

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO  
Entergy Texas, Inc.

AUTHORIZING THE OPERATION OF  
Montgomery County Power Station  
Fossil Fuel Electric Power Generation

LOCATED AT  
Montgomery County, Texas  
Latitude 30° 26' 9" Longitude 95° 31' 14"  
Regulated Entity Number: RN100226877

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:     O4066     Issuance Date: \_\_\_\_\_

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For the Commission

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## **General Terms and Conditions**

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

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

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

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

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

## **Special Terms and Conditions:**

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

1. Permit holder shall comply with the following requirements:
  - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
  - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
  - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
  - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
  - E. Emission units subject to 40 CFR Part 63, Subparts YYYY and ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113,

Subchapter C, § 113.1080 and § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.

- F. For the purpose of generating emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 1 (Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
  - (i) Title 30 TAC § 101.302 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.303 (relating to Emission Reduction Credit Generation Certification)
  - (iii) Title 30 TAC § 101.304 (relating to Mobile Emission Reduction Credit Generation and Certification)
  - (iv) Title 30 TAC § 101.309 (relating to Emission Credit Banking and Trading)
  - (v) The terms and conditions by which the emission limits are established to generate the reduction credit are applicable requirements of this permit
  
- G. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:
  - (i) Title 30 TAC § 101.352 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.353 (relating to Allocation of Allowances)
  - (iii) Title 30 TAC § 101.354 (relating to Allowance Deductions)
  - (iv) Title 30 TAC § 101.356 (relating to Allowance Banking and Trading)
  - (v) Title 30 TAC § 101.359 (relating to Reporting)
  - (vi) Title 30 TAC § 101.360 (relating to Level of Activity Certification)
  - (vii) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit
  
- 2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
  - A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
  - B. Title 30 TAC § 101.3 (relating to Circumvention)
  - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
  - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
  - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)

- F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
  - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
  - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
  - I. Title 30 TAC § 101.222 (relating to Demonstrations)
  - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
    - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
    - (ii) Title 30 TAC § 111.111(a)(1)(E)
    - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
    - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<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. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)

- (ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)
- (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<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:
  - (1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
  - (2) Records of all observations shall be maintained.
  - (3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
  - (4) Compliance Certification:
    - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)
    - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- C. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
  - D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
    - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
    - (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)
    - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: Storage of Volatile Organic Compounds, the permit holder shall comply with the requirements of 30 TAC § 115.112(e)(1).
  5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
    - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
    - B. Title 40 CFR § 60.8 (relating to Performance Tests)
    - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
    - D. Title 40 CFR § 60.12 (relating to Circumvention)
    - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
    - F. Title 40 CFR § 60.14 (relating to Modification)
    - G. Title 40 CFR § 60.15 (relating to Reconstruction)
    - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
  6. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

#### **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 or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

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

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 (including the terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated November 13, 2023 in the application for project 35979), 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 Houston-Galveston-Brazoria Nonattainment area, 30 TAC § 117.9120

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)-(d)
- (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)-(d)
- (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.

### **Permit Location**

- 16. 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)**

- 17. 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**

- 18. For units MCPS1A and MCPS1B (identified in the Certificate of Representation as units CT1 and CT2), located at the affected source identified by ORIS/Facility code (60925), the designated representative and the owner or operator, as applicable, shall comply with the following Acid Rain Permit requirements.
  - A. General Requirements
    - (i) Under 30 TAC § 122.12(1) and 40 CFR Part 72, the Acid Rain Permit requirements contained here are a separable portion of the Federal Operating Permit (FOP) and have an independent public comment process which may be separate from, or combined with the FOP.

- (ii) The owner and operator shall comply with the requirements of 40 CFR Part 72 and 40 CFR Part 76. Any noncompliance with the Acid Rain Permit will be considered noncompliance with the FOP and may be subject to enforcement action.
- (iii) The owners and operators of the affected source shall operate the source and the unit in compliance with the requirements of this Acid Rain Permit and all other applicable State and federal requirements.
- (iv) The owners and operators of the affected source shall comply with the General Terms and Conditions of the FOP that incorporates this Acid Rain Permit.
- (v) The term for the Acid Rain permit shall commence with the issuance of the FOP that incorporates the Acid Rain permit and shall be run concurrent with the remainder of the term of the FOP. Renewal of the Acid Rain permit shall coincide with the renewal of the FOP that incorporates the Acid Rain permit and subsequent terms shall be no more than five years from the date of renewal of the FOP and run concurrent with the permit term of the FOP.

B. Monitoring Requirements

- (i) The owners and operators, and the designated representative, of the affected source and each affected unit at the source shall comply with the monitoring requirements contained in 40 CFR Part 75.
- (ii) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 and any other credible evidence shall be used to determine compliance by the affected source with the acid rain emissions limitations and emissions reduction requirements for 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.

#### **Cross-State Air Pollution Rule (CSAPR) Trading Program Requirements**

19. For units MCPS1A and MCPS1B (identified in the Certificate of Representation as units CT1 and CT2), located at the affected source identified by ORIS/Facility code (60925), the designated representative and the owner or operator, as applicable, shall comply with the following CSAPR requirements.
- A. General Requirements
    - (i) The owners and operators of the CSAPR NO<sub>x</sub> Ozone Season Group 2 source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall operate the source and the unit in compliance with the requirements of the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program and all other applicable State and federal requirements.
    - (ii) The owners and operators of the CSAPR NO<sub>x</sub> Ozone Season Group 2 source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall comply with the requirements of 40 CFR Part 97, Subpart EEEEE for CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program, and with the General Terms and Conditions of the Federal Operating Permit (FOP) that incorporates the CSAPR requirements.
  - B. Description of CSAPR Monitoring Provisions
    - (i) The CSAPR subject unit(s), and the unit-specific monitoring provisions at this source, are identified in the following paragraph(s). These unit(s) are subject to the requirements for the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program.

- (1) For unit(s) MCPS1A and MCPS1B (identified in the Certificate of Representation as units CT1 and CT2), the owners and operators shall comply with the continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR Part 75, Subpart H for NO<sub>x</sub>, and with the excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D for heat input.
  - (ii) The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR §§ 97.830 through 97.835 (CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable CSAPR trading program.
  - (iii) Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR §§ 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at <https://www.epa.gov/airmarkets/clean-air-markets-monitoring-plans-part-75-sources>.
  - (iv) Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR Part 75, Subpart E and 40 CFR § 75.66 and § 97.835 (CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at <https://www.epa.gov/airmarkets/part-75-petition-responses>.
  - (v) Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR §§ 97.830 through 97.834 (CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR § 75.66 and § 97.835 (CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on the EPA's website at <https://www.epa.gov/airmarkets/part-75-petition-responses>.
  - (vi) The descriptions of monitoring applicable to the unit(s) included above meet the requirement of 40 CFR §§ 97.830 through 97.834 (CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program), and therefore procedures for minor permit revisions, in accordance with 30 TAC § 122.217, may be used to add or change this unit's monitoring system description.
20. CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program Requirements (40 CFR § 97.806)
  - A. Designated representative requirements
    - (i) The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR §§ 97.813 through 97.818.
  - B. Emissions monitoring, reporting, and recordkeeping requirements



- (i) The owners and operators, and the designated representative, of each CSAPR NO<sub>x</sub> Ozone Season Group 2 source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR § 97.830 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), § 97.831 (initial monitoring system certification and recertification procedures), § 97.832 (monitoring system out-of-control periods), § 97.833 (notifications concerning monitoring), § 97.834 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and § 97.835 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (ii) The emissions data determined in accordance with 40 CFR § 97.830 through § 97.835 and any other credible evidence shall be used to calculate allocations of CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances under 40 CFR §§ 97.811(a)(2) and (b) and § 97.812 and to determine compliance with the CSAPR NO<sub>x</sub> Ozone Season Group 2 emissions limitation and assurance provisions under paragraph C. below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR §§ 97.830 through 97.835 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

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

(i) CSAPR NO<sub>x</sub> Ozone Season Group 2 emissions limitation

- (1) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO<sub>x</sub> Ozone Season Group 2 source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall hold, in the source's compliance account, CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR § 97.824(a) in an amount not less than the tons of total NO<sub>x</sub> emissions for such control period from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at the source.
- (2) If total NO<sub>x</sub> emissions during a control period in a given year from the CSAPR NO<sub>x</sub> Ozone Season Group 2 units at a CSAPR NO<sub>x</sub> Ozone Season Group 2 source are in excess of the CSAPR NO<sub>x</sub> Ozone Season Group 2 emissions limitation set forth in paragraph C.(i)(1) above, then:
  - (a) The owners and operators of the source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall hold the CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances required for deduction under 40 CFR § 97.824(d); and
  - (b) The owners and operators of the source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart EEEEE and the Clean Air Act.

(ii) CSAPR NO<sub>x</sub> Ozone Season Group 2 assurance provisions

- (1) If total NO<sub>x</sub> emissions during a control period in a given year from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO<sub>x</sub> emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR § 97.825(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR § 97.825(b), of multiplying -
  - (a) The quotient of the amount by which the common designated representative's share of such NO<sub>x</sub> emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO<sub>x</sub> emissions exceeds the respective common designated representative's assurance level; and
  - (b) The amount by which total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 sources in the state for such control period exceed the state assurance level.
- (2) The owners and operators shall hold the CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances required under paragraph C.(ii)(1) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
- (3) Total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 sources in the state during a control period in a given year exceed the state assurance level if such total NO<sub>x</sub> emissions exceed the sum, for such control period, of the state NO<sub>x</sub> Ozone Season Group 2 trading budget under 40 CFR § 97.810(a) and the state's variability limit under 40 CFR § 97.810(b).
- (4) It shall not be a violation of 40 CFR Part 97, Subpart EEEEE or of the Clean Air Act if total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total NO<sub>x</sub> emissions from the CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 sources in the state during a control period exceeds the common designated representative's assurance level.

- (5) To the extent the owners and operators fail to hold CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances for a control period in a given year in accordance with paragraphs C.(ii)(1) through (3) above,
  - (a) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
  - (b) Each CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs C.(ii)(1) through (3) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart EEEEE and the Clean Air Act.
- (iii) Compliance periods
  - (1) A CSAPR NO<sub>x</sub> Ozone Season Group 2 unit shall be subject to the requirements under paragraph C.(i) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.830(b) and for each control period thereafter.
  - (2) A CSAPR NO<sub>x</sub> Ozone Season Group 2 unit shall be subject to the requirements under paragraph C.(ii) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.830(b) and for each control period thereafter.
- (iv) Vintage of allowances held for compliance
  - (1) A CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance held for compliance with the requirements under paragraph C.(i)(1) above for a control period in a given year must be a CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance that was allocated for such control period or a control period in a prior year.
  - (2) A CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance held for compliance with the requirements under paragraphs C.(i)(2)(a) and (ii)(1) through (3) above for a control period in a given year must be a CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
- (v) Allowance Management System requirements. Each CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart EEEEE.
- (vi) Limited authorization. A CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance is a limited authorization to emit one ton of NO<sub>x</sub> during the control period in one year. Such authorization is limited in its use and duration as follows:
  - (1) Such authorization shall only be used in accordance with the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program; and

(2) Notwithstanding any other provision of 40 CFR Part 97, Subpart EEEEE, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(vii) Property right. A CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance does not constitute a property right.

D. FOP revision requirements

(i) No FOP revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances in accordance with 40 CFR Part 97, Subpart EEEEE.

(ii) This FOP incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR §§ 97.830 through 97.835, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, subpart H), an excepted monitoring system (pursuant to 40 CFR Part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR § 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, subpart E). Therefore the Description of CSAPR Monitoring Provisions for CSAPR subject unit(s) may be added to, or changed, in this FOP using procedures for minor permit revisions in accordance with 30 TAC § 122.217.

E. Additional recordkeeping and reporting requirements

(i) Unless otherwise provided, the owners and operators of each CSAPR NO<sub>x</sub> Ozone Season Group 2 source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(1) The certificate of representation under 40 CFR § 97.816 for the designated representative for the source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR § 97.816 changing the designated representative.

(2) All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart EEEEE.

(3) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program.

(ii) The designated representative of a CSAPR NO<sub>x</sub> Ozone Season Group 2 source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall make all

submissions required under the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program, except as provided in 40 CFR § 97.818. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under 30 TAC § 122.165.

F. Liability

- (i) Any provision of the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program that applies to a CSAPR NO<sub>x</sub> Ozone Season Group 2 source or the designated representative of a CSAPR NO<sub>x</sub> Ozone Season Group 2 source shall also apply to the owners and operators of such source and of the CSAPR NO<sub>x</sub> Ozone Season Group 2 units at the source.
- (ii) Any provision of the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program that applies to a CSAPR NO<sub>x</sub> Ozone Season Group 2 unit or the designated representative of a CSAPR NO<sub>x</sub> Ozone Season Group 2 unit shall also apply to the owners and operators of such unit.

