FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Oak Grove Management Company LLC

AUTHORIZING THE OPERATION OF
Oak Grove Steam Electric Station
Fossil Fuel Electric Power Generation

LOCATED AT
Robertson County, Texas
Latitude 31° 11′ 6″ Longitude 96° 29′ 7″
Regulated Entity Number: RN100216191

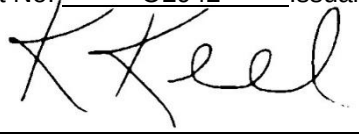
This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's 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: O2942 Issuance Date: August 7, 2024



For the Commission

Table of Contents

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, except for reports required solely by the Acid Rain permit or the Cross-State Air Pollution Rule permit trading program requirements, unless they are used to demonstrate compliance with another requirement, must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

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

1. Permit holder shall comply with the following requirements:

    A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.

    B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

    C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.

    D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

E. Emission units subject to 40 CFR Part 63, Subparts ZZZZ, DDDDD and UUUUU as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1090, §113.1130 and §113.1300, respectively, which incorporate the 40 CFR Part 63 Subparts by reference.

F. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 101.372 (relating to General Provisions)

(ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)

(iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)

(iv) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)

(v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit 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_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

(1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.

(2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

(3) Records of all observations shall be maintained.

(4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water

vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

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

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

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

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

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

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

(iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).

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

C. 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_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a 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.

D. 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.

E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).

F. 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)

G. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:

(i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)

(ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)

(iii) Title 30 TAC § 111.209 (relating to Exception for Disposal Fires)

(iv) Title 30 TAC § 111.211 (relating to Exception for Prescribed Burn)

(v) Title 30 TAC § 111.213 (relating to Exception for Hydrocarbon Burning)

(vi) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)

(vii) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)

4. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:

A. When filling stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons at a Stage I motor vehicle fuel dispensing facility, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:

(i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

(ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)

(iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)

B. Title 40 CFR § 60.8 (relating to Performance Tests)

C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)

D. Title 40 CFR § 60.12 (relating to Circumvention)

E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)

F. Title 40 CFR § 60.14 (relating to Modification)

G. Title 40 CFR § 60.15 (relating to Reconstruction)

H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

6. For open storage pile (Unit ID No. F-OGLDSP); including equipment used in loading, unloading, and conveying operations; constructed, reconstructed, or modified after May 27, 2009, the permit holder shall comply with the following requirements of 40 CFR Part 60, Subpart Y for control of fugitive coal dust emissions:

A. Title 40 CFR § 60.254(c) and (c)(1) (relating to Standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles), for preparation of and operation in accordance with a fugitive coal dust emissions control plan

B. Title 40 CFR § 60.254(c)(2) and (c)(6) (relating to Standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles), for control measures for open coal storage piles

C. Title 40 CFR § 60.254(c)(3) and (c)(3)(i) - (iv) (relating to Standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles), for alternative control measures

D. Title 40 CFR § 60.254(c)(4), (c)(4)(i) - (ii), and (c)(5)(ii) (relating to Standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles) for submittal of the fugitive coal dust emissions control plan

E. Title 40 CFR § 60.258(a) and (a)(6) (relating to Reporting and recordkeeping)

7. For the nonmetallic mineral processing operations specified in 40 CFR Part 60, Subpart OOO, the permit holder shall comply with the following requirements:

A. Title 40 CFR § 60.670(f) (relating to Applicability and Designation of Affected Facility), for Table 1 for Subpart A

B. Title 40 CFR § 60.673(a) - (b) (relating to Reconstruction)

C. Title 40 CFR § 60.676(h) (relating to Reporting and Recordkeeping)

8. 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.

9. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established

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

Additional Monitoring Requirements

10. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached "CAM Summary" upon issuance of the permit. In addition, the permit holder shall comply with the following:

    A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).

    B. The permit holder shall report, consistent with the averaging time identified in the "CAM Summary," deviations as defined by the deviation limit in the "CAM Summary." Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

    C. 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 "CAM 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 in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).

    D. The permit holder shall operate the monitoring, identified in the attached "CAM Summary," in accordance with the provisions of 40 CFR § 64.7.

    E. Except for emission units using a CEMS, COMS or PEMS which meets the requirements of 40 CFR § 64.3(d)(2), the permit holder shall comply with either of the following requirements for any particulate matter capture system associated with the control device subject to CAM. If the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective action:

        (i) Once per year the permit holder shall inspect any fan for proper operation and inspect the capture system used in compliance of CAM for cracks, holes, tears, and other defects; or

        (ii) Once per year, the permit holder shall inspect for fugitive emissions escaping from the capture system in compliance of CAM by performing a visible emissions observation for a period of at least six minutes in accordance with 40 CFR Part 60, Appendix A, Test Method 22.

    F. Except for emission units using a CEMS, COMS or PEMS which meets the requirements of 40 CFR § 64.3(d)(2), the permit holder shall conduct a once a month visual, audible, and/or olfactory inspection of the capture system to detect leaking components for any

capture system associated with the control device subject to CAM. If the results of the inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective actions.

G. Except for emission units using a CEMS, COMS or PEMS which meets the requirements of 40 CFR § 64.3(d)(2), the permit holder shall comply with either of the following requirements for any bypass of the control device subject to CAM. If the results of the following inspections or monitoring indicate bypass of the control device, the permit holder shall promptly take necessary corrective actions and report a deviation:

(i) Install a flow indicator that is capable of recording flow, at least once every fifteen minutes, immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or

(ii) Once a month, the permit holder shall inspect the valves checking the position of the valves and the condition of the car seals. Identify all times when the car seal has been broken and the valve position has been changed to allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere.

H. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.

11. 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

12. 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 April 25, 2023 in the application for project 32939), 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

13. 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.

14. 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).

15. The permit holder shall comply with the following requirements for Air Quality Standard Permits:

    A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit

    B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit

    C. Boiler Standard Permit

    D. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects

Compliance Requirements

16. 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.

17. Use of Discrete Emission Credits to comply with the applicable requirements:

    A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:

        (i) Title 30 TAC Chapter 115

        (ii) Title 30 TAC Chapter 117

        (iii) If applicable, offsets for Title 30 TAC Chapter 116

        (iv) Temporarily exceed state NSR permit allowables

    B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:

        (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)

(ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4

(iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

(iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

(v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Risk Management Plan

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

Protection of Stratospheric Ozone

19. 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.

B. Any on site servicing, maintenance, and repair of fleet vehicle air conditioning using ozone-depleting refrigerants shall be conducted in accordance with 40 CFR Part 82, Subpart B. Permit holders shall ensure that repairs or refrigerant removal are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart B.

Temporary Fuel Shortages (30 TAC § 112.15)

20. The permit holder shall comply with the following 30 TAC Chapter 112 requirements:

A. Title 30 TAC § 112.15 (relating to Temporary Fuel Shortage Plan Filing Requirements)

B. Title 30 TAC § 112.16(a), (a)(1), and (a)(2)(B) - (C) (relating to Temporary Fuel Shortage Plan Operating Requirements)

C. Title 30 TAC § 112.17 (relating to Temporary Fuel Shortage Plan Notification Procedures)

D. Title 30 TAC § 112.18 (relating to Temporary Fuel Shortage Plan Reporting Requirements)

Alternative Requirements

21. The permit holder shall comply with the approved alternative means of control (AMOC); alternative monitoring, recordkeeping, or reporting requirements; or requirements determined to be equivalent to an otherwise applicable requirement contained in the Alternative Requirements attachment of this permit. Units complying with an approved alternative requirement have reference to the approval in the Applicable Requirements summary listing for the unit. The permit holder shall maintain the original documentation, from the EPA Administrator, demonstrating the method or limitation utilized. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.

Permit Location

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

Acid Rain Permit Requirements

23. For units F-OGU1 and F-OGU2 (identified in the Certificate of Representation as units 1 and 2), located at the affected source identified by ORIS/Facility/Plant code 6180, 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. 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_2 and NO_x under the ARP.

(iii) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emission of other pollutants or other emissions characteristics at the unit under other applicable requirements of the FCAA Amendments (42 U.S.C. 7401, as amended November 15, 1990) and other terms and conditions of the operating permit for the source.

C. SO_2 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_2.

(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_2 for the previous calendar year.

(iii) Each ton of SO_2 emitted in excess of the acid rain emissions limitations for SO_2 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_2 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_2 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. Excess emissions requirements for SO_2 and NO_x.

(i) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77.

(ii) If an affected source has excess emissions in any calendar year shall, as required by 40 CFR Part 77:

(1) Pay, without demand, the penalty required and pay, upon demand, the interest on that penalty.

(2) Comply with the terms of an approved offset plan.

E. 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.

F. Liability

(i) Any person who knowingly violates any requirement or prohibition of the ARP, a complete acid rain permit application, an acid rain permit, or a written exemption under 40 CFR §§ 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to FCAA § 113(c).

(ii) Any person who knowingly makes a false, material statement in any record, submission, or report under the ARP shall be subject to criminal enforcement pursuant to FCAA § 113(c) and 18 U.S.C. 1001.

(iii) No permit revision shall excuse any violation of the requirements of the ARP that occurs prior to the date that the revision takes effect.

(iv) The affected source and each affected unit shall meet the requirements of the ARP contained in 40 CFR Parts 72 through 78.

(v) Any provision of the ARP that applies to an affected source or the designated representative of an affected source shall also apply to the owners and operators of such source and of the affected units at the source.

(vi) Any provision of the ARP that applies to an affected unit (including a provision applicable to the DR of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR § 72.44 (Phase II repowering extension plans) and 40 CFR § 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR §§ 75.16, 75.17, and 75.18), the owners and operators and the DR of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the DR and that is located at a source of which they are not owners or operators or the DR.

(vii) Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or DR of such source or unit, shall be a separate violation of the FCAA Amendments.

G. 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.

H. The number of SO_2 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

24. For units F-OGU1 and F-OGU2 (identified in the Certificate of Representation as units 1 and 2), located at the site identified by Plant code/ORIS/Facility code 6180, the designated representative and the owner or operator, as applicable, shall comply with the following CSAPR requirements.

A. General Requirements

(i) The owners and operators of the CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall operate the source and the unit in compliance with the requirements of the CSAPR NO_x Ozone Season Group 2 Trading Program and all other applicable State and federal requirements.

(ii) The owners and operators of the CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall comply with the requirements of 40 CFR Part 97, Subpart EEEEE for CSAPR NO_x Ozone Season Group 2 Trading Program, and with the General Terms and Conditions of the Federal Operating Permit (FOP) that incorporates the CSAPR requirements.

B. Description of CSAPR Monitoring Provisions

(i) The CSAPR subject unit(s), and the unit-specific monitoring provisions at this source, are identified in the following paragraph(s). These unit(s) are subject to the requirements for the CSAPR NO_x Ozone Season Group 2 Trading Program.

(1) For units F-OGU1 and F-OGU2, the owners and operators shall comply with the continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR Part 75, Subpart H for NO_x and heat input.

(ii) The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR §§ 97.830 through 97.835 (CSAPR NO_x Ozone Season Group 2 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable CSAPR trading program.

(iii) Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR §§ 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at https://www.epa.gov/airmarkets/monitoring-plans-part-75-sources.

(iv) Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR Part 75, Subpart E and 40 CFR § 75.66 and § 97.835 (CSAPR NO_x Ozone Season Group 2 Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at https://www.epa.gov/airmarkets/part-75-petition-responses.

(v) Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR §§ 97.830 through 97.834 (CSAPR NO_x Ozone Season Group 2 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR § 75.66 and § 97.835 (CSAPR NO_x Ozone Season Group 2 Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on the EPA's website at https://www.epa.gov/airmarkets/part-75-petition-responses.

(vi) The descriptions of monitoring applicable to the unit(s) included above meet the requirement of 40 CFR §§ 97.830 through 97.834 (CSAPR NO_x Ozone Season Group 2 Trading Program), and therefore procedures for minor permit revisions, in accordance with 30 TAC § 122.217, may be used to add or change this unit's monitoring system description.

25. CSAPR NO_x Ozone Season Group 2 Trading Program Requirements (40 CFR § 97.806)

A. Designated representative requirements

(i) The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR §§ 97.813 through 97.818.

B. Emissions monitoring, reporting, and recordkeeping requirements

(i) The owners and operators, and the designated representative, of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR § 97.830 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), § 97.831 (initial monitoring system certification and recertification procedures), § 97.832 (monitoring system out-of-control periods), § 97.833 (notifications concerning monitoring), § 97.834 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and § 97.835 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(ii) The emissions data determined in accordance with 40 CFR § 97.830 through § 97.835 and any other credible evidence shall be used to calculate allocations of CSAPR NO_x Ozone Season Group 2 allowances under 40 CFR §§ 97.811 (a)(2) and (b) and § 97.812 and to determine compliance with the CSAPR NO_x Ozone Season Group 2 emissions limitation and assurance provisions under paragraph C. below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR §§ 97.830 through 97.835 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

C. NO_x emissions requirements

(i) CSAPR NO_x Ozone Season Group 2 emissions limitation

(1) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold, in the source's compliance account, CSAPR NO_x Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR § 97.824 (a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Ozone Season Group 2 units at the source.

(2) If total NO_x emissions during a control period in a given year from the CSAPR NO_x Ozone Season Group 2 units at a CSAPR NO_x Ozone Season Group 2 source are in excess of the CSAPR NO_x Ozone Season Group 2 emissions limitation set forth in paragraph C.(i)(1) above, then:

(a) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold the CSAPR NO_x Ozone Season Group 2 allowances required for deduction under 40 CFR § 97.824 (d); and

(b) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart EEEEE and the Clean Air Act.

(ii) CSAPR NO_x Ozone Season Group 2 assurance provisions

(1) If total NO_x emissions during a control period in a given year from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_x Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR § 97.825 (a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR § 97.825 (b), of multiplying -

(a) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and

(b) The amount by which total NO_x emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state for such control period exceed the state assurance level.

(2) The owners and operators shall hold the CSAPR NO_x Ozone Season Group 2 allowances required under paragraph C.(ii)(1) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(3) Total NO_x emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state during a control period in a given year exceed the state assurance level if such total NO_x emissions exceed the sum, for such control period, of the state NO_x Ozone Season Group 2 trading budget under 40 CFR § 97.810 (a) and the state's variability limit under 40 CFR § 97.810 (b).

(4) It shall not be a violation of 40 CFR Part 97, Subpart EEEEE or of the Clean Air Act if total NO_x emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total NO_x emissions from the CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state during a control period exceeds the common designated representative's assurance level.

(5) To the extent the owners and operators fail to hold CSAPR NO_x Ozone Season Group 2 allowances for a control period in a given year in accordance with paragraphs C.(ii)(1) through (3) above,

(a) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(b) Each CSAPR NO_x Ozone Season Group 2 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs C.(ii)(1) through (3) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart EEEEE and the Clean Air Act.

(iii) Compliance periods

(1) A CSAPR NO_x Ozone Season Group 2 unit shall be subject to the requirements under paragraph C.(i) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.830 (b) and for each control period thereafter.

(2) A CSAPR NO_x Ozone Season Group 2 unit shall be subject to the requirements under paragraph C.(ii) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.830 (b) and for each control period thereafter.

(iv) Vintage of allowances held for compliance

(1) A CSAPR NO_x Ozone Season Group 2 allowance held for compliance with the requirements under paragraph C.(i)(1) above for a control period in a given year must be a CSAPR NO_x Ozone Season Group 2 allowance that was allocated for such control period or a control period in a prior year.

(2) A CSAPR NO_x Ozone Season Group 2 allowance held for compliance with the requirements under paragraphs C.(i)(2)(a) and (ii)(1) through (3) above for a control period in a given year must be a CSAPR NO_x Ozone Season Group 2 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(v) Allowance Management System requirements. Each CSAPR NO_x Ozone Season Group 2 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart EEEEE.

(vi) Limited authorization. A CSAPR NO_x Ozone Season Group 2 allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:

(1) Such authorization shall only be used in accordance with the CSAPR NO_x Ozone Season Group 2 Trading Program; and

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

(vii) Property right. A CSAPR NO_x Ozone Season Group 2 allowance does not constitute a property right.

D. FOP revision requirements

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

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

E. Additional recordkeeping and reporting requirements

(i) Unless otherwise provided, the owners and operators of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(1) The certificate of representation under 40 CFR § 97.816 for the designated representative for the source and each CSAPR NO_x Ozone Season Group 2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR § 97.816 changing the designated representative.

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

(3) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_x Ozone Season Group 2 Trading Program.

