E. Emission units subject to 40 CFR Part 63, Subparts ZZZZ and DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 and § 113.1130 which incorporates the 40 CFR Part 63 Subparts by reference.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
  - B. Title 30 TAC § 101.3 (relating to Circumvention)
  - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
  - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
  - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
  - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
  - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
  - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
  - I. Title 30 TAC § 101.222 (relating to Demonstrations)
  - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1 , shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
- (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
  - (ii) Title 30 TAC § 111.111(a)(1)(E)
  - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
  - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
    - (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
    - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

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

on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.
- B. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- C. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
  - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
  - (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)
  - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- 4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
  - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
  - B. Title 40 CFR § 60.8 (relating to Performance Tests)
  - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
  - D. Title 40 CFR § 60.12 (relating to Circumvention)
  - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
  - F. Title 40 CFR § 60.14 (relating to Modification)

- G. Title 40 CFR § 60.15 (relating to Reconstruction)
  - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
5. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

### **Additional Monitoring Requirements**

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

### **New Source Review Authorization Requirements**

7. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
- A. Are incorporated by reference into this permit as applicable requirements
  - B. Shall be located with this operating permit
  - C. Are not eligible for a permit shield
8. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
9. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or

Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, material safety data sheets (MSDS), 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.

- A. If applicable, monitoring of control device performance or general work practice standards shall be made in accordance with the TCEQ Periodic Monitoring Guidance document.
- B. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

### **Compliance Requirements**

- 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 Discrete Emission Credits to comply with the applicable requirements:
  - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) If applicable, offsets for Title 30 TAC Chapter 116
    - (iv) Temporarily exceed state NSR permit allowables
  - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)

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

### **Protection of Stratospheric Ozone**

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

### **Temporary Fuel Shortages (30 TAC § 112.15)**

- 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.

## **Acid Rain Permit Requirements**

15. For units CT-1 and CT-2 (identified in the Certificate of Representation as units 1 and 2), located at the affected source identified by ORIS/Facility code 55065, 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 SO<sub>2</sub> and NO<sub>x</sub> 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. SO<sub>2</sub> 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 SO<sub>2</sub>.
- (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 SO<sub>2</sub> for the previous calendar year.
- (iii) Each ton of SO<sub>2</sub> emitted in excess of the acid rain emissions limitations for SO<sub>2</sub> 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 SO<sub>2</sub> 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 SO<sub>2</sub> 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<sub>x</sub> 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<sub>x</sub> under 40 CFR Part 76.

E. Excess emissions requirements for SO<sub>2</sub> and NO<sub>x</sub>.

- (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<sub>x</sub> 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 SO<sub>2</sub> allowances allocated by the EPA in 40 CFR Part 73 is enforceable only by the EPA Administrator.

## Clean Air Interstate Rule Permit Requirements

16. For units CT-1 and CT-2 (identified in the Certificate of Representation as units 1 and 2), located at the site identified by ORIS/Facility code 55065, 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<sub>x</sub> and the CAIR SO<sub>2</sub> 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<sub>x</sub> and the CAIR SO<sub>2</sub> 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<sub>x</sub> source and each CAIR NO<sub>x</sub> 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 SO<sub>2</sub> source and each CAIR SO<sub>2</sub> 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<sub>x</sub> source with the CAIR NO<sub>x</sub> 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 SO<sub>2</sub> source with the CAIR SO<sub>2</sub> emissions limitation.

C. NO<sub>x</sub> emissions requirements

- (i) As of the allowance transfer deadline for a control period, the owners and operators of the CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall hold, in the source's compliance account, CAIR NO<sub>x</sub> 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<sub>x</sub> units at the source, as determined in accordance with the requirements of 40 CFR Part 96, Subpart HH.
- (ii) A CAIR NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> allowance was allocated.
- (iv) CAIR NO<sub>x</sub> allowances shall be held in, deducted from or transferred into or among CAIR NO<sub>x</sub> Allowance Tracking System accounts in accordance with the requirements of 40 CFR Part 96, Subpart FF or Subpart GG.
- (v) A CAIR NO<sub>x</sub> allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO<sub>x</sub> Annual Trading Program. No provision of the CAIR NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> allowance to or from a CAIR NO<sub>x</sub> unit's compliance account is incorporated automatically in this CAIR permit.

D. NO<sub>x</sub> excess emissions requirement

- (i) If a CAIR NO<sub>x</sub> source emits nitrogen oxides during any control period in excess of the CAIR NO<sub>x</sub> emissions limitation, the owners and operators of the source and each CAIR NO<sub>x</sub> unit at the source shall surrender the CAIR NO<sub>x</sub> 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. SO<sub>2</sub> emissions requirements

- (i) As of the allowance transfer deadline for a control period, the owners and operators of the CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall hold, in the source's compliance account, CAIR SO<sub>2</sub> 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 SO<sub>2</sub> units at the source, as determined in accordance with the requirements of 40 CFR Part 96, Subpart HHH.
- (ii) A CAIR SO<sub>2</sub> 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 SO<sub>2</sub> 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 SO<sub>2</sub> allowance was allocated.
- (iv) CAIR SO<sub>2</sub> allowances shall be held in, deducted from, or transferred into or among CAIR SO<sub>2</sub> Allowance Tracking System accounts in accordance with the requirements of 40 CFR Part 96, Subpart FFF or Subpart GGG.
- (v) A CAIR SO<sub>2</sub> allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO<sub>2</sub> Trading Program. No provision of the CAIR SO<sub>2</sub> 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 SO<sub>2</sub> 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 SO<sub>2</sub> allowance to or from a CAIR SO<sub>2</sub> unit's compliance account is incorporated automatically in this CAIR permit.

