

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO  
Midlothian Energy, LLC

AUTHORIZING THE OPERATION OF  
Midlothian Energy Facility  
Electric Services

LOCATED AT  
Ellis County, Texas  
Latitude 32° 25' 47" Longitude 97° 3' 14"  
Regulated Entity Number: RN102596400

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: 01869 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, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
  - B. Title 30 TAC § 101.3 (relating to Circumvention)
  - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
  - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
  - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
  - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
  - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
  - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
  - I. Title 30 TAC § 101.222 (relating to Demonstrations)
  - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
- (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
  - (ii) Title 30 TAC § 111.111(a)(1)(E)
  - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
  - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<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. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
  - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
  - (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)
  - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- E. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
  - (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
  - (ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
  - (iii) Title 30 TAC § 111.209 (relating to Exception for Disposal Fires)
  - (iv) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)

- (v) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
    - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
    - B. Title 40 CFR § 60.8 (relating to Performance Tests)
    - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
    - D. Title 40 CFR § 60.12 (relating to Circumvention)
    - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
    - F. Title 40 CFR § 60.14 (relating to Modification)
    - G. Title 40 CFR § 60.15 (relating to Reconstruction)
    - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
  5. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
  6. For each gasoline dispensing facility, with a throughput of less than 10,000 gallons per month as specified in 40 CFR Part 63, Subpart CCCCC, the permit holder shall comply with the following requirements (Title 30 TAC, Subchapter C, § 113.1380 incorporated by reference):
    - A. Title 40 CFR § 63.1111(e), for records of monthly throughput
    - B. Title 40 CFR § 63.1111(i), for compliance due to increase of throughput
    - C. Title 40 CFR § 63.1113(c), for compliance due to increase of throughput
    - D. Title 40 CFR § 63.1115(a), for operation of the source
    - E. Title 40 CFR § 63.1116(a) and (a)(1) - (4), for work practices
    - F. Title 40 CFR § 63.1116(b), for records availability
    - G. Title 40 CFR § 63.1116(d), for portable gasoline containers

## **Additional Monitoring Requirements**

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

## **New Source Review Authorization Requirements**

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

readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

## **Compliance Requirements**

11. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
12. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
  - A. The permit holder shall comply with the compliance schedules and submit written notification to the Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
    - (i) For electric utilities in the Dallas-Fort Worth Eight-Hour Nonattainment area, 30 TAC § 117.9130
13. Use of Emission Credits to comply with applicable requirements:
  - A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) Offsets for Title 30 TAC Chapter 116
  - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)(2)
    - (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
    - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)(2)

- (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
- (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)

14. 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**

15. 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)**

16. 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**

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

### **Permit Shield (30 TAC § 122.148)**

18. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

## Acid Rain Permit Requirements

19. For units STACK1, STACK2, STACK3, STACK4, STACK5, and STACK6 (identified in the Certificate of Representation as units STK1, STK2, STK3, STK4, STK5, and STK6), located at the affected source identified by ORIS/Facility code 55091, 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**

20. For units STACK1, STACK2, STACK3, STACK4, STACK5, and STACK6 (identified in the Certificate of Representation as units STK1, STK2, STK3, STK4, STK5, and STK6), located at the site identified by ORIS/Facility code 55091, 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**

**Permit Shield**

**New Source Review Authorization References**

### **Applicable Requirements Summary**

**Unit Summary ..... 23**

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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
FWP	SRIC Engines	N/A	63ZZZZ3	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-EMDG1	SRIC Engines	EMGEN1, EMGEN2, EMGEN3, EMGEN4	63ZZZZ1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-EMDG2	SRIC Engines	EMGEN5, EMGEN6	63ZZZZ2	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-STACK	Emission Points/Stationary Vents/Process Vents	STACK1, STACK2, STACK3, STACK4, STACK5, STACK6	R111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-STK1-3	Stationary Turbines	STACK1, STACK2, STACK3	117-01	30 TAC Chapter 117, Utility Electric Generation	Fuel Type = Firing natural gas only.
GRP-STK1-3	Stationary Turbines	STACK1, STACK2, STACK3	117-02	30 TAC Chapter 117, Utility Electric Generation	Fuel Type = Firing fuel oil only.
GRP-STK1-3	Stationary Turbines	STACK1, STACK2, STACK3	60GG-01	40 CFR Part 60, Subpart GG	Fuel Supply = Stationary gas turbine is supplied its fuel without intermediate bulk storage., NO <sub>x</sub> Control Method = Selective catalytic reduction., Fuel Type Fired = Natural gas meeting the definition in § 60.331(u)., Fuel Monitoring Schedule = Fuel meets the definition of natural gas in 40 CFR § 60.331(u) and is not monitored.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-STK1-3	Stationary Turbines	STACK1, STACK2, STACK3	60GG-02	40 CFR Part 60, Subpart GG	Fuel Supply = Stationary gas turbine is supplied its fuel from a bulk storage tank., Fuel Type Fired = Liquid fuel, Fuel Monitoring Schedule = Monitoring and recording the sulfur content once per unit operating day.
LOAD-D	Loading/Unloading Operations	N/A	R5211	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
LOAD-G	Loading/Unloading Operations	N/A	R5211	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
STACK4	Stationary Turbines	N/A	117-01	30 TAC Chapter 117, Utility Electric Generation	No changing attributes.
STACK4	Stationary Turbines	N/A	60GG-01	40 CFR Part 60, Subpart GG	No changing attributes.
STACK5	Stationary Turbines	N/A	117-01	30 TAC Chapter 117, Utility Electric Generation	No changing attributes.
STACK5	Stationary Turbines	N/A	60GG-01	40 CFR Part 60, Subpart GG	No changing attributes.
STACK6	Stationary Turbines	N/A	117-01	30 TAC Chapter 117, Utility Electric Generation	No changing attributes.
STACK6	Stationary Turbines	N/A	60GG-01	40 CFR Part 60, Subpart GG	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)
FWP	EU	63ZZZZ3	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)- Table2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(b) § 63.6640(f)(1) [G]§ 63.6640(f)(2) [G]§ 63.6640(f)(4)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)- Table6.9.a.i § 63.6640(a)- Table6.9.a.ii § 63.6640(b)	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)
GRP-EMDG1	EU	63ZZZZ1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)- Table2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(b) § 63.6640(f)(1) [G]§ 63.6640(f)(2) [G]§ 63.6640(f)(4)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)- Table6.9.a.i § 63.6640(a)- Table6.9.a.ii § 63.6640(b)	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)
GRP-EMDG2	EU	63ZZZZ2	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)- Table2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(b) § 63.6640(f)(1) [G]§ 63.6640(f)(2) [G]§ 63.6640(f)(4)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)- Table6.9.a.i § 63.6640(a)- Table6.9.a.ii § 63.6640(b)	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-STACK	EP	R111-01	PM (Opacity)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRP-STK1-3	EU	117-01	NO <sub>x</sub>	30 TAC Chapter 117, Utility Electric Generation	§ 117.1300 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable monitoring and testing requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable recordkeeping requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable reporting requirements of 30 TAC Chapter 117, Utility Electric Generation
GRP-STK1-3	EU	117-02	NO <sub>x</sub>	30 TAC Chapter 117, Utility Electric Generation	§ 117.1300 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable monitoring and testing requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable recordkeeping requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable reporting requirements of 30 TAC Chapter 117, Utility Electric Generation
GRP-STK1-3	EU	60GG-01	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)
GRP-STK1-3	EU	60GG-01	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)(1) § 60.335(b)(2) § 60.335(c)(1)	[G]§ 60.334(b)	§ 60.334(j) § 60.334(j)(5)
GRP-STK1-3	EU	60GG-02	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) § 60.334(h)(1) § 60.334(i) § 60.334(i)(1) § 60.334(j) § 60.334(j)(2)(i) § 60.334(j)(2)(ii) § 60.335(b)(10) § 60.335(b)(10)(i)	§ 60.334(i) § 60.334(i)(1)	None
GRP-STK1-3	EU	60GG-02	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)(1) § 60.335(b)(2) § 60.335(c)(1)	[G]§ 60.334(b)	§ 60.334(j) § 60.334(j)(5)
LOAD-D	EU	R5211	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None