(ii) The designated representative of a CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall make all submissions required under the CSAPR NO_x Ozone Season Group 2 Trading Program, except as provided in 40 CFR § 97.818. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under 30 TAC § 122.165.

F. Liability

(i) Any provision of the CSAPR NO_x Ozone Season Group 2 Trading Program that applies to a CSAPR NO_x Ozone Season Group 2 source or the designated representative of a CSAPR NO_x Ozone Season Group 2 source shall also apply to the owners and operators of such source and of the CSAPR NO_x Ozone Season Group 2 units at the source.

(ii) Any provision of the CSAPR NO_x Ozone Season Group 2 Trading Program that applies to a CSAPR NO_x Ozone Season Group 2 unit or the designated representative of a CSAPR NO_x Ozone Season Group 2 unit shall also apply to the owners and operators of such unit.

G. Effect on other authorities

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

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

New Source Review Authorization References

Alternative Requirement

Applicable Requirements Summary

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

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
F-OGAB	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Db	40 CFR Part 60, Subpart Db	No changing attributes.
F-OGAB	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD	40 CFR Part 63, Subpart DDDDD	No changing attributes.
F-OGABEDG	SRIC ENGINES	N/A	60IIII	40 CFR Part 60, Subpart IIII	No changing attributes.
F-OGABEDG	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
F-OGDFEG	SRIC ENGINES	N/A	60IIII	40 CFR Part 60, Subpart IIII	No changing attributes.
F-OGDFEG	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
F-OGFP	SRIC ENGINES	N/A	60IIII	40 CFR Part 60, Subpart IIII	No changing attributes.
F-OGFP	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
F-OGLT29	MINERAL PROCESSING PLANT	N/A	60OOO-08	40 CFR Part 60, Subpart OOO	No changing attributes.
F-OGLT36A	MINERAL PROCESSING PLANT	N/A	60OOO-83	40 CFR Part 60, Subpart OOO	No changing attributes.
F-OGLT36B	MINERAL PROCESSING PLANT	N/A	60OOO-83	40 CFR Part 60, Subpart OOO	No changing attributes.
F-OGTGDG	SRIC ENGINES	N/A	60IIII	40 CFR Part 60, Subpart IIII	No changing attributes.
F-OGTGDG	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRPAUXBOIL	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	E-OGTAB1, E-OGTAB2, E-OGTAB3, E-OGTAB4	60DC	40 CFR Part 60, Subpart Dc	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPAUXBOIL	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	E-OGTAB1, E-OGTAB2, E-OGTAB3, E-OGTAB4	63DDDDD	40 CFR Part 63, Subpart DDDDD	No changing attributes.
GRPBOILERS	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	F-OGU1, F-OGU2	R1111	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
GRPBOILERS	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	F-OGU1, F-OGU2	R112	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
GRPBOILERS	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	F-OGU1, F-OGU2	60Da-LEAKDETECT	40 CFR Part 60, Subpart Da	Opacity Monitoring Type = The facility uses a fabric filter with a leak detection system installed per § 60.49Da(a)(2)(i) to meet § 60.42Da and elects to monitor opacity per § 60.49Da(a)(3)., PM Monitoring Type = A baghouse is used for PM control and PM monitored using a leak detection system per § 60.48Da(o)(4).
GRPBOILERS	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	F-OGU1, F-OGU2	60Da-PMCEMS	40 CFR Part 60, Subpart Da	Opacity Monitoring Type = No monitoring for opacity, a CEMS is used to monitor PM., PM Monitoring Type = Continuous emission monitoring system (CEMS) per § 60.49Da(v).
GRPBOILERS	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	F-OGU1, F-OGU2	63UUUUU-BTU	40 CFR Part 63, Subpart UUUUU	PM-Input = A heat input-based limit is used for PM., SO2-Input = A heat input-based limit is used for sulfur dioxide., Hg-Input-c = A heat input-based limit is used for mercury., TotHAP-LEE = The unit is not

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					qualifying as a low emitting EGU (LEE) for total non-Hg HAP metals or total HAP metals.
GRPBOILERS	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	F-OGU1, F-OGU2	63UUUUU-MW	40 CFR Part 63, Subpart UUUUU	PM-Input = A heat input-based limit is not used for PM., Ni-Input = A heat input-based limit is not used for nickel., Se-Input = A heat input-based limit is not used for selenium., Hg-Input-a = A heat input-based limit is not used for mercury., SO2-Input = A heat input-based limit is not used for sulfur dioxide., Pb-Input = A heat input-based limit is not used for lead., Mn-Input = A heat input-based limit is not used for manganese., Hg-Input-c = A heat input-based limit is not used for mercury.
GRPBOILSTK	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	E-OGU1, E-OGU2	R1111-NG	30 TAC Chapter 111, Visible Emissions	Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit.
GRPBOILSTK	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	E-OGU1, E-OGU2	R1111-SF	30 TAC Chapter 111, Visible Emissions	Vent Source = The source of the vent is a steam generator fired by solid fossil fuel., Annual ACF = Annual average capacity factor is greater than 30%, but was not reportable to the Federal Power Commission for calendar year 1974.
GRPCOAL	COAL PREPARATION PLANT	F-OGCFT10, F-OGCFT11, F-	60Y-74	40 CFR Part 60, Subpart Y	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		OGCFT12, F-OGCFT17, F-OGCFT18, F-OGCFT19, F-OGCFT20, F-OGCFT21, F-OGCFT22, F-OGCFT23, F-OGCFT24, F-OGCFT25, F-OGCFT26, F-OGCFT9, F-OGLSILO, F-OGLT1, F-OGLT2A, F-OGLT2B, F-OGSSPRA, F-OGSSPRB, F-OGU1NSA, F-OGU1NSB, F-OGU1SSA, F-OGU1SSB, F-OGU2NSA, F-OGU2NSB, F-OGU2SSA, F-OGU2SSB			
GRPCOALVENT	COAL PREPARATION PLANT	E-OGCHBFV, E-OGLSILO, E-OGSBTTBV, E-OGU1NSV, E-OGU1SSV, E-OGU2NSV, E-OGU2SSV	60Y-74	40 CFR Part 60, Subpart Y	No changing attributes.
GRPLMSTN	MINERAL PROCESSING PLANT	F-OGLSPR2, F-OGLT36C	60OOO-83	40 CFR Part 60, Subpart OOO	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPLMSTN08+	MINERAL PROCESSING PLANT	F-OGCLC, F-OGCLH	60OOO-08	40 CFR Part 60, Subpart OOO	No changing attributes.
GRPRCOAL	COAL PREPARATION PLANT	E-OGSRBF, E-OGSRCF, E-OGSRFF	60Y-08	40 CFR Part 60, Subpart Y	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)
F-OGAB	EU	60Db	NO_X	40 CFR Part 60, Subpart Db	§ 60.44b(l)(2) [G]§ 60.44b(j) § 60.46b(a)	Affected facilities with a low heat release rate and combusting natural gas or distillate oil in excess of 30% of the heat input from the combustion of all fuels, a limit determined by use of the specified formula.	§ 60.46b(c) § 60.46b(g) [G]§ 60.46b(h)	[G]§ 60.49b(d) § 60.49b(o) [G]§ 60.49b(p)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(2) § 60.49b(a)(3) § 60.49b(b) § 60.49b(q) § 60.49b(q)(1) § 60.49b(q)(3) § 60.49b(w)
F-OGAB	EU	60Db	PM	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
F-OGAB	EU	60Db	PM (Opacity)	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
F-OGAB	EU	60Db	SO_2	40 CFR Part 60, Subpart Db	§ 60.42b(k)(2)	Units firing only very low sulfur oil and/or a mixture of gaseous fuels with a potential SO2 emission rate of 140 ng/J (0.32 lb/MMBtu) heat input or less are exempt from the SO2 emissions limit in §60.42b(k)(1).	§ 60.47b(f)	§ 60.45b(k) § 60.49b(o) § 60.49b(r) § 60.49b(r)(1)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(r) § 60.49b(r)(1)
F-OGAB	EU	63DDDDD	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.1 § 63.7500(a)(1)	A new or existing limited use boiler or process heater with a heat input capacity of	§ 63.7515(d) § 63.7540(a) [G]§ 63.7540(a)(10)	§ 63.7525(k) § 63.7555(a) § 63.7555(a)(1)	§ 63.7530(f) § 63.7545(a) § 63.7545(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)
					§ 63.7500(a)(3) § 63.7500(c) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(12) § 63.7540(a)(13)	less than or equal to 5 million Btu per hour must conduct a tune-up of the boiler or process heater every 5 years as specified in § 63.7540.		§ 63.7555(a)(3) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7545(c) § 63.7545(e) § 63.7545(e)(1) § 63.7545(e)(8) § 63.7545(e)(8)(i) § 63.7550(a) [G]§ 63.7550(b) § 63.7550(c) § 63.7550(c)(1) § 63.7550(c)(5)(i) § 63.7550(c)(5)(ii) § 63.7550(c)(5)(iii) § 63.7550(c)(5)(iv) § 63.7550(c)(5)(xiv) § 63.7550(c)(5)(xvii) § 63.7550(h)(3)
F-OGABEDG	EU	60IIII	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(1)(ii) § 60.4202(a)(1)(ii)-Table 2 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 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 19 KW and less than 37 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 5.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(1)(i)-(ii), 40 CFR 1039-Appendix I, and Table 2 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	None
F-OGABEDG	EU	60IIII	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(1)(ii) § 60.4202(a)(1)(ii)-Table 2 § 60.4206 § 60.4207(b)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power less than 37 KW and a displacement of	§ 60.4209(a)	§ 60.4214(b)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218	less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NOx emission limit of 7.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(1)(i)-(ii), 40 CFR 1039-Appendix I, and Table 2 to this subpart.			
F-OGABEDG	EU	60IIII	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(1)(ii) § 60.4202(a)(1)(ii)-Table 2 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 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 19 KW and less than 37 KW and a displacement of less than 10 liters per cylinder and is a 2008 model year and later must comply with a PM emission limit of 0.30 g/KW-hr, as stated in 40 CFR 60.4202(a)(1)(ii) and Table 2 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	None
F-OGABEDG	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as	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)
						applicable. No further requirements apply for such engines under this part.			
F-OGDFEG	EU	60IIII	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(b)(1)-Table 1 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 - 2010 model year must comply with a CO emission limit of 11.4 g/KW-hr, as stated in 40 CFR 60.4202(b)(1) and Table 1 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	None
F-OGDFEG	EU	60IIII	Hydrocarbons	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(b)(1)-Table 1 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 - 2010 model year must comply with an HC emission limit of 1.3 g/KW-hr, as stated in 40 CFR 60.4202(b)(1) and Table 1 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	None
F-OGDFEG	EU	60IIII	NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(b)(1)-Table 1 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than 2237 KW and a displacement of less than	§ 60.4209(a)	§ 60.4214(b)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218	10 liters per cylinder and is a 2007 - 2010 model year must comply with a NOx emission limit of 9.2 g/KW-hr, as stated in 40 CFR 60.4202(b)(1) and Table 1 to this subpart.			
F-OGDFEG	EU	60IIII	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(b)(1)-Table 1 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 - 2010 model year must comply with a PM emission limit of 0.54 g/KW-hr, as stated in 40 CFR 60.4202(b)(1) and Table 1 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	None
F-OGDFEG	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(b)(1) § 63.6640(f) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	An affected source which meets either of the criteria in paragraphs §63.6590(b)(1)(i)-(ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f).	None	None	§ 63.6645(f)
F-OGFP	EU	60IIII	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1)	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	§ 60.4209(a)	§ 60.4214(b)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218	to 560 KW and a displacement of less than 30 liters per cylinder and is a 2008 model year or earlier must comply with a CO emission limit of 3.5 g/KW-hr, as listed in Table 4 to this subpart.			
F-OGFP	EU	60IIII	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2008 model year or earlier must comply with an NMHC+NOx emission limit of 10.5 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	None
F-OGFP	EU	60IIII	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2008 model year or earlier must comply with a PM emission limit of 0.54 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	None
F-OGFP	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR	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)
						Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
F-OGLT29	EU	60OOO-08	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(e)(1)	Any building enclosing affected facilities shall not emit fugitive emissions from building openings in excess of 7 percent opacity.	§ 60.675(a) § 60.675(c)(1) § 60.675(c)(1)(i) § 60.675(c)(1)(ii) § 60.675(c)(3) § 60.675(d) § 60.675(d)(1) [G]§ 60.675(e)(1) [G]§ 60.675(e)(2) § 60.675(g) ** See Periodic Monitoring Summary	None	§ 60.675(g) § 60.676(f) § 60.676(h) § 60.676(i) § 60.676(i)(1) § 60.676(k)
F-OGLT36A	EU	60OOO-83	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(f)-Table 2 § 60.672(f)	Baghouses that control emissions from only an individual, enclosed storage bin are exempt from the stack PM limit in Table 2 but must meet the stack opacity limit in Table 2. This exemption from the stack PM concentration limit does not apply for multiple	§ 60.675(a) § 60.675(c)(2)(i) § 60.675(c)(2)(ii) [G]§ 60.675(e)(2) § 60.675(g) ** See Periodic Monitoring Summary	None	§ 60.675(g) § 60.676(f) § 60.676(h) § 60.676(i) § 60.676(i)(1) § 60.676(k)

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)
						storage bins with combined stack emissions (for facilities that commenced construction, modification, or reconstruction after 08/31/1983 but before 04/22/2008, the owner/operator must meet an opacity limit of 7 percent for dry control devices).			
F-OGLT36B	EU	60OOO-83	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(f)-Table 2 § 60.672(f)	Baghouses that control emissions from only an individual, enclosed storage bin are exempt from the stack PM limit in Table 2 but must meet the stack opacity limit in Table 2. This exemption from the stack PM concentration limit does not apply for multiple storage bins with combined stack emissions (for facilities that commenced construction, modification, or reconstruction after 08/31/1983 but before 04/22/2008, the owner/operator must meet an opacity limit of 7 percent for dry control devices).	§ 60.675(a) § 60.675(c)(2)(i) § 60.675(c)(2)(ii) [G]§ 60.675(e)(2) § 60.675(g) ** See Periodic Monitoring Summary	None	§ 60.675(g) § 60.676(f) § 60.676(h) § 60.676(i) § 60.676(i)(1) § 60.676(k)
F-OGTGDG	EU	60IIII	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) § 60.4211(f)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 37 KW and less than 130 KW and a displacement of less than	§ 60.4209(a)	§ 60.4214(b)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218	10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 5.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.			
F-OGTGDG	EU	60IIII	NMHC and NO_X	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) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 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 37 KW and less than 75 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year must comply with an NMHC+NOx emission limit of 7.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.	§ 60.4209(a)	§ 60.4214(b)	None
F-OGTGDG	EU	60IIII	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) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 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 37 KW and less than 75 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 0.40 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.	§ 60.4209(a)	§ 60.4214(b)	None
F-OGTGDG	EU	63ZZZZ	112(B)	40 CFR Part 63,	§ 63.6590(c)	Stationary RICE subject to	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)
			HAPS	Subpart ZZZZ		Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
GRPAUXBOIL	EU	60DC	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
GRPAUXBOIL	EU	60DC	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
GRPAUXBOIL	EU	60DC	SO_2	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)

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)
GRPAUXBOIL	EU	63DDDDD	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.1 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7500(c) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(12) § 63.7540(a)(13)	A new or existing limited use boiler or process heater with a heat input capacity of less than or equal to 5 million Btu per hour must conduct a tune-up of the boiler or process heater every 5 years as specified in § 63.7540.	§ 63.7510(g) § 63.7515(d) § 63.7540(a) [G]§ 63.7540(a)(10)	§ 63.7525(k) § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(3) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) § 63.7545(e) § 63.7545(e)(1) § 63.7545(e)(8) § 63.7545(e)(8)(i) § 63.7550(a) [G]§ 63.7550(b) § 63.7550(c) § 63.7550(c)(1) § 63.7550(c)(5)(i) § 63.7550(c)(5)(ii) § 63.7550(c)(5)(iii) § 63.7550(c)(5)(iv) § 63.7550(c)(5)(xiv) § 63.7550(c)(5)(xvii) § 63.7550(h)(3)
GRPBOILERS	EU	R1111	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.153(b)	No person may cause, suffer, allow, or permit emissions of particulate matter from any solid fossil fuel-fired steam generator to exceed 0.3 pound of total suspended particulate per million Btu heat input, averaged over a two-hour period.	** See CAM Summary	None	None
GRPBOILERS	EU	R112	SO_2	30 TAC Chapter 112, Sulfur Compounds	§ 112.8(a)	Except as in §112.8(b), no person may cause, suffer, allow, or permit emissions of SO2 from solid fossil fuel-fired steam generators to exceed 3.0 lb/MMBtu heat input averaged over a 3-hour period.	§ 112.2(a) § 112.8(d) ** See CAM Summary	§ 112.2(c)	§ 112.2(b)
GRPBOILE	EU	60Da-	NO_X	40 CFR Part 60,	§ 60.44Da(e)(1)	For an affected facility	§ 60.48Da(b)	§ 60.49Da(e)	§ 60.48Da(c)