G. Effect on other authorities

- (i) No provision of the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program or exemption under 40 CFR § 97.805 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO<sub>x</sub> Ozone Season Group 2 source or CSAPR NO<sub>x</sub> Ozone Season Group 2 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

**Federal Implementation Plan for Regional Haze (Texas SO<sub>2</sub> Trading Program) Requirements**

21. For units MCPS1A and MCPS1B (identified in the Certificate of Representation as units CT1 and CT2), located at the site identified by Plant code/ORIS/Facility code 60925, the designated representative and the owner or operator, as applicable, shall comply with the following Texas SO<sub>2</sub> Trading Program requirements.

A. General Requirements

- (i) The owners and operators of the Texas SO<sub>2</sub> Trading Program source and each Texas SO<sub>2</sub> Trading Program unit at the source shall operate the source and the unit in compliance with the requirements of the Texas SO<sub>2</sub> Trading Program and all other applicable State and federal requirements.
- (ii) The owners and operators of the Texas SO<sub>2</sub> Trading Program source and each Texas SO<sub>2</sub> Trading Program unit at the source shall comply with the requirements of 40 CFR Part 97, Subpart FFFFF for Texas SO<sub>2</sub> Trading Program, and with the General Terms and Conditions of the Federal Operating Permit (FOP) that incorporates the Texas SO<sub>2</sub> Trading Program requirements.

B. Description of Monitoring Provisions

- (i) The Texas SO<sub>2</sub> Trading Program subject unit(s), and the unit-specific monitoring provisions at this source, are identified in the following paragraph(s).
  - (1) For unit(s) MCPS1A and MCPS1B (identified in the Certificate of

(2) Representation as units CT1 and CT2), the owners and operators shall comply with the excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D for SO<sub>2</sub> and heat input.

- (ii) The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR §§ 97.930 through 97.935 (Texas SO<sub>2</sub> Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the Texas SO<sub>2</sub> Trading Program.
- (iii) Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR §§ 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at <https://www.epa.gov/airmarkets/clean-air-markets-monitoring-plans-part-75-sources>.
- (iv) Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR Part 75, Subpart E and 40 CFR § 75.66 and § 97.935 (Texas SO<sub>2</sub> Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at <https://www.epa.gov/airmarkets/part-75-petition-responses>.
- (v) Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR §§ 97.930 through 97.934 (Texas SO<sub>2</sub> Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR § 75.66 and § 97.935 (Texas SO<sub>2</sub> Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on the EPA's website at <https://www.epa.gov/airmarkets/part-75-petition-responses>.
- (vi) The descriptions of monitoring applicable to the unit(s) included above meet the requirement of 40 CFR §§ 97.930 through 97.934 (Texas SO<sub>2</sub> Trading Program), and therefore procedures for minor permit revisions, in accordance with 30 TAC § 122.217, may be used to add or change this unit's monitoring system description.

22. Texas SO<sub>2</sub> Trading Program Requirements (40 CFR § 97.906)

A. Designated representative requirements

- (i) The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR §§ 97.913 through 97.918.

B. Emissions monitoring, reporting, and recordkeeping requirements

- (i) The owners and operators, and the designated representative, of each Texas SO<sub>2</sub> source and each Texas SO<sub>2</sub> unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR § 97.930 (general requirements, including installation, certification, and data accounting,

compliance deadlines, reporting data, prohibitions, and long-term cold storage), § 97.931 (initial monitoring system certification and recertification procedures), § 97.932 (monitoring system out-of-control periods), § 97.933 (notifications concerning monitoring), § 97.934 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and § 97.935 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

- (ii) The emissions data determined in accordance with §§ 97.930 through 97.935 shall be used to calculate allocations of Texas SO<sub>2</sub> Trading Program allowances under § 97.912 and to determine compliance with the Texas SO<sub>2</sub> Trading Program emissions limitation under paragraph (c) of this section, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with §§ 97.930 through 97.935 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero and any fraction of a ton greater than or equal to 0.50 being deemed to be a whole ton.

C. SO<sub>2</sub> emissions requirements

(i) Texas SO<sub>2</sub> Trading Program emissions limitation

- (1) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each Texas SO<sub>2</sub> Trading Program source and each Texas SO<sub>2</sub> Trading Program unit at the source shall hold, in the source's compliance account, Texas SO<sub>2</sub> Trading Program allowances available for deduction for such control period under § 97.924(a) in an amount not less than the tons of total SO<sub>2</sub> emissions for such control period from all Texas SO<sub>2</sub> Trading Program units at the source.
- (2) If total SO<sub>2</sub> emissions during a control period in a given year from the Texas SO<sub>2</sub> Trading Program units at a Texas SO<sub>2</sub> Trading Program source are in excess of the Texas SO<sub>2</sub> Trading Program emissions limitation set forth in paragraph C.(i)(1) of this section, then:
  - (a) The owners and operators of the source and each Texas SO<sub>2</sub> Trading Program unit at the source shall hold the Texas SO<sub>2</sub> Trading Program allowances required for deduction under § 97.924(d); and
  - (b) The owners and operators of the source and each Texas SO<sub>2</sub> Trading Program unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.

- (ii) Compliance periods. A Texas SO<sub>2</sub> Trading Program unit shall be subject to the requirements under paragraph C.(i) of this section for the control period starting on the later of January 1, 2019 or the deadline for meeting the unit's monitor certification requirements under § 97.930(b) and for each control period thereafter.

- (iii) Vintage of allowances held for compliance
  - (1) A Texas SO<sub>2</sub> Trading Program allowance held for compliance with the requirements under paragraph C.(i)(1) of this section for a control period in a given year must be a Texas SO<sub>2</sub> Trading Program allowance that was allocated for such control period or a control period in a prior year.
  - (2) A Texas SO<sub>2</sub> Trading Program allowance held for compliance with the requirements under paragraph C.(i)(2)(a) of this section for a control period in a given year must be a Texas SO<sub>2</sub> Trading Program allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
- (iv) Allowance Management System requirements. Each Texas SO<sub>2</sub> Trading Program allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart FFFFF.
- (v) Limited authorization. A Texas SO<sub>2</sub> Trading Program allowance is a limited authorization to emit one ton of SO<sub>2</sub> during the control period in one year. Such authorization is limited in its use and duration as follows:
  - (1) Such authorization shall only be used in accordance with the Texas SO<sub>2</sub> Trading Program; and
  - (2) Notwithstanding any other provision of 40 CFR Part 97, Subpart FFFFF, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
- (vi) Property right. A Texas SO<sub>2</sub> Trading Program allowance does not constitute a property right.

D. FOP revision requirements

- (i) No FOP revision shall be required for any allocation, holding, deduction, or transfer of Texas SO<sub>2</sub> Trading Program allowances in accordance with 40 CFR Part 97, Subpart FFFFF.
- (ii) This FOP incorporates the Texas SO<sub>2</sub> Trading Program emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR §§ 97.930 through 97.935, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, subpart B), an excepted monitoring system (pursuant to 40 CFR Part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR § 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, subpart E). Therefore the Description of Monitoring Provisions for Texas SO<sub>2</sub> Trading Program subject unit(s) may be added to, or changed, in this FOP using procedures for minor permit revisions in accordance with 30 TAC § 122.217.

E. Additional recordkeeping and reporting requirements

- (i) Unless otherwise provided, the owners and operators of each Texas SO<sub>2</sub> Trading Program source and each Texas SO<sub>2</sub> Trading Program unit at the source shall



keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

- (1) The certificate of representation under § 97.916 for the designated representative for the source and each Texas SO<sub>2</sub> Trading Program unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under § 97.916 changing the designated representative.
  - (2) All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart FFFFF.
  - (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the Texas SO<sub>2</sub> Trading Program.
- (ii) The designated representative of a Texas SO<sub>2</sub> Trading Program source and each Texas SO<sub>2</sub> Trading Program unit at the source shall make all submissions required under the Texas SO<sub>2</sub> Trading Program, except as provided in § 97.918. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under 30 TAC § 122.165.

F. Liability

- (i) Any provision of the Texas SO<sub>2</sub> Trading Program that applies to a Texas SO<sub>2</sub> Trading Program source or the designated representative of a Texas SO<sub>2</sub> Trading Program source shall also apply to the owners and operators of such source and of the Texas SO<sub>2</sub> Trading Program units at the source.
- (ii) Any provision of the Texas SO<sub>2</sub> Trading Program that applies to a Texas SO<sub>2</sub> Trading Program unit or the designated representative of a Texas SO<sub>2</sub> Trading Program unit shall also apply to the owners and operators of such unit.

G. Effect on other authorities

- (i) No provision of the Texas SO<sub>2</sub> Trading Program or exemption under § 97.905 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a Texas SO<sub>2</sub> Trading Program source or Texas SO<sub>2</sub> Trading Program 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**

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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**

<b>Unit/Group/ Process ID No.</b>	<b>Unit Type</b>	<b>Group/Inclusive Units</b>	<b>SOP Index No.</b>	<b>Regulation</b>	<b>Requirement Driver</b>
GRPMCLDCON	LOADING/UNLOADING OPERATIONS	MCPSTK3LD, MCPSTK4LD, MCPSTK5LD	R5211-3	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
GRPMCLDVP	LOADING/UNLOADING OPERATIONS	MCPSTK10LD, MCPSTK12LD, MCPSTK13LD, MCPSTK14LD, MCPSTK15LD, MCPSTK16LD, MCPSTK17LD, MCPSTK1LD, MCPSTK21LD, MCPSTK22LD, MCPSTK2LD, MCPSTK6LD, MCPSTK7LD, MCPSTK8LD	R5211-2	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
GRPMCPSTKV	STORAGE TANKS/VESSELS	MCPSTK12, MCPSTK7, MCPSTK8, MCPSTK9	R5112-2	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRPMCUNVP	LOADING/UNLOADING OPERATIONS	MCPSTK10UN, MCPSTK11UN, MCPSTK12UN, MCPSTK13UN, MCPSTK14UN, MCPSTK15UN, MCPSTK16UN, MCPSTK19UN, MCPSTK1UN, MCPSTK21UN, MCPSTK22UN, MCPSTK2UN,	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.

**Unit Summary**

<b>Unit/Group/ Process ID No.</b>	<b>Unit Type</b>	<b>Group/Inclusive Units</b>	<b>SOP Index No.</b>	<b>Regulation</b>	<b>Requirement Driver</b>
		MCPSTK6UN, MCPSTK7UN, MCPSTK8UN, MCPSTK9UN			
GRPTURB	STATIONARY TURBINES	MCPS1A, MCPS1B	R7101-1	30 TAC Chapter 117, Utility Electric Generation	No changing attributes.
GRPTURB	STATIONARY TURBINES	MCPS1A, MCPS1B	60KKKK-1	40 CFR Part 60, Subpart KKKK	No changing attributes.
GRPTURB	STATIONARY TURBINES	MCPS1A, MCPS1B	60TTTT-1	40 CFR Part 60, Subpart TTTT	No changing attributes.
GRPTURB	STATIONARY TURBINES	MCPS1A, MCPS1B	63YYYY-1	40 CFR Part 63, Subpart YYYY	No changing attributes.
GRPTURB-111	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	MCPS1A, MCPS1B	R1151-1	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
GRPTURB-111	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	MCPS1A, MCPS1B	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
MCPS-CTW	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-2	30 TAC Chapter 111, Visible Emissions	No changing attributes.
MCPS-EMGEN	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
MCPS-EMGEN	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
MCPS-FWP	SRIC ENGINES	N/A	60IIII-2	40 CFR Part 60, Subpart IIII	No changing attributes.
MCPS-FWP	SRIC ENGINES	N/A	63ZZZZ-2	40 CFR Part 63, Subpart ZZZZ	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)
GRPMCLDC ON	EU	R5211-3	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(2)(A) [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
GRPMCLDV P	EU	R5211-2	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
GRPMCPST KV	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
GRPMCUN VP	EU	R5211-1	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
GRPTURB	EU	R7101-1	CO	30 TAC Chapter 117, Utility Electric Generation	§ 117.1210(b)(1) § 117.1210(b) § 117.1210(b)(1)(B)	No person shall allow the discharge into the atmosphere from any unit	§ 117.1235(a) § 117.1235(a)(1) § 117.1235(a)(3)	§ 117.1245(a) [G]§ 117.1245(e)	§ 117.1235(b) § 117.1245(b) § 117.1245(b)(1)