F. SO<sub>2</sub> excess emissions requirements

- (i) If a CAIR SO<sub>2</sub> source emits sulfur dioxides during any control period in excess of the CAIR SO<sub>2</sub> emissions limitation, the owners and operators of the source and each CAIR SO<sub>2</sub> unit at the source shall surrender the CAIR SO<sub>2</sub> 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<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source and the CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> 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<sub>x</sub> designated representative for the source and each CAIR NO<sub>x</sub> unit and the CAIR SO<sub>2</sub> designated representative for the source and each CAIR SO<sub>2</sub> 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<sub>x</sub> Annual Trading Program and CAIR SO<sub>2</sub> 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<sub>x</sub> Annual Trading Program and CAIR SO<sub>2</sub> Trading Program or to demonstrate compliance with the requirements of the CAIR NO<sub>x</sub> Annual Trading Program and CAIR SO<sub>2</sub> Trading Program.
- (ii) The CAIR designated representative of a CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source and a CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall submit the reports required under the CAIR NO<sub>x</sub> Annual Trading Program and the CAIR SO<sub>2</sub> Trading Program including those under 40 CFR Part 96, Subpart HH and Subpart HHH.
- H. The CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit shall meet the requirements of the CAIR NO<sub>x</sub> Annual Trading Program contained in 40 CFR Part 96, Subparts AA through II.
- I. The CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit shall meet the requirements of the CAIR SO<sub>2</sub> Trading Program contained in 40 CFR Part 96, Subparts AAA through III.
- J. Any provision of the CAIR NO<sub>x</sub> Annual Trading Program and the CAIR SO<sub>2</sub> Trading Program that applies to a CAIR NO<sub>x</sub> source or CAIR SO<sub>2</sub> source or the CAIR designated representative of a CAIR NO<sub>x</sub> source or CAIR SO<sub>2</sub> 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<sub>x</sub> Annual Trading Program and the CAIR SO<sub>2</sub> Trading Program that applies to a CAIR NO<sub>x</sub> unit or CAIR SO<sub>2</sub> unit or the CAIR designated representative of a CAIR NO<sub>x</sub> unit or CAIR SO<sub>2</sub> unit shall also apply to the owners and operators of such unit.
- L. No provision of the CAIR NO<sub>x</sub> Annual Trading Program, CAIR SO<sub>2</sub> 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<sub>x</sub> source or CAIR NO<sub>x</sub> unit or a CAIR SO<sub>2</sub> source or CAIR SO<sub>2</sub> 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**

**New Source Review Authorization References**

## **Applicable Requirements Summary**

**Unit Summary ..... 21**

**Applicable Requirements Summary ..... 22**

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
FGH	Process Heaters/Furnaces	N/A	63DDDDD	40 CFR Part 63, Subpart DDDDD	No changing attributes.
FWPUMP	SRIC Engines	N/A	63ZZZZ-2	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRPBYPASS	Emission Points/Stationary Vents/Process Vents	BYPASS-1, BYPASS-2	1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRPCT	Stationary Turbines	CT-1, CT-2	1	40 CFR Part 60, Subpart GG	No changing attributes.
GRPDUCT	Boilers/Steam Generators/Steam Generating Units	DUCT-1, DUCT-2	1	40 CFR Part 60, Subpart Db	No changing attributes.
GRPHRSG	Emission Points/Stationary Vents/Process Vents	HRSG-1, HRSG-2	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FGH	EU	63DDDDD	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
FWPUMP	EU	63ZZZZ-2	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ
GRPBYPASS	EP	1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRPCT	EU	1	SO <sub>2</sub>	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)
GRPCT	EU	1	NO <sub>x</sub>	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)
GRPDUCT	EU	1	SO <sub>2</sub>	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)
GRPDUCT	EU	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)
GRPDUCT	EU	1	PM (Opacity)	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPDUCT	EU	1	NO <sub>x</sub>	40 CFR Part 60, Subpart Db	§ 60.44b(l)(1) § 60.44b(h) § 60.44b(i) § 60.46b(a) § 60.48b(h)	Affected facilities combusting coal, oil, or natural gas, or a mixture of these fuels, or any other fuels: a limit of 86 ng/JI (0.20 lb/million Btu) heat input unless the affected facility meets the specified requirements.	§ 60.46b(c) § 60.46b(f) [G]§ 60.46b(f)(1)	[G]§ 60.49b(d) § 60.49b(o) [G]§ 60.49b(p)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b)
GRPHRSG	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

**Additional Monitoring Requirements**

**Periodic Monitoring Summary..... 26**

## Periodic Monitoring Summary

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

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRPHRSG	
Control Device ID No.: N/A	Control Device Type: N/A
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
<b>Monitoring Information</b>	
Indicator: Fuel Type	
Minimum Frequency: Annually	
Averaging Period: n/a	
Deviation Limit: Facility uses pipeline quality natural gas only	
Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, it shall be considered and reported as a deviation.	

**New Source Review Authorization References**

**New Source Review Authorization References ..... 29**

**New Source Review Authorization References by Emission Unit..... 30**

## 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.

<b>Prevention of Significant Deterioration (PSD) Permits</b>	
PSD Permit No.: PSDTX875	Issuance Date: 11/26/2012
<b>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.</b>	
Authorization No.: 32881	Issuance Date: 11/26/2012
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 106.102	Version No./Date: 09/04/2000
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000

### New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
BYPASS-1	Bypass Stack 1	32881, PSDTX875
BYPASS-2	Bypass Stack 2	32881, PSDTX875
CT-1	Combustion Turbine 1	32881, PSDTX875
CT-2	Combustion Turbine 2	32881, PSDTX875
DUCT-1	Duct Burner 1	32881, PSDTX875
DUCT-2	Duct Burner 2	32881, PSDTX875
FGH	Fuel Gas Heater	106.183/09/04/2000
FWPUMP	Firewater Pump Diesel Engine	106.511/09/04/2000
HRSG-1	Heat Recovery Steam Generator 1	32881, PSDTX875
HRSG-2	Heat Recovery Steam Generator 2	32881, PSDTX875

**Appendix A**

**Acronym List ..... 32**

## 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
ELP	.....	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 <sub>2</sub> 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 <sub>x</sub>	.....	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 <sub>2</sub>	.....	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..... 34**