## 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)
LOAD-G	EU	R5211	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(2)(A) § 115.212(a)(2) [G]§ 115.212(a)(7) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Any plant, excluding gasoline bulk plants, which loads less than 20,000 gpd of VOC with a true vapor pressure of 0.5 psia or greater is exempt from the requirements of this division, except for the specified requirements.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B) § 115.216(3)(D)	None
STACK4	EU	117-01	NO <sub>x</sub>	30 TAC Chapter 117, Utility Electric Generation	§ 117.1300 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable monitoring and testing requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable recordkeeping requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable reporting requirements of 30 TAC Chapter 117, Utility Electric Generation
STACK4	EU	60GG-01	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
STACK4	EU	60GG-01	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)(1) § 60.335(b)(2) § 60.335(c)(1)	[G]§ 60.334(b)	§ 60.334(j) § 60.334(j)(5)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
STACK5	EU	117-01	NO <sub>x</sub>	30 TAC Chapter 117, Utility Electric Generation	§ 117.1300 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable monitoring and testing requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable recordkeeping requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable reporting requirements of 30 TAC Chapter 117, Utility Electric Generation
STACK5	EU	60GG-01	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
STACK5	EU	60GG-01	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)(1) § 60.335(b)(2) § 60.335(c)(1)	[G]§ 60.334(b)	§ 60.334(j) § 60.334(j)(5)
STACK6	EU	117-01	NO <sub>x</sub>	30 TAC Chapter 117, Utility Electric Generation	§ 117.1300 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable monitoring and testing requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable recordkeeping requirements of 30 TAC Chapter 117, Utility Electric Generation	The permit holder shall comply with the applicable reporting requirements of 30 TAC Chapter 117, Utility Electric Generation

### 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)
STACK6	EU	60GG-01	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
STACK6	EU	60GG-01	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)(1) § 60.335(b)(2) § 60.335(c)(1)	[G]§ 60.334(b)	§ 60.334(j) § 60.334(j)(5)

**Additional Monitoring Requirements**

**Periodic Monitoring Summary..... 32**

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRP-STACK	
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.: R111-01
Pollutant: PM (Opacity)	Main Standard: § 111.111(a)(1)(C)
<b>Monitoring Information</b>	
Indicator: Fuel Type	
Minimum Frequency: Annually or at any time an alternate fuel is used	
Averaging Period: n/a	
Deviation Limit: Maximum opacity = 15%	
<p>Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, for a period greater than or equal to 24 consecutive hours it shall be considered and reported as a deviation or the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are observed. Any time an alternate fuel is fired for a period of greater than 7 consecutive days then visible emissions observations will be conducted no less than once per week. Documentation of all observations shall be maintained. If visible emissions are present during the firing of an alternate fuel, the permit holder shall either list this occurrence as a deviation or the permit holder may determine the opacity consistent with Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.</p>	

**Permit Shield**

**Permit Shield ..... 34**

## Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
FWP	N/A	30 TAC Chapter 117, Subchapter B	Fire water pump is a major utility electric generation source and not a major industrial, commercial, or institutional source.
FWP	N/A	40 CFR Part 60, Subpart IIII	Commenced construction prior to 7/11/2005 and has not been modified or reconstructed since.
GRP-EMDG1	EMGEN1, EMGEN2, EMGEN3, EMGEN4	30 TAC Chapter 117, Subchapter B	Emergency generators are major utility electric generation sources and not major industrial, commercial, or institutional sources.
GRP-EMDG1	EMGEN1, EMGEN2, EMGEN3, EMGEN4	40 CFR Part 60, Subpart IIII	Commenced construction prior to 7/11/2005 and has not been modified or reconstructed since.
GRP-EMDG2	EMGEN5, EMGEN6	30 TAC Chapter 117, Subchapter B	Emergency generators are major utility electric generation sources and not major industrial, commercial, or institutional sources.
GRP-EMDG2	EMGEN5, EMGEN6	40 CFR Part 60, Subpart IIII	Commenced construction prior to 7/11/2005 and has not been modified or reconstructed since.

## Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-HTR	DEWPT1, DEWPT2, DEWPT3, DEWPT4	30 TAC Chapter 117, Subchapter B	Dew-point heaters are major utility electric generation sources and not major industrial, commercial, or institutional sources.
GRP-STK1-3	STACK1, STACK2, STACK3	30 TAC Chapter 117, Subchapter B	Stationary turbines are major utility electric generation sources and not major industrial, commercial, or institutional sources.
GRP-STK1-3	STACK1, STACK2, STACK3	40 CFR Part 63, Subpart YYYY	The facility is not a major source of HAPs emissions.
GRP-TANKS	TANK1, TANK2	40 CFR Part 60, Subpart Kb	The storage tanks have a capacity greater than 151 cubic meters and store a material with a maximum true vapor pressure less than 3.5 kPa.
STACK4	N/A	30 TAC Chapter 117, Subchapter B	Stationary turbines are major utility electric generation sources and not major industrial, commercial, or institutional sources
STACK4	N/A	40 CFR Part 63, Subpart YYYY	The facility is not a major source of HAPs emissions.

### Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
STACK5	N/A	30 TAC Chapter 117, Subchapter B	Stationary turbines are major utility electric generation sources and not major industrial, commercial, or institutional sources
STACK5	N/A	40 CFR Part 63, Subpart YYYY	The facility is not a major source of HAPs emissions.
STACK6	N/A	30 TAC Chapter 117, Subchapter B	Stationary turbines are major utility electric generation sources and not major industrial, commercial, or institutional sources
STACK6	N/A	40 CFR Part 63, Subpart YYYY	The facility is not a major source of HAPs emissions.

**New Source Review Authorization References**

**New Source Review Authorization References ..... 38**

**New Source Review Authorization References by Emission Unit..... 39**

## 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.: PSDTX906	Issuance Date: 07/15/2014
<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.: 38191	Issuance Date: 07/15/2014
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 106.183	Version No./Date: 06/18/1997
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.265	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 03/14/1997
Number: 106.372	Version No./Date: 09/04/2000
Number: 106.373	Version No./Date: 07/08/1998
Number: 106.452	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 07/08/1998
Number: 106.472	Version No./Date: 03/14/1997
Number: 106.473	Version No./Date: 03/14/1997
Number: 106.476	Version No./Date: 03/14/1997
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.532	Version No./Date: 03/14/1997

### 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
DEWPT1	Dew-Point Heater 1	106.183/06/18/1997
DEWPT2	Dew-Point Heater 2	106.183/06/18/1997
DEWPT3	Dew-Point Heater 3	106.183/06/18/1997
DEWPT4	Dew-Point Heater 4	106.183/06/18/1997
EMGEN1	440-HP Emergency Generator 1	106.511/09/04/2000
EMGEN2	440-HP Emergency Generator 2	106.511/09/04/2000
EMGEN3	440-HP Emergency Generator 3	106.511/09/04/2000
EMGEN4	440-HP Emergency Generator 4	106.511/09/04/2000
EMGEN5	587-HP Emergency Generator 5	106.511/09/04/2000
EMGEN6	587-HP Emergency Generator 6	106.511/09/04/2000
FWP	225-HP Firewater Pump	106.511/09/04/2000
LOAD-D	Diesel Unloading	106.472/03/14/1997
LOAD-G	Gasoline Unloading	106.473/03/14/1997
STACK1	Combustion Turbine Unit 1	38191, PSDTX906
STACK1	Combustion Turbine Unit Stack 1	38191, PSDTX906
STACK2	Combustion Turbine Unit 2	38191, PSDTX906
STACK2	Combustion Turbine Unit Stack 2	38191, PSDTX906
STACK3	Combustion Turbine Unit 3	38191, PSDTX906

### 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
STACK3	Combustion Turbine Unit Stack 3	38191, PSDTX906
STACK4	Combustion Turbine Unit 4	38191, PSDTX906
STACK4	Combustion Turbine Unit Stack 4	38191, PSDTX906
STACK5	Combustion Turbine Unit 5	38191, PSDTX906
STACK5	Combustion Turbine Unit Stack 5	38191, PSDTX906
STACK6	Combustion Turbine Unit 6	38191, PSDTX906
STACK6	Combustion Turbine Unit Stack 6	38191, PSDTX906
TANK1	Fuel Oil Storage Tank 1	38191, PSDTX906
TANK2	Fuel Oil Storage Tank 2	38191, PSDTX906