**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)
						subject to the NO <sub>x</sub> emission specifications specified in subsection (a) of this section, carbon monoxide (CO) emissions in excess of 400 parts per million by volume (ppmv) at 3.0% oxygen (O <sub>2</sub> ), dry, or alternatively, 0.30 lb/MMBtu heat input for gas-fired stationary gas turbines.	§ 117.1235(c) § 117.1235(d) § 117.1235(d)(5) § 117.1240(b) § 117.1240(d) [G]§ 117.1240(d)(2) § 117.1240(i) § 117.8110(a) § 117.8110(a)(1) [G]§ 117.8110(a)(2) § 117.8120 § 117.8120(1) § 117.8120(1)(A)		§ 117.1245(b)(2) [G]§ 117.1245(c) § 117.1245(d) § 117.1245(d)(2) § 117.1245(d)(3) § 117.1245(d)(4) § 117.1245(d)(5) § 117.1256 § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
GRPTURB	EU	R7101-1	NH <sub>3</sub>	30 TAC Chapter 117, Utility Electric Generation	§ 117.1210(b)(2) § 117.1210(b) § 117.1210(b)(2)(A)	No person shall allow the discharge into the atmosphere from any unit subject to the NO <sub>x</sub> emission specifications specified in subsection (a) of this section, ammonia emissions in excess of 10 ppmv, at 15% O <sub>2</sub> , dry, for stationary gas turbines (including duct burners used in turbine exhaust ducts) that inject urea or ammonia into the exhaust stream for NO <sub>x</sub> control.	§ 117.1235(a) § 117.1235(a)(2) § 117.1235(a)(3) § 117.1240(c) § 117.1240(i) § 117.8130 § 117.8130(3)	§ 117.1245(a) [G]§ 117.1245(e)	§ 117.1235(b) § 117.1245(b) § 117.1245(b)(1) § 117.1256 § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
GRPTURB	EU	R7101-1	NO <sub>x</sub>	30 TAC Chapter 117, Utility Electric Generation	§ 117.1210(a)(3) [G]§ 117.1203(c) § 117.1210(c)(3) § 117.1220(a)	Emission specifications for the Mass Emission Cap and Trade Program. The owner or operator of each	§ 117.1220(d) [G]§ 117.1220(e)(1) § 117.1220(h) § 117.1220(k)	§ 117.1220(f) § 117.1245(a) [G]§ 117.1245(e)	[G]§ 117.1203(c) § 117.1220(g) § 117.1235(b) § 117.1245(b)

**Applicable Requirements Summary**

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 117.1220(b) [G]§ 117.1220(c) § 117.1220(d) § 117.1220(e) § 117.1220(i) § 117.1220(j) § 117.1220(k) § 117.1220(l) § 117.1220(m) § 117.1240(l) § 117.1240(l)(2) § 117.1240(o) § 117.1240(o)(3)	stationary gas turbine (including duct burners used in turbine exhaust ducts), shall ensure that emissions of nitrogen oxides (NO <sub>x</sub> ) do not exceed 0.032, in lb/MMBtu heat input, on the basis of daily and 30-day averaging periods as specified in §117.1220 of this title, and as specified in the mass emissions cap and trade program of Chapter 101, Subchapter H, Division 3 of this title.	§ 117.1235(a) § 117.1235(a)(1) § 117.1235(a)(3) § 117.1235(c) § 117.1235(d) § 117.1235(d)(1) § 117.1235(d)(2) § 117.1235(d)(3) § 117.1240(a) § 117.1240(d) [G]§ 117.1240(d)(2) § 117.1240(i) § 117.1240(n) § 117.1240(o)(1) § 117.8110(a) § 117.8110(a)(1) [G]§ 117.8110(a)(2)		§ 117.1245(b)(1) § 117.1245(b)(2) [G]§ 117.1245(c) § 117.1245(d) § 117.1245(d)(2) § 117.1245(d)(3) § 117.1245(d)(4) § 117.1245(d)(5) [G]§ 117.1254(b) § 117.1254(c) § 117.1256 § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
GRPTURB	EU	60KKKK-1	SO <sub>2</sub>	40 CFR Part 60, Subpart KKKK	§ 60.4330(a)(2) § 60.4333(a)	You must not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 26 ng SO <sub>2</sub> /J (0.060 lb SO <sub>2</sub> /MMBtu) heat input. If your turbine simultaneously fires multiple fuels, each fuel must meet this requirement.	§ 60.4365 § 60.4365(a) § 60.4415(a) § 60.4415(a)(2) § 60.4415(a)(2)(ii)	§ 60.4365(a)	§ 60.4375(a)
GRPTURB	EU	60TTTT-1	CO <sub>2</sub>	40 CFR Part 60, Subpart TTTT	§ 60.5520(a)-Table 2 § 60.5520(a)	For each newly constructed or reconstructed stationary combustion turbine that	§ 60.5525(a)(1) § 60.5535(a) § 60.5535(c)	§ 60.5535(c)(4) § 60.5535(d)(1) § 60.5560(a)	§ 60.5535(c)(4) § 60.5550(a) § 60.5550(b)



**Applicable Requirements Summary**

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.5520(b) § 60.5525 § 60.5525(a) § 60.5525(b) § 60.5525(c) § 60.5525(c)(1) § 60.5525(c)(1)(i) § 60.5540(a) [G]§ 60.5540(a)(1) [G]§ 60.5540(a)(2) § 60.5540(a)(3)	supplies more than its design efficiency or 50 percent, whichever is less, times its potential electric output as net-electric sales on a 12-operating month and a 3-year rolling average basis and combusts more than 90% natural gas on a heat input basis on a 12-operating-month rolling average basis, do not discharge 450 kg of CO2 per MWh of gross energy output (1,000 lb CO2/MWh), as listed in Table 2 to this subpart.	§ 60.5535(c)(2) § 60.5535(c)(3) § 60.5535(c)(4) § 60.5535(d) § 60.5535(d)(1) § 60.5540(a) § 60.5540(a)(4) § 60.5540(a)(5) § 60.5540(a)(5)(i) § 60.5540(a)(5)(ii) § 60.5540(a)(6) § 60.5540(a)(6)(i) § 60.5540(a)(7) § 60.5540(b)	§ 60.5560(b)(1) [G]§ 60.5560(c) § 60.5560(d) § 60.5560(e) § 60.5560(f) § 60.5560(g) § 60.5565(a) § 60.5565(b) § 60.5565(c)	§ 60.5555(a) § 60.5555(a)(1) [G]§ 60.5555(a)(2) [G]§ 60.5555(a)(3) § 60.5555(b) § 60.5555(c)(1) § 60.5555(c)(3)(i) § 60.5555(c)(3)(i)(A) § 60.5555(c)(3)(i)(B) § 60.5555(c)(4) [G]§ 60.5555(d)
GRPTURB	EU	63YYYY-1	Formaldehyde	40 CFR Part 63, Subpart YYYY	§ 63.6100-Table 1.1 § 63.6100 § 63.6100-Table 2.1 § 63.6105(a) § 63.6105(c) § 63.6130(a) § 63.6130(a)-Table 4 § 63.6140(a) § 63.6165	For each new or reconstructed stationary combustion turbine described in §63.6100, which is a lean premix gas-fired stationary combustion turbine as defined in this subpart, must limit the concentration of formaldehyde to 91 ppbvd or less at 15% O2.	§ 63.6110(a) [G]§ 63.6110(b) § 63.6115 § 63.6120(c) § 63.6125(a) § 63.6125(e) § 63.6135(a) § 63.6140(a)-Table 5.1 § 63.6140(a)-Table 5.2 § 63.6145(e) § 63.6145(f)	§ 63.6125(e) § 63.6135(b) § 63.6155(a) § 63.6155(a)(1) § 63.6155(a)(2) § 63.6155(a)(5) § 63.6155(a)(6) [G]§ 63.6155(a)(7) § 63.6155(c) § 63.6155(d) § 63.6160(a) § 63.6160(b) § 63.6160(c)	§ 63.6130(b) § 63.6140(b) § 63.6145(a) § 63.6145(b) § 63.6145(c) § 63.6145(e) § 63.6145(f) § 63.6150(a) § 63.6150(a)(1) § 63.6150(a)(2) § 63.6150(a)(3) [G]§ 63.6150(a)(5) § 63.6150(a)-Table 6.1 § 63.6150(a)-Table 6.3.1 § 63.6150(a)-Table 6.3.2 § 63.6150(a)-Table 6.3.3 [G]§ 63.6150(b) [G]§ 63.6150(d) [G]§ 63.6150(f) § 63.6150(g) [G]§ 63.6150(h) [G]§ 63.6150(i)

**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)
GRPTURB-111	EP	R1151-1	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See Periodic Monitoring Summary	None	None
GRPTURB-111	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
MCPS-CTW	EP	R1111-2	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
MCPS-EMGEN	EU	60III-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

**Applicable Requirements Summary**

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.			
MCPS-EMGEN	EU	60III-1	NMHC and NO <sub>x</sub>	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than 560 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NO <sub>x</sub> emission limit of 6.4 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
MCPS-EMGEN	EU	60III-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
MCPS-EMGEN	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(b)(1) § 63.6595(c) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i)	An affected source which meets either of the criteria in paragraphs §63.6590(b)(1)(i)-(ii) of this section does not have to	None	None	§ 63.6645(f)

**Applicable Requirements Summary**

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.6640(f)(3)	meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f).			
MCPS-FWP	EU	60III-2	NMHC and NO <sub>x</sub>	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with an NMHC+NO <sub>x</sub> emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
MCPS-FWP	EU	60III-2	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
MCPS-FWP	EU	63ZZZZ-2	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the	None	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			

**Additional Monitoring Requirements**

**Periodic Monitoring Summary ..... 37**

### Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRPTURB-111	
Control Device ID No.: N/A	Control Device Type: N/A
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-1
Pollutant: PM	Main Standard: § 111.151(a)
<b>Monitoring Information</b>	
Indicator: Fuel Type	
Minimum Frequency: Annually	
Averaging Period: N/A	
Deviation Limit: If an alternate fuel is fired, either alone or in combination with pipeline quality natural gas, it shall be considered and reported as a deviation.	
Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, it shall be considered and reported as a deviation.	

### Periodic Monitoring Summary

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



### Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: MCPS-CTW	
Control Device ID No.: N/A	Control Device Type: N/A
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-2
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: If visible emissions are observed, it shall be considered and reported as a deviation. Alternatively, opacity may be determined using Test Method 9.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

**Permit Shield**

**Permit Shield ..... 41**

**Permit Shield**

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
GRPMCPSTKG	MCPSTK1, MCPSTK10, MCPSTK11, MCPSTK13, MCPSTK14, MCPSTK15, MCPSTK16, MCPSTK19, MCPSTK2, MCPSTK21, MCPSTK22, MCPSTK3, MCPSTK4, MCPSTK5, MCPSTK6	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 1,000 gallons.
GRPMCPSTKG	MCPSTK1, MCPSTK10, MCPSTK11, MCPSTK13, MCPSTK14, MCPSTK15, MCPSTK16, MCPSTK19, MCPSTK2, MCPSTK21, MCPSTK22, MCPSTK3, MCPSTK4, MCPSTK5, MCPSTK6	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,800 gallons).
GRPMCPSTKI	MCPSTK18, MCPSTK20	30 TAC Chapter 115, Storage of VOCs	Tank does not store volatile organic compounds (VOC).
GRPMCPSTKI	MCPSTK18, MCPSTK20	40 CFR Part 60, Subpart Kb	Tank does not store volatile organic compounds (VOC).
GRPMCPSTKV	MCPSTK12, MCPSTK7, MCPSTK8, MCPSTK9	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,800 gallons).
GRPMCUNIN	MCPSTK18UN, MCPSTK20UN	30 TAC Chapter 115, Loading and Unloading of VOC	Material unloaded is not a volatile organic compound (VOC).
GRPTURB	MCPS1A, MCPS1B	40 CFR Part 60, Subpart Da	Heat recovery steam generators and duct burners subject to Subpart KKKK are exempt from the requirements of Subpart Da.
GRPTURB	MCPS1A, MCPS1B	40 CFR Part 60, Subpart Db	Heat recovery steam generators and duct burners subject to Subpart KKKK are exempt from the requirements of Subpart Db.
GRPTURB	MCPS1A, MCPS1B	40 CFR Part 60, Subpart Dc	Heat recovery steam generators and duct burners subject to Subpart KKKK are exempt

### Permit Shield

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			from the requirements of Subpart Dc.
GRPTURB	MCPS1A, MCPS1B	40 CFR Part 60, Subpart GG	Combustion turbines subject to Subpart KKKK are exempt from the requirements of Subpart GG.
MCPS-AMMFUG	N/A	40 CFR Part 61, Subpart J	These sources do not operate in benzene service as defined in 40 CFR 61.111.
MCPS-AMMFUG	N/A	40 CFR Part 61, Subpart V	These sources do not operate in volatile hazardous air pollutant (VHAP) service as defined in 40 CFR 61.241.
MCPS-AMMFUG	N/A	40 CFR Part 63, Subpart H	Fugitive piping components do not operate in organic HAP service as defined in 40 CFR 63.161 for 300 hours or more during a calendar year within a source subject to provisions in 40 CFR Part 63 that references 40 CFR Part 63, Subpart H.
MCPS-DSLUFUG	N/A	40 CFR Part 61, Subpart J	These sources do not operate in benzene service as defined in 40 CFR 61.111.
MCPS-DSLUFUG	N/A	40 CFR Part 61, Subpart V	These sources do not operate in volatile hazardous air pollutant (VHAP) service as defined in 40 CFR 61.241.
MCPS-DSLUFUG	N/A	40 CFR Part 63, Subpart H	Fugitive piping components do not operate in organic HAP service as defined in 40 CFR 63.161 for 300 hours or more during a calendar year within a source subject to provisions in 40 CFR Part 63 that references 40 CFR Part 63, Subpart H.
MCPS-LOV	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent gas stream has a combined weight of VOC less than or equal to 100 pounds in any

### Permit Shield

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			continuous 24-hour period.
MCPS-NGFUG	N/A	40 CFR Part 61, Subpart J	These sources do not operate in benzene service as defined in 40 CFR 61.111.
MCPS-NGFUG	N/A	40 CFR Part 61, Subpart V	These sources are in contact with a liquid or gas containing less than 10% VOC by weight and therefore do not operate in volatile hazardous air pollutant (VHAP) service as defined in 40 CFR 61.241.
MCPS-NGFUG	N/A	40 CFR Part 63, Subpart H	Fugitive piping components do not operate in organic HAP service as defined in 40 CFR 63.161 for 300 hours or more during a calendar year within a source subject to provisions in 40 CFR Part 63 that references 40 CFR Part 63, Subpart H.
MCPSTK17	N/A	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 1,000 gallons.
MCPSTK17	N/A	30 TAC Chapter 115, Water Separation	VOC water separator that separates materials that have a true vapor pressure less than 0.5 psia.
MCPSTK17	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,800 gallons).