## Major NSR Summary Table

Permit Number: 32881/PSDTX875		Issuance Date: 11/26/2012					
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.
BYPASS-1	Combustion Turbine 174.2 MW General Electric Frame 7FA	NOx	99.0 (308.5)	509.0	10, 11, 12, 13, 14, 15, 16	10, 12, 13, 14, 16, 18, 19	10, 12, 13, 20, 21, 22
		CO	53.2 (95.9)	248.4	11, 12, 13, 14, 15, 16	12, 13, 14, 16, 18, 19	12, 13, 20, 21, 22
		SO2	26.7 (96.3)	142.0	8, 10, 11, 12, 16, 17	10, 12, 16, 18, 19	10, 12, 20, 21
		VOC	12.7 (12.9)	55.7	11, 12, 16	12, 16, 18, 19	12
		PM10 (front-half only)	9.0 (17.5)	42.5	9, 11, 12, 16	12, 16, 18, 19	12
		PM10 (front & back half)	18.0 (34.0)	84.6	9, 11, 12, 16	12, 16, 18, 19	12
BYPASS-2	Combustion Turbine 174.2 MW General Electric Frame 7FA	NOx	99.0 (308.5)	509.0	10, 11, 12, 13, 14, 15, 16	10, 12, 13, 14, 16, 18, 19	10, 12, 13, 20, 21, 22
		CO	53.2 (95.9)	248.4	11, 12, 13, 14, 15, 16	12, 13, 14, 16, 18, 19	12, 13, 20, 21, 22
		SO2	26.7 (96.3)	142.0	8, 10, 11, 12, 16, 17	10, 12, 16, 18, 19	10, 12, 20, 21
		VOC	12.7 (12.9)	55.7	11, 12, 16	12, 16, 18, 19	12
		PM10 (front-half only)	9.0 (17.5)	42.5	9, 11, 12, 16	12, 16, 18, 19	12
		PM10 (front & back half)	18.0 (34.0)	84.6	9, 11, 12, 16	12, 16, 18, 19	12
HRSG-1	Combustion Turbine 174.2 MW General Electric Frame 7FA and Heat Recovery Steam Generator 325.0 MM Btu/hr	NOx	132.5 (342.0)	655.8	10, 11, 12, 13, 14, 15, 16	10, 12, 13, 14, 16, 18, 19	10, 12, 13, 20, 21, 22
		CO	96.2 (136.1)	435.7	11, 12, 13, 14, 15, 16	12, 13, 14, 16, 18, 19	12, 13, 20, 21, 22
		SO2	31.8 (101.4)	164.3	8, 10, 11, 12, 16, 17	10, 12, 16, 18, 19	10, 12, 20, 21
		VOC	32.8 (33.0)	143.7	11, 12, 16	12, 16, 18, 19	12
		PM10 (front-half only)	13.1 (21.6)	60.4	9, 10, 11, 12, 16	10, 12, 16, 18, 19	10, 12, 20

Permit Number: 32881/PSDTX875			Issuance Date: 11/26/2012				
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.
		PM10 (front & back half)	22.1 (38.1)	102.6	9, 10, 11, 12, 16	10, 12, 16, 18, 19	10, 12, 20
HRSG-2	Combustion Turbine 174.2 MW General Electric Frame 7FA and Heat Recovery Steam Generator 325.0 MM Btu/hr	NOx	132.5 (342.0)	655.8	10, 11, 12, 13, 14, 15, 16	10, 12, 13, 14, 16, 18, 19	10, 12, 13, 20, 21, 22
		CO	96.2 (136.1)	435.7	11, 12, 13, 14, 15, 16	12, 13, 14, 16, 18, 19	12, 13, 20, 21, 22
		SO2	31.8 (101.4)	164.3	8, 10, 11, 12, 16, 17	10, 12, 16, 18, 19	10, 12, 20, 21
		VOC	32.8 (33.0)	143.7	11, 12, 16	12, 16, 18, 19	12
		PM10 (front-half only)	13.1 (21.6)	60.4	9, 10, 11, 12, 16	10, 12, 16, 18, 19	10, 12, 20
		PM10 (front & back half)	22.1 (38.1)	102.6	9, 10, 11, 12, 16	10, 12, 16, 18, 19	10, 12, 20
TANK-1	Distillate Fuel Oil Storage Tank 650,000 gallon capacity	VOC	3.27	0.25		19	

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 source3 name.
- (3) Air contaminant name:
  - a. NOx – total oxides of nitrogen
  - b. CO – carbon monoxide
  - c. SO<sub>2</sub> – sulfur dioxide
  - d. VOC – volatile organic compounds as defined in General Rule 101.1
  - e. PM10 – particulate matter less than microns. It shall be assumed that no particulate matter greater than 10 microns in diameter is emitted.
- (4) The allowable emission rates for the heat recover steam generator duct burners (i.e. the HRSG duct burner contribution total combined-cycle allowables) shall be computed by multiplying the maximum heat input capacity for each unit (325 MM Btu/hr) times the emission factors listed in Special Condition No. 7.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule: 24 Hrs/day 7 Days/week 52 Weeks/yr or 8760

Hrs/year  
Hourly emission rate limits are listed for distinct turbine fuel-usage modes: natural gas firing and distillate fuel oil firing (in parentheses). Distillate fuel oil firing is limited to 720 hours per rolling 12-month period.

\*\* Annual emission rate limits listed on the table are based on the turbines firing natural gas for 8,040 hours per year and fuel oil for the remainder of the year (720 hours).

Bryan W. Shaw, Ph.D., *Chairman*  
Carlos Rubinstein, *Commissioner*  
Toby Baker, *Commissioner*  
Zak Covar, *Executive Director*



**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**  
*Protecting Texas by Reducing and Preventing Pollution*

November 26, 2012

MR JEFF PIPPIN  
SENIOR ASSET MANAGER, PRODUCTION  
GOLDEN SPREAD ELECTRIC COOPERATIVE INC  
PO BOX 9898  
AMARILLO, TEXAS 79105-5898

**RECEIVED**  
NOV 29 2012

Re: Transfer of Ownership  
Customer Number: CN602663387

Dear MR. PIPPIN:

Thank you for the letter received November 20, 2012, notifying us of the ownership change. Your letter states that Golden Spread Electric Cooperative, Inc. is now the Owner and Operator of the facilities listed below. The following air authorizations have been updated to reflect the transfers.