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)
RS		LEAKDETECT		Subpart Da	§ 60.48Da(a) [G]§ 60.48Da(s)	which commenced construction after February 28, 2005, but before May 4, 2011, the owner or operator shall not discharge any gases that contain NOx (expressed as NO2) in excess of 130 ng/J (1.0 lb/MWh) gross energy output.	§ 60.48Da(c) § 60.48Da(d) § 60.48Da(h) § 60.48Da(i) § 60.49Da(c)(2) § 60.49Da(e) § 60.49Da(f)(2) § 60.49Da(h) § 60.49Da(h)(2) § 60.49Da(h)(4) § 60.49Da(j)(2) § 60.49Da(j)(3) § 60.49Da(j)(4) [G]§ 60.49Da(k) § 60.49Da(m) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.50Da(a) [G]§ 60.50Da(d) [G]§ 60.50Da(e)	[G]§ 60.49Da(k) [G]§ 60.49Da(s) [G]§ 60.49Da(w)	§ 60.48Da(s)(2) § 60.49Da(c)(2) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.51Da(a) § 60.51Da(b) § 60.51Da(b)(1) § 60.51Da(b)(2) § 60.51Da(b)(4) § 60.51Da(b)(5) § 60.51Da(b)(6) § 60.51Da(b)(7) § 60.51Da(b)(8) § 60.51Da(b)(9) [G]§ 60.51Da(c) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(j) § 60.51Da(k)
GRPBOILERS	EU	60Da-LEAKDETECT	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(c)(2) § 60.48Da(a) [G]§ 60.48Da(s)	No owner or operator of an affected facility that commenced construction, reconstruction, or modification after February 28, 2005, but before May 4, 2011, shall discharge any gases that contain PM in excess of 6.4 ng/J (0.015 lb/MMBtu) heat input derived from the combustion of solid, liquid, or gaseous fuel.	§ 60.48Da(f) § 60.48Da(o)(1) [G]§ 60.48Da(o)(4) § 60.50Da(a) [G]§ 60.50Da(b)(1) [G]§ 60.50Da(e)	None	§ 60.48Da(s)(2) § 60.51Da(a) [G]§ 60.51Da(h) § 60.51Da(j)
GRPBOILERS	EU	60Da-LEAKDETECT	PM (Opacity)	40 CFR Part 60, Subpart Da	§ 60.42Da(b) § 60.48Da(a) [G]§ 60.48Da(s)	No owner or operator shall discharge any gases which exhibit greater than 20 percent opacity (6-minute average), except for one 6-	§ 60.48Da(q) [G]§ 60.49Da(a)(3) § 60.50Da(a) § 60.50Da(b)(3) [G]§ 60.50Da(e)	[G]§ 60.51Da(d)(1) [G]§ 60.52Da(b)	§ 60.48Da(s)(2) § 60.51Da(a) § 60.51Da(d) § 60.51Da(f) [G]§ 60.51Da(h)

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)
						minute period per hour of not more than 27 percent opacity.			§ 60.51Da(i) § 60.51Da(j) § 60.51Da(k)
GRPBOILERS	EU	60Da-LEAKDETECT	SO_2	40 CFR Part 60, Subpart Da	§ 60.43Da(i)(1)(i) § 60.43Da(g) § 60.48Da(a) [G]§ 60.48Da(s)	No owner or operator an affected facility which commenced construction after February 28, 2005, but before May 4, 2011, shall discharge any gases that contain sulfur dioxide in excess of 180 ng/J (1.4 lb/MWh) gross energy output.	§ 60.48Da(b) § 60.48Da(c) § 60.48Da(d) § 60.48Da(h) § 60.48Da(m) § 60.49Da(b) § 60.49Da(b)(4) § 60.49Da(b)(4)(i) § 60.49Da(b)(4)(iii) § 60.49Da(e) § 60.49Da(f)(2) § 60.49Da(h) § 60.49Da(h)(1) § 60.49Da(h)(4) § 60.49Da(j)(1) § 60.49Da(j)(3) § 60.49Da(j)(4) [G]§ 60.49Da(k) § 60.49Da(m) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.50Da(a) § 60.50Da(c) § 60.50Da(c)(4) § 60.50Da(c)(5) [G]§ 60.50Da(e)	§ 60.49Da(b) § 60.49Da(e) [G]§ 60.49Da(k) [G]§ 60.49Da(s) [G]§ 60.49Da(w)	§ 60.48Da(c) § 60.48Da(s)(2) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.51Da(a) § 60.51Da(b) § 60.51Da(b)(1) § 60.51Da(b)(2) § 60.51Da(b)(4) § 60.51Da(b)(5) § 60.51Da(b)(6) § 60.51Da(b)(7) § 60.51Da(b)(8) § 60.51Da(b)(9) [G]§ 60.51Da(c) [G]§ 60.51Da(e) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(j) § 60.51Da(k)
GRPBOILERS	EU	60Da-PMCEMS	NO_X	40 CFR Part 60, Subpart Da	§ 60.44Da(e)(1) § 60.48Da(a) [G]§ 60.48Da(s)	For an affected facility which commenced construction after February 28, 2005, but before May 4, 2011, the owner or operator shall not discharge any gases that contain NOx (expressed as NO2) in	§ 60.48Da(b) § 60.48Da(c) § 60.48Da(d) § 60.48Da(h) § 60.48Da(i) § 60.49Da(c)(2) § 60.49Da(e) § 60.49Da(f)(2)	§ 60.49Da(e) [G]§ 60.49Da(k) [G]§ 60.49Da(s) [G]§ 60.49Da(w)	§ 60.48Da(c) § 60.48Da(s)(2) § 60.49Da(c)(2) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.51Da(a) § 60.51Da(b) § 60.51Da(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)
						excess of 130 ng/J (1.0 lb/MWh) gross energy output.	§ 60.49Da(h) § 60.49Da(h)(2) § 60.49Da(h)(4) § 60.49Da(j)(2) § 60.49Da(j)(3) § 60.49Da(j)(4) [G]§ 60.49Da(k) § 60.49Da(m) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.50Da(a) [G]§ 60.50Da(d) [G]§ 60.50Da(e)		§ 60.51Da(b)(2) § 60.51Da(b)(4) § 60.51Da(b)(5) § 60.51Da(b)(6) § 60.51Da(b)(7) § 60.51Da(b)(8) § 60.51Da(b)(9) [G]§ 60.51Da(c) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(j) § 60.51Da(k)
GRPBOILERS	EU	60Da-PMCEMS	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(c)(2) § 60.48Da(a) [G]§ 60.48Da(s)	No owner or operator of an affected facility that commenced construction, reconstruction, or modification after February 28, 2005, but before May 4, 2011, shall discharge any gases that contain PM in excess of 6.4 ng/J (0.015 lb/MMBtu) heat input derived from the combustion of solid, liquid, or gaseous fuel.	§ 60.48Da(f) [G]§ 60.48Da(p) § 60.49Da(g) [G]§ 60.49Da(s) § 60.49Da(t) [G]§ 60.49Da(v) [G]§ 60.49Da(w) § 60.50Da(a) [G]§ 60.50Da(b)(1) [G]§ 60.50Da(e)	[G]§ 60.49Da(s) [G]§ 60.49Da(v) [G]§ 60.49Da(w)	§ 60.48Da(s)(2) [G]§ 60.49Da(s) [G]§ 60.49Da(v) [G]§ 60.49Da(w) § 60.51Da(a) [G]§ 60.51Da(h) § 60.51Da(j)
GRPBOILERS	EU	60Da-PMCEMS	SO_2	40 CFR Part 60, Subpart Da	§ 60.43Da(i)(1)(i) § 60.43Da(g) § 60.48Da(a) [G]§ 60.48Da(s)	No owner or operator an affected facility which commenced construction after February 28, 2005, but before May 4, 2011, shall discharge any gases that contain sulfur dioxide in excess of 180 ng/J (1.4 lb/MWh) gross energy output.	§ 60.48Da(b) § 60.48Da(c) § 60.48Da(d) § 60.48Da(h) § 60.48Da(m) § 60.49Da(b) § 60.49Da(b)(4) § 60.49Da(b)(4)(i) § 60.49Da(b)(4)(iii) § 60.49Da(e) § 60.49Da(f)(2) § 60.49Da(h)	§ 60.49Da(b) § 60.49Da(e) [G]§ 60.49Da(k) [G]§ 60.49Da(s) [G]§ 60.49Da(w)	§ 60.48Da(c) § 60.48Da(s)(2) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.51Da(a) § 60.51Da(b) § 60.51Da(b)(1) § 60.51Da(b)(2) § 60.51Da(b)(4) § 60.51Da(b)(5) § 60.51Da(b)(6) § 60.51Da(b)(7)

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)
							§ 60.49Da(h)(1) § 60.49Da(h)(4) § 60.49Da(j)(1) § 60.49Da(j)(3) § 60.49Da(j)(4) [G]§ 60.49Da(k) § 60.49Da(m) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.50Da(a) § 60.50Da(c) § 60.50Da(c)(4) § 60.50Da(c)(5) [G]§ 60.50Da(e)		§ 60.51Da(b)(8) § 60.51Da(b)(9) [G]§ 60.51Da(c) [G]§ 60.51Da(e) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(j) § 60.51Da(k)
GRPBOILERS	EU	63UUUUU-BTU	Mercury	40 CFR Part 63, Subpart UUUUU	§ 63.9991(a)(1)-Table 2.2.c § 63.10000(a) § 63.10000(b) § 63.10000(d)(1) [G]§ 63.10000(d)(2) § 63.10000(d)(4) § 63.10000(e) § 63.10005(a) § 63.10005(d) § 63.10005(e) § 63.10005(f) § 63.10005(j) [G]§ 63.10006(i) § 63.10007(e) [G]§ 63.10009(a) § 63.10009(c) [G]§ 63.10009(d) § 63.10009(e) § 63.10009(f) § 63.10009(f)(1) § 63.10011(f)(1) § 63.10011(f)(2) [G]§ 63.10011(g) § 63.10021(e)-	For existing coal-fired unit low rank virgin coal, mercury limit is 4.0 lb/TBtu heat input. LEE Testing for 30 days with a sampling period consistent with that given in section 5.2.1 of appendix A to this subpart per Method 30B run or Hg CEMS or sorbent trap monitoring system only.	§ 63.10000(c)(1) [G]§ 63.10000(c)(1)(vi) § 63.10005(a) § 63.10005(a)(1) § 63.10005(a)(2) § 63.10005(a)(2)(i) § 63.10005(a)(2)(ii) [G]§ 63.10005(b) § 63.10005(d)(3) [G]§ 63.10006(f)(1) [G]§ 63.10006(f)(3) § 63.10006(g) § 63.10007(a) § 63.10007(a)(1) § 63.10007(a)(2) § 63.10007(b) § 63.10007(b)-Table 5.4 § 63.10007(d) § 63.10007(e)(1) § 63.10007(e)(2) § 63.10007(e)(2)(v) § 63.10007(f) [G]§ 63.10007(f)(1)	§ 63.10000(d)(1) [G]§ 63.10000(d)(2) [G]§ 63.10000(d)(5) [G]§ 63.10005(b) § 63.10005(f) § 63.10020(a) § 63.10020(b) § 63.10020(d) [G]§ 63.10032(a) [G]§ 63.10032(b) § 63.10032(c) § 63.10032(d) § 63.10032(d)(1) § 63.10032(e) § 63.10032(f) § 63.10032(f)(1) § 63.10032(g) § 63.10032(h) § 63.10032(i) § 63.10033(a) § 63.10033(b) § 63.10033(c)	§ 63.10000(d)(3) § 63.10005(k) § 63.10021(f) § 63.10021(g) § 63.10030(a) § 63.10030(b) § 63.10030(d) [G]§ 63.10030(e) § 63.10030(f) § 63.10031(a) § 63.10031(a)(1) § 63.10031(a)-Table 8.1 § 63.10031(a)-Table 8.10 § 63.10031(a)-Table 8.11 § 63.10031(a)-Table 8.7 § 63.10031(a)-Table 8.8 § 63.10031(a)-Table 8.9 [G]§ 63.10031(b) [G]§ 63.10031(c) § 63.10031(d) § 63.10031(e) § 63.10031(f) § 63.10031(f)(1) § 63.10031(f)(2) § 63.10031(f)(4)

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)
					Table 7.5 § 63.10021(e)-Table 7.6 § 63.10021(e)-Table 7.7 [G]§ 63.10021(e) [G]§ 63.10021(h) § 63.10040 § 63.9991(a)(1) § 63.9991(a)(1)-Table 3.1 § 63.9991(a)(1)-Table 3.3.a.(1) § 63.9991(a)(1)-Table 3.3.c § 63.9991(a)(1)-Table 3.3.d § 63.9991(a)(1)-Table 3.4		§ 63.10009(b)(2) § 63.10009(f) § 63.10009(g) § 63.10009(g)(1) § 63.10009(h) [G]§ 63.10009(j) § 63.10010(a)(1) § 63.10010(b) § 63.10010(c) § 63.10010(g) § 63.10011(a) § 63.10011(c)(1) § 63.10011(e) § 63.10020(a) § 63.10020(b) § 63.10020(c) § 63.10021(a) § 63.10021(b) § 63.10021(b)-Table 7.1 § 63.10022(a) § 63.10022(a)(1) § 63.10022(a)(4) § 63.10022(b)		§ 63.10031(f)(5) [G]§ 63.10031(f)(6) § 63.10031(g)
GRPBOILERS	EU	63UUUUU-BTU	PM	40 CFR Part 63, Subpart UUUUU	§ 63.9991(a)(1)-Table 2.2.a § 63.10000(a) § 63.10000(b) § 63.10000(d)(1) [G]§ 63.10000(d)(2) § 63.10000(d)(4) § 63.10000(e) § 63.10000(l) § 63.10005(a) § 63.10005(d) § 63.10005(e) § 63.10005(f) § 63.10005(j) [G]§ 63.10006(i)	For existing coal-fired unit low rank virgin coal, filterable PM limit is 0.03 lb/MMBtu heat input. Collect a minimum of 1 dscm per run.	§ 63.10000(c)(1) § 63.10000(c)(1)(iv) § 63.10000(l) § 63.10005(a) § 63.10005(a)(1) § 63.10005(a)(2) § 63.10005(a)(2)(i) § 63.10005(a)(2)(ii) [G]§ 63.10005(b) § 63.10005(d)(1) [G]§ 63.10006(f)(1) § 63.10006(f)(2) [G]§ 63.10006(f)(3) § 63.10006(g) § 63.10007(a)	§ 63.10000(d)(1) [G]§ 63.10000(d)(2) [G]§ 63.10000(d)(5) § 63.10000(l) [G]§ 63.10005(b) § 63.10005(f) [G]§ 63.10010(i) § 63.10020(a) § 63.10020(b) § 63.10020(d) [G]§ 63.10032(a) [G]§ 63.10032(b) § 63.10032(c) § 63.10032(d) § 63.10032(d)(1)	§ 63.10000(d)(3) § 63.10000(l) § 63.10005(k) § 63.10021(f) § 63.10021(g) § 63.10030(a) § 63.10030(b) § 63.10030(d) [G]§ 63.10030(e) § 63.10030(f) § 63.10031(a) § 63.10031(a)(3) § 63.10031(a)-Table 8.10 § 63.10031(a)-Table 8.11 § 63.10031(a)-Table 8.13