**New Source Review Authorization References**

**New Source Review Authorization References ..... 45**

**New Source Review Authorization References by Emission Unit ..... 46**

### 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.: GHGPSDTX163	Issuance Date: 01/13/2022
PSD Permit No.: PSDTX1510	Issuance Date: 01/12/2021
<b>Nonattainment (NA) Permits</b>	
NA Permit No.: N256	Issuance Date: 01/12/2021
<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.: 143912	Issuance Date: 01/12/2021
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000

### New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
MCPS-AMMFUG	MCPS AMMONIA FUGITIVE EMISSIONS	143912, PSDTX1510, N256
MCPS-CTW	MCPS COOLING TOWER	143912, PSDTX1510, N256
MCPS-DSLUG	MCPS DIESEL FUGITIVE EMISSIONS	143912, PSDTX1510, N256
MCPS-EMGEN	MCPS EMERGENCY GENERATOR	143912, GHGPSDTX163, PSDTX1510, N256
MCPS-FWP	MCPS EMERGENCY FIRE WATER PUMP	143912, GHGPSDTX163, PSDTX1510, N256
MCPS-LOV	MCPS LUBE OIL VENTS	143912, PSDTX1510, N256
MCPS-NGFUG	MCPS NATURAL GAS FUGITIVE EMISSIONS	143912, GHGPSDTX163, PSDTX1510, N256
MCPS1A	MCPS COMBINED CYCLE UNIT 1A (TURBINE + DB)	143912, GHGPSDTX163, PSDTX1510, N256
MCPS1B	MCPS COMBINED CYCLE UNIT 1B (TURBINE + DB)	143912, GHGPSDTX163, PSDTX1510, N256
MCPSTK1	GT 1A CONTROL OIL TANK	143912, PSDTX1510, N256
MCPSTK10	EMERGENCY GENERATOR ENGINE LUBE OIL TANK	143912, PSDTX1510, N256
MCPSTK10LD	EMERGENCY GENERATOR ENGINE LUBE OIL TANK LOADING	106.472/09/04/2000
MCPSTK10UN	EMERGENCY GENERATOR ENGINE LUBE OIL TANK UNLOADING	143912, PSDTX1510, N256
MCPSTK11	EMERGENCY FIREWATER PUMP ENGINE DIESEL TANK	143912, PSDTX1510, N256
MCPSTK11UN	EMERGENCY FIREWATER PUMP ENGINE DSL TANK UNLOADING	143912, PSDTX1510, N256
MCPSTK12	ST LUBE OIL TANK	143912, PSDTX1510, N256
MCPSTK12LD	ST LUBE OIL TANK LOADING	106.472/09/04/2000
MCPSTK12UN	ST LUBE OIL TANK UNLOADING	143912, PSDTX1510, N256
MCPSTK13	BOILER FEED PUMP LUBE OIL RESEVOIR 1	143912, PSDTX1510, N256
MCPSTK13LD	BOILER FEED PUMP LUBE OIL RESERVOIR 1 LOADING	106.472/09/04/2000
MCPSTK13UN	BOILER FEED PUMP LUBE OIL RESERVOIR 1 UNLOADING	143912, PSDTX1510, N256



**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**
MCPSTK14	BOILER FEED PUMP LUBE OIL RESEVOIR 2	143912, PSDTX1510, N256
MCPSTK14LD	BOILER FEED PUMP LUBE OIL RESERVOIR 2 LOADING	106.472/09/04/2000
MCPSTK14UN	BOILER FEED PUMP LUBE OIL RESERVOIR 2 UNLOADING	143912, PSDTX1510, N256
MCPSTK15	BOILER FEED PUMP LUBE OIL RESEVOIR 3	143912, PSDTX1510, N256
MCPSTK15LD	BOILER FEED PUMP LUBE OIL RESERVOIR 3 LOADING	106.472/09/04/2000
MCPSTK15UN	BOILER FEED PUMP LUBE OIL RESERVOIR 3 UNLOADING	143912, PSDTX1510, N256
MCPSTK16	BOILER FEED PUMP LUBE OIL RESEVOIR 4	143912, PSDTX1510, N256
MCPSTK16LD	BOILER FEED PUMP LUBE OIL RESERVOIR 4 LOADING	106.472/09/04/2000
MCPSTK16UN	BOILER FEED PUMP LUBE OIL RESERVOIR 4 UNLOADING	143912, PSDTX1510, N256
MCPSTK17	OIL WATER SEPARATOR	143912, PSDTX1510, N256
MCPSTK17LD	OIL WATER SEPARATOR LOADING	106.472/09/04/2000
MCPSTK18	COOLING TOWER SODIUM HYPOCHLORITE STORAGE TANK	143912, PSDTX1510, N256
MCPSTK18UN	COOLING WATER NA HYPOCHLORITE ST TANK UNLOADING	143912, PSDTX1510, N256
MCPSTK19	PORTABLE DIESEL TANK	143912, PSDTX1510, N256
MCPSTK19UN	PORTABLE DIESEL TANK UNLOADING	143912, PSDTX1510, N256
MCPSTK1LD	GT 1A CONTROL OIL TANK LOADING	106.472/09/04/2000
MCPSTK1UN	GT 1A CONTROL OIL TANK UNLOADING	143912, PSDTX1510, N256
MCPSTK2	GT 1B CONTROL OIL TANK	143912, PSDTX1510, N256
MCPSTK20	COOLING TOWER SULFURIC ACID TANK	143912, PSDTX1510, N256
MCPSTK20UN	COOLING TOWER SULFURIC ACID TANK UNLOADING	143912, PSDTX1510, N256
MCPSTK21	GT 1A SEAL OIL TANK	143912, PSDTX1510, N256

**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**
MCPSTK21LD	GT 1A SEAL OIL TANK LOADING	106.472/09/04/2000
MCPSTK21UN	GT 1A SEAL OIL TANK UNLOADING	143912, PSDTX1510, N256
MCPSTK22	GT1B SEAL OIL TANK	143912, PSDTX1510, N256
MCPSTK22LD	GT 1B SEAL OIL TANK LOADING	106.472/09/04/2000
MCPSTK22UN	GT 1B SEAL OIL TANK UNLOADING	143912, PSDTX1510, N256
MCPSTK2LD	GT 1B CONTROL OIL TANK LOADING	106.472/09/04/2000
MCPSTK2UN	GT 1B CONTROL OIL TANK UNLOADING	143912, PSDTX1510, N256
MCPSTK3	NG CONDENSATE FUEL DRAIN TANK 1	143912, PSDTX1510, N256
MCPSTK3LD	NG CONDENSATE FUEL DRAIN TANK 1 LOADING	106.473/09/04/2000
MCPSTK4	NG CONDENSATE FUEL DRAIN TANK 2	143912, PSDTX1510, N256
MCPSTK4LD	NG CONDENSATE FUEL DRAIN TANK 2 LOADING	106.473/09/04/2000
MCPSTK5	NG COMMON CONDENSATE FUEL DRAIN TANK 3	143912, PSDTX1510, N256
MCPSTK5LD	NG COMMON CONDENSATE FUEL DRAIN TANK 3 LOADING	106.473/09/04/2000
MCPSTK6	ST HYDRAULIC RESEVOIR/TANK	143912, PSDTX1510, N256
MCPSTK6LD	ST HYDRAULIC RESERVOIR/TANK LOADING	106.472/09/04/2000
MCPSTK6UN	ST HYDRAULIC RESERVOIR/TANK UNLOADING	143912, PSDTX1510, N256
MCPSTK7	GT 1A LUBE OIL TANK	143912, PSDTX1510, N256
MCPSTK7LD	GT 1A LUBE OIL TANK LOADING	106.472/09/04/2000
MCPSTK7UN	GT 1A LUBE OIL TANK UNLOADING	143912, PSDTX1510, N256
MCPSTK8	GT 1B LUBE OIL TANK	143912, PSDTX1510, N256
MCPSTK8LD	GT 1B LUBE OIL TANK LOADING	106.472/09/04/2000

**New Source Review Authorization References by Emissions Unit**

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
MCPSTK8UN	GT 1B LUBE OIL TANK UNLOADING	143912, PSDTX1510, N256
MCPSTK9	EMERGENCY GENERATOR ENGINE DIESEL TANK	143912, PSDTX1510, N256
MCPSTK9UN	EMERGENCY GENERATOR ENGINE DIESEL TANK UNLOADING	143912, PSDTX1510, N256

\*\*This column may include Permit by Rule (PBR) numbers and version dates, PBR Registration numbers in brackets, Standard Permit Registration numbers, Minor NSR permit numbers, and Major NSR permit numbers.

**Appendix A**

**Acronym List ..... 51**

## Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM	actual cubic feet per minute
AMOC	alternate means of control
ARP	Acid Rain Program
ASTM	American Society of Testing and Materials
B/PA	Beaumont/Port Arthur (nonattainment area)
CAM	Compliance Assurance Monitoring
CD	control device
CEMS	continuous emissions monitoring system
CFR	Code of Federal Regulations
COMS	continuous opacity monitoring system
CVS	closed vent system
D/FW	Dallas/Fort Worth (nonattainment area)
EP	emission point
EPA	U.S. Environmental Protection Agency
EU	emission unit
FCAA Amendments	Federal Clean Air Act Amendments
FOP	federal operating permit
gr/100 scf	grains per 100 standard cubic feet
HAP	hazardous air pollutant
H/G/B	Houston/Galveston/Brazoria (nonattainment area)
H <sub>2</sub> S	hydrogen sulfide
ID No.	identification number
lb/hr	pound(s) per hour
MACT	Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr	Million British thermal units per hour
NA	nonattainment
N/A	not applicable
NADB	National Allowance Data Base
NESHAP	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO <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
PEMS	predictive emissions monitoring system
PM	particulate matter
ppmv	parts per million by volume
PRO	process unit
PSD	prevention of significant deterioration
psia	pounds per square inch absolute
SIP	state implementation plan
SO <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 ..... 53**

### Major NSR Summary Table

Permit Numbers 143912, PSDTX1510, N256					Issuance Date: January 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
MCPS1A	MCPS Combined Cycle Unit 1A (Turbine + DB)	NO <sub>x</sub>	27.41	---	2, 4, 5, 15, 16, 17, 18	2, 5, 6, 15, 16, 17, 18, 20, 21	2, 5, 15, 16, 17, 18
		NO <sub>x</sub> MSS	170	---			
		CO	16.69	---			
		CO MSS	8000	---			
		VOC	9.56	---			
		VOC MSS	2000	---			
		SO <sub>2</sub>	10.47	---			
		PM	29.55	---			
		PM <sub>10</sub>	29.55	---			
		PM <sub>2.5</sub>	29.55	---			
		H <sub>2</sub> SO <sub>4</sub>	4.85	---			
		NH <sub>3</sub>	36.26	---			
		HAP	5.16	---			
MCPS1B	MCPS Combined Cycle Unit 1B (Turbine + DB)	NO <sub>x</sub>	27.41	---	2, 4, 5, 15, 16, 17, 18	2, 5, 6, 15, 16, 17, 18, 20, 21	2, 5, 15, 16, 17, 18
		NO <sub>x</sub> MSS	170	---			
		CO	16.69	---			

### Major NSR Summary Table

Permit Numbers 143912, PSDTX1510, N256					Issuance Date: January 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		CO MSS	8000	---			
		VOC	9.56	---			
		VOC MSS	2000	---			
		SO <sub>2</sub>	10.47	---			
		PM	29.55	---			
		PM <sub>10</sub>	29.55	---			
		PM <sub>2.5</sub>	29.55	---			
		H <sub>2</sub> SO <sub>4</sub>	4.85	---			
		NH <sub>3</sub>	36.26	---			
		HAP	5.16	---			
MCPS1-CAP	MCPS Combined Cycle Unit 1 Emission Cap	NO <sub>x</sub>	---	192.95	2, 4, 5, 15, 16, 18	2, 5, 6, 15, 16, 18, 20, 21	2, 5, 15, 16, 18
		CO	---	265.63			
		VOC	---	109.90			
		SO <sub>2</sub>	---	71.55			
		PM	---	125.71			
		PM <sub>10</sub>	---	125.71			