**Appendix A**

**Acronym List ..... 42**

## 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..... 44**

## Major NSR Summary Table

Permit Number: 38191 and PSDTX906			Issuance Date: 07/15/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
STACK1	Combustion Turbine ABB GT24 Normal and Hold Point 2 Natural Gas Firing	NOx	34		4, 6, 7, 9, 10, 11, 12	6, 7, 9, 10, 11, 12, 14, 15, 18, 19	7, 9, 10, 11, 20, 21
		CO	254				
		VOC	17.6				
		PM/PM <sub>10</sub>	24				
		SO <sub>2</sub>	5				
		NH <sub>3</sub>	26.8				
	Combustion Turbine ABB GT24 Normal and Hold Point 2 Fuel Oil Firing	NOx	75				
		CO	310				
		VOC	18				
		PM/PM <sub>10</sub>	111				
		SO <sub>2</sub>	109				
	Combustion Turbine ABB GT24 Startup, Shutdown, and Transient (5,6)	NOx	990				
		CO	2,100				
VOC		132					
Combustion Turbine ABB GT24 Maintenance/ CGT Tuning (5,6)	CO	3,500					
STACK1	Combustion Turbine ABB GT24 Annual Emissions All Modes of Operation	NOx		151.6			
		CO		259.3			
		VOC		28.7			
		PM/PM <sub>10</sub>		121.3			

## Major NSR Summary Table

Permit Number: 38191 and PSDTX906			Issuance Date: 07/15/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
		SO <sub>2</sub>		56.3			
		NH <sub>3</sub>		119.2			
STACK2	Combustion Turbine ABB GT24 Normal and Hold Point 2 Natural Gas Firing	NO <sub>x</sub>	34		4, 6, 7, 9, 10, 11, 12	6, 7, 9, 10, 11, 12, 14, 15, 18, 19	7, 9, 10, 11, 20, 21
		CO	254				
		VOC	17.6				
		PM/PM <sub>10</sub>	24				
		SO <sub>2</sub>	5				
		NH <sub>3</sub>	26.8				
	Combustion Turbine ABB GT24 Normal and Hold Point 2 Fuel Oil Firing	NO <sub>x</sub>	75				
		CO	310				
		VOC	18				
		PM/PM <sub>10</sub>	111				
		SO <sub>2</sub>	109				
	Combustion Turbine ABB GT24 Startup, Shutdown, and Transient (5,6)	NO <sub>x</sub>	990				
		CO	2,100				
VOC		132					
Combustion Turbine ABB GT24 Maintenance/ CGT Tuning (5,6)	CO	3,500					
STACK2	Combustion Turbine	NO <sub>x</sub>		151.6			

## Major NSR Summary Table

Permit Number: 38191 and PSDTX906			Issuance Date: 07/15/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
	ABB GT24 Annual Emissions All Modes of Operation	CO		259.3			
		VOC		28.7			
		PM/PM <sub>10</sub>		121.3			
		SO <sub>2</sub>		56.3			
		NH <sub>3</sub>		119.2			
STACK3	Combustion Turbine ABB GT24 Normal and Hold Point 2 Natural Gas Firing	NOx	34		4, 6, 7, 9, 10, 11, 12	6, 7, 9, 10, 11, 12, 14, 15, 18, 19	7, 9, 10, 11, 20, 21
		CO	254				
		VOC	17.6				
		PM/PM <sub>10</sub>	24				
		SO <sub>2</sub>	5				
		NH <sub>3</sub>	26.8				
	Combustion Turbine ABB GT24 Normal and Hold Point 2 Fuel Oil Firing	NOx	75				
		CO	310				
		VOC	18				
		PM/PM <sub>10</sub>	111				
		SO <sub>2</sub>	109				
	Combustion Turbine ABB GT24 Startup, Shutdown, and Transient (5,6)	NOx	990				
		CO	2,100				

## Major NSR Summary Table

Permit Number: 38191 and PSDTX906			Issuance Date: 07/15/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
		VOC	132				
	Combustion Turbine ABB GT24 Maintenance/ CGT Tuning (5,6)	CO	3,500				
STACK3	Combustion Turbine ABB GT24 Annual Emissions All Modes of Operation	NOx		151.6			
		CO		259.3			
		VOC		28.7			
		PM/PM <sub>10</sub>		121.3			
		SO <sub>2</sub>		56.3			
		NH <sub>3</sub>		119.2			
STACK4	Combustion Turbine ABB GT24 Normal and Hold Point 2 Natural Gas Firing	NOx	34		4, 6, 7, 9, 10, 11, 12	6, 7, 9, 10, 11, 12, 14, 15, 18, 19	7, 9, 10, 11, 20, 21
		CO	254				
		VOC	17.6				
		PM/PM <sub>10</sub>	24				
		SO <sub>2</sub>	5				
		NH <sub>3</sub>	26.8				
	Combustion Turbine ABB GT24 Normal and Hold Point 2 Fuel Oil Firing	NOx	75				
		CO	310				
		VOC	18				
		PM/PM <sub>10</sub>	111				
		SO <sub>2</sub>	109				

## Major NSR Summary Table

Permit Number: 38191 and PSDTX906			Issuance Date: 07/15/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
		NH <sub>3</sub>	31.8				
	Combustion Turbine ABB GT24 Startup, Shutdown, and Transient (5,6)	NOx	990				
		CO	2,100				
		VOC	132				
	Combustion Turbine ABB GT24 Maintenance/ CGT Tuning (5,6)	CO	3,500				
STACK4	Combustion Turbine ABB GT24 Annual Emissions All Modes of Operation	NOx		151.6			
		CO		259.3			
		VOC		28.7			
		PM/PM <sub>10</sub>		121.3			
		SO <sub>2</sub>		56.3			
		NH <sub>3</sub>		119.2			
STACK5	Combustion Turbine ABB GT24 Normal and Hold Point 2 Natural Gas Firing	NOx	34		4, 6, 7, 9, 10, 11, 12	6, 7, 9, 10, 11, 12, 14, 15, 18, 19	7, 9, 10, 11, 20, 21
		CO	254				
		VOC	17.6				
		PM/PM <sub>10</sub>	24				
		SO <sub>2</sub>	5				
		NH <sub>3</sub>	26.8				

## Major NSR Summary Table

Permit Number: 38191 and PSDTX906			Issuance Date: 07/15/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
	Combustion Turbine ABB GT24 Normal and Hold Point 2 Fuel Oil Firing	NOx	75				
		CO	310				
		VOC	18				
		PM/PM <sub>10</sub>	111				
		SO <sub>2</sub>	109				
		NH <sub>3</sub>	31.8				
	Combustion Turbine ABB GT24 Startup, Shutdown, and Transient (5,6)	NOx	990				
		CO	2,100				
		VOC	132				
	Combustion Turbine ABB GT24 Maintenance/ CGT Tuning (5,6)	CO	3,500				
STACK5	Combustion Turbine ABB GT24 Annual Emissions All Modes of Operation	NOx		151.6			
		CO		259.3			
		VOC		28.7			
		PM/PM <sub>10</sub>		121.3			
		SO <sub>2</sub>		56.3			
		NH <sub>3</sub>		119.2			
STACK6	Combustion Turbine ABB GT24 Normal and Hold	NOx	34		4, 6, 7, 9, 10, 11, 12	6, 7, 9, 10, 11, 12, 14, 15, 18, 19	7, 9, 10, 11, 20, 21
		CO	254				

## Major NSR Summary Table

Permit Number: 38191 and PSDTX906			Issuance Date: 07/15/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
	Point 2 Natural Gas Firing	VOC	17.6				
		PM/PM <sub>10</sub>	24				
		SO <sub>2</sub>	5				
		NH <sub>3</sub>	26.8				
	Combustion Turbine ABB GT24 Normal and Hold Point 2 Fuel Oil Firing	NOx	75				
		CO	310				
		VOC	18				
		PM/PM <sub>10</sub>	111				
		SO <sub>2</sub>	109				
		NH <sub>3</sub>	31.8				
	Combustion Turbine ABB GT24 Startup, Shutdown, and Transient (5,6)	NOx	990				
		CO	2,100				
		VOC	132				
Combustion Turbine ABB GT24 Maintenance/ CGT Tuning (5,6)	CO	3,500					
STACK6	Combustion Turbine ABB GT24 Annual Emissions All Modes of Operation	NOx		151.6			
		CO		259.3			
		VOC		28.7			
		PM/PM <sub>10</sub>		121.3			