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)
					§ 63.10007(e) § 63.10011(f)(1) § 63.10011(f)(2) [G]§ 63.10011(g) § 63.10021(e)-Table 7.5 § 63.10021(e)-Table 7.6 § 63.10021(e)-Table 7.7 [G]§ 63.10021(e) [G]§ 63.10021(h) § 63.10040 § 63.9991(a)(1) § 63.9991(a)(1)-Table 3.1 § 63.9991(a)(1)-Table 3.3.a.(1) § 63.9991(a)(1)-Table 3.3.d § 63.9991(a)(1)-Table 3.4		§ 63.10007(a)(1) § 63.10007(b) § 63.10007(b)-Table 5.1 § 63.10007(d) § 63.10007(e)(1) § 63.10007(e)(2) § 63.10007(f) [G]§ 63.10007(f)(1) § 63.10010(a)(1) § 63.10010(b) [G]§ 63.10010(i) § 63.10011(a) § 63.10011(c)(2) § 63.10011(e) § 63.10020(a) § 63.10020(b) § 63.10020(c) § 63.10021(a) § 63.10021(b) § 63.10021(b)-Table 7.1 **See Alternative Requirement	§ 63.10032(f) § 63.10032(f)(1) § 63.10032(g) § 63.10032(h) § 63.10032(i) § 63.10033(a) § 63.10033(b) § 63.10033(c)	§ 63.10031(a)-Table 8.3 § 63.10031(a)-Table 8.7 § 63.10031(a)-Table 8.8 § 63.10031(a)-Table 8.9 [G]§ 63.10031(b) [G]§ 63.10031(c) § 63.10031(d) § 63.10031(e) § 63.10031(f) § 63.10031(f)(1) § 63.10031(f)(2) § 63.10031(f)(4) § 63.10031(f)(5) [G]§ 63.10031(f)(6) § 63.10031(g) § 63.10032(f) § 63.10032(f)(1)
GRPBOILERS	EU	63UUUUU-BTU	SO_2	40 CFR Part 63, Subpart UUUUU	§ 63.9991(a)(1)-Table 2.2.b § 63.10000(a) § 63.10000(b) § 63.10000(d)(1) [G]§ 63.10000(d)(2) § 63.10000(d)(4) § 63.10000(e) § 63.10005(a) § 63.10005(d) § 63.10005(e) § 63.10005(f) § 63.10005(j) [G]§ 63.10006(i)	For existing coal-fired unit low rank virgin coal, sulfur dioxide limit is 0.2 lb/MMBtu heat input. The EGU must have some form of FGD system and SO2 CEMS installed.	§ 63.10000(c)(1) § 63.10000(c)(1)(v) § 63.10005(a) § 63.10005(a)(1) § 63.10005(a)(2) § 63.10005(a)(2)(i) § 63.10005(a)(2)(ii) [G]§ 63.10005(b) § 63.10005(d)(1) [G]§ 63.10006(f)(1) § 63.10006(f)(2) [G]§ 63.10006(f)(3) § 63.10006(g) § 63.10007(a)	§ 63.10000(d)(1) [G]§ 63.10000(d)(2) [G]§ 63.10000(d)(5) [G]§ 63.10005(b) § 63.10005(f) § 63.10020(a) § 63.10020(b) § 63.10020(d) [G]§ 63.10032(a) [G]§ 63.10032(b) § 63.10032(c) § 63.10032(d) § 63.10032(d)(1) § 63.10032(f)	§ 63.10000(d)(3) § 63.10005(k) § 63.10021(f) § 63.10021(g) § 63.10030(a) § 63.10030(b) § 63.10030(d) [G]§ 63.10030(e) § 63.10030(f) § 63.10031(a) § 63.10031(a)(5) § 63.10031(a)-Table 8.10 § 63.10031(a)-Table 8.11 § 63.10031(a)-Table 8.5

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.10007(e) § 63.10011(f)(1) § 63.10011(f)(2) [G]§ 63.10011(g) § 63.10021(e)-Table 7.5 § 63.10021(e)-Table 7.6 § 63.10021(e)-Table 7.7 [G]§ 63.10021(e) [G]§ 63.10021(h) § 63.10040 § 63.9991(a)(1) § 63.9991(a)(1)-Table 3.1 § 63.9991(a)(1)-Table 3.3.a.(1) § 63.9991(a)(1)-Table 3.3.d § 63.9991(a)(1)-Table 3.4 § 63.9991(c) § 63.9991(c)(1) § 63.9991(c)(2)		§ 63.10007(a)(1) § 63.10007(b) § 63.10007(b)-Table 5.5.a § 63.10007(b)-Table 5.5.b § 63.10007(b)-Table 5.5.c § 63.10007(e)(1) § 63.10007(e)(2) § 63.10007(e)(2)(i) § 63.10007(f) [G]§ 63.10007(f)(1) § 63.10010(a)(1) § 63.10010(b) § 63.10010(f)(1) § 63.10010(f)(2) § 63.10010(f)(3) § 63.10010(f)(4) § 63.10011(a) § 63.10011(c)(2) § 63.10011(e) § 63.10020(a) § 63.10020(b) § 63.10020(c) § 63.10021(a) § 63.10021(b) § 63.10021(b)-Table 7.1	§ 63.10032(f)(1) § 63.10032(g) § 63.10032(h) § 63.10032(i) § 63.10033(a) § 63.10033(b) § 63.10033(c)	§ 63.10031(a)-Table 8.7 § 63.10031(a)-Table 8.8 § 63.10031(a)-Table 8.9 [G]§ 63.10031(b) [G]§ 63.10031(c) § 63.10031(d) § 63.10031(e) § 63.10031(f) § 63.10031(f)(1) § 63.10031(f)(4) § 63.10031(f)(5) [G]§ 63.10031(f)(6) § 63.10031(g)
GRPBOILERS	EU	63UUUUU-MW	Mercury	40 CFR Part 63, Subpart UUUUU	§ 63.9991(a)(1)-Table 2.2.c § 63.10000(a) § 63.10000(b) § 63.10000(d)(1) [G]§ 63.10000(d)(2) § 63.10000(d)(4) § 63.10000(e) § 63.10005(a) § 63.10005(d)	For existing coal-fired unit low rank virgin coal, mercury limit is 0.04 lb/GWh gross output. LEE Testing for 30 days with a sampling period consistent with that given in section 5.2.1 of appendix A to this subpart per Method 30B run or Hg CEMS or sorbent trap	§ 63.10000(c)(1) [G]§ 63.10000(c)(1)(vi) § 63.10005(a) § 63.10005(a)(1) § 63.10005(a)(2) § 63.10005(a)(2)(i) § 63.10005(a)(2)(ii) [G]§ 63.10005(b) § 63.10005(d)(3)	§ 63.10000(d)(1) [G]§ 63.10000(d)(2) [G]§ 63.10000(d)(5) [G]§ 63.10005(b) § 63.10005(f) § 63.10020(a) § 63.10020(b) § 63.10020(d) [G]§ 63.10032(a) [G]§ 63.10032(b)	§ 63.10000(d)(3) § 63.10005(k) § 63.10021(f) § 63.10021(g) § 63.10030(a) § 63.10030(b) § 63.10030(d) [G]§ 63.10030(e) § 63.10030(f) § 63.10031(a)

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)
					§ 63.10005(e) § 63.10005(f) § 63.10005(j) [G]§ 63.10006(i) § 63.10007(e) [G]§ 63.10009(a) § 63.10009(c) [G]§ 63.10009(d) § 63.10009(e) § 63.10009(f) § 63.10009(f)(1) § 63.10011(f)(1) § 63.10011(f)(2) [G]§ 63.10011(g) § 63.10021(e)-Table 7.5 § 63.10021(e)-Table 7.6 § 63.10021(e)-Table 7.7 [G]§ 63.10021(e) [G]§ 63.10021(h) § 63.10040 § 63.9991(a)(1) § 63.9991(a)(1)-Table 3.1 § 63.9991(a)(1)-Table 3.3.a.(1) § 63.9991(a)(1)-Table 3.3.c § 63.9991(a)(1)-Table 3.3.d § 63.9991(a)(1)-Table 3.4	monitoring system only.	[G]§ 63.10006(f)(1) [G]§ 63.10006(f)(3) § 63.10006(g) § 63.10007(a) § 63.10007(a)(1) § 63.10007(a)(2) § 63.10007(b) § 63.10007(b)-Table 5.4 § 63.10007(d) § 63.10007(e)(1) § 63.10007(e)(3) § 63.10007(f) [G]§ 63.10007(f)(1) § 63.10007(f)(2) § 63.10009(b)(2) § 63.10009(f) § 63.10009(g) § 63.10009(g)(1) § 63.10009(h) [G]§ 63.10009(j) § 63.10010(a)(1) § 63.10010(b) § 63.10010(c) § 63.10010(g) § 63.10011(a) § 63.10011(c)(1) § 63.10011(e) § 63.10020(a) § 63.10020(b) § 63.10020(c) § 63.10021(a) § 63.10021(b) § 63.10021(b)-Table 7.1 § 63.10022(a) § 63.10022(a)(1) § 63.10022(a)(4) § 63.10022(b)	§ 63.10032(c) § 63.10032(d) § 63.10032(d)(1) § 63.10032(e) § 63.10032(f) § 63.10032(f)(1) § 63.10032(g) § 63.10032(h) § 63.10032(i) § 63.10033(a) § 63.10033(b) § 63.10033(c)	§ 63.10031(a)(1) § 63.10031(a)-Table 8.1 § 63.10031(a)-Table 8.10 § 63.10031(a)-Table 8.11 § 63.10031(a)-Table 8.7 § 63.10031(a)-Table 8.8 § 63.10031(a)-Table 8.9 [G]§ 63.10031(b) [G]§ 63.10031(c) § 63.10031(d) § 63.10031(e) § 63.10031(f) § 63.10031(f)(1) § 63.10031(f)(2) § 63.10031(f)(4) § 63.10031(f)(5) [G]§ 63.10031(f)(6) § 63.10031(g)

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)
GRPBOILERS	EU	63UUUUU-MW	PM	40 CFR Part 63, Subpart UUUUU	§ 63.9991(a)(1)-Table 2.2.a § 63.10000(a) § 63.10000(b) § 63.10000(d)(1) [G]§ 63.10000(d)(2) § 63.10000(d)(4) § 63.10000(e) § 63.10000(l) § 63.10005(a) § 63.10005(d) § 63.10005(e) § 63.10005(f) § 63.10005(j) [G]§ 63.10006(i) § 63.10007(e) § 63.10011(f)(1) § 63.10011(f)(2) [G]§ 63.10011(g) § 63.10021(e)-Table 7.5 § 63.10021(e)-Table 7.6 § 63.10021(e)-Table 7.7 [G]§ 63.10021(e) [G]§ 63.10021(h) § 63.10040 § 63.9991(a)(1) § 63.9991(a)(1)-Table 3.1 § 63.9991(a)(1)-Table 3.3.a.(1) § 63.9991(a)(1)-Table 3.3.d § 63.9991(a)(1)-Table 3.4	For existing coal-fired unit low rank virgin coal, filterable PM limit is 0.3 lb/MWh gross output. Collect a minimum of 1 dscm per run.	§ 63.10000(c)(1) § 63.10000(c)(1)(iv) § 63.10000(l) § 63.10005(a) § 63.10005(a)(1) § 63.10005(a)(2) § 63.10005(a)(2)(i) § 63.10005(a)(2)(ii) [G]§ 63.10005(b) § 63.10005(d)(1) [G]§ 63.10006(f)(1) § 63.10006(f)(2) [G]§ 63.10006(f)(3) § 63.10006(g) § 63.10007(a) § 63.10007(a)(1) § 63.10007(b) § 63.10007(b)-Table 5.1 § 63.10007(d) § 63.10007(e)(1) § 63.10007(e)(3) § 63.10007(f) [G]§ 63.10007(f)(1) § 63.10007(f)(2) § 63.10010(a)(1) § 63.10010(b) § 63.10010(c) [G]§ 63.10010(i) § 63.10011(a) § 63.10011(c)(2) § 63.10011(e) § 63.10020(a) § 63.10020(b) § 63.10020(c) § 63.10021(a) § 63.10021(b) § 63.10021(b)-Table 7.1 **See Alternative	§ 63.10000(d)(1) [G]§ 63.10000(d)(2) [G]§ 63.10000(d)(5) § 63.10000(l) [G]§ 63.10005(b) § 63.10005(f) [G]§ 63.10010(i) § 63.10020(a) § 63.10020(b) § 63.10020(d) [G]§ 63.10032(a) [G]§ 63.10032(b) § 63.10032(c) § 63.10032(d) § 63.10032(d)(1) § 63.10032(f) § 63.10032(f)(1) § 63.10032(g) § 63.10032(h) § 63.10032(i) § 63.10033(a) § 63.10033(b) § 63.10033(c)	§ 63.10000(d)(3) § 63.10000(l) § 63.10005(k) § 63.10021(f) § 63.10021(g) § 63.10030(a) § 63.10030(b) § 63.10030(d) [G]§ 63.10030(e) § 63.10030(f) § 63.10031(a) § 63.10031(a)(3) § 63.10031(a)-Table 8.10 § 63.10031(a)-Table 8.11 § 63.10031(a)-Table 8.13 § 63.10031(a)-Table 8.3 § 63.10031(a)-Table 8.7 § 63.10031(a)-Table 8.8 § 63.10031(a)-Table 8.9 [G]§ 63.10031(b) [G]§ 63.10031(c) § 63.10031(d) § 63.10031(e) § 63.10031(f) § 63.10031(f)(1) § 63.10031(f)(2) § 63.10031(f)(4) § 63.10031(f)(5) [G]§ 63.10031(f)(6) § 63.10031(g)

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)
							Requirement		
GRPBOILERS	EU	63UUUUU-MW	SO_2	40 CFR Part 63, Subpart UUUUU	§ 63.9991(a)(1)-Table 2.2.b § 63.10000(a) § 63.10000(b) § 63.10000(d)(1) [G]§ 63.10000(d)(2) § 63.10000(d)(4) § 63.10000(e) § 63.10005(a) § 63.10005(d) § 63.10005(e) § 63.10005(f) § 63.10005(j) [G]§ 63.10006(i) § 63.10007(e) § 63.10011(f)(1) § 63.10011(f)(2) [G]§ 63.10011(g) § 63.10021(e)-Table 7.5 § 63.10021(e)-Table 7.6 § 63.10021(e)-Table 7.7 [G]§ 63.10021(e) [G]§ 63.10021(h) § 63.10040 § 63.9991(a)(1) § 63.9991(a)(1)-Table 3.1 § 63.9991(a)(1)-Table 3.3.a.(1) § 63.9991(a)(1)-Table 3.3.d § 63.9991(a)(1)-Table 3.4 § 63.9991(c)	For existing coal-fired unit low rank virgin coal, sulfur dioxide limit is 1.5 lb/MWh gross output. The EGU must have some form of FGD system and SO2 CEMS installed.	§ 63.10000(c)(1) § 63.10000(c)(1)(v) § 63.10005(a) § 63.10005(a)(1) § 63.10005(a)(2) § 63.10005(a)(2)(i) § 63.10005(a)(2)(ii) [G]§ 63.10005(b) § 63.10005(d)(1) [G]§ 63.10006(f)(1) § 63.10006(f)(2) [G]§ 63.10006(f)(3) § 63.10006(g) § 63.10007(a) § 63.10007(a)(1) § 63.10007(b) § 63.10007(b)-Table 5.5.a § 63.10007(b)-Table 5.5.b § 63.10007(b)-Table 5.5.c § 63.10007(e)(1) § 63.10007(e)(3) § 63.10007(f) [G]§ 63.10007(f)(1) § 63.10007(f)(2) § 63.10010(a)(1) § 63.10010(b) § 63.10010(c) § 63.10010(f)(1) § 63.10010(f)(2) § 63.10010(f)(3) § 63.10010(f)(4) § 63.10011(a) § 63.10011(c)(2) § 63.10011(e)	§ 63.10000(d)(1) [G]§ 63.10000(d)(2) [G]§ 63.10000(d)(5) [G]§ 63.10005(b) § 63.10005(f) § 63.10020(a) § 63.10020(b) § 63.10020(d) [G]§ 63.10032(a) [G]§ 63.10032(b) § 63.10032(c) § 63.10032(d) § 63.10032(d)(1) § 63.10032(f) § 63.10032(f)(1) § 63.10032(g) § 63.10032(h) § 63.10032(i) § 63.10033(a) § 63.10033(b) § 63.10033(c)	§ 63.10000(d)(3) § 63.10005(k) § 63.10021(f) § 63.10021(g) § 63.10030(a) § 63.10030(b) § 63.10030(d) [G]§ 63.10030(e) § 63.10030(f) § 63.10031(a) § 63.10031(a)(5) § 63.10031(a)-Table 8.10 § 63.10031(a)-Table 8.11 § 63.10031(a)-Table 8.5 § 63.10031(a)-Table 8.7 § 63.10031(a)-Table 8.8 § 63.10031(a)-Table 8.9 [G]§ 63.10031(b) [G]§ 63.10031(c) § 63.10031(d) § 63.10031(e) § 63.10031(f) § 63.10031(f)(1) § 63.10031(f)(4) § 63.10031(f)(5) [G]§ 63.10031(f)(6) § 63.10031(g)