### Major NSR Summary Table

Permit Numbers 143912, PSDTX1510, N256					Issuance Date: January 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM <sub>2.5</sub>	---	125.71			
		H <sub>2</sub> SO <sub>4</sub>	---	33.18			
		NH <sub>3</sub>	---	247.80			
		HAP	---	33.93			
MCPS-CTW	MCPS Cooling Tower	PM	1.23	5.40	8, 9	8, 9, 20, 21	8
		PM <sub>10</sub>	0.63	2.76			
		PM <sub>2.5</sub>	0.01	0.04			
MCPS-EMGEN	MCPS Emergency Generator	NO <sub>x</sub>	25.94	1.30	2, 7	2, 7, 21	2
		CO	14.81	0.74			
		VOC	1.41	0.07			
		SO <sub>2</sub>	0.03	<0.01			
		PM	0.85	0.04			
		PM <sub>10</sub>	0.85	0.04			
		PM <sub>2.5</sub>	0.85	0.04			
		HAP	0.03	<0.01			
MCPS-FWP	MCPS Emergency Fire	NO <sub>x</sub>	1.77	0.09	2, 7	2, 7, 21	2

### Major NSR Summary Table

Permit Numbers 143912, PSDTX1510, N256					Issuance Date: January 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Water Pump	CO	1.62	0.08			
		VOC	0.1	<0.01			
		SO <sub>2</sub>	<0.01	<0.01			
		PM	0.09	<0.01			
		PM <sub>10</sub>	0.09	<0.01			
		PM <sub>2.5</sub>	0.09	<0.01			
		HAPs	0.01	<0.01			
MCPS-NGFUG	MCPS Natural Gas Fugitive Emissions (5)	VOC	0.17	0.74	19	19, 21	
		HAP	<0.01	<0.01			
MCPS-AMMFUG	MCPS Ammonia Fugitive Emissions (5)	NH <sub>3</sub>	0.04	0.18	12, 19	11, 12, 19, 21	
MCPS-DSLFUG	MCPS Diesel Fugitive Emissions (5)	VOC	0.08	0.34	13	13, 21	
		HAP	0.08	0.34			
MCPS-LOV	MCPS Lube Oil Vents	VOC	0.03	0.13			
MCPSMSSFUG	MCPS Maintenance Activities (5)	NO <sub>x</sub>	<0.01	<0.01	19	19, 21	
		CO	<0.01	<0.01			
		VOC	60.87	1.49			

## Major NSR Summary Table

Permit Numbers 143912, PSDTX1510, N256					Issuance Date: January 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM	2.68	0.08			
		PM <sub>10</sub>	2.67	0.08			
		PM <sub>2.5</sub>	2.66	0.08			
		HAP	0.30	0.01			
MCPSTK1	GT 1A Control Oil Tank	VOC	<0.01	<0.01		10, 21	
MCPSTK2	GT 1B Control Oil Tank	VOC	<0.01	<0.01		10, 21	
MCPSTK3	NG Condensate Fuel Drain Tank 1	VOC	3.15	0.08		10, 21	
MCPSTK4	NG Condensate Fuel Drain Tank 2	VOC	3.15	0.08		10, 21	
MCPSTK5	NG Condensate Fuel Drain Tank 3	VOC	3.15	0.08		10, 21	
MCPSTK6	ST Hydraulic Reservoir/Tank	VOC	<0.01	<0.01		10, 21	
MCPSTK7	GT 1A Lube Oil Tank	VOC	<0.01	<0.01		10, 21	
MCPSTK8	GT 1B Lube Oil Tank	VOC	<0.01	<0.01		10, 21	
MCPSTK9	Emergency Generator Engine Diesel Tank	VOC	0.07	<0.01		10, 21	
MCPSTK10	Emergency Generator	VOC	<0.01	<0.01		10, 21	

## Major NSR Summary Table

Permit Numbers 143912, PSDTX1510, N256					Issuance Date: January 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Engine Lube Oil Tank						
MCPSTK11	Emergency Firewater Pump Engine Diesel Tank	VOC	0.02	<0.01		10, 21	
MCPSTK12	ST Lube Oil Tank	VOC	0.01	<0.01		10, 21	
MCPSTK13	Boiler Feed Pump Lube Oil Reservoir 1	VOC	<0.01	<0.01		10, 21	
MCPSTK14	Boiler Feed Pump Lube Oil Reservoir 2	VOC	<0.01	<0.01		10, 21	
MCPSTK15	Boiler Feed Pump Lube Oil Reservoir 3	VOC	<0.01	<0.01		10, 21	
MCPSTK16	Boiler Feed Pump Lube Oil Reservoir 4	VOC	<0.01	<0.01		10, 21	
MCPSTK17	Oil Water Separator	VOC	<0.01	<0.01		10, 21	
MCPSTK18	Clarifier Sodium Hypochlorite Tank	NaClO	0.15	<0.01		10, 21	
MCPSTK19	Cooling Water Sodium Hypochlorite Storage Tank	NaClO	0.11	<0.01		10, 21	
MCPSTK20	Portable Diesel Tank	VOC	0.03	<0.01		10, 21	
MCPSTK21	Aqueous Ammonia Tote	NH <sub>3</sub>	0.98	0.03		10, 21	

## Major NSR Summary Table

Permit Numbers 143912, PSDTX1510, N256					Issuance Date: January 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
MCPSTK22	Sulfuric Acid Tank	H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01		10, 21	

- (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) VOC
  - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - NO<sub>x</sub>
    - total oxides of nitrogen
  - SO<sub>2</sub>
    - sulfur dioxide
  - 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
  - CO
    - carbon monoxide
  - H<sub>2</sub>SO<sub>4</sub>
    - sulfuric acid
  - NaClO
    - sodium hypochlorite
  - NH<sub>3</sub>
    - ammonia
  - HAP
    - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

## Major NSR Summary Table

Permit Number GHGPSDTX163					Issuance Date: January 13, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
MCPS1-CAP	MCPS Combined Cycle Unit 1 Emission Cap	CO <sub>2</sub> (5)		3,038,717	3, 4, 7, 9	3, 4, 5, 7, 9, 10, 12	3, 8
		CH <sub>4</sub> (5)		56	7	7, 10, 12	8
		N <sub>2</sub> O (5)		5.6			
		CO <sub>2</sub> e		3,041,805			
MCPS-EMGEN	MCPS Emergency Generator	CO <sub>2</sub> (5)		149			
		CH <sub>4</sub> (5)		0.01			
		N <sub>2</sub> O (5)		<0.01			
		CO <sub>2</sub> e		150			
MCPS-FWP	MCPS Emergency Fire Water Pump	CO <sub>2</sub> (5)		16			
		CH <sub>4</sub> (5)		<0.01			
		N <sub>2</sub> O (5)		<0.01			
		CO <sub>2</sub> e		16			
MCPS-NGFUG	MCPS Natural Gas Fugitive Emissions	CO <sub>2</sub> (5)		2	6	6, 10	
		CH <sub>4</sub> (5)		37			
		CO <sub>2</sub> e		927			
MCPS-CBFUG	MCPS Circuit Breaker	SF <sub>6</sub> (5)		0.02	6	6, 10	

## Major NSR Summary Table

Permit Number GHGPSDTX163					Issuance Date: January 13, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Fugitives	CO <sub>2e</sub>		342			
MCPSSMSSFUG	MCPS Maintenance Activities	CO <sub>2</sub> (5)		4		10	
		CH <sub>4</sub> (5)		75			
		CO <sub>2e</sub>		1868			
MCPSCO2FUG	Fire Suppression System & CO <sub>2</sub> Purge System Fugitives	CO <sub>2</sub> (5)		28.68		10	
		CO <sub>2e</sub>		28.68			

- (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) CO<sub>2</sub> - carbon dioxide  
 N<sub>2</sub>O - nitrous oxide  
 CH<sub>4</sub> - methane  
 SF<sub>6</sub> - sulfur hexafluoride  
 CO<sub>2e</sub> - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):  
     CO<sub>2</sub> (1), N<sub>2</sub>O (298), CH<sub>4</sub>(25), SF<sub>6</sub> (22,800)
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
- (5) Emission rate is given for informational purposes only and does not constitute enforceable limit.



## Texas Commission on Environmental Quality Air Quality Permit

*A Permit Is Hereby Issued To*  
**Entergy Texas, Inc.**  
*Authorizing the Construction and Operation of*  
**Montgomery County Power Station**  
*Located at Willis, Montgomery County, Texas*  
*Latitude 30° 26' 9" Longitude -95° 31' 14"*

Permits: 143912, N256, PSDTX1510 and  
GHGPSDTX163

Revision Date: January 12, 2021

Expiration Date: March 27, 2028

For the Commission

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



operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources-- Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)]<sup>1</sup>
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.<sup>1</sup>

<sup>1</sup> Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

## Common Acronyms in Air Permits

°C = Temperature in degrees Celsius	GLC <sub>max</sub> = maximum (predicted) ground-level concentration
°F = Temperature in degrees Fahrenheit	gpm = gallon per minute
°K = Temperature in degrees Kelvin	gr/1000scf = grain per 1000 standard cubic feet
µg = microgram	gr/dscf = grain per dry standard cubic feet
µg/m <sup>3</sup> = microgram per cubic meter	H <sub>2</sub> CO = formaldehyde
acfm = actual cubic feet per minute	H <sub>2</sub> S = hydrogen sulfide
AMOC = alternate means of control	H <sub>2</sub> SO <sub>4</sub> = sulfuric acid
AOS = alternative operating scenario	HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
AP-42 = Air Pollutant Emission Factors, 5th edition	HC = hydrocarbons
APD = Air Permits Division	HCl = hydrochloric acid, hydrogen chloride
API = American Petroleum Institute	Hg = mercury
APWL = air pollutant watch list	HGB = Houston/Galveston/Brazoria
BPA = Beaumont/ Port Arthur	hp = horsepower
BACT = best available control technology	hr = hour
BAE = baseline actual emissions	IFR = internal floating roof tank
bbl = barrel	in H <sub>2</sub> O = inches of water
bbl/day = barrel per day	in Hg = inches of mercury
bhp = brake horsepower	IR = infrared
BMP = best management practices	ISC3 = Industrial Source Complex, a dispersion model
Btu = British thermal unit	ISCST3 = Industrial Source Complex Short-Term, a dispersion model
Btu/scf = British thermal unit per standard cubic foot or feet	K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
CAA = Clean Air Act	LACT = lease automatic custody transfer
CAM = compliance-assurance monitoring	LAER = lowest achievable emission rate
CEMS = continuous emissions monitoring systems	lb = pound
cfm = cubic feet (per) minute	hp = horsepower
CFR = Code of Federal Regulations	hr = hour lb/day = pound per day
CN = customer ID number	lb/hr = pound per hour
CNG = compressed natural gas	lb/MMBtu = pound per million British thermal units
CO = carbon monoxide	LDAR = Leak Detection and Repair (Requirements)
COMS = continuous opacity monitoring system	LNG = liquefied natural gas
CPMS = continuous parametric monitoring system	LPG = liquefied petroleum gas
DFW = Dallas/ Fort Worth (Metroplex)	LT/D = long ton per day
DE = destruction efficiency	m = meter
DRE = destruction and removal efficiency	m <sup>3</sup> = cubic meter
dscf = dry standard cubic foot or feet	m/sec = meters per second
dscfm = dry standard cubic foot or feet per minute	MACT = maximum achievable control technology
ED = (TCEQ) Executive Director	MAERT = Maximum Allowable Emission Rate Table
EF = emissions factor	MERA = Modeling and Effects Review Applicability
EFR = external floating roof tank	mg = milligram
EGU = electric generating unit	mg/g = milligram per gram
EI = Emissions Inventory	mL = milliliter
ELP = El Paso	MMBtu = million British thermal units
EPA = (United States) Environmental Protection Agency	MMBtu/hr = million British thermal units per hour
EPN = emission point number	MSDS = material safety data sheet
ESL = effects screening level	MSS = maintenance, startup, and shutdown
ESP = electrostatic precipitator	MW = megawatt
FCAA = Federal Clean Air Act	NAAQS = National Ambient Air Quality Standards
FCCU = fluid catalytic cracking unit	NESHAP = National Emission Standards for Hazardous Air Pollutants
FID = flame ionization detector	NGL = natural gas liquids
FIN = facility identification number	NNSR = nonattainment new source review
ft = foot or feet	NO <sub>x</sub> = total oxides of nitrogen
ft/sec = foot or feet per second	
g = gram	
gal/wk = gallon per week	
gal/yr = gallon per year	
GLC = ground level concentration	

NSPS = New Source Performance Standards  
PAL = plant-wide applicability limit  
PBR = Permit(s) by Rule  
PCP = pollution control project  
PEMS = predictive emission monitoring system  
PID = photo ionization detector  
PM = periodic monitoring  
PM = total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
PM<sub>2.5</sub> = particulate matter equal to or less than 2.5 microns in diameter  
PM<sub>10</sub> = total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
POC = products of combustion  
ppb = parts per billion  
ppm = parts per million  
ppmv = parts per million (by) volume  
psia = pounds (per) square inch, absolute  
psig = pounds (per) square inch, gage  
PTE = potential to emit  
RA = relative accuracy  
RATA = relative accuracy test audit  
RM = reference method  
RVP = Reid vapor pressure  
scf = standard cubic foot or feet  
scfm = standard cubic foot or feet (per) minute  
SCR = selective catalytic reduction  
SIL = significant impact levels  
SNCR = selective non-catalytic reduction  
SO<sub>2</sub> = sulfur dioxide  
SOCMI = synthetic organic chemical manufacturing industry  
SRU = sulfur recovery unit  
TAC = Texas Administrative Code  
TCAA = Texas Clean Air Act  
TCEQ = Texas Commission on Environmental Quality  
TD = Toxicology Division  
TLV = threshold limit value  
TMDL = total maximum daily load  
tpd = tons per day  
tpy = tons per year  
TVP = true vapor pressure  
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
VRU = vapor recovery unit or system

## Special Conditions

Permit Numbers 143912, PSDTX1510, and N256

1. This permit authorizes only those sources of emissions listed in the attached table entitled "Emission Sources – Maximum Allowable Emission Rates" (MAERT), including planned maintenance, startup, and shutdown (MSS) activities, and those sources are limited to the emission limits on that table and other conditions specified in this permit.