<b>Regulated Entity Number</b>	<b>Account Number</b>	<b>Permit/Reg. Number</b>	<b>Permit/Reg. Expiration Date</b>	<b>Previous Permittee/Registrant</b>
RN101286433	YA-0225-A	32881	May 2, 2017	Denver City Energy Assoc. LP
RN101286433	YA-0225-A	54135	NA	GS Electric Generating Cooperative Inc.
RN101286433	YA-0225-A	PSDTX875	NA	GS Electric Generating Cooperative Inc.
RN101286433	YA-0225-A	94507	NA	GSE & DCE Tenants in Common
RN105862510	NA	91644	February 2, 2020	Antelope Electric Generating Cooperative Inc.
RN104333521	YA-A001-A	72579	January 10, 2015	Yoakum Electric Generating Cooperative Inc.
RN104333521	YA-A001-A	PSDTX1080	NA	Golden Spread Electric Cooperative Inc.
RN104333521	YA-A001-A	99691	April 11, 2022	Yoakum Electric Generating Cooperative Inc.

We understand that there will be no change in the type of pollutants emitted and no increase in the quantity of emissions. As the new permittee of the facility, you have committed to maintain compliance with all air quality regulations of the Texas Commission on Environmental Quality and the requirements of this permit at all times.

Page 2  
November 26, 2012

Re: Transfer of Ownership

Thank you for informing us of this ownership change. If you have any questions regarding this letter, please feel free to contact me at (512) 239-1326.

Sincerely,



Sandra Young  
Air Permits Initial Review Team (MC-161)  
Air Permits Division  
Texas Commission on Environmental Quality

cc: Air Section Manager, Region 2 - Lubbock  
Mr. Mark Chambers, Industrial Emissions Assessment Section (MC-164), Austin  
TCEQ Central Records (MC-198)

Kathleen Hartnett White, *Chairman*  
Larry R. Soward, *Commissioner*  
H. S. Buddy Garcia, *Commissioner*  
Glenn Shankle, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

May 2, 2007

MR FRED BARBER  
GENERAL MANAGER  
DENVER CITY ENERGY ASSOCIATES LP  
PO BOX 1210  
DENVER CITY TX 79323-1210

Re: Permit Renewal  
Permit Number: 32881  
Mustang Station  
Denver City, Yoakum County  
Regulated Entity Number: RN101286433  
Customer Reference Number: CN602718124  
Account Number: YA-0225-A

Dear Mr. Barber:

This is in response to your application Form PI-1R (General Application for Air Permit Renewals) concerning the proposed renewal of Permit Number 32881.

As indicated in Title 30 Texas Administrative Code § 116.314(a), and based on our review, your permit is hereby renewed. Since you certified there were no changes to your existing permit, it is renewed as written and will be in effect for ten years from the date of approval (Commission's final decision). Please attach this letter to your permit. We appreciate your careful review of the special conditions of the permit and assuring that all requirements are consistently met.

Also, you are reminded that acceptance of this permit constitutes acknowledgment and agreement that you will comply with all rules, regulations, and orders of the Commission issued in conformity with the Texas Clean Air Act and the conditions precedent to the granting of the permit. If more than one state 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.

You may file a **motion to overturn** with the Chief Clerk. A motion to overturn is a request for the Commission to review the Texas Commission on Environmental Quality (TCEQ) Executive Director's approval of the application. Any motion must explain why the Commission should review the TCEQ Executive Director's action.

Mr. Fred Barber

Page 2

May 2, 2007

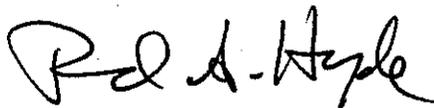
Re: Permit Number 32881

A motion to overturn must be received by the Chief Clerk within 23 days after the date of this letter. An original and 11 copies of a motion must be filed with the Chief Clerk in person or by mail. The Chief Clerk's mailing address is Office of the Chief Clerk (MC-105), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. On the same day the motion is transmitted to the Chief Clerk, please provide copies to Mr. Robert Martinez, Director, Environmental Law Division (MC-173), and Mr. Blas J. Coy, Jr., Public Interest Counsel (MC-103), both at the same TCEQ address above. If a motion is not acted on by the Commission within 45 days after the date of this letter, then the motion shall be deemed overruled.

Thank you for your cooperation in sending us the information necessary to evaluate your operations and for your commitment to air pollution control. If you need further information or have any questions, please contact Mr. Joe Bryan at (512) 239-5358 or write to the Texas Commission on Environmental Quality, Office of Permitting, Remediation, and Registration, Air Permits Division (MC-163), P.O. Box 13087, Austin, Texas 78711-3087.

This action is taken under authority delegated by the Executive Director of the TCEQ.

Sincerely,



Richard A. Hyde, P.E., Director  
Air Permits Division  
Office of Permitting, Remediation, and Registration  
Texas Commission on Environmental Quality

RAH/JB/skm

cc: Air Section Manager, Region 2 - Lubbock

Project Number: 126923

Barry R. McBee, *Chairman*  
R. B. "Ralph" Marquez, *Commissioner*  
John M. Baker, *Commissioner*  
Dan Pearson, *Executive Director*



## TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

*Protecting Texas by Reducing and Preventing Pollution*

December 23, 1997

Mr. Robert W. Bryant  
President  
GS Electric Generating Cooperative, Inc.  
905 South Fillmore  
Suite 220  
P.O. Box 9898  
Amarillo, Texas 79105

RECEIVED  
JAN 02 1998

Re: Permit Amendment  
Permit No. 32881/PSD-TX-875  
GSE & DCE, Tenants In Common  
Mustang Station  
Denver City, Yoakum County  
Account ID No. YA-0225-A

Golden Spread Electric Coop.

Dear Mr. Bryant:

This is in response to Mr. Blake Wheatley's letter dated October 23, 1997 and permit application, Form PI-1, concerning the proposed amendment to Permit No. 32881/PSD-TX-875. We understand that you have decided upon the use of two General Electric Model MS7231FA Combustion Turbines at the Mustang Station. We further understand that the proposed combustor design for these turbines has changed and, as a result, you have requested an increase in the nitrogen oxides and carbon monoxide allowable emission rates for the permitted equipment. Other changes you are requesting are the deletion of the diesel-fired electric generators and emergency steam generator from the permit. Also, this will acknowledge that your application for the above-referenced permit was technically complete as of December 18, 1997.