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)
					§ 63.9991(c)(1) § 63.9991(c)(2)		§ 63.10020(a) § 63.10020(b) § 63.10020(c) § 63.10021(a) § 63.10021(b) § 63.10021(b)-Table 7.1		
GRPBOILSTK	EP	R1111-NG	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 CAM Summary	None	None
GRPBOILSTK	EP	R1111-SF	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 CAM Summary	None	None
GRPCOAL	EU	60Y-74	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(2) [G]§ 60.257(a)(3) ** See Periodic Monitoring Summary	None	§ 60.258(c) § 60.258(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)
						April 28, 2008, gases which exhibit 20 percent opacity or greater.			
GRPCOALVENT	EU	60Y-74	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(2) [G]§ 60.257(a)(3) ** See Periodic Monitoring Summary	None	§ 60.258(c) § 60.258(d)
GRPLMSTN	EU	60OOO-83	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(b)-Table 3 § 60.672(b)	The owner or operator must meet a fugitive emission limit of 10 percent opacity for grinding mills, screening operations, bucket elevators, transfer operator points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983 but before April	§ 60.675(a) § 60.675(c)(1) § 60.675(c)(1)(i) § 60.675(c)(1)(ii) § 60.675(c)(3) [G]§ 60.675(e)(1) [G]§ 60.675(e)(2) § 60.675(g) ** See Periodic Monitoring Summary	None	§ 60.675(g) § 60.676(f) § 60.676(h) § 60.676(i) § 60.676(i)(1) § 60.676(k)

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)
						22, 2008.			
GRPLMSTN 08+	EU	60OOO-08	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(b)-Table 3 § 60.672(b)	The owner or operator must meet a fugitive emission limit 7 percent opacity with periodic inspections of water sprays for grinding mills, screening operations, bucket elevators, transfer operator points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction on or after April 22, 2008.	§ 60.675(a) § 60.675(c)(1) § 60.675(c)(1)(i) § 60.675(c)(1)(ii) § 60.675(c)(3) [G]§ 60.675(e)(1) [G]§ 60.675(e)(2) § 60.675(g)	None	§ 60.675(g) § 60.676(f) § 60.676(h) § 60.676(i) § 60.676(i)(1) § 60.676(k)
GRPRCOAL	EU	60Y-08	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(b)(1) § 60.254(b) § 60.255(c) § 60.257(a)	Except as provided in paragraph (b)(3) of this section, an owner or operator of any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified after April 28, 2008 must not cause to be discharged into the atmosphere from the affected facility any gases which exhibit 10 percent opacity or greater.	§ 60.255(b) [G]§ 60.255(b)(2) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(2) [G]§ 60.257(a)(3)	§ 60.258(a) § 60.258(a)(1) § 60.258(a)(2) § 60.258(a)(3) § 60.258(a)(4)	§ 60.258(b) § 60.258(b)(3) § 60.258(c) § 60.258(d)

Additional Monitoring Requirements

CAM Summary

Unit/Group/Process Information	
ID No.: GRPBOILERS	
Control Device ID No.: OG-BH1A	Control Device Type: Fabric filter
Control Device ID No.: OG-BH1B	Control Device Type: Fabric filter
Control Device ID No.: OG-BH2A	Control Device Type: Fabric filter
Control Device ID No.: OG-BH2B	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1111
Pollutant: PM	Main Standard: § 111.153(b)
Monitoring Information	
Indicator: PM (filterable)	
Minimum Frequency: Four times per hour	
Averaging Period: 2-hour block	
Deviation Limit: Maximum emission rate = 0.10 lb/MMBtu PM, 2-hour block average	
CAM Text: The particulate matter (PM) continuous emissions monitoring system (CEMS) shall meet the requirements specified in 40 CFR §§60.13, 60.49Da(v), and 40 CFR Part 60, Appendix B, Performance Specification 11 (PS-11). The PM CEMS shall take a value at least once per minute. The one minute values will then be averaged and recorded for each one-hour block, and a two-hour block average will be calculated and recorded using one-hour block averages. The two-hour block will start at the beginning of each clock hour of the day and end at the second clock hour (i.e. 0000-0200, 0200-0400, etc.). A valid two-hour block shall consist of at least 108 valid one-minute readings that the boiler is in operation. Monitoring data shall not be included in the two-hour block average during periods of monitoring malfunctions, associated repairs, and required quality assurance or control activities as specified in 40 CFR §64.7(c). For each valid two-hour block, if the PM emission rate exceeds 0.10 lb/MMBtu averaged over the two-hour block period, it shall be considered and reported as a deviation.	

CAM Summary

Unit/Group/Process Information	
ID No.: GRPBOILERS	
Control Device ID No.: OG-WFGD1	Control Device Type: Wet scrubber
Control Device ID No.: OG-WFGD2	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R112
Pollutant: SO_2	Main Standard: § 112.8(a)
Monitoring Information	
Indicator: SO2 emission rate	
Minimum Frequency: Four times per hour	
Averaging Period: 3-hour block	
Deviation Limit: Maximum SO2 emission rate = 3.0 lb/MMBtu heat input, averaged over a 3-hour period.	
CAM Text: The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the performance specifications of 40 CFR Part 60, Appendix B.	

CAM Summary

Unit/Group/Process Information	
ID No.: GRPBOILSTK	
Control Device ID No.: OG-BH1A	Control Device Type: Fabric filter
Control Device ID No.: OG-BH1B	Control Device Type: Fabric filter
Control Device ID No.: OG-BH2A	Control Device Type: Fabric filter
Control Device ID No.: OG-BH2B	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-NG
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once daily	
Averaging Period: Six minutes	
Deviation Limit: Maximum opacity = 15%	
CAM Text: Opacity shall be monitored by a certified observer for at least one six-minute period each day, in accordance with 40 CFR Part 60, Appendix A, Test Method 9. Opacity monitoring is not required any day the unit is not operated. If tl1e observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. Any opacity readings above the deviation limit shall be reported as a deviation.	

CAM Summary

Unit/Group/Process Information	
ID No.: GRPBOILSTK	
Control Device ID No.: OG-BH1A	Control Device Type: Fabric filter
Control Device ID No.: OG-BH1B	Control Device Type: Fabric filter
Control Device ID No.: OG-BH2A	Control Device Type: Fabric filter
Control Device ID No.: OG-BH2B	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-SF
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once daily	
Averaging Period: Six minutes	
Deviation Limit: Maximum opacity = 15%	
CAM Text: Opacity shall be monitored by a certified observer for at least one six-minute period each day, in accordance with 40 CFR Part 60, Appendix A, Test Method 9. Opacity monitoring is not required any day the unit is not operated. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. Any opacity readings above the deviation limit shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: F-OGLT29	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60OOO-08
Pollutant: PM (Opacity)	Main Standard: § 60.672(e)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six minutes	
Deviation Limit: Maximum opacity = 7%	
Periodic Monitoring Text: Once each calendar month during which the affected facility operates at any time, opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: F-OGLT36A	
Control Device ID No.: C-LS1BH	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60OOO-83
Pollutant: PM (Opacity)	Main Standard: § 60.672(f)-Table 2
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six minutes	
Deviation Limit: Maximum opacity = 7%	
Periodic Monitoring Text: Once each calendar month during which the affected facility operates at any time, opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: F-OGLT36B	
Control Device ID No.: C-LS2BH	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60OOO-83
Pollutant: PM (Opacity)	Main Standard: § 60.672(f)-Table 2
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six minutes	
Deviation Limit: Maximum opacity = 7%	
Periodic Monitoring Text: Once each calendar month during which the affected facility operates at any time, opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPCOAL	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y-74
Pollutant: PM (Opacity)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six minutes	
Deviation Limit: Maximum opacity = 20%	
Periodic Monitoring Text: Once each calendar month during which the affected facility operates at any time, opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPCOALVENT	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y-74
Pollutant: PM (Opacity)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six minutes	
Deviation Limit: Maximum opacity = 20%	
Periodic Monitoring Text: Once each calendar month during which the affected facility operates at any time, opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPLMSTN	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60OOO-83
Pollutant: PM (Opacity)	Main Standard: § 60.672(b)-Table 3
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six minutes	
Deviation Limit: Maximum opacity = 10%	
Periodic Monitoring Text: Once each calendar month during which the affected facility operates at any time, opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.	

New Source Review Authorization References

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX1056	Issuance Date: 09/30/2022
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 76474	Issuance Date: 09/30/2022
Authorization No.: 96244	Issuance Date: 05/13/2020
Authorization No.: 98444	Issuance Date: 11/06/2020
Authorization No.: 144003	Issuance Date: 10/11/2019
Authorization No.: 169635	Issuance Date: 06/06/2023
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.144	Version No./Date: 09/04/2000
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.412	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.532	Version No./Date: 09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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**
E-ABAHT	AUXILIARY BOILER AMMONIUM HYDROXIDE TANK	106.371/09/04/2000
E-ACADT	ASH CONTRACTOR AREA DIESEL TANK	106.472/09/04/2000
E-ACAGT	ASH CONTRACTOR AREA GASOLINE TANK	106.412/09/04/2000
E-ACAHOT	ASH CONTRACTOR AREA HYDRAULIC OIL TANK	106.472/09/04/2000
E-ACALOT	ASH CONTRACTOR AREA LUBE OIL	106.472/09/04/2000
E-ACAUOTA	ASH CONTRACTOR AREA USED OIL TANK A	106.472/09/04/2000
E-ACAUOTB	ASH CONTRACTOR AREA USED OIL TANK B	106.472/09/04/2000
E-CDLOST	CLEAN & DIRTY LUBE OIL STORAGE TANK	106.472/09/04/2000
E-DBAT	DIBASIC ACID TANK	106.472/09/04/2000
E-ISSHST	INTAKE STRUCTURE SODIUM HYPOCHLORITE STORAGE TANK	106.371/09/04/2000
E-LDSDPT	LAKE DUST SUPPRESSION DIESEL PUMP TANK	106.472/09/04/2000
E-MFAGT1	MAIN FUEL AREA GASOLINE TANK #1	106.412/09/04/2000
E-MFAGT2	MAIN FUEL AREA GASOLINE TANK #2	106.412/09/04/2000
E-MMFDST	MOBILE MAINTENANCE FACILITY DIESEL STORAGE TANK #1	106.472/09/04/2000
E-NAOCLT	SODIUM HYPOCHLORITE TANK	106.371/09/04/2000
E-OGABEDGT	ADMIN BLDG EMER DIESEL GENERATOR TANK	106.472/09/04/2000
E-OGCFAST	COAL FLOW AID STORAGE TANK	106.472/09/04/2000
E-OGCHBFV	CRUSHER HOUSE VENT	76474, PSDTX1056
E-OGCMSS	OAK GROVE CONTINGENCY MERCURY SORBENT SYSTEM	106.262/11/01/2003 [140895]
E-OGDFEGT	EMERGENCY GENERATOR DIESEL STORAGE TANK	106.472/09/04/2000
E-OGDST	DIESEL STORAGE TANK	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. 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**
E-OGFPT	FIRE PUMP DIESEL STORAGE TANK	106.472/09/04/2000
E-OGKST	KEROSENE STORAGE TANK	106.472/09/04/2000
E-OGLSILO	LIGNITE STORAGE SILO VENT	76474, PSDTX1056
E-OGSBTTBV	SURGE BIN TRANSFER TOWER VENT	76474, PSDTX1056
E-OGSRBF	SURFACE RECLAIM BREAKER	76474, PSDTX1056
E-OGSRCF	SURFACE RECLAIM CONVEYOR	76474, PSDTX1056
E-OGSRFF	SURFACE RECLAIM FEEDER	76474, PSDTX1056
E-OGTAB1	AUXILIARY BOILER 1	169635
E-OGTAB2	AUXILIARY BOILER 2	169635
E-OGTAB3	AUXILIARY BOILER 3	169635
E-OGTAB4	AUXILIARY BOILER 4	169635
E-OGTGDGT	TAINTER GATE DIESEL STORAGE TANK	106.472/09/04/2000
E-OGU1	UNIT 1 STACK	76474, 96244, 98444, 144003, PSDTX1056
E-OGU1NSV	UNIT 1 NORTH SIDE TRIPPER HOUSE VENT	76474, PSDTX1056
E-OGU1SSV	UNIT 1 SOUTH SIDE TRIPPER HOUSE VENT	76474, PSDTX1056
E-OGU2	UNIT 2 STACK	76474, 96244, 98444, 144003, PSDTX1056
E-OGU2NSV	UNIT 2 NORTH SIDE TRIPPER HOUSE VENT	76474, PSDTX1056
E-OGU2SSV	UNIT 2 SOUTH SIDE TRIPPER HOUSE VENT	76474, PSDTX1056
E-OWSST	OIL/WATER SEPARATOR UNDERGROUND USED OIL STORAGE T	106.472/09/04/2000
E-TLOST	CLEAN & DIRTY LUBE OIL STORAGE TANK	106.472/09/04/2000
E-U1AAST	UNIT 1 AQUEOUS AMMONIA STORAGE TANK	106.371/09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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**
E-U1BFWPA	UNIT 1 BFW PUMP A LUBE OIL STORAGE TANK	106.473/09/04/2000
E-U1BFWPB	UNIT 1 BFW PUMP B LUBE OIL STORAGE TANK	106.473/09/04/2000
E-U1MTLOR	UNIT 1 MAIN TURBINE LUBE OIL RESERVOIR	106.473/09/04/2000
E-U2AAST	UNIT 2 AQUEOUS AMMONIA STORAGE TANK	106.371/09/04/2000
E-U2BFWPA	UNIT 2 BFW PUMP A LUBE OIL STORAGE TANK	106.473/09/04/2000
E-U2BFWPB	UNIT 2 BFW PUMP B LUBE OIL STORAGE TANK	106.473/09/04/2000
E-U2MTLOR	UNIT 2 MAIN TURBINE LUBE OIL RESERVOIR	106.473/09/04/2000
F-OGAB	AUXILIARY BOILER	76474, PSDTX1056
F-OGABEDG	ADMIN BLDG DIESEL-FIRED EMERGENCY GENERATOR	106.511/09/04/2000
F-OGCFT10	CONVEYOR 2B	76474, PSDTX1056
F-OGCFT11	WEST RING GRANULATOR (CRUSHER)	76474, PSDTX1056
F-OGCFT12	EAST RING GRANULATOR (CRUSHER)	76474, PSDTX1056
F-OGCFT17	CONVEYOR 3A	76474, PSDTX1056
F-OGCFT18	CONVEYOR 3B	76474, PSDTX1056
F-OGCFT19	SURGE BIN TRANSFER TOWER	76474, PSDTX1056
F-OGCFT20	SURGE BIN TRANSFER TOWER	76474, PSDTX1056
F-OGCFT21	SURGE BIN TRANSFER TOWER	76474, PSDTX1056
F-OGCFT22	SURGE BIN TRANSFER TOWER	76474, PSDTX1056
F-OGCFT23	CONVEYOR 4A	76474, PSDTX1056
F-OGCFT24	CONVEYOR 5A	76474, PSDTX1056
F-OGCFT25	CONVEYOR 7A	76474, PSDTX1056

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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**
F-OGCFT26	CONVEYOR 6A	76474, PSDTX1056
F-OGCFT9	CONVEYOR 2A	76474, PSDTX1056
F-OGCLC	CONTINGENCY LIMESTONE CONVEYOR	106.261/11/01/2003 [113910]
F-OGCLH	CONTINGENCY LIMESTONE HOPPER	106.261/11/01/2003 [113910]
F-OGCLSP	CONTINGENCY LIMESTONE STOCKPILE	106.261/11/01/2003 [113910]
F-OGDFEG	DIESEL-FIRED EMERGENCY GENERATOR	106.511/09/04/2000
F-OGFP	DIESEL-FIRED EMERGENCY FIREWATER PUMP	106.511/09/04/2000
F-OGLDL	LOCAL LANDFILL-USABLE GYPSUM RECLAIM TRUCK LOADING	76474, PSDTX1056, 106.262/11/01/2003 [142258]
F-OGLH	LIMESTONE HOPPER	106.261/11/01/2003 [171721]
F-OGLSILO	LIGNITE STORAGE SILO	76474, PSDTX1056
F-OGLSPR2	TRANSFER FROM DC CONVEYOR TO CONVEYOR LS1	76474, PSDTX1056, 106.264/09/04/2000
F-OGLT1	LIGNITE RAILCAR UNLOADING	76474, PSDTX1056
F-OGLT29	LIMESTONE STORAGE SHED	76474, PSDTX1056
F-OGLT2A	UNLOADING HOPPERS	76474, PSDTX1056
F-OGLT2B	UNLOADING HOPPERS BELT FEEDERS	76474, PSDTX1056
F-OGLT36A	LIMESTONE SILO 1	76474, PSDTX1056
F-OGLT36B	LIMESTONE SILO 2	76474, PSDTX1056
F-OGLT36C	TRANSFER FROM CONVEYOR LS1 TO CONVEYOR LS2	76474, PSDTX1056
F-OGRDL	REMOTE LANDFILL-USABLE GYPSUM RECLAIM TRUCKLOADING	76474, PSDTX1056, 106.262/11/01/2003 [142258]
F-OGSSPRA	SILO & STACKOUT PILE RECLAIM	76474, PSDTX1056
F-OGSSPRB	SILO & STACKOUT PILE RECLAIM BELT FEEDERS	76474, PSDTX1056