### Federal Applicability

2. The permitted sources at these facilities shall comply with all applicable requirements of the following federal regulations:
  - A. The U.S. Environmental Protection Agency (EPA) Standards of Performance for New Stationary Sources (NSPS) in Title 40 Code of Federal Regulations Part 60 (40 CFR) Part 60): **(04/20)**
    - (1) Subpart A: General Provisions,
    - (2) Subpart IIII: Stationary Compression Ignition Internal Combustion Engines,
    - (3) Subpart KKKK: Stationary Combustion Turbines.
  - B. The EPA National Emission Standards For Hazardous Air Pollutants (NEHAPS) for Source Categories, 40 CFR Part 63:
    - (1) Subpart A: General Provisions,
    - (2) Subpart YYYY: Stationary Combustion Turbines,
    - (3) Subpart ZZZZ: Stationary Reciprocating Internal Combustion Engines (RICE).

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.

3. This permit authorizes two natural gas fired combustion generators (CTGs) to operate in combined cycle mode [Emission Point Numbers (EPNs): MCPS1A and MCPS1B]. Both turbines are Mitsubishi model M501GAC, each with an average heat input of 2635 million British thermal units per hour (MMBtu/hr) and each with a rated nominal capacity at ISO Conditions (59 °F, 1 bar, and 60% relative humidity) of 276.0 gross megawatts (MW). Each CTG will have a duct burner fired heat recovery steam generator (HRSG) with a maximum heat input of 815.9 MMBtu/hr, operating as a combined cycle CTG. Each HRSG supplies steam to a single steam turbine which drives a third electric generator. **(04/20)**

### Emission Rates/Operating Specifications

4. The HRSG exhaust stacks (EPNs: MCPS1A and MCPS1B) during the CTG environmental compliance mode shall not exceed the following concentration limits expressed in parts per million by volume dry (ppmvd) at 15% oxygen (O<sub>2</sub>) subject to exclusions noted in the subparagraphs of this Special Condition:

Pollutant	Concentration	Averaging Time
Nitrogen oxide (NO <sub>x</sub> )	2.0	1-hr average
Carbon monoxide (CO)	2.0	3-hr rolling average
Volatile organic compounds (VOC)	2.0	3 hr average shown by initial stack test
Ammonia (NH <sub>3</sub> )	7.0	24-hr rolling average

- A. In order for each CTG to enter environmental compliance mode, the CTG load shall exceed the following for at least 3 minutes (for specified ambient temperature ranges):

Minimum Turbine Load %	Ambient Temperature Range (deg. F)
50	15 – 94.9
55	95 – 101

- B. Each startup period shall not exceed nine hours and shall be excluded. A startup period begins when fuel is introduced and a combustion flame has been established in the CTG. Startup mode ends and normal operation begins when signals are received indicating that the CTG is in Environmental Compliance Mode, ammonia injection is in service, and the startup emissions have purged through the continuous emissions monitoring systems (CEMS).
- C. Each shutdown period shall not exceed one hour and shall be excluded. A shutdown period will begin when signals are received demonstrating that the CTG is no longer in Environmental Compliance Mode and that the ammonia injection is no longer in service as was intended to be shutdown (i.e. shutdown of the ammonia system was not caused by a system failure). The shutdown mode will end when a signal is received indicating that the CTG has flamed out.
- D. Emissions from maintenance activities (Attachment A) shall be excluded.
- E. Emissions during reduced load operations defined as operational loads below 60% of full load shall be excluded. Emissions during reduced load operation shall not exceed the normal hourly emission rates in the MAERT.
- F. NO<sub>x</sub> emissions during transitional load operations, defined as a CTG ramp rate greater than 5 MW per minute (MW/min), may be excluded from the 1-hr average concentration limit if:
- (1) the 1-hour average concentration is above 2.0 ppmvd at 15% O<sub>2</sub>, and **(1/21)**
  - (2) the qualifying NO<sub>x</sub> concentration occurs during an hour where the turbine ramp rate exceeds 5 MW/minute.
  - (3) The emissions from transitional load operations shall not exceed the MSS hourly emission rates in the MAERT. **(4/20)**
5. During normal operations, opacity of emissions from each CTG stack authorized by this permit shall not exceed 5 percent averaged over a six-minute period. During periods of MSS operation of the CTGs, the opacity shall not exceed 15 percent averaged over a six minute period. The permit

holder shall demonstrate compliance with this Special Condition in accordance with the following procedures:

- A. Visible emission observations shall be conducted and recorded at least once during each calendar quarter while the facilities are in operation, unless the emission unit is not operating for the entire calendar quarter.
  - B. This determination shall be made by first observing for visible emissions while each facility is in operation. Observations shall be made at least 15 feet and no more than 0.25 miles from the emission point(s). Up to three emissions points may be read concurrently, provided that all three emissions points are within a 70 degree viewing sector or angle in front of the observer such that the proper sun position (at the observer's back) can be maintained for all three emission points. A certified opacity reader is not required for these visible emission observations.
  - C. If visible emissions are observed from an emission point, then the opacity shall be determined and documented within 24 hours for that emission point using Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Reference Method 9.
  - D. If the opacity limitations of this Special Condition are exceeded, corrective action to eliminate the source of visible emissions shall be taken promptly and documented within one week of first observation.
6. The CTGs and duct burners shall be limited to the use of pipeline quality natural gas containing no more than 1 grain total sulfur per 100 dry standard cubic feet (gr/100 dscf).
  7. The following requirements apply to each engine:
    - A. Fuel for each engine shall be limited to ultra-low sulfur diesel (ULSD) containing no more than 15 parts per million by weight (ppmw) total sulfur.
    - B. Each engine shall be limited to 100 hours per year during non-emergency situations.
    - C. Each engine shall be equipped with a non-resettable hour meter.

### **Cooling Tower**

8. The cooling tower (EPN MCPS-CTW) shall be operated and monitored in accordance with the following:
  - A. Cooling towers shall each be equipped with drift eliminators having manufacturer's design assurance of 0.001% drift or less. Drift eliminators shall be maintained and inspected at least annually. The permit holder shall maintain records of all inspections and repairs.
  - B. Total dissolved solids (TDS) shall not exceed 3000 parts per million by weight (ppmw). Dissolved solids in the cooling water drift are considered to be emitted as particulate matter (PM), particulate matter 10 microns or less (PM<sub>10</sub>), and particulate matter 2.5 microns or less (PM<sub>2.5</sub>) as represented in the permit application calculations.
  - C. Cooling towers shall be analyzed for particulate emissions using one of the following methods:
    - (1) A conservative default conversion factor of 0.80 (conductivity to TDS) may be used initially until a site specific demonstrated value is determined.

- (2) The permit holder shall perform sampling to establish the conductivity to TDS conversion factor that shall be used by the permit holder to demonstrate compliance in accordance with paragraph A above. A minimum of three cooling water samples shall be collected and a conductivity and TDS analysis performed for each of the three samples in order to establish the actual cooling water conductivity to TDS conversion factor. The conductivity and TDS analyses shall be performed in accordance with "Standard Methods for the Examination of Water and Wastewater" Method 2510 (Conductivity) and Method 2540 (Solids). An average conversion factor and standard deviation based on the three values shall be determined from the cooling water sample results.
  - (3) A copy of the sampling report shall be kept on site.
  - (4) Continuous compliance with the hourly and annual particulate matter emission rates for the Cooling Towers in the MAERT shall be demonstrated by the permit holder by monitoring the conductivity of the cooling water at a monitoring point in the recirculating water of each cooling tower, and recording these conductivity readings on a no less than weekly basis. Monitoring may be performed in any manner that produces accurate results. Each conductivity measurement shall be converted to TDS concentration in ppmw using the conductivity to TDS conversion factor established in accordance with paragraph B above.
  - (5) The monitoring data required by this special condition shall be kept on site. These records shall include:
    - (a) Location of the monitoring point for the cooling tower recirculating water and date and time of monitoring.
    - (b) Weekly measured conductivity in ohms and the equivalent TDS in ppmw in the recirculating water of the cooling tower.
- D. Circulating water sampling shall be representative of the cooling tower feed water and shall be conducted using approved methods.
- (1) The analysis method for TDS shall be EPA Method 160.1, American Society for Testing Materials (ASTM) D5907, or SM 2540 C [SM - 19th edition of Standard Methods for Examination of Water]. Water samples should be capped upon collection, and transferred to a laboratory area for analysis.
  - (2) The analysis method for conductivity shall be either ASTM D1125-95A (field or routine laboratory testing) or ASTM D1125-95B (continuous monitor). The analysis may be conducted at the sample site or with a calibrated process conductivity meter. If a conductivity meter is used, it shall be calibrated at least annually. Documentation of the method and any associated calibration records shall be maintained.
  - (3) Alternate sampling and analysis methods may be used to comply with D(1) and D(2) with written approval from the TCEQ Regional Director.
  - (4) Records of all instrument calibrations and test results and process measurements used for the emission calculations shall be retained.
9. Emission rates of PM, PM<sub>10</sub> and PM<sub>2.5</sub> shall be calculated using the measured TDS and the ratio or correlation of TDS to conductivity measurements, the design drift rate and the daily maximum and average actual circulating water circulation rate for the short term and annual average rates. For estimating PM<sub>10</sub> and PM<sub>2.5</sub> emissions, the ratios of PM to PM<sub>10</sub> and PM<sub>2.5</sub> established in the permit

application shall be used. Alternately, the design maximum circulation rate may be used for all calculations. Emission records shall be updated monthly.

### **Storage Tanks**

10. Except for labels, logos, etc. not to exceed 15 percent of the tank total surface area, uninsulated tank exterior surfaces exposed to the sun shall be white or unpainted aluminum, stainless steel, or polyethylene. Storage tanks must be bottom filled or equipped with permanent submerged fill pipes.

### **Aqueous Ammonia (NH<sub>3</sub>)**

11. The permit holder shall maintain prevention and protection measures for the NH<sub>3</sub> storage system. The NH<sub>3</sub> storage tank area will be marked and protected so as to protect the NH<sub>3</sub> storage area from accidents that could cause a rupture. The aqueous ammonia stored shall have a concentration of less than 20% NH<sub>3</sub> by weight.
12. In addition to the requirements of Special Condition No. 11, the permit holder shall maintain the piping and valves in NH<sub>3</sub> service as follows:
  - A. Audio, visual, and olfactory (AVO) checks for NH<sub>3</sub> leaks shall be made once a day.
  - B. As soon as practicable, following the detection of a leak, plant personnel shall take one or more of the following actions:
    - (1) Locate and isolate the leak, if necessary.
    - (2) Commence repair or replacement of the leaking component.
    - (3) Use a leak collection or containment system to control the leak until repair or replacement can be made if immediate repair is not possible.

### **Diesel Fugitives**

13. The permit holder shall maintain the piping and valves in diesel service as follows:
  - A. Audio, visual, and olfactory (AVO) checks for diesel leaks shall be made once a week.
  - B. As soon as practicable, following the detection of a leak, plant personnel shall take one or more of the following actions:
    - (1) Locate and isolate the leak, if necessary.
    - (2) Commence repair or replacement of the leaking component.
    - (3) Use a leak collection or containment system to control the leak until repair or replacement can be made if immediate repair is not possible.
  - C. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of AVO checks shall indicate dates and observations. Records of AVO checks shall be noted in the operator's log or equivalent.



### Initial Determination of Compliance

14. Sampling ports and platforms shall be incorporated into the design of all exhaust stacks according to the specifications set forth in the TCEQ "Guidelines for Stack Sampling Facilities." Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Director.
15. The holder of this permit shall perform stack sampling and other testing as required to establish the actual quantities of air contaminants being emitted into the atmosphere from each CTG (EPNs: MCPS1A and MCPS1B) to determine initial compliance with all emission limits established in this permit. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and in accordance with the appropriate EPA Reference Methods to be determined during the pretest meeting. The TCEQ Executive Director or his designated representative shall be afforded the opportunity to observe all such sampling upon request.
  - A. Air contaminants and diluents from the turbines to be sampled and analyzed include (but are not limited to) NO<sub>x</sub>, O<sub>2</sub>, CO, VOC, sulfur dioxide (SO<sub>2</sub>), PM<sub>10</sub>, and NH<sub>3</sub>.
  - B. Each CTG shall be tested with duct burners at maximum firing rate while the CTG is operating as close to base load as possible.
  - C. Fuel sampling using the methods and procedures of 40 CFR § 60.4415 may be conducted in lieu of stack sampling for SO<sub>2</sub> or the permit holder may be exempted from fuel monitoring of SO<sub>2</sub> as provided under 40 CFR § 60.4365. If fuel sampling is used, compliance with NSPS Subpart KKKK SO<sub>2</sub> limits shall be based on 100 percent 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.
  - D. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.
  - E. The TCEQ Regional Office shall be contacted as soon as testing is scheduled but not less than 30 days prior to sampling to schedule a pretest meeting. The notice shall include:
    - (1) Date for pretest meeting.
    - (2) Date sampling will occur.
    - (3) Name of firm conducting sampling.
    - (4) Type of sampling equipment to be used.
    - (5) Method or procedure to be used in sampling.
    - (6) Procedure used to determine turbine loads during and after the sampling period.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports. A written proposed description of any deviation from sampling procedures specified in permit conditions, or the TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in 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 EPA approval shall be submitted to the EPA and copied to TCEQ Regional Director.