Pursuant to 30 TAC Section 116.116(b) and §116.160, Permit No. 32881 is hereby amended and PSD-TX-875 is modified. This information will be incorporated into the existing permit files. Enclosed are revised special conditions and maximum allowable emission rates table (MAERT) for the combined permits. Please replace the special conditions and MAERT currently attached to your permit with those enclosed.

Mr. Robert W. Bryant

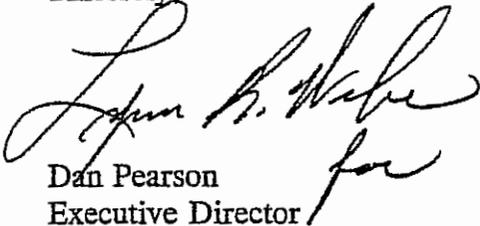
Page 2

December 23, 1997

Re: Permit No. 32881

Your cooperation in this matter is appreciated. If you have further questions, please contact Mr. Angel Tomasino of our Office of Air Quality, New Source Review Permits Division at (512) 239-1593.

Sincerely,

A handwritten signature in cursive script, appearing to read "Dan Pearson".

Dan Pearson  
Executive Director

Texas Natural Resource Conservation Commission

DP/AT/bg

Enclosures

cc: Ms. Jole Luehrs, Chief, New Source Review Section (6PD-R), Environmental Protection Agency, Region 6, Dallas  
Mr. Joe Bragg, P.E., Air Program Manager, Lubbock

# TEXAS NATURAL RESOURCE CONSERVATION COMMISSION



## AIR QUALITY PERMIT - GENERAL CONDITIONS

### AND PERTINENT RULES EFFECTIVE FOR PERMITS ISSUED OR AMENDED ON OR AFTER AUGUST 16, 1994

1. The 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 Executive Director of the Texas Natural Resource Conservation Commission (TNRCC or Commission) to amend this permit in that regard and such amendment is approved. (Title 30 Texas Administrative Code [TAC] Chapter 116, Section 116.116)
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of date of issuance, discontinues construction for more than 18 consecutive months prior to completion, or fails to complete construction within a reasonable time. Upon request, the Executive Director may grant a onetime 18-month extension of the date to begin construction. (30 TAC 116.115(b)(1))
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the TNRCC not later than 15 working days after occurrence of the event. (30 TAC 116.115(b)(2))
4. **Start-up Notification.** The appropriate Air Program regional office of the Commission 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 TNRCC may be present. Phased construction, which may involve a series of units commencing operations at different times, shall provide separate notification for the commencement of operations for each unit. (30 TAC 116.115(b)(3))
5. **Sampling Requirements.** If sampling of stacks or process vents is required, the permit holder shall contact the TNRCC Office of Air Quality 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)(4))
6. **Equivalency of Methods.** It shall be the responsibility of the permit holder to 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)(5))
7. **Recordkeeping.** A copy of the permit along with information and data sufficient to demonstrate compliance with the permit shall be maintained in a file at the plant site and made available at the request of personnel from the TNRCC or any air pollution control program having jurisdiction. For facilities that normally operate unattended, this information shall be maintained at the nearest staffed location within Texas specified by the permit holder in the permit application. This information shall include, but is not limited to, production records and operating hours. Additional recordkeeping requirements may be specified in special conditions attached to the permit. Information in the file shall be retained for at least two years following the date that the information or data is obtained. (30 TAC 116.115(b)(6))
8. **Maximum allowable emission rates.** The total emissions of air contaminants from any of the sources of emissions listed in the table entitled "Emission Sources - Maximum Allowable Emission Rates" shall not exceed the values stated on the table attached to the permit. (30 TAC 116.115(b)(7))
9. **Maintenance of Emission Control.** The facilities covered by the permit 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. Notification for upsets and maintenance shall be made in accordance with §101.6 and §101.7 of this title (relating to Notification Requirements for Major Upset and Notification Requirements for Maintenance). (30 TAC 116.115(b)(8))
10. **Compliance with Rules.** Acceptance of a permit by a permit applicant constitutes an acknowledgement and agreement that the holder will comply with all rules, regulations, and orders of the Commission issued in conformity with the Texas Clean Air Act and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition are applicable, then 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)(9))
11. This permit may be appealed pursuant to 30 TAC Chapter 50, Section 39.
12. This permit may not be transferred, assigned or conveyed by the holder except as provided by rule. (30 TAC 116.110(c))
13. 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))
14. Emissions from this facility must not cause or contribute to a condition of "air pollution" as defined in Section 382.003(3) of the Texas Clean Air Act (TCAA) or violate Section 382.085 of the TCAA. 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.

## SPECIAL CONDITIONS

Permit No. 32881/PSD-TX-875

### EMISSION LIMITATIONS AND OPERATING SPECIFICATIONS

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission limits and other conditions specified in the attached table. The annual rates are based on a rolling 12-month period.

For the purposes of these permit conditions, the combustion turbines (CTs) are designated as Emission Point Nos. (EPNs) BYPASS-1 and BYPASS-2, although they may exhaust via Heat Recovery Steam Generators (HRSGs) (EPNs HRSG-1 and HRSG-2) when in combined cycle operation.

2. Fuel for the CTs (EPNs BYPASS-1 and BYPASS-2) and HRSGs (EPNs HRSG-1 and HRSG-2) shall be limited to pipeline-quality natural gas containing no more than 5.0 grains total sulfur per 100 dry standard cubic feet. Distillate fuel oil containing no more than 0.05 percent by weight sulfur may be fired in the turbines for backup purposes, but shall be limited to 720 hours of usage per 12-month period.
3. The CTs shall employ water injection for the control of nitrogen oxides ( $\text{NO}_x$ ) while firing fuel oil.
4. Water or steam injection may be utilized to augment the power generating capability of each CT.
5. Emissions of  $\text{NO}_x$  from the CTs shall not exceed 15 parts per million by volume dry basis (ppmvd) when corrected to 15 percent oxygen ( $\text{O}_2$ ), without correction to ISO conditions, when firing natural gas at any load with or without power augmentation. Emissions of  $\text{NO}_x$  while firing fuel oil shall not exceed 42 ppmvd when corrected to 15 percent  $\text{O}_2$ , without correction to ISO conditions, at any load.