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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**
F-OGTGDG	TAINTER GATE DIESEL-FIRED GENERATOR	106.511/09/04/2000
F-OGU1	UNIT 1 BOILER	76474, 96244, 98444, 144003, PSDTX1056
F-OGU1NSA	CONVEYOR 5B	76474, PSDTX1056
F-OGU1NSB	CONVEYOR 5C	76474, PSDTX1056
F-OGU1SSA	CONVEYOR 4B	76474, PSDTX1056
F-OGU1SSB	CONVEYOR 4C	76474, PSDTX1056
F-OGU2	UNIT 2 BOILER	76474, PSDTX1056
F-OGU2NSA	CONVEYOR 7B	76474, PSDTX1056
F-OGU2NSB	CONVEYOR 7C	76474, PSDTX1056
F-OGU2SSA	CONVEYOR 6B	76474, PSDTX1056
F-OGU2SSB	CONVEYOR 6C	76474, PSDTX1056
F-OWS	OIL/WATER SEPARATOR	106.532/09/04/2000
F-RRDU	REMOTE RESERVOIR DEGREASING UNIT	106.454/11/01/2001
OG-CMSC1	COAL MOISTURE SORBENT CONVEYOR 1	106.262/11/01/2003 [151771]
OG-CMSC2F	COAL MOISTURE SORBENT CONVEYOR 2	106.262/11/01/2003 [151771]
OG-CMSS	COAL MOISTURE SORBENT SILO VENT	106.262/11/01/2003 [151771]
OG-CSM	CONTINGENCY SLURRY MIXER	106.261/11/01/2003 [113077], 106.262/11/01/2003 [113077]
OG-CSMS	CONTINGENCY SLURRY MATERIAL SILO	106.144/09/04/2000 [113077]
OG-RM1	SITEWIDE ROUTINE MAINTENANCE	106.263/11/01/2001
OG-TCMSB	TEMPORARY COAL MOISTURE SORBENT BIN	106.262/11/01/2003 [151771]

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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**
OG-WA	WELDING AREA	106.227/09/04/2000

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

Alternative Requirement

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NC 27711

APR 1 2015

OFFICE OF
AIR QUALITY PLANNING
AND STANDARDS

Ms. Kimberly Mireles
Vice President
Environmental Services
Luminant
1601 Bryan Street
Dallas, Texas 75201

Dear Ms. Mireles:

In your letter of January 15, 2015, to Mr. Jason DeWees, you request the use of an alternative test method on Units 1 and 2 of your facility, Oak Grove Steam Electric Station (Oak Grove), located near Franklin, Texas. You identify in your request that Units 1 and 2 at Oak Grove are subject to (1) 40 CFR part 60, Subpart Da (Subpart Da); (2) a Title V Permit limit of 0.015 lb/MMBtu averaged over 3 hours for particulate matter (PM) emissions; and (3) 40 CFR part 63, Subpart UUUUU, or the Mercury Air Toxics Standards (MATS). You also state that Oak Grove wants to use the particulate matter continuous emissions monitoring systems (PM CEMSs) currently used to demonstrate compliance with the PM requirement found in the facility's Title V permit, to demonstrate compliance with the PM requirements of the MATS.

Currently, Oak Grove's Title V operating permit for Units 1 and 2 requires that a PM CEMS be used to demonstrate compliance with the Title V permit limit of 0.015 lb/MMBtu averaged over 3 hours for PM, as well as the PM limit found in Subpart Da (0.030 lb.MMBtu 24-hour daily (block) average). Moreover, the certification testing of the PM CEMS, using Performance Specification 11 (PS-11), must be conducted using either Method 5B or Method 17 (40 CFR part 60, Appendix A). Additionally, a PM CEMS is one of the compliance options allowed by MATS, but MATS requires that PM CEMS be certified using Method 5 (40 CFR part 60, Appendix A) with a filter temperature of 320±25°F (MATS M5). Your letter states that the certification testing of the PM CEMS for compliance with the Title V permit limit and Subpart Da as specified by PS-11 was performed using Method 5B (M5B) with a filter temperature of 320±25°F. The only apparent difference between the M5B testing conducted at Oak Grove and the MATS M5 testing required for MATS compliance are the M5B sample filter tare weight procedures include heating the filters up to 320°F(±10°F) for 2 to 3 hours prior to weighing and the recovery procedures include baking the sample filters again at 320°F(±10°F) for 6 hours. MATS M5 has no such procedures for heating or baking of filters prior to getting tare or final filter weights. Given the similarity of M5B and MATS M5, you ask that M5B along with the previous M5B results, be used to certify the PM CEMS for MATS.

In this situation, M5B is not expected to provide the most conservative emission measurement value as compared to MATS M5; as a result, typically we require extensive additional data demonstrating that M5B is a suitable alternative to MATS M5 prior to providing our approval. However, considering that the numerical emission limit for PM specified by the Title V permit is one-half the MATS numerical emission limit for PM, and that the data from the PM CEMS certification test reports, as well as the emissions data you provided, show the emissions from the facility are well below the Title V permit limit for PM (and, therefore, well below the MATS PM limit), we are approving your request to use M5B as an alternative to MATS M5 on Oak Grove Units 1 and 2 with the following limitations:

- In order to have data directly comparing M5B to MATS M5 as applied at Oak Grove, you must perform three additional test runs using MATS M5 during the next scheduled PS-11 certification testing for the PM CEMS installed on Units 1 and 2. These three additional MATS M5 runs are to be conducted concurrently with three of the required M5B runs. Please submit the data from these three concurrent MATS M5 test runs, along with a copy of the required certification report, including the correlation testing performed using M5B, to Kim Garnett of my staff.

- The Title V Permit emission limit for PM of 0.015 lb/MMBtu averaged over 3 hours must continue to be applicable and Oak Grove must not exceed this numerical limit when calculated as a 30-day rolling average. Should either of these limitations not be met, this approval is no longer valid and Oak Grove must notify this office and re-certify the PM CEMS on Units 1 and 2 using MATS M5 as required by the MATS within 90 days.

If you have any questions regarding this determination, please contact Kim Garnett at 919-541-1158 (garnett.kim@epa.gov).

Sincerely,

Barrett H. Parker
Acting Group Leader
Measurement Technology Group

cc: Robin Segall, EPA/OAQPS/AQAD (segall.robin@epa.gov)
Kim Garnett, EPA/OAQPS/AQAD (garnett.kim@epa.gov)
Jason Neumann, TCEQ Region 9 (jason.neumann@tceq.texas.gov)
Steve Thompson, EPA/Region 6 (thompson.steve@epa.gov)

Appendix A

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_2S ..... hydrogen sulfide
ID No. ..... identification number
lb/hr ..... pound(s) per hour
MACT ..... Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr ..... Million British thermal units per hour
NA ..... nonattainment
N/A ..... not applicable
NADB ..... National Allowance Data Base
NESHAP ..... National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standard (40 CFR Part 60)
NSR ..... New Source Review
ORIS ..... Office of Regulatory Information Systems
Pb ..... lead
PBR ..... Permit By Rule
PEMS ..... predictive emissions monitoring system
PM ..... particulate matter
ppmv ..... parts per million by volume
PRO ..... process unit
PSD ..... prevention of significant deterioration
psia ..... pounds per square inch absolute
SIP ..... state implementation plan
SO_2 ..... sulfur dioxide
TCEQ ..... Texas Commission on Environmental Quality
TSP ..... total suspended particulate
TVP ..... true vapor pressure
U.S.C. ..... United States Code
VOC ..... volatile organic compound

Appendix B

Major NSR Summary Table

Permit Numbers: 76474 and PSDTX1056					Issuance Date: September 30, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
E-OGU1	Pulverized Coal (Lignite) Boiler 8,970 MMBtu/hr	NO_x	1,800	3,143	3, 8, 19, 20, 32, 33, 34, 35, 36, 37, 39, 40, 41	3, 16, 19, 20, 32, 33, 34, 35, 36, 37, 39, 40, 41, 44, 45	3, 33, 34, 35, 46, 49
		SO_2	5,382	7,534			
		PM (filter) (5)	135	589			
		PM_{10} (filter) (5)	135	589			
		$PM_{2.5}$ (filter) (5)	135	589			
		PM (total) (5,10)	449	1,572			
		PM_{10} (total) (5,10)	449	1,572			
		$PM_{2.5}$ (total) (5,10)	449	1,572			
		CO	6,100	13,358			
		VOC (11)	47	176			
		H_2SO_4 (12)	165	481			
		NH_3	55	96			
		HF (12)	64	140			
		HCl (12)	110	241			
		Pb (5,13)	0.26	0.38			

Major NSR Summary Table

Permit Numbers: 76474 and PSDTX1056					Issuance Date: September 30, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		Hg	0.93	0.36			

Major NSR Summary Table

Permit Numbers: 76474 and PSDTX1056					Issuance Date: September 30, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
E-OGU2	Pulverized Coal (Lignite) Boiler 8,970 MMBtu/hr	NO_x	1,800	3,143	3, 8, 19, 20, 32, 33, 34, 35, 36, 37, 39, 40, 41	3, 19, 20, 16, 32, 33, 34, 35, 36, 37, 39, 40, 41, 44, 45	3, 33, 34, 35, 46, 49
		SO_2	5,382	7,534			
		PM (filter) (5)	135	589			
		PM_{10} (filter) (5)	135	589			
		$PM_{2.5}$ (filter) (5)	135	589			
		PM (total) (5,10)	449	1,572			
		PM_{10} (total) (5,10)	449	1,572			
		$PM_{2.5}$ (total) (5,10)	449	1,572			
		CO	6,100	13,358			
		VOC (11)	47	176			
		H_2SO_4 (12)	165	481			
		NH_3	55	96			
		HF (12)	64	140			
		HCl (12)	110	241			
		Pb (5,13)	0.26	0.38			

Major NSR Summary Table

Permit Numbers: 76474 and PSDTX1056					Issuance Date: September 30, 2022		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (14)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		Hg	0.93	0.36			
E-OGAB	Natural Gas-Fired Auxiliary Boiler (365 MMBtu/hr) (Phase 2 - 10 percent Annual Capacity Factor)	NO_x (6)	13.1	5.8	4, 14, 32, 33, 42	4, 14, 32, 33, 42, 44, 45	4, 33
		NO_x (7)	36.5	--			
		CO (6)	13.5	5.9			
		CO (7)	135.0	--			
		SO_2	5.1	2.2			
		PM	2.7	1.2			
		PM_{10}	2.7	1.2			
		$PM_{2.5}$	2.7	1.2			
		VOC	2.0	0.9			

Major NSR Summary Table

Permit Numbers: 76474 and PSDTX1056					Issuance Date: September 30, 2022		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (14)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
E-OGLTHF	Railcar Coal Unloading Building Fugitives (8)	PM	1.34	1.65	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.26	0.31			
		$PM_{2.5}$	0.26	0.31			
E-OGLTHBF	Railcar Coal Unloading - Track Hopper Fugitives (8)	PM	0.01	0.02	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
E-OGLSILO	Lignite Storage Silo Bin Vent Filter	PM	0.01	0.01	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
E-OGSSPRF	Reclaim from Silo and Stackout Pile Fugitives (8)	PM	0.01	0.02	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
E-OGLSPF	Lignite Stackout Pile	PM	0.16	0.21		44	

Major NSR Summary Table

Permit Numbers: 76474 and PSDTX1056					Issuance Date: September 30, 2022		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (14)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
	Fugitives (8)	PM_{10}	0.03	0.04			
		$PM_{2.5}$	0.03	0.04			
E-OGCHBV	Lignite Crusher House Surge Bin Vent Filter	PM	0.01	0.01	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
E-OGCHF	Lignite Crusher House Fugitives (8)	PM	1.20	2.25	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.23	0.43			
		$PM_{2.5}$	0.23	0.43			
E-OGSBTTBV	Surge Bin Transfer Tower Bin Vent Filter	PM	0.01	0.01	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
E-OGSBTTF	Surge Bin Transfer Tower Fugitives (8)	PM	0.01	0.01	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.01	0.01			

Major NSR Summary Table

Permit Numbers: 76474 and PSDTX1056					Issuance Date: September 30, 2022		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (14)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		$PM_{2.5}$	0.01	0.01			
E-OGTT4F	Transfer Tower 4 Fugitives (8)	PM	0.01	0.01	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
E-OGU1SSV	Unit 1 South Side Tripper House Baghouse Vent	PM	0.01	0.01	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
E-OGTT2F	Transfer Tower 2 Fugitives (8)	PM	0.01	0.01	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
E-OGU1NSV	Unit 1 North Side Tripper House Baghouse Vent	PM	0.01	0.01	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			

Major NSR Summary Table

Permit Numbers: 76474 and PSDTX1056					Issuance Date: September 30, 2022		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (14)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
E-OGU2SSV	Unit 2 South Side Tripper House Baghouse Vent	PM	0.01	0.01	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
E-OGTT3F	Transfer Tower 3 Fugitives (8)	PM	0.01	0.01	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
E-OGU2NSV	Unit 2 North Side Tripper House Baghouse Vent	PM	0.01	0.01	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
E-OGLDSPF	Lignite Dead Storage Pile Dust Fugitive (8)	PM	2.28	3.33	5	5, 44, 45	5
		PM_{10}	0.43	0.63			
		$PM_{2.5}$	0.05	0.07			
E-OGLSSF	Limestone Storage	PM	0.11	0.16	6, 32, 33, 43	6, 32, 33, 43, 44, 45	6, 33

Major NSR Summary Table

Permit Numbers: 76474 and PSDTX1056					Issuance Date: September 30, 2022		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (14)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
	Shed Fugitives (8)	PM_{10}	0.05	0.08			
		$PM_{2.5}$	0.05	0.08			
E-OGSLSAF	Secondary Limestone Storage Pile Dust Fugitives (8)	PM	1.49	2.17		44	
		PM_{10}	0.75	1.09			
		$PM_{2.5}$	0.75	1.09			
E-OGLSPRF	Limestone Storage Reclaim Belt Fugitives (8)	PM	0.02	0.01			
		PM_{10}	0.01	0.01	6, 32, 33, 43	6, 32, 33, 43, 44, 45	6, 33
		$PM_{2.5}$	0.01	0.01			
E-OGLSSB1V	Limestone Storage Silo 1 Bin Vent Filter	PM	0.01	0.01			
		PM_{10}	0.01	0.01	6, 32, 33, 43	6, 32, 33, 43, 44, 45	6, 33
		$PM_{2.5}$	0.01	0.01			
E-OGLSSB2V	Limestone Storage Silo 2 Bin Vent Filter	PM	0.01	0.01			
		PM_{10}	0.01	0.01	6, 32, 33, 43	6, 32, 33, 43, 44, 45	6, 33

Major NSR Summary Table

Permit Numbers: 76474 and PSDTX1056					Issuance Date: September 30, 2022		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (14)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		$PM_{2.5}$	0.01	0.01			
E-OGLSSB3F	Limestone Storage Conveyor Transfer Fugitives (8)	PM	0.01	0.01	6, 32, 33, 43	6, 32, 33, 43, 44, 45	6, 33
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
E-OGSSSV	Sorbent Storage Silo Baghouse Vent	PM	0.06	0.24	32, 43	43, 32, 44, 45	
		PM_{10}	0.06	0.24			
		$PM_{2.5}$	0.06	0.24			
E-OGVS1V1	Unit 1 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89	32, 43	43, 32, 44, 45	
		PM_{10}	0.07	0.31			
		$PM_{2.5}$	0.07	0.31			
E-OGVS1V2	Unit 1 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89	32, 43	43, 32, 44, 45	
		PM_{10}	0.07	0.31			
		$PM_{2.5}$	0.07	0.31			