## Major NSR Summary Table

Permit Number: 38191 and PSDTX906			Issuance Date: 07/15/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
		SO <sub>2</sub>		56.3			
		NH <sub>3</sub>		119.2			
TANK1	2.2 Million-Gallon Diesel Tank	VOC	1.5	0.65	7	7	7
TANK2	2.2 Million-Gallon Diesel Tank	VOC	1.5	0.65	7	7	7
EMTANK1	600 Gallon Diesel Tanks	VOC	0.05	<0.01			
EMTANK2	600 Gallon Diesel Tanks	VOC	0.05	<0.01			
EMTANK3	600 Gallon Diesel Tanks	VOC	0.05	<0.01			
EMTANK4	600 Gallon Diesel Tanks	VOC	0.05	<0.01			
EMTANK5	600 Gallon Diesel Tanks	VOC	0.05	<0.01			
EMTANK6	600 Gallon Diesel Tanks	VOC	0.05	<0.01			
FUG-IG1	NH <sub>3</sub> Grid Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62			
FUG-IG2	NH <sub>3</sub> Grid Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62			
FUG-IG3	NH <sub>3</sub> Grid Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62			
FUG-IG4	NH <sub>3</sub> Grid Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62			
FUG-IG5	NH <sub>3</sub> Grid Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62			
FUG-IG6	NH <sub>3</sub> Grid Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62			
FUG-V1	NH <sub>3</sub> Vaporizer Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62			
FUG-V2	NH <sub>3</sub> Vaporizer Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62			
FUG-V3	NH <sub>3</sub> Vaporizer Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62			

## Major NSR Summary Table

Permit Number: 38191 and PSDTX906			Issuance Date: 07/15/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
FUG-V4	NH3 Vaporizer Fugitive Emissions (7)	NH3	0.14	0.62			
FUG-V5	NH3 Vaporizer Fugitive Emissions (7)	NH3	0.14	0.62			
FUG-V6	NH3 Vaporizer Fugitive Emissions (7)	NH3	0.14	0.62			
LOR-1	Lube Oil Reservoir Vapor Extractor Vent (8)	VOC	<0.01	0.01			
		PM	0.003	0.01			
LOR-2	Lube Oil Reservoir Vapor Extractor Vent (8)	VOC	0.003	0.01			
		PM	0.003	0.01			
LOR-3	Lube Oil Reservoir Vapor Extractor Vent (8)	VOC	0.003	0.01			
		PM	0.003	0.01			
LOR-4	Lube Oil Reservoir Vapor Extractor Vent (8)	VOC	0.003	0.01			
		PM	0.003	0.01			
LOR-5	Lube Oil Reservoir Vapor Extractor Vent (8)	VOC	0.003	0.01			
		PM	0.003	0.01			
LOR-6	Lube Oil Reservoir Vapor Extractor Vent (8)	VOC	0.003	0.01			
		PM	0.003	0.01			
FUG	Normal Operations Site Fugitive Emission (7)	VOC	0.44	1.91			
		NH4OH	0.22	0.98			
MSSFUG	Maintenance Activities	VOC	21	1.1	16	14, 16, 19	

## Major NSR Summary Table

Permit Number: 38191 and PSDTX906			Issuance Date: 07/15/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
	Site Fugitive Emissions (7)	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	4.5	0.1			
		NH <sub>3</sub>	6.6	0.1			

Footnotes:

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3)
  - NO<sub>x</sub> - total oxides of nitrogen
  - CO - carbon monoxide
  - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
  - PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
  - PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
  - SO<sub>2</sub> - sulfur dioxide
  - NH<sub>3</sub> - ammonia
  - NH<sub>4</sub>OH - ammonium hydroxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Hourly emissions shown are the only emissions that are higher than emissions during normal operations. Normal operations emission limits apply to pollutants not shown that are emitted during transient operation and CT maintenance, startup, and shutdown (MSS).
- (6) For CT MSS and transient operations, the number of hours that CO emissions may exceed 2,100 lb/hr is limited to no more than 75 hours per year for all turbines combined. The CO emissions shall not exceed 3,500 lb/hr during any of these 75 hours.
- (7) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (8) Compliance with lube oil extractor vent emission limits is demonstrated through periodic opacity readings in accordance with Title V Operating Permit Number O-1869.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
AIR QUALITY PERMIT



A Permit Is Hereby Issued To  
**Midlothian Energy, LLC**

Authorizing the Construction and Operation of  
**Midlothian Energy Facility Combined Cycle Power Plant Units 1-6**  
Located at **Midlothian, Ellis County, Texas**

Latitude 32° 26' 08" Longitude 97° 02' 41"

Permits: 38191 and PSDTX906

Revision Date : July 15, 2014

Renewal Date: September 5, 2018

For the Commission

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

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction; comply with any additional recordkeeping requirements specified in special conditions attached to the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC 116.115(b)(2)(F)]
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with 30 TAC 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to a condition of "air pollution" as defined in Texas Health and Safety Code (THSC) 382.003(3) or violate THSC 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.

## Special Conditions

Permit Numbers 38191 and PSDTX906

### Emission Standards and Operating Specifications

1. This permit covers only those sources of emissions listed in the attached tables entitled “Emissions Sources - Maximum Allowable Emission Rates” (MAERT), “Attachment A”, and “Attachment B”, and those sources are limited to the emission limits and other conditions specified in the attached MAERT. This permit authorizes planned maintenance, startup, and shutdown (MSS) activities which comply with the emission limits in the MAERT. **(4/13)**
  
2. Six ABB (Alstom) Model GT24 Gas Combustion Turbines (CTs) with steam injection in combined cycle with heat recovery steam generators (HRSG) and steam turbines are authorized by this permit. Each combined cycle unit has a single electric generator rated at a nominal electric output capability of 275 megawatts (MW). Full load is estimated to be 250 MW without steam injection and is dependent on ambient conditions. Each CT is directly connected to the generator shaft and the steam turbine is indirectly connected to the generator shaft using a clutch and transmission to match CT speed. The CTs may employ evaporative cooling or steam injection for power enhancement. The HRSGs do not have duct burners. **(4/13)**
  - A. The CTs are authorized for two modes of non-transient operation:
    - (1) Normal Operation - from 100 percent (%) to 45% of full load. Normal operation may extend to lower loads if nitrogen oxides (NO<sub>x</sub>) emissions comply with the concentration limits of Special Condition No. 3.A.
    - (2) Hold Point 2 - from 8% to 12% of full load.
  - B. The CTs are authorized for transient operation as follows:
    - (1) Start-up and shutdown, as defined in Special Condition No. 15.
    - (2) In transition,
      - (a) increasing load from Hold Point 2 to Normal Operation; and
      - (b) decreasing load from Normal Operation to Hold Point 2.
  - C. The CTs are authorized to operate for planned maintenance as described in Attachment B, subject to the conditions of this permit and the representations in the amendment application dated December 17, 2010, as subsequently updated. **(4/13)**
  - D. Steam injection must not exceed 2,000 hours per year per CT.

3. A. The concentration of emissions from each CT while in the normal operating range as defined in Special Condition No. 2.A.(1) shall not exceed the following limits expressed in parts per million by volume (ppmv), dry, at 15% oxygen (O<sub>2</sub>), on a block one-hour average. **(4/13)**

**Concentration Limits During Normal CT Operation**

Pollutant		Fuel	
		Natural Gas	Fuel Oil
NO <sub>x</sub>		5	9
Carbon monoxide (CO) <sup>1</sup>		5	10
	with SI <sup>2</sup>	29	
Volatile organic compounds (VOC) <sup>1,3</sup>		0.4	2.0
	with EC or SI <sup>4</sup>	3.0	
Ammonia (NH <sub>3</sub> )		10	10

<sup>1</sup>Limits apply during full load only. At less than full load, comply with the MAERT limits.

<sup>2</sup>Higher limit applies while using steam injection (SI).

<sup>3</sup>Defined as total hydrocarbons minus methane and ethane, calculated as propane.

<sup>4</sup>Higher limit applies while using evaporative cooling (EC) or SI.