Emissions of carbon monoxide (CO) from the CTs shall not exceed 15 ppmvd when corrected to 15 percent  $\text{O}_2$  when firing natural gas, at full load, without power augmentation.

The limits in this condition shall apply except during periods of start-up or shutdown.

6. The HRSG duct burners shall each be limited to a maximum heat input capacity of 325 MMBtu/hr. The heat input shall be calculated based on the higher heating value of the fuel.

7. Emissions from the HRSG duct burners shall not exceed the following limits in pounds per million British Thermal Units (lb/MMBtu), based on the higher heating value of the fuel.

<u>Pollutant</u>	<u>Emission Limit (lb/MMBtu)</u>
NO <sub>x</sub>	0.10
CO	0.12
SO <sub>2</sub>	0.0152
VOC	0.06
PM <sub>10</sub>	0.0123

8. Upon request by the Executive Director of the Texas Natural Resource Conservation Commission (TNRCC) or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuels fired in the CTs and HRSG duct burners, or shall allow air pollution control agency representatives to obtain a sample for analysis.
9. Opacity of emissions from EPNs BYPASS-1, BYPASS-2, HRSG-1, and HRSG-2 shall not exceed 5 percent averaged over a six-minute period, except during periods of start-up or shutdown. During periods when the turbines are firing fuel oil, the opacity limitation shall be 10 percent as described in this condition. The opacity shall be determined by Environmental Protection Agency (EPA) Reference Method No. 9.

#### FEDERAL APPLICABILITY

10. These facilities shall comply with applicable requirements of the EPA Regulations on Standards of Performance for New Stationary Sources, Title 40 Code of Federal Regulations Part 60 (40 CFR 60), promulgated for:
- A. General Conditions, Subpart A.
  - B. The HRSG Duct Burners are subject to the requirements of Subpart Da, Standards of Performance for Electric Utility Steam Generating Units.
  - C. The CTs are subject to the requirements of Subpart GG, Standards of Performance for Stationary Gas Turbines.

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

SPECIAL CONDITIONS

Permit No. 32881/PSD-TX-875

Page 3

INITIAL DETERMINATION OF COMPLIANCE

11. Sampling ports and platforms shall be incorporated into the design of the BYPASS and HRSG exhaust stacks according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities." Alternate sampling facility designs may be submitted for approval by the TNRCC Regional Manager or the Manager of the TNRCC Engineering Services Team.
12. The holder of this permit shall perform stack sampling and other testing as required to establish the actual quantities of air contaminants being emitted into the atmosphere from EPNs BYPASS-1, BYPASS-2, HRSG-1, and HRSG-2. Sampling shall be conducted in accordance with the appropriate procedures of the TNRCC Sampling Procedures Manual and in accordance with the appropriate EPA Reference Methods 201A and 202 or Reference Method 5, modified to include back-half condensibles, for the concentration of particulate matter less than 10 microns in diameter ( $PM_{10}$ ); Reference Method 8 or Reference Methods 6 or 6c for sulfur dioxide ( $SO_2$ ); Reference Method 9 for opacity (consisting of 30 six-minute readings as provided in 40 CFR 60.11[b]); Reference Method 10 for the concentration of CO; Reference Method 25A, modified to exclude methane and ethane, for the concentration of volatile organic compounds (VOC) (to measure total carbon as propane); and Reference Method 20 for the concentrations of  $NO_x$  and  $O_2$  or equivalent methods.

Fuel sampling using the methods and procedures of 40 CFR 60.335(d) may be conducted in lieu of stack sampling for  $SO_2$ . If fuel sampling is used, compliance with New Source Performance Standards (NSPS) Subpart GG,  $SO_2$  limits shall be based on 100 percent conversion of the sulfur in the fuel to  $SO_2$ . Any deviations from those procedures must be approved by the Executive Director of the TNRCC prior to sampling. The TNRCC Executive Director or his designated representative shall be afforded the opportunity to observe all such sampling.

The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.

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

The notice shall include:

- (1) Date for pretest meeting.
- (2) Date sampling will occur.

SPECIAL CONDITIONS

Permit No. 32881/PSD-TX-875

Page 4

- (3) Name of firm conducting sampling.
- (4) Type of sampling equipment to be used.
- (5) Method or procedure to be used in sampling.
- (6) Procedure used to determine turbine loads during and after the sampling period.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports. A written proposed description of any deviation from sampling procedures specified in permit conditions, TNRCC, or EPA sampling procedures shall be made available to the TNRCC prior to the pretest meeting. The TNRCC Regional Manager or the Manager of the TNRCC Engineering Services Team shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in this condition shall be submitted to the TNRCC New Source Review Permits Division. Test waivers and alternate/equivalent procedure proposals for NSPS testing which must have EPA approval shall be submitted to the TNRCC Austin Enforcement Division, Air Section, Engineering Services Team.

- B. Air emissions from the CTs (duct burners off) shall be tested while firing at full load for the ambient conditions at the time of testing. Air contaminants to be sampled and analyzed while at full load include (but are not limited to) NO<sub>x</sub>, O<sub>2</sub>, CO, VOC, SO<sub>2</sub>, PM<sub>10</sub>, and opacity. (Fuel sampling using the methods and procedures of 40 CFR 60.335[d] may be conducted in lieu of stack sampling for SO<sub>2</sub>).

Full load sampling of all contaminants listed in the above paragraph shall be performed for both fuel firing scenarios: natural gas and fuel oil. If available, power augmentation shall be employed during sampling when firing natural gas to achieve the maximum load on the turbines.

- C. Air emissions from the CTs (duct burners off) shall be tested while firing at partial load. Contaminants for which partial load-sampling is required shall be sampled at the load predicted to have the highest emission rate for each individual contaminant, per information obtained from the turbine manufacturer. Each tested load shall be identified in the sampling report.

Air contaminants to be sampled and analyzed while at partial load include (but are not limited to) NO<sub>x</sub>, O<sub>2</sub>, CO, VOC, SO<sub>2</sub>, PM<sub>10</sub>, and opacity. (Fuel sampling using the methods and procedures of 40 CFR 60.335[d] may be conducted in lieu of stack sampling for SO<sub>2</sub>).