Major NSR Summary Table

Permit Numbers: 76474 and PSDTX1056					Issuance Date: September 30, 2022		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (14)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
E-OGVS1V3	Unit 1 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89	32, 43	43, 32, 44, 45	
		PM_{10}	0.07	0.31			
		$PM_{2.5}$	0.07	0.31			
E-OGFAS1V1	Fly Ash Silo 1 Bin Vent Filter	PM	0.99	1.80	43	43, 44, 45	
		PM_{10}	0.36	0.63			
		$PM_{2.5}$	0.36	0.63			
E-OGSLS1V	Fly Ash Silo 1 Loading Spout Baghouse Vent	PM	0.03	0.11	32, 43	43, 32, 44, 45	
		PM_{10}	0.03	0.11			
		$PM_{2.5}$	0.03	0.11			
E-OGWFAU1F	Fly Ash Silo 1 Loading Dust Fugitive (8)	PM	0.03	0.06		44	
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
E-OGVS2V1	Unit 2 Fly Ash Filter	PM	0.20	0.89	32, 43	43, 32, 44, 45	

Major NSR Summary Table

Permit Numbers: 76474 and PSDTX1056					Issuance Date: September 30, 2022		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (14)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
	Separators Baghouse Vent	PM_{10}	0.07	0.31			
		$PM_{2.5}$	0.07	0.31			
E-OGVS2V2	Unit 2 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89	32, 43	43, 32, 44, 45	
		PM_{10}	0.07	0.31			
		$PM_{2.5}$	0.07	0.31			
E-OGVS2V3	Unit 2 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89	32, 43	43, 32, 44, 45	
		PM_{10}	0.07	0.31			
		$PM_{2.5}$	0.07	0.31			
E-OGLDLF E-OGRDLF	Landfill Areas - Active Working Faces - Dust Fugitive (8)	PM	0.26	1.16		44	
		PM_{10}	0.14	0.58			
		$PM_{2.5}$	0.14	0.58			
E-OGLDLF E-OGRDLF	Landfill Areas - Inactive Working Faces - Dust Fugitive (8)	PM	0.08	0.32		44	
		PM_{10}	0.04	0.16			

Major NSR Summary Table

Permit Numbers: 76474 and PSDTX1056					Issuance Date: September 30, 2022		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (14)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		$PM_{2.5}$	0.04	0.16			
E-OGGHSF	Gypsum Handling System Dust Fugitive (8)	PM	0.01	0.01	43	43, 44	
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
E-OGAMM	Ammonia Fugitive (8)	NH_3	0.04	0.19	21, 22	21, 22, 44, 45	
MSS-FUG	MSS-FUG (9)	PM	1.48	0.49	19, 20	19, 20, 44, 45	
		PM_{10}	0.95	0.29			
		$PM_{2.5}$	0.37	0.10			
		NH_3	10.33	0.15			
		VOC	21.08	0.14			
		NO_x	<0.01	<0.01			
		CO	<0.01	<0.01			
		SO_2	<0.01	<0.01			

Major NSR Summary Table

Permit Numbers: 76474 and PSDTX1056					Issuance Date: September 30, 2022		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
E-OGSRFF	Surface Reclaim Feeder Fugitives (8)	PM	0.29	0.66	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.06	0.12			
		$PM_{2.5}$	0.01	0.01			
E-OGSRBF	Surface Reclaim Breaker Fugitives (8)	PM	1.50	3.36	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.29	0.64			
		$PM_{2.5}$	0.03	0.07			
E-OGSRCF	Surface Reclaim Conveyor Fugitives (8)	PM	0.29	0.66	5, 32, 33, 43	5, 32, 33, 43, 44, 45	5, 33
		PM_{10}	0.06	0.12			
		$PM_{2.5}$	0.01	0.01			

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC -volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x -total oxides of nitrogen
SO_2 -sulfur dioxide
PM -particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
PM_{10} -particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$
$PM_{2.5}$ -direct particulate matter equal to or less than 2.5 microns in diameter
CO -carbon monoxide

H_2SO_4 -sulfuric acid mist
NH_3 -ammonia
HF -hydrogen fluoride
HCl -hydrogen chloride
Pb -lead
Hg -mercury

(4) Except as otherwise specified in special conditions, annual emission rates are based on continuous operation (24 hours/day, 7 days/week, 52 weeks/year, or 8,760 hours/year). For combustion sources and storage tanks, compliance with annual emission limits is based on a rolling 12-month period. For material handling sources, compliance with annual emission limits is based on applicable special conditions and permit application representations.
(5) Compliance with the hourly emission limit is based on a three-hour block average of the CEMS data.
(6) Hourly limit applies when auxiliary boiler is operating at or above 25 percent load.
(7) Hourly limit applies when auxiliary boiler is operating below 25 percent load and during startup and shutdown.
(8) Fugitive emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
(9) Includes inherently low emitting (ILE) and non-ILE fugitive emissions from sources and activities listed on Attachments B and C. Emission rates are an estimate and are enforceable through compliance with the applicable special conditions and permit application representations.
(10) Compliance with the PM/PM_{10} (total) emission limits will be demonstrated if CEMS data shows that neither SO_2 emissions nor filterable PM emissions exceed their limits.
(11) Compliance with the VOC emission limits will be demonstrated if CEMS data shows that CO emissions do not exceed their limits.
(12) Compliance with the H_2SO_4, HF, and HCl emission limits will be demonstrated if CEMS data shows that SO_2 emissions do not exceed their limits,
(13) Compliance with the lead emission limits will be demonstrated if CEMS data shows that filterable PM emissions do not exceed their limits.
(14) The pounds per hour and tons per year emission rate limits for these units apply to MSS operation, as well as normal operation of the unit, except as otherwise stated in these footnotes.

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
Oak Grove Management Company LLC
Authorizing the Construction and Operation of
Oak Grove Steam Electric Station
Located at **Franklin, Robertson County, Texas**
Latitude 31° 10′ 55″ Longitude −96° 29′ 16″

Permit: 76474
Revision Date: September 30, 2022
Expiration Date: September 7, 2027

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

[1] Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius
°F = Temperature in degrees Fahrenheit
°K = Temperature in degrees Kelvin
µg = microgram
$\mu g/m^3$ = microgram per cubic meter
acfm = actual cubic feet per minute
AMOC = alternate means of control
AOS = alternative operating scenario
AP-42 = Air Pollutant Emission Factors, 5th edition
APD = Air Permits Division
API = American Petroleum Institute
APWL = air pollutant watch list
BPA = Beaumont/ Port Arthur
BACT = best available control technology
BAE = baseline actual emissions
bbl = barrel
bbl/day = barrel per day
bhp = brake horsepower
BMP = best management practices
Btu = British thermal unit
Btu/scf = British thermal unit per standard cubic foot or feet
CAA = Clean Air Act
CAM = compliance-assurance monitoring
CEMS = continuous emissions monitoring systems
cfm = cubic feet (per) minute
CFR = Code of Federal Regulations
CN = customer ID number
CNG = compressed natural gas
CO = carbon monoxide
COMS = continuous opacity monitoring system
CPMS = continuous parametric monitoring system
DFW = Dallas/ Fort Worth (Metroplex)
DE = destruction efficiency
DRE = destruction and removal efficiency
dscf = dry standard cubic foot or feet
dscfm = dry standard cubic foot or feet per minute
ED = (TCEQ) Executive Director
EF = emissions factor
EFR = external floating roof tank
EGU = electric generating unit
EI = Emissions Inventory
ELP = El Paso
EPA = (United States) Environmental Protection Agency
EPN = emission point number
ESL = effects screening level
ESP = electrostatic precipitator
FCAA = Federal Clean Air Act
FCCU = fluid catalytic cracking unit
FID = flame ionization detector
FIN = facility identification number
ft = foot or feet
ft/sec = foot or feet per second
g = gram
gal/wk = gallon per week
gal/yr = gallon per year
GLC = ground level concentration
GLC_{max} = maximum (predicted) ground-level concentration
gpm = gallon per minute
gr/1000scf = grain per 1000 standard cubic feet
gr/dscf = grain per dry standard cubic feet
H_2CO = formaldehyde
H_2S = hydrogen sulfide
H_2SO_4 = sulfuric acid
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
HC = hydrocarbons
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/Brazoria
hp = horsepower
hr = hour
IFR = internal floating roof tank
in H_2O = inches of water
in Hg = inches of mercury
IR = infrared
ISC3 = Industrial Source Complex, a dispersion model
ISCST3 = Industrial Source Complex Short-Term, a dispersion model
K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
LACT = lease automatic custody transfer
LAER = lowest achievable emission rate
lb = pound
hp = horsepower
hr = hour lb/day = pound per day
lb/hr = pound per hour
lb/MMBtu = pound per million British thermal units
LDAR = Leak Detection and Repair (Requirements)
LNG = liquefied natural gas
LPG = liquefied petroleum gas
LT/D = long ton per day
m = meter
m^3 = cubic meter
m/sec = meters per second
MACT = maximum achievable control technology
MAERT = Maximum Allowable Emission Rate Table
MERA = Modeling and Effects Review Applicability
mg = milligram
mg/g = milligram per gram
mL = milliliter
MMBtu = million British thermal units
MMBtu/hr = million British thermal units per hour
MSDS = material safety data sheet
MSS = maintenance, startup, and shutdown
MW = megawatt
NAAQS = National Ambient Air Quality Standards
NESHAP = National Emission Standards for Hazardous Air Pollutants
NGL = natural gas liquids
NNSR = nonattainment new source review
NO_x = total oxides of nitrogen

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_{10} and $PM_{2.5}$, as represented
$PM_{2.5}$ = particulate matter equal to or less than 2.5 microns in diameter
PM_{10} = total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, 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_2 = 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 76474 and PSDTX1056

Emissions Rates and Permit Representations

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission limits and other conditions specified in that attached table. This permit authorizes planned maintenance, startup and shutdown (MSS) activities which comply with the emission limits in the maximum allowable emission rates table (MAERT) and the opacity limit of Special Condition No. 10.

2. Emission limits are based upon representations in the permit application dated July 27, 2005, as subsequently updated.

Federal Applicability

3. The Pulverized Coal (PC) Boilers [identified as Emission Point Nos. (EPNs:) E-OGU1 and E-OGU2] shall comply with applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations in Title 40 Code of Federal Regulations (40 CFR), including:

   A. Part 60, Standards of Performance for New Stationary Sources, Subpart A, General Conditions, and Subpart Da, Standards of Performance for Electric Utility Steam Generating Units; and

   B. Part 63, National Emission Standards for Hazardous Air Pollutants, Subpart A, General Conditions, and Subpart UUUUU, Coal- and Oil-Fired Electric Utility Steam Generating Units.

4. The Auxiliary Boiler (identified as EPN: E-OGAB) shall comply with the applicable requirements of 40 CFR Part 60, Subparts A and Db, Standards of Performance for Industrial, Commercial, and Institutional Boilers.

5. The lignite processing, storage, and conveying facilities, identified in the following table shall comply with the applicable requirements of 40 CFR Part 60, Subparts A and Y, Standards of Performance for Coal Preparation Plants. **(03/22)**

Lignite Handling Facilities Subject to NSPS Subpart Y

Facility	Facility Identification Number	Emission Points	EPNs
Railcar Unloading Building	F-OGLT1	Fugitive	E-OGLTHF
Track Hoppers	F-OGLT2A F-OGLT2B	Fugitives	E-OGLTHBF
Lignite Silo	F-OGLSILO	Vent (Fabric filter)	E-OGLSILO
Silo and Stackout Pile Reclaim	F-OGSSPRA F-OGSSPRB	Fugitives	E-OGSSPRF
Crusher House Surge Bin	F-OGCFT9 F-OGCFT10	Vent (Fabric Filter)	E-OGCHBV
Crusher House	F-OGCFT11 F-OGCFT12	Fugitives	E-OGCHF

Facility	Facility Identification Number	Emission Points	EPNs
Surge Bin TransferTower - Bin	F-OGCFT17 F-OGCFT18	Vent (Fabric Filter)	E-OGSBTTBV
Surge Bin Transfer Tower -Fugitives	F-OGCFT19 thru 22	Fugitives	E-OGSBTTF
Transfer Tower 4	F-OGCFT23	Fugitives	E-OGTT4F
Unit 1 South Side Tripper House	F-OGU1SSA F-OGU1SSB	Vent (Fabric Filter)	E-OGU1SSV
Transfer Tower 2	F-OGCFT24 F-OGCFT26	Fugitives	E-OGTT2F
Unit 1 North Side Tripper House	F-OGU1NSA F-OGU1NSB	Vent (Fabric Filter)	E-OGU1NSV
Unit 2 South Side Tripper House	F-OGU2SSA F-OGU2SSB	Vent (Fabric Filter)	E-OGU2SSV
Transfer Tower 3	F-OGCFT25	Fugitive	E-OGTT3F
Unit 2 North Side Tripper House	F-OGU2NSA F-OGU2NSB	Vent (Fabric Filter)	E-OGU2NSV
Lignite Dead Storage Pile	F-OGLDSP	Fugitives	E-OGLDSPF
Surface Reclaim Feeder	F-OGSRF	Fugitives	E-OGSRFF
Surface Reclaim Breaker	F-OBSRB	Fugitives	E-OGSRBF
Surface Reclaim Conveyor	F-OGSRC	Fugitives	E-OGSRCF

6. The limestone processing, storage, and conveying facilities identified in the following table, shall comply with the applicable requirements of 40 CFR Part 60, Subparts A and OOO, Standards of Performance for Non-Metallic Mineral Processing Plants.

Limestone Processing Facilities Subject to NSPS Subpart OOO

Facility	Facility Identification Number	Emission Points	EPNs
Limestone Storage Shed	F-OGLT29	Doors (2)	E-OGLSSF
Limestone Storage Reclaim Belts	F-OGLSPR	Fugitive	E-OGLSPRF
Limestone Prep Area Storage Silos	F-OGLT36a F-OGLT36b	Vents (2) (Fabric Filter)	E-OGLSSB1V E-OGLSSB2V
Limestone Storage Conveyor	F-OGLT36c	Fugitive	E-OGLSSB3F

7. If any condition of this permit is more stringent than the regulations identified in Special Conditions Nos. 3 through 6, then for the purposes of complying with this permit, the permit shall govern and be the standard by which compliance shall be demonstrated.

Fuel Specifications, Operating Limitations, Performance Standards, and Construction Specifications

8. Fuel fired in the PC Boilers (EPNs: E-OGU1 and E-OGU2) shall be limited to:

   A. Texas lignite with:

      (1) Sulfur content not to exceed a 12-month rolling average of 2.0 pounds per million British thermal units (lb/MMBtu) of heat input and with the heat input based on fuel higher heating value (HHV); and

      (2) Trace metal concentrations not to exceed, on a 12-month rolling average basis, the concentration limitations identified in Attachment A of this permit.

   B. Pipeline-quality natural gas.

   C. Use of any other fuel will require prior approval from the permitting authority.

   D. Upon request by the Executive Director of the Texas Commission on Environmental Quality (TCEQ) or any air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuel fired in the PC Boiler, or shall allow air pollution control agency representatives to obtain a sample for analysis.

9. Each PC Boiler (EPNs: E-OGU1 and E-OGU2) shall be limited to a maximum heat input of 8,970 MMBtu/hr, averaged over a calendar month, based on the HHV of the fuel fired.

10. Opacity of emissions from EPNs: E-OGU1 and E-OGU2 must not exceed 10 percent, averaged over a six-minute period, except for those periods described in Title 30 Texas Administrative Code § 111.111(a)(1)(E) [30 TAC § 111.111(a)(1)(E)], 40 CFR § 60.11(c), or as otherwise allowed by law. The permit holder shall demonstrate compliance with this Special Condition in accordance with the following procedures: **(9/22)**

    A. Opacity observation shall be conducted and recorded once each day while the facilities are in operation.

    B. Opacity monitoring is not required for any day that the unit does not operate.

    C. Opacity monitoring is not required if observations cannot be conducted due to weather conditions. The date, time, and specific weather condition shall be recorded.