- B. The limits in A. of this Special Condition do not apply to a CT operating:
- (1) at Hold Point 2, as defined in Special Condition No. 2.A.(2);
  - (2) in transient operation, as described in Special Condition No. 2.B.; or
  - (3) in maintenance modes, as described in Attachment B.
4. Fuel for the CTs:
- A. Is limited to:
- (1) Pipeline-quality natural gas containing no more than 0.8 grain total sulfur per 100 dry standard cubic feet.
  - (2) No. 2 fuel oil may be fired, subject to the following:
    - (a) firing in CT Unit 1, Unit 2, or Unit 3 only;
    - (b) firing only during emergencies, including, but not limited to, natural gas interruptions;
    - (c) no more than 0.05% total sulfur by weight; and
    - (d) no more than 720 hours of firing annually for each CT.

- (3) The use of any other fuels is prohibited.
- B. Upon request by the Executive Director of the Texas Commission on Environmental Quality (TCEQ) or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuel fired in the CTs or shall allow air pollution control agency representatives to obtain a sample for analysis.
- 5. Each selective catalytic reduction (SCR) system shall be maintained according to manufacturer recommendations.
- 6. During normal operation (natural gas-fueled), the opacity of emissions from the CTs shall not exceed 5% averaged over a six-minute period, except during periods of start-up or shutdown. During MSS activities, the opacity shall not exceed 15% averaged over a six-minute period. Observations shall be performed quarterly while the CTs are in operation. Observations shall be made at least 15 feet and no more than 0.25 mile from the emission point. If visible emissions are observed from the stack, the opacity shall be determined by the U.S. Environmental Protection Agency (EPA) Reference Method No. 9. If the opacity exceeds 5% during normal operations, or 15% during MSS activities, corrective action to eliminate the source of visible emissions shall be taken promptly and documented within one week of first observation. **(4/13)**

**Federal Applicability**

- 7. These facilities shall comply with applicable requirements of EPA regulations in Title 40 Code of Federal Regulations (40 CFR), including:
  - A. New Source Performance Standards (NSPS), in 40 CFR Part 60.

Source	Emission Point Number (EPN)	Subpart	Standards of Performance for:
Combustion Turbines	STACK1, STACK2, STACK3, STACK4, STACK5, STACK6	GG	Stationary Gas Turbines
2.2 Million Gal. Diesel Tanks	TANK1, TANK2	Kb*	Volatile Organic Liquid Storage Vessels
All of the above		A	General Conditions

\* § 60.116b, Monitoring of Operations, paragraphs (a) and (b) are applicable.

- B. Maximum Achievable Control Technology (MACT) Standards in 40 CFR Part 63, Subpart ZZZZ. As an existing area source of hazardous air pollutants,

these standards apply to the six emergency diesel generator engines and one diesel fire water pump engine. **(4/13)**

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

### **Initial Determination of Compliance**

8. Sampling ports and platforms shall be incorporated into the design of all exhaust stacks according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities." Alternate sampling facility designs may be submitted for approval by the TCEQ Dallas/Fort Worth (DFW) Regional Director.
9. 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 STACK1, STACK2, and STACK3 when firing both natural gas and No. 2 fuel oil. The EPNs STACK4, STACK5, and STACK6 will be tested when firing natural gas. Sampling shall be conducted in accordance with the applicable procedures of the TCEQ "Sampling Procedures Manual" and in accordance with the applicable 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<sub>10</sub>); Reference Method 8 or Reference Methods 6 or 6c for sulfur dioxide (SO<sub>2</sub>); Reference Method 9 for opacity; Reference Method 10 for the concentration of CO; Reference Method 25A, modified to exclude methane and ethane, for the concentration of VOC (to measure total carbon as propane); Reference Method 20 for the concentrations of NO<sub>x</sub> and O<sub>2</sub>; or equivalent methods.

Fuel sampling using the methods and procedures of 40 CFR § 60.334(h)(3)(i) may be conducted in lieu of stack sampling for SO<sub>2</sub>. If fuel sampling is used, compliance with 40 CFR Part 60, Subpart GG, SO<sub>2</sub> limits shall be based on 100% conversion of the sulfur in the fuel to SO<sub>2</sub>. Any deviations from those procedures must be approved by the Executive Director of the TCEQ prior to sampling. The TCEQ Executive Director or his designated representative shall be afforded the opportunity to observe all such sampling.

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

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

- (1) Date for pretest meeting.
- (2) Date sampling will occur.
- (3) Name of firm conducting sampling.
- (4) Type of sampling equipment to be used.
- (5) Method or procedure proposed to be used in sampling.
- (6) Procedure proposed to be used to determine CT loads during and after the sampling period.

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

- B. Air emissions from each CT 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, NH<sub>3</sub>, VOC, SO<sub>2</sub>, PM<sub>10</sub>, and opacity. Fuel sampling using the methods and procedures of 40 CFR § 60.335(b)(10) may be conducted in lieu of stack sampling for SO<sub>2</sub>. **(4/13)**

The CTs' steam injection shall be operating on at least one of the CTs during sampling to achieve the maximum load on the CT. If the results of this testing demonstrate compliance with the applicable emission limits, additional Initial Demonstration of Compliance testing for steam injection on other CTs covered by this permit is not required. **(4/13)**

- C. The VOC emissions shall be sampled and analyzed at or near 50% of base load.
- D. Sampling of each CT shall occur within 60 days after achieving the maximum fuel firing rate at which the CT will be operated but no later than 180 days after initial start-up of each unit. Requests for an extension of this schedule shall be made in writing to and approved by the Director of the TCEQ DFW Regional Office. Additional sampling shall occur as may be required by the TCEQ or the EPA.

- E. Within 60 days after the completion of the testing and sampling required herein, copies of the sampling report shall be distributed as follows:
  - (1) One copy to the TCEQ DFW Regional Office.
  - (2) One copy to the EPA Region 6 Office, Dallas.
- F. If the highest of the three Initial Demonstration of Compliance test runs is less than 90% of the allowable for any CT pollutant (except NH<sub>3</sub>), then the permit holder shall apply for a permit alteration to reduce the allowable to the highest of the three test runs.
- G. It is noted that initial determination of compliance stack tests were completed on the following dates: **(4/13)**
  - (1) Unit 1 – 08/08/2000, 01/31/2001;
  - (2) Unit 2 – 08/10/2000, 01/15/2001;
  - (3) Unit 3 – 12/07/2000;
  - (4) Unit 4 – 01/09/2001;
  - (5) Unit 5 – 10/25/2001, 06/14/2002;
  - (6) Unit 6 - 11/25/2001, 05/29/2002, 07/10/2012 (Steam Injection).

### **Continuous Determination of Compliance**

- 10. The holder of this permit shall install, calibrate, and maintain a continuous emissions monitoring system (CEMS) to measure and record the in-stack concentration of NO<sub>x</sub>, CO and diluent from each CT stack. **(4/13)**
  - A. The NO<sub>x</sub> and diluent CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable performance specifications in 40 CFR Part 75, Appendices A and B. The requirements of 40 CFR Part 75 Appendices A and B are deemed an acceptable alternative to the performance specifications and quality assurance requirements of 40 CFR Part 60.
  - B. The CO CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable performance specifications in 40 CFR Part 60, Performance Specification 4. The CEMS shall meet the applicable quality assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1, except that cylinder gas audits (CGA) conducted in four successive operating quarters may be used in lieu of the annual Relative

Accuracy Test Audit. Quarterly CGAs shall be conducted at least 60 days apart. A CGA is not required in any non-operating quarter, defined as a quarter during which the CT operates less than 168 hours. Relative accuracy exceedances (as specified in 40 CFR Part 60, Appendix F), CGA exceedances of  $\pm 15\%$  accuracy, and any CO CEMS downtime shall be reported to the TCEQ DFW Regional Director, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the TCEQ DFW Regional Director.