SPECIAL CONDITIONS

Permit No. 32881/PSD-TX-875

Page 5

Partial load-sampling of all contaminants listed in the above paragraph shall be performed when firing fuel oil. Only NO<sub>x</sub> and CO sampling need be performed during natural gas firing at partial load.

- D. Air emissions from the HRSG duct burners shall be tested while firing the duct burners at the highest level allowed considering the ambient conditions at the time of testing. Air contaminants to be sampled and analyzed include (but are not limited to) NO<sub>x</sub>, O<sub>2</sub>, CO, VOC, SO<sub>2</sub>, PM<sub>10</sub>, and opacity. (Fuel sampling using the methods and procedures of 40 CFR 60.335[d] may be conducted in lieu of stack sampling for SO<sub>2</sub>).

The HRSG duct burner emissions shall be calculated as the remainder of emissions when subtracting the combined cycle operation stack emissions with the duct burners out of service from the combined cycle operation stack emissions with the duct burners in service. The turbines must be operating at a maximum rate for the ambient conditions and shall be fired with natural gas, power augmentation mode during this stack testing. For the purposes demonstrating initial compliance, emissions from the duct burners shall not exceed the limits in Special Conditions No. 6 and 7.

- E. Sampling of each CT and HRSG duct burner shall occur within 60 days after achieving the maximum production rate at which each CT and HRSG duct burner will be operated but no later than 120 days after initial start-up of each unit. Additional sampling shall occur as may be required by the TNRCC or EPA.
- F. Within 60 days after the completion of the testing and sampling required herein, three copies of the sampling report(s) shall be distributed as follows:

One copy to the TNRCC Lubbock Regional Office.

One copy to the TNRCC Austin Office of Air Quality, New Source Review Permits Division.

One copy to the EPA Region 6 Office, Dallas.

CONTINUOUS DETERMINATION OF COMPLIANCE FOR CO and NO<sub>x</sub>

13. The holder of this permit shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) to measure and record the concentrations of NO<sub>x</sub>, CO, and O<sub>2</sub> at the CT and HRSG Stacks (EPNs BYPASS-1, BYPASS-2, HRSG-1, and HRSG-2). The CEMS at EPNs BYPASS-1 and BYPASS-2 shall be fully operational within 120 days of initial start-up of the combustion turbines. The CEMS at EPNs HRSG-1 and HRSG-2 shall be fully operational within 120 days of initial start-up of the HRSG duct burners. Both stacks associated with a particular CT (BYPASS and HRSG) may be monitored by the same CEMS.

SPECIAL CONDITIONS

Permit No. 32881/PSD-TX-875

Page 6

- A. Monitored NO<sub>x</sub> and CO concentrations shall be corrected and reported in dimensional units corresponding to the emission rate and concentration limits established for the CTs and HRSGs in this permit.
  - B. The CEMS shall meet the applicable quality-assurance requirements specified in 40 CFR 60, Appendix F, Procedure 1. Relative accuracy exceedances, as specified in 40 CFR 60, Appendix F, Section 5.2.3 and any CEMS downtime shall be reported to the appropriate TNRCC Regional Manager, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TNRCC Regional Manager.
  - C. The monitoring data shall be reduced to hourly average values at least once everyday, using a minimum of four equally-spaced data points from each one-hour period. Two valid data points shall be generated during the hourly period in which zero and span is performed.
  - D. All monitoring data and quality-assurance data shall be maintained by the source for a period of two years and shall be made available to the TNRCC Executive Director or his designated representative upon request. The data from the CEMS may, at the discretion of the TNRCC, be used to determine compliance with the conditions of this permit. Hourly average concentrations from EPNs BYPASS-1, BYPASS-2, HRSG-1, and HRSG-2 shall be summed to tons per year and used to determine compliance with the emission limits of this permit.
  - E. The appropriate TNRCC Regional Office shall be notified at least 30 days prior to any required relative accuracy test audit in order to provide them the opportunity to observe the testing.
  - F. If applicable, the CEMS will be required to meet the design and performance specifications, pass the field tests and meet the installation requirements and data analysis and reporting requirements specified in the applicable performance specifications in 40 CFR 75, Appendix A.
14. During periods in which the CEMS is unable to produce a valid average concentration, hourly emissions will be calculated in accordance with applicable data substitution procedures to demonstrate compliance with emission limits listed in the maximum allowable emission rates table (MAERT).

## SPECIAL CONDITIONS

Permit No. 32881/PSD-TX-875

Page 7

15. If any emission monitor fails to meet specified performance, it shall be repaired or replaced immediately, but no later than seven days after it was first detected by any employee at the facility, unless written permission is obtained from the TNRCC which allows for a longer repair/replacement time. The holder of this permit shall develop an operation and maintenance program (including stocking necessary spare parts) to ensure that the continuous monitors are available as required.
16. The holder of this permit shall additionally install, calibrate, maintain, and operate continuous monitoring systems to monitor and record the average hourly fuel consumption of the CTs and the average hourly fuel consumption of the HRSG duct burners. The systems shall be accurate to  $\pm 5.0$  percent of the units maximum flow.
17. The holder of this permit shall monitor the fuels fired in the equipment authorized by this permit for fuel-bound sulfur as specified in 40 CFR 60.334(b). Any request for a custom monitoring schedule shall be made in writing and directed to the Executive Director of the TNRCC, although authority for granting such custom schedules remains with the EPA. Any custom schedule approved by EPA pursuant to 40 CFR 60.334(b) will be recognized as enforceable conditions of this permit provided that the holder of this permit demonstrates that the conditions of such custom schedule will be adequate to demonstrate continuous compliance with Special Conditions No. 1 and 2.

## RECORDKEEPING REQUIREMENTS

18. The following records shall be kept at the plant for the life of the permit. All records required in this permit shall be made available at the request of personnel from the TNRCC, EPA, or any air pollution control agency with jurisdiction.
  - A. A copy of this permit.
  - B. Permit application dated December 20, 1996 and subsequent permit amendment or alteration applications.
  - C. A complete copy of the testing reports and records of the initial performance testing completed pursuant to Special Condition No. 12 to demonstrate initial compliance.
  - D. Stack sampling results or other testing (other than CEMS data) that may be conducted on units authorized under this permit after the date of issuance of this permit.