- F. Sampling as required by this condition shall occur within 60 days after achieving the maximum production rate at which each CTG will be operated, but no later than 180 days after initial start-up of each unit. Additional sampling may be required by TCEQ or EPA.
- G. Within 60 days after the completion of the testing and sampling required herein, two copies of the sampling reports shall be distributed as follows:
  - (1) One copy to the TCEQ Houston Regional Office.
  - (2) One copy to the EPA Region 6 Office, Dallas.

### **Continuous Determination of Compliance**

- 16. The holder of this permit shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) to measure and record the concentrations of NO<sub>x</sub>, CO, and diluents (O<sub>2</sub> or carbon dioxide) in each CTG stack (EPNs: MCPS1A and MCPS1B).
  - 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. Data used to meet the requirements of this permit shall not include substitute data values derived from the missing data procedures in subpart D of 40 CFR Part 75, nor shall the data have been bias adjusted according to the procedures of 40 CFR Part 75.
  - 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 No. 4. The CO CEMS shall meet the applicable quality assurance requirements specified in 40 CFR Part 60, Appendix F, except that cylinder gas audits (CGA) conducted in all four 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 quarter in which the CT operates less than 168 hours. Relative accuracy exceedances (as specified in 40 CFR 60, Appendix F), CGA exceedances of  $\pm 15\%$  accuracy, and any CO CEMS downtime shall be reported to the TCEQ Regional Director, and necessary corrective action shall be taken. Supplemental stack sampling may be required at the discretion of the TCEQ Regional Director.
  - C. The CEMS shall be zeroed and spanned each day the unit operates, 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, and normally 60, approximately equally-spaced data points from each one-hour period. For hours in which calibration checks, zero and span adjustments, system breakdowns, or repairs occur, at least 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.
  - E. The valid hourly average data from the CEMS shall be averaged over the specified averaging time and the resulting average shall be used to determine compliance with the concentration

limits of Special Condition No. 4 and in conjunction with the hourly average natural gas fuel consumption data required by Special Condition No. 17, the hourly emission rate limits of the MAERT. Pounds per hour data from each CTG/HRSG stack must be summed monthly to tons per year and used to determine compliance with the annual emission limits of the MAERT.

17. The permit holder shall additionally install, calibrate, maintain, and operate continuous monitoring systems to monitor and record the average hourly natural gas consumption of each CTG and duct burner. The permit holder shall comply with the initial certification and quality assurances as specified in 40 CFR Part 75, Appendix D.
18. The NH<sub>3</sub> concentration in each CTG Stack (EPNs: MCPS1A and MCPS1B) shall be tested or calculated according to one of the methods listed below and shall be tested or calculated according to the frequency listed below. Testing for NH<sub>3</sub> slip is only required on days when the NH<sub>3</sub> injection to the SCR unit is in operation.
  - A. The holder of this permit may install, calibrate, maintain, and operate a CEMS to measure and record the concentrations of NH<sub>3</sub>. The NH<sub>3</sub> concentrations shall be corrected and reported in accordance with Special Condition No. 4.
  - B. The permit holder may install and operate a second NO<sub>x</sub> CEMS probe located between the duct burners and the SCR, upstream of the stack NO<sub>x</sub> CEMS, which may be used in association with the SCR efficiency and NH<sub>3</sub> injection rate to estimate NH<sub>3</sub> slip. This condition shall not be construed to set a minimum NO<sub>x</sub> reduction efficiency on the SCR unit. These results shall be recorded and used to determine compliance with Special Condition No. 4.
  - C. The permit holder may install and operate a dual stream system of NO<sub>x</sub> CEMS at the exit of the SCR. One of the exhaust streams would be routed, in an unconverted state, to one NO<sub>x</sub> CEMS and the other exhaust stream would be routed through a NH<sub>3</sub> converter to convert NH<sub>3</sub> to NO<sub>x</sub> and then to a second NO<sub>x</sub> CEMS. The NH<sub>3</sub> slip concentration shall be calculated from the delta between the two NO<sub>x</sub> CEMS readings (converted and unconverted).
  - D. As an approved alternative, the NH<sub>3</sub> slip may be measured using a sorbent or stain tube device specific for NH<sub>3</sub> measurement in the 5 to 10 ppm range. The frequency of sorbent/stain tube testing shall be daily for the first 60 days of operation, after which, the frequency may be reduced to weekly testing if operating procedures have been developed to prevent excess amounts of urea from being introduced in the SCR unit and when operation of the SCR unit have been proven successful with regard to controlling NH<sub>3</sub> slip. Daily sorbent or stain tube testing shall resume when the catalyst is within 30 days of its useful life expectancy. These results shall be recorded and used to determine compliance with Special Condition No. 4.
  - E. If the sorbent or stain tube testing indicates an ammonia slip concentration exceeds 10 ppm for a consecutive one-hour period or the average of one or more sorbent or stain tube tests in an hour, the permit holder shall begin NH<sub>3</sub> testing by either the Phenol Nitroprusside Method, the Indophenol Method, or the EPA Conditional Test Method (CTM) 27 on a quarterly basis, in addition to the weekly sorbent or stain tube testing. The quarterly testing shall continue until such time as the SCR unit catalyst is replaced; or if the quarterly testing indicates NH<sub>3</sub> slip is 7 ppm or less, the Phenol-Nitroprusside/Indophenol/CTM 27 tests may be suspended until sorbent/stain tube testing again indicate 10 ppm NH<sub>3</sub> slip or greater. These results shall be recorded and used to determine compliance with Special Condition No. 4.

- F. Any other method used for measuring NH<sub>3</sub> slip shall require prior approval from the TCEQ Regional Office.

#### **Maintenance**

- 19. Compliance with the emissions limits for planned maintenance activities identified in Attachment A may be demonstrated as follows.
  - A. For each pollutant emitted during planned maintenance activities whose emissions are measured using a CEMS, the permit holder shall for each calendar month compare the pollutant's short-term (hourly) emissions as measured by the CEMS to the applicable short-term planned MSS emissions limit in the MAERT.
  - B. For each pollutant emitted during planned maintenance activities whose emissions occur through a stack the permit holder shall for each calendar month determine the total emissions of the pollutant.
  - C. Sum all emissions from planned maintenance activities on a 12-month rolling basis for each EPN to show compliance with the MAERT.

#### **Recordkeeping Requirements**

- 20. The following records (written or electronic) shall be kept at the plant for the life of the permit. All records required in this permit shall be made available at the request of personnel from the TCEQ, EPA, or any local air pollution control program having jurisdiction:
  - A. A copy of this permit.
  - B. Permit application dated November 10, 2016, 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. 15 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.
- 21. The following records (written or electronic) shall be maintained by the holder of this permit in a form suitable for inspection for a period of five years after collection and shall be made available upon request to representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction:
  - A. The CEMS data of NO<sub>x</sub>, CO, NH<sub>3</sub>, and O<sub>2</sub> emissions from EPNs: MCPS1A and MCPS1B to demonstrate compliance with the emission rates listed in the MAERT and Special Condition No. 4.
  - B. Raw data files of all CEMS data including calibration checks, adjustments, and maintenance performed on these systems in a permanent form suitable for inspection.
  - C. Records of dates and times for startups and shutdowns of the CTGs.
  - D. Records of the amount of natural gas fired monthly in each of the CTGs and duct burners.

- E. Records of emergency engines and firewater pump hours of operations to demonstration compliance with Special Condition No. 7.
- F. Records of visible emissions, opacity observations, and any corrective action taken to demonstrate compliance with Special Condition No. 5.
- G. Cooling tower records to demonstrate compliance with Special Condition No. 8.
- H. Records of AVO checks, maintenance performed to any piping and valves or other equipment as required by Special Condition Nos. 12 and 13.
- I. Records of monitored or calculated maintenance emissions to demonstrate compliance with Special Condition No. 19.

### **Shakedown Period**

- 22. The performance specifications of Special Condition No. 4 and the MAERT do not apply during combustion shakedown. Shakedown is defined as the period beginning with initial startup and ending no later than initial performance testing, during which the permit holder conducts operational and contractual testing and tuning to ensure the safe, efficient and reliable operation of the plant. The shakedown period shall not exceed the time period for performance testing as specified in 40 CFR § 60.8. The permit holder shall operate the facility in a manner consistent with good air pollution practice for minimizing emissions at all times, including during MSS and shakedown.

### **Offset Conditions**

- 23. This Nonattainment New Source Review (NNSR) permit is issued/approved based on the requirement that the permit holder offset the project emission increase for facilities authorized by this permit prior to the commencement of operation, through participation in the TCEQ Emission Banking and Trading (EBT) Program in accordance with the rules in 30 TAC Chapter 101, Subchapter H.
- 24. The permit holder used 119.9 tpy NO<sub>x</sub> emission credits (ECs), as previously approved by TCEQ for an inter-pollutant use, from TCEQ credits certificate numbers 3141, 3142, 3161, 3162, 3188, 3189, and 3194 to partially meet the 130.0 tpy VOC credits necessary to offset the total 113.0 tpy VOC project emission increase for the facilities authorized by this permit at a ratio of 1.15 to 1.0. The permit holder used 10.1 tpy VOC ECs from TCEQ credits certificate numbers 3143, 3144, 3145, 3146, 3147, and 3190 to satisfy the remaining portion of the 130.0 tpy VOC credits not covered by the NO<sub>x</sub> credit inter-pollutant use. **(10/20)**
- 25. The permit holder used 20.0 tpy of NO<sub>x</sub> ECs from TCEQ credits certificate number 3241 to partially meet the 223.4 tpy of NO<sub>x</sub> credits to offset the total 194.3 tpy NO<sub>x</sub> project emission increase for the facilities authorized by this permit at a ratio of 1.15 to 1.0. **(10/20)**

26. In addition to, or in place of, using credits as described in Special Condition Nos. 24 and 25, the permit holder used 203.4 tpy of Mass Emission Cap and Trade (MECT) allowances to partially offset 193.0 tpy NO<sub>x</sub> emission increase for the following MECT facilities authorized by this permit at a ratio of 1.15 to 1.0: **(10/20)**

Facility Identification Number (FIN)/EPN MCPS1A and FIN/EPN MCPS1B

- A. 10.4 tpy of MECT allowances were permanently retired to satisfy the remaining 0.15 to 1.0 portion of the NO<sub>x</sub> offset requirement.
- B. 193.0 tpy of MECT allowances were permanently set aside to satisfy the 1.0 to 1.0 portion of the NO<sub>x</sub> offset requirement.

Date: January 12, 2021

Attachment A

Permit Numbers 143912, PSDTX1510, and N256

Inherently Low Emitting (ILE) Planned Maintenance Activities							
Activities	EPN	Emissions					
		NO <sub>x</sub>	CO	VOC	PM	SO <sub>2</sub>	NH <sub>3</sub>
Combustion unit tuning <sup>1</sup>	MCPS1A, MCPS1B, MCPS1- CAP	x	x	x	x	x	x
Miscellaneous PM filter maintenance <sup>2</sup>	MCPSMSSFUG				x		
Catalyst handling and maintenance <sup>3</sup>	MCPSMSSFUG			x	x		
Gaseous fuel venting <sup>4</sup>	MCPSMSSFUG			x			
Turbine washing	MCPS1A, MCPS1B, MCPS1- CAP				x		
Management of sludge from pits, ponds, sumps, and water conveyances <sup>5</sup>	MCPSMSSFUG			x			
Inspection, repair, replacement, adjusting, testing, and calibration of analytical equipment, process instruments including sight glasses, meters, gauges, CEMS, PEMS	MCPSMSSFUG	x	x	x	x		x
Small equipment and fugitive component repair/replacement in VOC and NH <sub>3</sub> service <sup>6</sup>	MCPSMSSFUG, MCPS-AMMFUG, MCPS-NGFUG			x			x

Date: April 24, 2020

<sup>1</sup> Includes, but is not limited to: leak operability checks (e.g. turbine overspeed test, troubleshooting), seasonal tuning, and balancing.

<sup>2</sup> Includes, but is not limited to: baghouse filters and combustion turbine air intake filters

<sup>3</sup> Includes, but is not limited to, replacement, cleaning, activation, and deactivation of SCR and oxidation catalysts.