- C. The CEMS shall be zeroed and spanned daily, and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in the applicable Performance Specification.
- D. For full operating hours, the monitoring data must be reduced to hourly average values at least once every day, using a minimum of four equally-spaced data points from each block one-hour period except for hours in which calibration checks, zero and span adjustments, system breakdowns, or repairs occur. For those hours, two valid data points separated by a minimum of 15 minutes (where the unit operates for more than one quadrant of an hour) will be sufficient to quality assure the hour. The individual average concentrations must be converted to units of the permit allowable emission rate in pounds per hour (lb/hr) at least once every day. Pound per hour data from each CT stack must be summed monthly to tons per year and used to determine compliance with the annual emission limits of this permit.
- E. During NO<sub>x</sub> or CO analyzer over-scale events, a concentration value of twice the analyzer range will be substituted for each minute the analyzer is over-scaled. A valid hourly value will be the arithmetic average of all measured and substituted minutes in each clock hour.
- F. During fuel gas flow meter failure events, fuel flow rate values will be substituted for each hour the flow meter is out of service. The values will be derived from a fuel flow-to-load correlation curve for that unit from a representative quarter.
- G. All monitoring data and quality-assurance data shall be maintained by the source for a period of five years and shall be made available to the TCEQ Executive Director or his designated representative upon request. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit.
- H. The TCEQ DFW Regional Office shall be notified at least 30 days prior to any required RATA in order to provide them the opportunity to observe the testing.

- I. The holder of this permit may request authorization from the Office of Air, Air Permits Division of the TCEQ to install a predictive emissions monitoring system (PEMS) in lieu of a CEMS and to include conditions for PEMS certification and operation in this permit. The applicant should include, at minimum, in the PEMS authorization request: a detailed description of the PEMS (including the hardware and software to be used); a description of how the PEMS model will be or was developed, accounting for the operating load range of the CTs; a complete listing of the input parameters used in developing the PEMS model; and, if available, a listing of the final input parameters to be used by the PEMS in predicting emissions.
11. If any emission monitor fails to meet specified performance, it shall be repaired or replaced as soon as reasonably possible, but no later than seven days after it was first detected by any employee at the facility unless written permission is obtained from the TCEQ DFW Regional Office which allows for a longer repair or replacement time. The holder of this permit shall develop an operation and maintenance program (including stocking necessary spare parts) to ensure that the continuous monitors are available as required.
12. The holder of this permit shall additionally install, calibrate, maintain, and operate continuous monitoring systems to monitor and record the average hourly natural gas consumption of the CTs. The systems shall be accurate to  $\pm 2.0\%$  of the unit's maximum flow. **(4/13)**

#### **Maintenance, Startup, and Shutdown (4/13)**

13. This permit authorizes emissions from the planned startup and shutdown of the CTs and the maintenance activities listed in Attachment A and Attachment B of this permit. Attachment A identifies the inherently low-emitting (ILE) planned maintenance activities that this permit authorizes to be performed. Attachment B identifies the non-ILE planned maintenance activities that this permit authorizes to be performed.
14. The holder of this permit shall operate the CTs and associated ancillary equipment in accordance with good air pollution control practice to minimize emissions during planned MSS activities.
15. Emissions during planned startup and shutdown activities for the CTs will be minimized by limiting the duration of operation in planned startup and shutdown mode as follows:

- A. A planned startup for each CT shall not exceed 240 minutes. A planned startup is defined as the period that begins when natural gas is introduced into the CT and ends when the CT reaches 45% of full load.
  - B. A planned shutdown for each CT shall not exceed 120 minutes. A planned shutdown is defined as the period that begins when the CT load decreases below 45% of full load or the load decreases below Hold Point 2, and ends when combustion is terminated in the CT, or when the CT recovers from an auto unload or runback.
16. Compliance with the emission limits for planned MSS activities identified in the MAERT attached to this permit shall be demonstrated as follows.
- A. For ILE planned maintenance activities identified in Attachment A of this permit:
    - (1) The total emissions from all activities shall be considered to be no more than the estimated potential to emit for those activities that are represented in the permit application.
    - (2) The permit holder shall annually confirm the continued validity of the estimated potential-to-emit represented in the permit application for all activities.
  - B. For NO<sub>x</sub> and CO emissions during planned CT MSS, the permit holder shall use the NO<sub>x</sub> and CO CEMS in accordance with Special Condition No. 10 of this permit to demonstrate compliance.
  - C. For pollutants from CT MSS not measured using CEMS, the permit holder shall do the following.
    - (1) Determine the emissions of each pollutant listed on the MAERT of this permit from all occurrences of planned MSS activity by calculating the pollutant's hourly and monthly emissions using data related to the planned MSS activity identified in turbine operating records, work orders, or equivalent records and the emissions of the pollutant during the planned MSS activity, either
      - (A) as represented in the planned MSS permit application; or
      - (B) as determined with an appropriate method, including but not limited to any of the following methods, provided that the permit holder maintains appropriate records supporting such determination:

- i. use of emission factor(s), facility-specific parameter(s), and/or engineering knowledge of the facility's operations;
    - ii. use of emissions data measured (by a CEMS or during emissions testing) during the same type of planned MSS activity occurring at or on a similar facility, and correlation of that data with the activity's or facility's relevant operating parameters;
    - iii. use of emissions testing data collected during a planned MSS activity occurring at or on the facility, and correlation of that data with the facility's or activity's relevant operating parameters, such as electric load, temperature, fuel input, or fuel sulfur content; or
    - iv. use of parametric monitoring system data applicable to the facility.
  - (2) For each calendar month, determine the emissions of each pollutant emitted that result from such planned MSS activities.
  - (3) Once monthly emissions have been determined for the 12 months following the issuance of the MSS permit amendment, begin comparing the rolling 12-month emissions for each pollutant to the applicable annual turbine emissions limit in the MAERT.
17. With the exception of the emission limits in the MAERT attached to this permit, the permit conditions relating to planned MSS activities do not become effective until 180 days after issuance of the permit amendment that added such conditions.

### **Recordkeeping**

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 TCEQ, the EPA, or any air pollution control agency with jurisdiction.
  - A. A copy of this permit.
  - B. Permit application dated April 6, 1998, permit amendment application received on July 1, 1999, and subsequent representations submitted to the TCEQ.

- C. A complete copy of the testing reports and records of the initial performance testing completed pursuant to Special Condition No. 9 to demonstrate initial compliance.
  - D. Stack sampling results or other air emissions testing (other than CEMS data) that may be conducted on units authorized under this permit after the date of issuance of this permit.
  - E. The SCR catalyst unit maintenance records specifying frequency of NH<sub>3</sub> monitoring and dates of catalyst replacement.
19. The following information shall be maintained by the holder of this permit in a form suitable for inspection for a period of five years after collection and shall be made immediately available upon request to representatives of the TCEQ, the EPA, or any local air pollution control program having jurisdiction:
- A. The CEMS data of NO<sub>x</sub>, CO, and O<sub>2</sub> emissions from each CT stack and the NH<sub>3</sub> CEMS data from STACK5 and STACK6, to demonstrate compliance with the concentration limits in Special Condition No. 3 and mass emission rates listed in the MAERT. **(4/13)**
  - 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. Hours of steam injection to enhance the power output of each CT pursuant to Special Condition No. 2.
  - D. Records of hours of operation, average daily quantity of natural gas and No. 2 fuel oil fired, the number of hours fuel oil is fired each month, and the rolling 12-month total hours of oil fired for each CT pursuant to Special Condition No. 4.
  - E. Records of the opacity measurements made pursuant to Special Condition No. 6.
  - F. Records of CT tuning/optimization to demonstrate compliance with the CO emission limit in the MAERT. **(4/13)**
  - G. Records of CT startups and shutdowns to demonstrate compliance with Special Condition No. 15. **(04/13)**
  - H. Records of MSS activities and their emissions to demonstrate compliance with Special Condition No. 16. **(04/13)**

## Reporting

20. The holder of this permit shall submit to the TCEQ DFW Regional Office and the Air Enforcement Branch of the 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.
- A. The following reporting requirements apply specifically to NSPS Subpart GG: **(4/13)**
- (1) At all times, including periods of startup, shutdown, and malfunction (SSM), 40 CFR § 60.11(d) requires affected units to be operated in a manner consistent with good air pollution control practice for minimizing emissions. Excess emissions which occur during SSM are to be reported to determine whether a facility's operation and maintenance procedures are consistent with good air pollution control practice for minimizing emissions. [Federal Register Vol. 71, 7/6/06, p. 38488]
  - (2) According to 40 CFR § 60.8(c), "operations during periods of SSM shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of SSM be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard." Because the applicable standard, Subpart GG, does not specify limits during SSM, the Subpart GG emission limits are not applicable during SSM.
  - (3) "SSM" is U.S. EPA terminology not used in the TCEQ's MSS rules in Title 30 Texas Administrative Code (30 TAC) Chapter 101. The references to this terminology in (1) and (2) above are used to identify the reporting requirements under NSPS Subpart GG.
- B. In addition to the information specified in 40 CFR § 60.7(c), each report shall contain:
- (1) the hours of operation of the equipment authorized by this permit;
  - (2) a report summary of the periods of non-complying emissions and CEMS downtimes by cause; and
  - (3) the number of hours in which data substitution occurred due to analyzer over-scaling or fuel flow meter failure. Data substitution for these reasons does not constitute monitor downtime for reporting required by 40 CFR § 60.7(c). **(4/13)**