## SPECIAL CONDITIONS

Permit No. 32881/PSD-TX-875

Page 8

19. The following information shall be maintained by the holder of this permit in a form suitable for inspection for a period of two years after collection and shall be made immediately available upon request to representatives of the TNRCC, EPA, or any local air pollution control program having jurisdiction:
  - A. The CEMS data of NO<sub>x</sub> and CO emissions from the CT and HRSG exhaust stacks to demonstrate compliance with Special Conditions No. 1, 5, and 7.
  - B. Raw data files of all CEMS data including calibration checks and adjustments and maintenance performed on these systems in a permanent form suitable for inspection.
  - C. Records of the hours of operation and average daily quantity of natural gas and fuel oil fired in the CTs and HRSG duct burners.
  - D. Records of the hours of operation of the two emergency diesel-fired electric generators and the emergency steam generator.
  - E. Records of the net annual throughput (gallons per year) for the distillate fuel oil storage tank.

## REPORTING

20. The holder of this permit shall submit to the TNRCC Lubbock Regional Office, the TNRCC Office of Air Quality Compliance Section in Austin, and the Air Enforcement Branch of EPA in Dallas quarterly reports as described in 40 CFR 60.7. Such reports are required for each emission unit which is required to be continuously monitored pursuant to this permit. In addition to the information specified in 40 CFR 60.7(c), each report shall contain the hours of operation of the equipment authorized by this permit and a report summary of the periods of noncomplying emissions and CEMS down times by cause.
21. For the purposes of reporting pursuant to Special Condition No. 20, noncomplying emissions from equipment authorized by this permit shall be defined as follows:
  - A. Noncomplying emissions of NO<sub>x</sub> or CO shall be defined as each one-hour period of operation, except during start-up or shutdown, during which the average emissions as measured and recorded by the CEMS exceed any emission limitation specified by this permit.
  - B. Noncomplying annual emissions shall be defined as a 12-month calendar period during which the 12-month cumulative emissions exceeds the annual limits specified in the MAERT of this permit.

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- C. Noncomplying emissions of  $\text{SO}_2$  shall be defined as emissions resulting from firing fuel which is found to contain sulfur in excess of the limits of Special Condition No. 2 or which indicates exceedance of the  $\text{SO}_2$  limitation specified in Special Condition No. 1, based on 100 percent conversion of the sulfur in the fuel to  $\text{SO}_2$ .
22. If the average  $\text{NO}_x$  or CO stack outlet emission rate exceeds the maximum allowable emissions rate for more than one hour, the holder of this permit shall investigate and determine the reason for the exceedance and, if needed, make necessary repairs and/or adjustments as soon as possible.

If the  $\text{NO}_x$  or CO emission rate exceeds the emission rate in the MAERT for more than 24 hours, the permit holder shall notify the TNRCC Regional Office either verbally or with a written report detailing the cause of the increase in emissions and all efforts being made to correct the problem.

Dated December 23, 1997

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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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. 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)	<u>Emission Rates *</u>	
			lb/hr	TPY

#### SIMPLE CYCLE MODE

BYPASS-1	Combustion Turbine 174.2 MW General Electric Frame 7FA	NO <sub>x</sub>	99.0	(308.5)	509.0	
		CO	53.2	(95.9)	248.4	
		SO <sub>2</sub>	26.7	(96.3)	142.0	
		VOC	12.7	(12.9)	55.7	
		PM <sub>10</sub>	9.0	(17.5)	42.5	
		(front-half only)				
		PM <sub>10</sub> (front and back-half)	18.0	(34.0)	84.6	
BYPASS-2	Combustion Turbine 174.2 MW General Electric Frame 7FA	NO <sub>x</sub>	99.0	(308.5)	509.0	
		CO	53.2	(95.9)	248.4	
		SO <sub>2</sub>	26.7	(96.3)	142.0	
		VOC	12.7	(12.9)	55.7	
		PM <sub>10</sub>	9.0	(17.5)	42.5	
		(front-half only)				
		PM <sub>10</sub> (front and back-half)	18.0	(34.0)	84.6	

#### COMBINED CYCLE MODE

HRSG-1	Combustion Turbine 174.2 MW General Electric Frame 7FA and Heat Recovery Steam Generator 325.0 MMBtu/hr	NO <sub>x</sub>	132.5	(342.0)	655.8
		CO	96.2	(136.1)	435.7
		SO <sub>2</sub>	31.8	(101.4)	164.3
		VOC	32.8	(33.0)	143.7
		PM <sub>10</sub>	13.1	(21.6)	60.4
		(front-half only)			
	PM <sub>10</sub> (front and back-half)	22.1	(38.1)	102.6	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		
			lb/hr	TPY	
HRSG-2	Combustion Turbine 174.2 MW	NO <sub>x</sub>	132.5	(342.0)	655.8
		CO	96.2	(136.1)	435.7
	General Electric Frame 7FA and Heat Recovery Steam Generator 325.0 MMBtu/hr	SO <sub>2</sub>	31.8	(101.4)	164.3
		VOC	32.8	(33.0)	143.7
		PM <sub>10</sub> (front-half only)	13.1	(21.6)	60.4
		PM <sub>10</sub> (front and back-half)	22.1	(38.1)	102.6

OTHER EQUIPMENT

TANK-1	Distillate Fuel Oil Storage Tank 650,000 gallon capacity	VOC	3.27	0.25
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- (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<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
SO<sub>2</sub> - sulfur dioxide  
VOC - volatile organic compounds as defined in General Rule 101.1  
PM<sub>10</sub> - particulate matter less than 10 microns. It shall be assumed that no particulate matter greater than 10 microns in diameter is emitted.
- (4) The allowable emission rates for the heat recovery steam generator duct burners (i.e. the HRSG duct burner contribution to total combined-cycle allowables) shall be computed by multiplying the maximum heat input capacity for each unit (325 MMBtu/hr) times the emission factors listed in Special Condition- No. 7.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Hourly emission rate limits are listed for distinct turbine fuel-usage modes: natural gas firing and distillate fuel oil firing (in parentheses). Distillate fuel oil firing is limited to 720 hours per rolling 12-month period.

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Annual emission rate limits listed on the table are based on the turbines firing natural gas for 8,040 hours per year and fuel oil for the remainder of the year (720 hours).

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