<sup>4</sup> Includes, but is not limited to: venting prior to pipeline pigging and meter proving.

<sup>5</sup> Includes, but is not limited to: mgmt. by vacuum truck/dewatering of material in open pits/ponds/sumps/tanks and other closed or open vessels. Material managed include water and sludge materials containing miscellaneous VOCs such as diesel, lube oil, and other waste oils.

<sup>6</sup> Includes, but is not limited to: (1) repair/replacement of pumps, compressors, valves, pipes, flanges, transport lines, filters/screens in natural gas, fuel oil, diesel oil, ammonia, lube oil, and gasoline service; (2) vehicle and mobile equipment maintenance that may involve small VOC emissions, such as oil changes and transmission/hydraulic system service; (3) off-line NO<sub>x</sub> control device maintenance including aqueous ammonia systems.



## Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To  
**Entergy Texas, Inc.**  
Authorizing the Construction and Operation of  
**Montgomery County Power Station**  
Located at **Willis, Montgomery County, Texas**  
Latitude 30° 26' 9" Longitude -95° 31' 14"

Permit: GHGPSDTX163

Issuance Date: March 27, 2018

A handwritten signature in black ink, appearing to read "R. A. Hyle".

For the Commission

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



operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources-- Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)]<sup>1</sup>
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.<sup>1</sup>

<sup>1</sup> Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

## Greenhouse Gases (GHG) Special Conditions

Permit Number GHGPSDTX163

1. This permit authorizes only those sources of emissions listed in the attached table entitled "Emission Sources – Maximum Allowable Emission Rates" (MAERT), including planned maintenance, startup, and shutdown (MSS) activities, and those sources are limited to the emission limits on that table and other conditions specified in this permit.
2. These conditions and MAERT authorize GHG emissions from natural gas-fired combined cycle turbines and appurtenant facilities from which other emissions are authorized by Permit Numbers 143912, PSDTX1510, and N256.
3. The permitted sources at these facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) Standards of Performance for New Stationary Sources (NSPS) in Title 40 Code of Federal Regulations Part 60 (40 CFR) Part 60), Subpart TTTT: Greenhouse Gas Emissions for Electric Generating Units.

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.

4. Each combustion turbine / heat recovery steam generator (CT/HRSG) must comply with the following performance specifications, on a 12-month rolling average during non-MSS operation.
  - A. Emissions of carbon dioxide (CO<sub>2</sub>) from each turbine must not exceed 884 pounds per megawatt-hour (lbs/MWh) based on generator gross output.
  - B. The gross heat rate from each turbine with duct burner firing must not exceed 7,455 British thermal unit (Btu) (higher heating value [HHV]) per kilowatt hour (Btu/kWh).
5. Emission of CO<sub>2</sub> from each CT/HRSG during MSS operation must not exceed 223 tons/hour, on a block one-hour average (as defined in 30 TAC §117.10(5), version effective June 25, 2015) and shall also be minimized by adhering to startup and shutdown duration limits identified in the Special Conditions for Permit Nos. 143912 and PSDTX1510.
6. The permit holder shall minimize emissions from pressurized components and equipment containing GHG pollutants as follows:
  - A. Piping and valves in natural gas service within the operating area must be checked daily for leaks using AVO sensing for natural gas leaks.
  - B. The sulfur hexafluoride (SF<sub>6</sub>)-enclosed circuit breakers used to prevent damage in the event of a power surge must be designed to meet the latest ANSI C37.013 standard for high-voltage circuit breakers. The circuit breakers must be guaranteed to achieve a SF<sub>6</sub> leak rate of 0.5% by weight or less annually.
    - (1) For emission unit EPN MCPS-CBFUG, SF<sub>6</sub> emissions shall be calculated annually (calendar year) in accordance with the mass balance approach provided in equation DD-1 of the Mandatory Greenhouse Gas Reporting rules for Electrical Transmission and Distribution Equipment Use, 40 CFR Part 98, Subpart DD. Permittee shall not exceed insulated circuit breaker SF<sub>6</sub> capacity of 6,000 lbs combined for all breakers.

- (2) Permittee shall equip the circuit breakers with a low pressure alarm and a low pressure lockout. The SF<sub>6</sub> leak detection system shall be able to detect a leak of at least 1 lb per year.
  - C. As soon as practicable following the detection of a leak, plant personnel shall take one or more of the following actions:
    - (1) Locate and isolate the leak, if necessary.
    - (2) Commence repair or replacement of the leaking component.
    - (3) Use a leak collection or containment system to control the leak until repair or replacement can be made if immediate repair is not possible.
7. The permit holder shall install, calibrate, maintain, and operate a continuous monitoring system to monitor and record the natural gas consumption in the combustion turbines and duct burners, and the gross electric output of the combustion turbines and steam turbine generators. The fuel flow meters must meet the applicable requirements, including specifications, initial certification and quality assurances requirements of 40 CFR Part 75, Appendix D. The fuel flow meters shall be accurate to  $\pm 2.0$  percent of the units' maximum flow. Fuel flow meter data shall be automatically recorded with a Data Acquisition and Handling System (DAHS). The monitoring system data shall be used to demonstrate continuous compliance with the performance specifications of Special Condition Nos. 4 and 5 and the emission limits of the attached MAERT. The data must be converted into units of the applicable standards in accordance with this special condition, as follows.
  - A. Use the data to calculate for each CT/HRSG, the hourly:
    - (1) Heat input. Calculate the heat input in million Btus (MMBtu), using the measured fuel flow and the HHV of the natural gas fuel. Calculate the hourly heat input consistent with Equation F-20 and the procedures for determining the HHV, in Section 5.5.2 of 40 CFR Part 75, Appendix F. In this section, the HHV is referred to as the gross calorific value of gaseous fuel, GCV<sub>g</sub>, and is expressed in Btu/100 scf.
    - (2) CO<sub>2</sub> emission rate. Calculate the CO<sub>2</sub> emission rate in short tons per hour, during all periods of operation, in accordance with 40 CFR Part 75, Appendix G, section 2.3, Equation G-4, using:
      - (a) the default emission factor of 118.86 lb CO<sub>2</sub>/MMBtu; or
      - (b) a custom emission factor determined in accordance with 40 CFR Part 75, Appendix F, section 3.3.6, Equation 7-b.
    - (3) Gross electric output. Calculate the gross electric output of each CT/HRSG in MWh on an hourly basis. The hourly gross electric output of the steam turbine generator is apportioned to each CT/HRSG based on the hourly proportion of each HRSG's thermal output to the steam turbine.
    - (4) Heat rate. Calculate the heat rate in Btu/kWh, using the heat input and the gross electric generator output. Heat rate does not need to be calculated during periods of MSS.
    - (5) Output-specific CO<sub>2</sub> emission rate. Calculate the output-specific CO<sub>2</sub> emission rate in lb CO<sub>2</sub>/MWh by dividing the hourly CO<sub>2</sub> emission rate by the corresponding hourly gross output in MWh of the CT/HRSG. Output-specific CO<sub>2</sub> emissions do not need to be calculated during periods of MSS.

- (6) Methane (CH<sub>4</sub>) and nitrous oxide (N<sub>2</sub>O) emissions. Calculate the CH<sub>4</sub> and N<sub>2</sub>O emission rates in short tons per hour during all periods of operation, using the:
    - (a) measured hourly heat input;
    - (b) default emission factors of  $1.0 \times 10^{-3}$  kilogram (kg) CH<sub>4</sub>/MMBtu and  $1.0 \times 10^{-4}$  kg N<sub>2</sub>O/MMBtu, from Table C-2 of 40 CFR Part 98, Subpart C, version effective November 29, 2013; and
    - (c) conversion factors of 0.45359 kg/lb and 2,000 lb/ton.
  - (7) Emission rate of carbon dioxide equivalent (CO<sub>2</sub>e). Calculate the CO<sub>2</sub>e emission rate, in short tons per hour, as the sum of the CO<sub>2</sub> emissions and the CO<sub>2</sub>e-converted emissions of CH<sub>4</sub> and N<sub>2</sub>O. The CH<sub>4</sub> and N<sub>2</sub>O emission rates are converted to CO<sub>2</sub>e emissions using the Global Warming Potentials of 25 for CH<sub>4</sub> and 298 for N<sub>2</sub>O, from Table A-1 of 40 CFR Part 98, Subpart A, version effective January 1, 2015.
- B. Hourly to 12-month rolling data. Calculate for each CT/HRSG, 12-month rolling:
- (1) Average heat rate and output-specific CO<sub>2</sub> emissions to show compliance with the limits of Special Condition Nos. 4 and 5
    - (a) Monthly heat rate is the sum of the hourly heat input for the month, excluding periods of MSS, divided by the sum of the hourly gross output for the same hourly periods. At the end of each calendar month, add the monthly heat input to the monthly heat input for the preceding 11 operating months and divide the resulting sum by the gross output in kWh for the same period.
    - (b) Monthly output-specific CO<sub>2</sub> emissions are the sum of the hourly CO<sub>2</sub> emissions for the month, excluding periods of MSS, divided by the sum of the hourly gross output for the same hourly periods. At the end of each calendar month, add the monthly CO<sub>2</sub> emissions to the monthly CO<sub>2</sub> emissions for the preceding 11 operating months and divide the resulting sum by the gross output in MWh for the same period.
    - (c) An operating month is any calendar month in which the CT/HRSG operated in normal operation for any time.
  - (2) Emissions of CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, and CO<sub>2</sub>e in tons per year to show compliance with the limits of the MAERT. Monthly emissions are the sum of the hourly emissions for that month and include all periods of operation. At the end of each calendar month, add the monthly emissions to the monthly emissions for the previous 11 calendar months.
8. After the first full calendar month of turbine operation after the shakedown period, the permit holder shall compare the data from that month's operation to the limits in Special Condition Nos. 4 and 5 and the MAERT. Within 45 days after collecting the data, the permit holder shall submit a report to the TCEQ Region Office identifying whether the data causes any concerns regarding the permit holder's ability to comply with the applicable limitations.
9. The permit holder may, as an alternative to calculating CO<sub>2</sub> emissions in accordance with Special Condition No. 7, install and operate a CO<sub>2</sub> CEMS, a volumetric stack gas flow monitor, and an automated data acquisition and handling system in accordance with the CO<sub>2</sub> CEMS system requirements in 40 CFR § 75.10(a)(3) and (a)(5) for measuring and recording the CO<sub>2</sub> emissions to the atmosphere from EPNs MCPS1A and MCPS1B.

### **Recordkeeping Requirements**

10. Permit holders must keep records sufficient to demonstrate compliance with 30 Texas Administrative Code § 116.164. Records shall be sufficient to demonstrate the amount of emissions of GHGs from the source as a result of construction, a physical change or a change in method of operation does not require authorization under 30 TAC §116.164(a). Records shall be maintained for a period of five years after collection.
11. Permit holders shall maintain a file of all records, data measurements, reports and documents related to the SF<sub>6</sub> fugitive emission sources including, but not limited to, the following: annual SF<sub>6</sub> emissions, all records or reports pertaining to maintenance performed, all records relating to compliance with the Monitoring and Quality Assurance and Quality Control procedures outlined in 40 CFR § 98.304. Records shall be maintained for a period of five years after collection.
12. Permit holders shall maintain continuous monitoring data records and calculations of hourly and annual CO<sub>2</sub> emissions as described in Special Condition No. 7 or 9. Records shall be maintained for a period of five years after collection.

Date: March 27, 2018

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX163

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
MCPS1-CAP	MCPS Combined Cycle Unit 1 Emission Cap	CO <sub>2</sub> (5)	3,038,717
		CH <sub>4</sub> (5)	56
		N <sub>2</sub> O (5)	5.6
		CO <sub>2</sub> e	3,041,805
MCPS-EMGEN	MCPS Emergency Generator	CO <sub>2</sub> (5)	149
		CH <sub>4</sub> (5)	0.01
		N <sub>2</sub> O (5)	<0.01
		CO <sub>2</sub> e	150
MCPS-FWP	MCPS Emergency Fire Water Pump	CO <sub>2</sub> (5)	16
		CH <sub>4</sub> (5)	<0.01
		N <sub>2</sub> O (5)	<0.01
		CO <sub>2</sub> e	16
MCPS-NGFUG	MCPS Natural Gas Fugitive Emissions	CO <sub>2</sub> (5)	2
		CH <sub>4</sub> (5)	37
		CO <sub>2</sub> e	927
MCPS-CBFUG	MCPS Circuit Breaker Fugitives	SF <sub>6</sub> (5)	0.02
		CO <sub>2</sub> e	342
MCPSMSSFUG	MCPS Maintenance Activities	CO <sub>2</sub> (5)	4
		CH <sub>4</sub> (5)	75
		CO <sub>2</sub> e	1868

(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) CO<sub>2</sub> - carbon dioxide  
 N<sub>2</sub>O - nitrous oxide  
 CH<sub>4</sub> - methane  
 SF<sub>6</sub> - sulfur hexafluoride  
 CO<sub>2</sub>e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):  
 CO<sub>2</sub> (1), N<sub>2</sub>O (298), CH<sub>4</sub>(25), SF<sub>6</sub> (22,800)

Emission Sources - Maximum Allowable Emission Rates

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
- (5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Date: March 27, 2018