21. If the average NO<sub>x</sub> or CO stack outlet concentration exceeds the concentration limit of Special Condition No. 3 or the hourly mass emission rate exceeds the applicable limitation in the MAERT for more than: **(7/14)**
  - A. 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; and
  - B. 24 consecutive hours, the permit holder shall notify, within 48 hours, the TCEQ DFW 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. **(04/13)**

**Additional Permit Authorizations at Site**

22. The following operations are authorized by permits-by-rule under 30 TAC: **(04/13)**

**Operations Authorized by Permit-by-Rule (PBR)**

Sources	PBR	Registration No./Date
Four natural gas-fired dew point heaters	30 TAC § 106.183	None
Soldering, brazing and welding activities for maintenance and repairs	30 TAC § 106.227	None
Maintenance activities, including purging of natural gas from pipelines and CTs and Abrasive blasting of immovable objects	30 TAC § 106.263	None
Hand-held and manually operated machines	30 TAC § 106.265	None
Six closed-loop air condensers and one wetted cooling tower	30 TAC § 106.371	None
Storage of pressurized gas cylinders containing industrial gases	30 TAC § 106.372	None
Refrigerants and the use of refrigeration systems	30 TAC § 106.373	None
Enclosed or glovebox abrasive blasting	30 TAC § 106.452(1)	None
Non-enclosed blasting of movable objects	30 TAC § 106.452(2)	Required
Remote reservoir degreasing unit	30 TAC § 106.454	None

Special Conditions  
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Sources	PBR	Registration No./Date
Tanks to store diesel, lube oil, kerosene and ethylene glycol	30 TAC § 106.472	None
Loading, unloading and storage of Gasoline	30 TAC § 106.473	None
Pressure vessels	30 TAC § 106.476	None
Four 440-hp and two 587-hp emergency generators and one 225-hp fire water pump	30 TAC § 106.511	None
Water treatment system and wastewater treatment	30 TAC § 106.532	None

Date: July 15, 2014

Attachment A

ILE Planned Maintenance Activities at the Midlothian Energy Facility

Planned Maintenance Activity	EPN	Emissions					
		VOC	NO <sub>x</sub>	CO	PM	SO <sub>2</sub>	NH <sub>3</sub>
Process-related building and turbine air-intake filter maintenance <sup>1</sup>	MSSFUG				x		
Catalyst handling and maintenance <sup>2</sup>	MSSFUG				x		
Maintenance of reservoirs or storage tanks storing lube oil, fuel oil, or other material with vapor pressure <0.5 psia <sup>3</sup>	MSSFUG	x					
Maintenance of storage vessels storing gasoline or other material with a vapor pressure >0.5 psia that does not require clearing to allow for entry of personnel <sup>3</sup>	MSSFUG	x					
Ammonia storage tank/vessel maintenance, requiring clearing for personnel entry <sup>3</sup>	MSSFUG						x
Sludge Management <sup>4</sup>	MSSFUG	x					
Inspection, repair, replacement, adjusting, testing, and calibration of analytical equipment and process instruments, including sight glasses, meters, gauges, CEMS, and PEMS.	MSSFUG	x					
CEMS Calibration	MSSFUG		x	x			
Turbine washing - unit online	STACKs 1-6				x		
Small equipment and fugitive component repair/replacement in VOC service <sup>5</sup>	MSSFUG	x					
Small equipment and fugitive component repair/replacement in NH <sub>3</sub> service <sup>6</sup>	MSSFUG						x
Gaseous fuel venting	MSSFUG	x					
Vacuum truck solids loading	MSSFUG				x		

Attachment A, continued

ILE Table Notes:

1. Includes, but is not limited to, process-related building air filters and CT air intake filters.
2. Includes, but is not limited to, replacement, cleaning, activation, and deactivation of SCR and oxidation catalysts.
3. Includes, but is not limited to, related emptying, degassing, and cleaning.
4. Includes, but is not limited to, management by vacuum truck/dewatering of materials in open pits and ponds, sumps, tanks and other closed or open vessels. Materials include water and sludge mixtures containing miscellaneous VOCs such as fuel oil, lube oil, and other waste oils.
5. Includes, but is not limited to:
  - (i) repair/replacement of pumps, compressors, valves, pipes, flanges, transport lines, filters and screens in fuel oil, diesel oil, lube oil, and gasoline service; and
  - (ii) vehicle and mobile equipment maintenance that may involve small VOC emissions, such as oil changes, transmission service, and hydraulic system service.
6. Includes, but is not limited to:
  - (i) repair/replacement of pumps, compressors, valves, pipes, flanges, transport lines, filters and screens in NH<sub>3</sub> service; and
  - (ii) off-line NO<sub>x</sub> control device maintenance, including maintenance of the aqueous NH<sub>3</sub> systems associated with SCR systems.

Date: April 22, 2013

Attachment B

Non-ILE Planned Maintenance Activities at the Midlothian Energy Facility

Planned Maintenance Activity	EPNs	Emissions				
		VOC	NOX	CO	PM <sub>10</sub>	SO <sub>2</sub>
CT Maintenance and Tuning <sup>1</sup>	STACK1-6	x	x	x	X	x

<sup>1</sup>Includes, but is not limited to, combustion tuning, temperature mapping after B inspection, generator balancing, and gas turbine overspeed trip testing.

Date: April 22, 2013

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 38191 and PSDTX906

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

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
STACK1	Combustion Turbine ABB GT24 Normal and Hold Point 2 Natural Gas Firing	NO <sub>x</sub>	34	-
		CO	254	-
		VOC	17.6	-
		PM	24	-
		PM <sub>10</sub>	24	-
		SO <sub>2</sub>	5	-
		NH <sub>3</sub>	26.8	-
	Combustion Turbine ABB GT24 Normal and Hold Point 2 Fuel Oil Firing	NO <sub>x</sub>	75	-
		CO	310	-
		VOC	18	-
		PM	111	-
		PM <sub>10</sub>	111	-
		SO <sub>2</sub>	109	-
		NH <sub>3</sub>	31.8	-
	Combustion Turbine ABB GT24 Startup, Shutdown, and Transient (5,6)	NO <sub>x</sub>	990	-
		CO	2,100	-
		VOC	132	-
	Combustion Turbine ABB GT24 Maintenance/ CGT Tuning (5,6)	CO	3,500	-

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
STACK1	Combustion Turbine ABB GT24 Annual Emissions All Modes of Operation	NO <sub>x</sub>	-	151.6
		CO	-	259.3
		VOC	-	28.7
		PM	-	121.3
		PM <sub>10</sub>	-	121.3
		SO <sub>2</sub>	-	56.3
		NH <sub>3</sub>	-	119.2

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
STACK2	Combustion Turbine ABB GT24 Normal and Hold Point 2 Natural Gas Firing	NO <sub>x</sub>	34	-
		CO	254	-
		VOC	17.6	-
		PM	24	-
		PM <sub>10</sub>	24	-
		SO <sub>2</sub>	5	-
		NH <sub>3</sub>	26.8	-
	Combustion Turbine ABB GT24 Normal and Hold Point 2 Fuel Oil Firing	NO <sub>x</sub>	75	-
		CO	310	-
		VOC	18	-
		PM	111	-
		PM <sub>10</sub>	111	-
		SO <sub>2</sub>	109	-
		NH <sub>3</sub>	31.8	-
	Combustion Turbine ABB GT24 Startup, Shutdown, and Transient (5,6)	NO <sub>x</sub>	990	-
		CO	2,100	-
		VOC	132	-
	Combustion Turbine ABB GT24 Maintenance/ CGT Tuning (5,6)	CO	3,500	-

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
STACK2	Combustion Turbine ABB GT24 Annual Emissions All Modes of Operation	NO <sub>x</sub>	-	151.6
		CO	-	259.3
		VOC	-	28.7
		PM	-	121.3
		PM <sub>10</sub>	-	121.3
		SO <sub>2</sub>	-	56.3
		NH <sub>3</sub>	-	119.2

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
STACK3	Combustion Turbine ABB GT24 Normal and Hold Point 2 Natural Gas Firing	NO <sub>x</sub>	34	-
		CO	254	-
		VOC	17.6	-
		PM	24	-
		PM <sub>10</sub>	24	-
		SO <sub>2</sub>	5	-
		NH <sub>3</sub>	26.8	-
	Combustion Turbine ABB GT24 Normal and Hold Point 2 Fuel Oil Firing	NO <sub>x</sub>	75	-
		CO	310	-
		VOC	18	-
		PM	111	-
		PM <sub>10</sub>	111	-
		SO <sub>2</sub>	109	-
		NH <sub>3</sub>	31.8	-
	Combustion Turbine ABB GT24 Startup, Shutdown, and Transient (5,6)	NO <sub>x</sub>	990	-
		CO	2,100	-
		VOC	132	-
	Combustion Turbine ABB GT24 Maintenance/ CGT Tuning (5,6)	CO	3,500	-

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
STACK3	Combustion Turbine ABB GT24 Annual Emissions All Modes of Operation	NO <sub>x</sub>	-	151.6
		CO	-	259.3
		VOC	-	28.7
		PM	-	121.3
		PM <sub>10</sub>	-	121.3
		SO <sub>2</sub>	-	56.3
		NH <sub>3</sub>	-	119.2

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
STACK4	Combustion Turbine ABB GT24 Normal and Hold Point 2 Natural Gas Firing	NO <sub>x</sub>	34	-
		CO	254	-
		VOC	17.6	-
		PM	24	-
		PM <sub>10</sub>	24	-
		SO <sub>2</sub>	5	-
		NH <sub>3</sub>	26.8	-
	Combustion Turbine ABB GT24 Startup, Shutdown, and Transient (5,6)	NO <sub>x</sub>	990	-
		CO	2,100	-
		VOC	132	-
	Combustion Turbine ABB GT24 Maintenance/ CGT Tuning (5,6)	CO	3,500	-
	Combustion Turbine ABB GT24 Annual Emissions All Modes of Operation	NO <sub>x</sub>	-	131.4
		CO	-	197.1
		VOC	-	23.1
		PM	-	83.2
		PM <sub>10</sub>	-	83.2
		SO <sub>2</sub>	-	17.5
		NH <sub>3</sub>	-	119.2

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
STACK5	Combustion Turbine ABB GT24 Normal and Hold Point 2 Natural Gas Firing	NO <sub>x</sub>	34	-
		CO	254	-
		VOC	17.6	-
		PM	24	-
		PM <sub>10</sub>	24	-
		SO <sub>2</sub>	5	-
		NH <sub>3</sub>	26.8	-
	Combustion Turbine ABB GT24 Startup, Shutdown, and Transient (5,6)	NO <sub>x</sub>	990	-
		CO	2,100	-
		VOC	132	-
	Combustion Turbine ABB GT24 Maintenance/ CGT Tuning (5,6)	CO	3,500	-
	Combustion Turbine ABB GT24 Annual Emissions All Modes of Operation	NO <sub>x</sub>	-	131.4
		CO	-	197.1
		VOC	-	23.1
		PM	-	83.2
		PM <sub>10</sub>	-	83.2
		SO <sub>2</sub>	-	17.5
		NH <sub>3</sub>	-	119.2

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		
			lbs/hour	TPY (4)	
STACK6	Combustion Turbine ABB GT24 Normal and Hold Point 2 Natural Gas Firing	NO <sub>x</sub>	34	-	
		CO	254	-	
		VOC	17.6	-	
		PM	24	-	
		PM <sub>10</sub>	24	-	
		SO <sub>2</sub>	5	-	
		NH <sub>3</sub>	26.8	-	
	Combustion Turbine ABB GT24 Startup, Shutdown, and Transient (5,6)	NO <sub>x</sub>	990	-	
		CO	2,100	-	
		VOC	132	-	
	Combustion Turbine ABB GT24 Maintenance/ CGT Tuning (5,6)	CO	3,500	-	
	Combustion Turbine ABB GT24 Annual Emissions All Modes of Operation	NO <sub>x</sub>	-	131.4	
		CO	-	197.1	
		VOC	-	23.1	
		PM	-	83.2	
		PM <sub>10</sub>	-	83.2	
		SO <sub>2</sub>	-	17.5	
		NH <sub>3</sub>	-	119.2	
	TANK1	2.2 Million-Gallon Diesel Tank	VOC	1.5	0.65
	TANK2	2.2 Million-Gallon Diesel Tank	VOC	1.5	0.65

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
EMTANK1	600 Gallon Diesel Tanks	VOC	0.05	<0.01
EMTANK2	600 Gallon Diesel Tanks	VOC	0.05	<0.01
EMTANK3	600 Gallon Diesel Tanks	VOC	0.05	<0.01
EMTANK4	600 Gallon Diesel Tanks	VOC	0.05	<0.01
EMTANK5	600 Gallon Diesel Tanks	VOC	0.05	<0.01
EMTANK6	600 Gallon Diesel Tanks	VOC	0.05	<0.01
FUG-IG1	NH <sub>3</sub> Grid Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62
FUG-IG2	NH <sub>3</sub> Grid Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62
FUG-IG3	NH <sub>3</sub> Grid Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62
FUG-IG4	NH <sub>3</sub> Grid Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62
FUG-IG5	NH <sub>3</sub> Grid Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62
FUG-IG6	NH <sub>3</sub> Grid Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62
FUG-V1	NH <sub>3</sub> Vaporizer Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62
FUG-V2	NH <sub>3</sub> Vaporizer Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62
FUG-V3	NH <sub>3</sub> Vaporizer Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62
FUG-V4	NH <sub>3</sub> Vaporizer Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62
FUG-V5	NH <sub>3</sub> Vaporizer Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62
FUG-V6	NH <sub>3</sub> Vaporizer Fugitive Emissions (7)	NH <sub>3</sub>	0.14	0.62
LOR-1	Lube Oil Reservoir Vapor Extractor Vent (8)	VOC	<0.01	0.01
		PM	0.003	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
LOR-2	Lube Oil Reservoir Vapor Extractor Vent (8)	VOC	0.003	0.01
		PM	0.003	0.01
LOR-3	Lube Oil Reservoir Vapor Extractor Vent (8)	VOC	0.003	0.01
		PM	0.003	0.01
LOR-4	Lube Oil Reservoir Vapor Extractor Vent (8)	VOC	0.003	0.01
		PM	0.003	0.01
LOR-5	Lube Oil Reservoir Vapor Extractor Vent (8)	VOC	0.003	0.01
		PM	0.003	0.01
LOR-6	Lube Oil Reservoir Vapor Extractor Vent (8)	VOC	0.003	0.01
		PM	0.003	0.01
FUG	Normal Operations Site Fugitive Emission (7)	VOC	0.44	1.91
		NH <sub>4</sub> OH	0.22	0.98
MSSFUG	Maintenance Activities Site Fugitive Emissions (7)	VOC	21	1.1
		PM	4.5	0.1
		PM <sub>10</sub>	4.5	0.1
		PM <sub>2.5</sub>	4.5	0.1
		NH <sub>3</sub>	6.6	0.1

(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  
 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
 PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
 PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
 PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
 SO<sub>2</sub> - sulfur dioxide

Emission Sources - Maximum Allowable Emission Rates

NH<sub>3</sub> - ammonia  
NH<sub>4</sub>OH - ammonium hydroxide

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Hourly emissions shown are the only emissions that are higher than emissions during normal operations. Normal operations emission limits apply to pollutants not shown that are emitted during transient operation and CT maintenance, startup, and shutdown (MSS).
- (6) For CT MSS and transient operations, the number of hours that CO emissions may exceed 2,100 lb/hr is limited to no more than 75 hours per year for all turbines combined. The CO emissions shall not exceed 3,500 lb/hr during any of these 75 hours.
- (7) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (8) Compliance with lube oil extractor vent emission limits is demonstrated through periodic opacity readings in accordance with Title V Operating Permit Number O-1869.

Date: July 15, 2014