    D. The opacity shall be determined and documented using Title 40 CFR Part 60, Appendix A, Reference Method 9.

11. Emissions from the PC Boilers (EPNs: E-OGU1 and E-OGU2) shall not exceed the performance standards in the following tables. The performance standards of the tables shall apply at all times except during periods of startup and shutdown as identified in the permit application. **(9/22)**

    A. Standards demonstrated by Continuous Emissions Monitoring Systems (CEMS)

Pollutant	Performance Standard lb/MMBtu	Compliance Averaging Period
NO_x	0.080	30-day rolling
SO_2	0.192	30-day rolling
SO_2 Surrogate for PM/PM_{10} (total), H_2SO_4, HCl, and HF	0.192	12-month rolling
CO	0.34	12-month rolling
CO Surrogate for VOC	0.34	12-month rolling
Hg	0.0000092	12-month rolling
PM/PM_{10} front-half catch	0.015	3-hour
PM/PM_{10} front-half catch surrogate for PM/PM_{10} (total)	0.015	12-month rolling

Pollutant	Performance Standard ppm	Compliance Averaging Period
NH_3	10	hourly
NH_3	4	12-month rolling

B. Standards demonstrated by Reference Method[2] (RM) testing

Pollutant[1]	Performance Standard (lb/MMBtu)[1]	Compliance Demonstration Period
PM/PM_{10} total	0.040[3]	annual
VOC	0.0045	annual
H_2SO_4	0.0122	annual
HCl	0.0061	annual
HF	0.0036	annual

Notes:

1 lbs/MMBtu - pounds of emissions per million Btu of heat input. Heat input is based on fuel HHV.

ppm - parts per million by volume, dry, adjusted to 6 percent oxygen (O_2).

2 RM - EPA Reference Methods, based on the average of three stack sampling runs to be conducted as prescribed by Special Condition Nos. 33 and 40.

3 Total PM/PM_{10} including back-half (condensibles) catch of sampling train.

C. Emissions from a planned startup are excluded from the performance standards of this special condition and will be minimized by the following:

(1) Place the wet limestone absorber into service by circulating slurry prior to introducing fuel to the boiler ignitors.

(2) Place at least four (4) baghouse compartments into service prior to introducing solid fuel into the boiler.

(3) Place the mercury sorbent injection system into service after placing baghouse compartments into service and prior to introducing solid fuel into the boiler.

(4) Place the selective catalytic reduction system (SCR) into service by injecting ammonia before the SCR inlet flue gas temperature reaches 650 degrees Fahrenheit.

D. Emissions from a planned shutdown are excluded from the performance standards of this special condition and will be minimized by the following:

(1) Remove the SCR system from service only after the SCR inlet flue gas temperature drops below 650 degrees Fahrenheit.

(2) Remove the mercury sorbent injection system from service only after halting injection of solid fuel into the boiler and before all baghouse compartments are removed from service.

(3) Remove the wet limestone scrubber and all baghouse compartments from service only after halting injection of solid fuel into the boiler.

12. CEMS not operating:

A. In the event that a CEMS for NO_x is not operating for a period longer than one hour, the permit holder shall operate at no less than the ammonia feed rate to the selective catalytic reduction (SCR) system that was established during a successful initial performance test (adjusted for load) or at the feed rates that were measured prior to the loss of the CEMS (adjusted for load), whichever feed rates are higher.

B. In the event that a CEMS for SO_2 is not operating for a period longer than one hour, the permit holder shall operate at no less than the reagent feed rate to the flue gas desulfurization system that was established during a successful initial performance test (adjusted for load) or at the feed rates that were measured prior to the loss of the CEMS (adjusted for load), whichever feed rates are higher.

13. The PC Boiler stacks (EPNs: E-OGU1 and E-OGU2) will be approximately 450 feet tall with an exit diameter of 32.6 feet. Stack sampling ports and platform(s) shall be constructed on the stack as specified in the attachment entitled “Chapter 2, Guidelines for Stack Sampling Facilities,” or an alternate design may be required at a later date if determined necessary by the appropriate TCEQ Regional Director. Adequate advance notice shall be provided by TCEQ if an alternate design is required.

14. The auxiliary boiler, with Stack identified as EPN: E-OGAB, shall meet the following specifications:

A. Emissions while operating at greater than 25 percent load shall not exceed:

(1) NO_x - 0.036 lb/MMBtu, three-hour average; and

(2) CO - 50 ppmvd at 3 percent O_2, three-hour average.

B. Emissions during startup, shutdown, or while operating at less than 25 percent load, shall not exceed:

(1) NO_x - 0.10 lb/MMBtu, three-hour average; and

(2) CO - 500 ppmvd at 3 percent O_2, three-hour average.

C. Opacity of emissions shall not exceed 10 percent.

D. Fuel shall be limited to pipeline-quality natural gas.

E. During construction, commissioning, and testing of Units 1 and 2, annual hours of operation are not limited. After the Resource Asset Registration Forms for Units 1 and 2 have been submitted to the Electric Reliability Council of Texas (ERCOT) documenting the commercial operation date and both units are released to ERCOT control, the annual operation is limited to a maximum of 10 percent annual capacity factor. Capacity factor is the ratio between the actual heat input from all fuels during a period of 12 consecutive calendar months and the potential heat input from all fuels had the boiler been operated for 8,760 hours during that 12-month period at the maximum design heat input capacity.

F. The transition to a 10 percent annual capacity factor limitation for the auxiliary boiler occurred April 19, 2011, when Unit 2 was released to ERCOT control for commercial operation.

Planned Maintenance, Startup, and Shutdown Emissions

15. This permit authorizes the planned MSS activities listed in Attachment B, Attachment C, and the MAERT. Attachment B identifies the inherently low-emitting (ILE) planned maintenance activities that this permit authorizes to be performed. Attachment C identifies the planned maintenance activities that are non-ILE planned maintenance activities that this permit authorizes to be performed.

16. During planned MSS activities, facility and air pollution control equipment will be operated in a manner consistent with good practices for minimizing emissions. The emissions from planned MSS activities are reflected in the MAERT. **(9/22)**

17. Vacuum trucks used during planned maintenance:

A. Must use submerged loading into the truck tank when pumping liquids.

B. Must route the vacuum exhaust to a filtering system designed to meet 0.01 grain PM per dry standard cubic foot when vacuuming solids.

18. When a planned maintenance activity is associated with a VOC liquid storage facility and may result in VOC emissions from that facility, the permit holder shall not open that facility to the atmosphere in connection with the planned maintenance activity until the VOC liquids are removed from that facility to the maximum extent practicable.

19. Compliance with the emission limits for planned MSS activities identified in the MAERT of this permit shall be demonstrated as follows.

A. For each pollutant emitted during ILE planned maintenance activities, the permit holder shall annually confirm the continued validity of the estimated potential to emit represented in the MSS permit amendment application. The total emissions from all ILE planned maintenance

activities identified in Attachment B of this permit shall be considered to be no more than the estimated potential to emit for those activities that are represented in the permit amendment application.

B. For each pollutant emitted during planned maintenance activities whose emissions occur through a stack, but are not being measured using CEMS, the permit holder shall determine the total emissions in accordance with Special Condition No. 20.

C. For each pollutant emitted during non-ILE planned MSS activities identified in Attachment C whose emissions do not occur through a stack, the permit holder shall do the following for each calendar month.

(1) Determine the total emissions in accordance with Special Condition No. 20.

(2) Once monthly emissions have been determined in accordance with Special Condition No.19.C.(1) for 12 months after the MSS permit amendment has been issued, the permit holder shall compare the sum of the rolling 12-month emissions for the pollutant for all non-ILE planned MSS activities to the annual emissions limit for the pollutant in the MAERT.

20. The permit holder shall determine the emissions during planned MSS activities for use in Special Condition No. 19 as follows.

A. For each pollutant described in Special Condition No. 19.B. or 19.C., the permit holder shall calculate the pollutant's emissions during all occurrences of each type of planned MSS activity for each calendar month using the frequency of the planned MSS activity identified in work orders or equivalent records and the emissions of the pollutant during the planned MSS activity, either

(1) as represented in the planned MSS permit application; or

(2) as determined with an appropriate method, including but not limited to any of the following methods, provided that the permit holder maintains appropriate records supporting such determination:

(a) use of emission factor(s), facility-specific parameter(s), and/or engineering knowledge of the facility's operations;

(b) use of emissions data measured (by a CEMS or during emissions testing) during the same type of planned MSS activity occurring at or on a similar facility, and correlation of that data with the activity's or facility's relevant operating parameters;

(c) use of emissions testing data collected during a planned MSS activity occurring at or on the facility, and correlation of that data with the facility's or activity's relevant operating parameters, such as electric load, temperature, fuel input, or fuel sulfur content; or

(d) use of parametric monitoring system data applicable to the facility.

B. With the exception of the emission limits in the MAERT attached to this permit, the permit conditions relating to planned maintenance activities do not become effective until 60 days after issuance of this permit.

Chemical and Fuel Storage

21. Anhydrous ammonia storage is subject to the following requirements.

    A. Maximum on-site storage is limited to the two pressure tanks identified in the permit application, each with maximum volume of 30,000 gallons.

    B. The tanks shall be located within

        (1) a physical barrier to vehicular traffic; and

        (2) a containment system which is capable of holding the entire volume of material stored.

    C. Piping and unloading points shall be protected from impact by falling objects.

    D. Each tank vent valve shall be equipped with an alarm which will notify personnel that the relief valve has opened.

    E. Tanks shall be vapor balanced to the transport vessel during all tank filling operations. The vapor return line shall be purged back to either the transport vessel or the storage tank after every tank loading operation and prior to disconnection of the line. Interlocks shall be installed so that the unloading pump will not run unless the vapor return line to the transport vessel is connected.

    F. All plant personnel assigned to anhydrous ammonia injection operations shall participate in continuing training in safety guidelines for the handling of anhydrous ammonia, to be conducted no less frequently than once every two years: new and transferred personnel shall complete all initial training required for their specific assignments prior to assumption of their new duties.

    G. Overhead activity involving the lifting of heavy equipment above the anhydrous ammonia storage area shall not be permitted.

    H. The holder of this permit shall maintain a complete emergency response plan at the plant site that describes the course of action to be taken by personnel in the event of an anhydrous ammonia tank or line rupture, or a severe anhydrous ammonia leak. This plan shall include water-mitigation methods, notification of the proper civil authorities, and any potentially affected residences and any other appropriate organizations. This plan shall be made available upon request to representatives of the TCEQ or any local program having jurisdiction.

22. Audio, olfactory, and visual checks for ammonia leaks shall be made once per shift within the operating area.

    A. No later than one hour following detection of a leak, plant personnel shall take the following actions:

        (1) Locate and isolate the leak.

        (2) Stop the leak by bypassing the leaking equipment or taking equipment out of service.

    B. If the leaking equipment cannot be repaired or replaced within six hours, use clamping procedures to prevent the leak until replacement or repair can be performed.

Material Handling Operating Limitations and Standards

23. Annual coal received at the Oak Grove site shall not exceed 11.82 million tons per calendar year. Coal shall be delivered at the railcar unloading building which shall be partially enclosed as described in the application.

24. If spontaneous combustion occurs in a coal stockpile, plant personnel will begin efforts as soon as possible to extinguish or eliminate the fire, except when extinguishing the fire may unduly jeopardize the safety of plant personnel and equipment, or may cause the fire to spread, in which case the stockpile fire may be permitted to burn itself out.

25. A watering truck and/or the coal yard watering system shall be used to minimize dust emissions from the active coal storage pile area as necessary. Surface crusting agents or like chemicals shall be used to minimize dust emissions from the inactive coal storage pile area. A watering truck or other watering system shall be used to minimize dust emissions from the secondary limestone storage pile as necessary.

26. Plant roads shall be paved with a cohesive hard surface which can be cleaned by sweeping or washing; or sprinkled with water and/or surface crusting agents as necessary to maintain compliance with all TCEQ rules and regulations.

27. Material open storage area footprints shall be limited as follows:

Source	EPN	Area, acres (ft^2)
Lignite Stackout Pile	E-OGLSPF	0.32 (13,940 ft^2)
Lignite Dead Storage Pile – inactive areas	E-OGLDSPF	15.33 (667,775 ft^2)
Lignite Dead Storage Pile – active areas*	E-OGLDSPF	2.57 (111,949 ft^2)
Secondary Limestone Storage Pile	E-OGSLSAF	3.00 (130,680 ft^2)
Local and Remote landfill areas -combined areas active working face*	E-OGLDLF E-OGRDLF	1.60 (69,700 ft^2)
Local and Remote landfill areas - combined inactive exposed surfaces*	E-OGLDLF E-OGRDLF	10.00 (435,600 ft^2)

* footprint is not limited to a specific location

28. All conveyors shall be covered, enclosed, partially covered, or partially enclosed, as represented in the application, to minimize fugitive PM emissions. **(3/22)**

    A. The Surface Reclaim Feeder (EPN: E-OG-SRFF) shall utilize water as needed to maintain compliance with all applicable TCEQ rules and regulations.

    B. The Surface Reclaim Breaker (EPN: E-OGSRBF) shall utilize enclosure and a dust suppression spray system.

    C. If visibility problems occur, additional controls may be required. Coverings and enclosures are considered abatement equipment, and should be kept in good repair.

29. Fugitive emissions from the transfer points on belt conveyors, any material handling, and the stockpile activities shall not create an off-property nuisance condition. A trained observer

with delegation from the Executive Director of the TCEQ may determine compliance with this special condition by 40 CFR Part 60, Appendix A, RM 22, or equivalent. If this condition is violated, additional controls or process changes may be required to limit visible PM emissions.

30. As determined by a certified opacity observer with delegation from the Executive Director of the TCEQ and according to 40 CFR Part 60, Appendix A, RM 9, or equivalent, opacity of emissions from any single fabric filter baghouse stack listed in Special Condition No. 31 shall not exceed 5 percent averaged over a six-minute period.

31. Material handling baghouses or bin vent filters, designed to meet an emission limit of 0.01 grain PM per dry standard cubic foot of exhaust, properly installed and in good working order, shall control PM emissions from the following sources:

Source	Filter Type	EPN
Lignite Silo	Bin vent	E-OGLSILO
Lignite crusher house	Bin vent	E-OGCHBFV
Lignite transfer tower	Bin vent	E-OGSBTTBV
Lignite tripper houses: PC Boiler 1, south side PC Boiler 1, north side PC Boiler 2, south side PC Boiler 2, north side	 Baghouse Baghouse Baghouse Baghouse	 E-OGU1SSV E-OGU1NSV E-OGU2SSV E-OGU2NSV
Limestone prep area storage silos	Bin vent	E-OGLSSB1V E-OGLSSB2V
Sorbent storage silo	Bin Vent	E-OGSSSV
Fly ash filter separators: Unit 1 Unit 2	 Baghouse Baghouse Baghouse Baghouse Baghouse	 E-OGVS1V1 E-OGVS1V2 E-OGVS1V3 E-OGVS2V1 E-OGVS2V2 E-OGVS2V3
Fly ash Silo 1	Bin vent	E-OGFAS1V
Fly ash Silo 1 loading spout	Baghouse	E-OGSLS1V

Initial Demonstration of Compliance

32. The holder of this permit shall perform initial stack sampling and other testing to establish the actual quantities of air contaminants being emitted into the atmosphere. Unless otherwise specified in this Special Condition No. 32, the sampling and testing shall be conducted in accordance with the methods and procedures specified in Special Condition No. 33. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing

operations at his expense. The TCEQ Executive Director or his designated representative shall be afforded the opportunity to observe all such sampling.

A. For EPNs: E-OGU1 and E-OGU2:

(1) Demonstrate compliance with the performance standards of Special Condition No. 11B and the hourly emission rates of the MAERT, applicable to normal operations, using the average of three one-hour stack sampling test runs for each contaminant.

(2) Air contaminants to be sampled and analyzed under (1) above include: NO_x, SO_2, CO, VOC, H_2SO_4, HCl, HF, PM, PM_{10}, NH_3, and Hg. Diluents to be measured include O_2 or carbon dioxide (CO_2).

(3) Demonstrate compliance with the performance standards of Special Condition No. 10 applicable to normal operations, using the average of 30 six-minute readings as provided in 40 CFR § 60.11(b).

(4) Demonstrate compliance with 40 CFR Part 60, Subparts A and Da, for NO_x, SO_2, and PM.

(5) Demonstrate compliance with the lb/MMBtu performance standards listed on Attachment A and the lb/hr emission rate for lead listed on the MAERT using the average of three stack sampling test runs.

(6) Boiler load during testing shall be maintained at maximum firing rates for the atmospheric conditions occurring during the test as measured by millions of pounds of steam generated per hour or MW of electric generator output. If the steam generating unit is unable to operate at maximum rates during testing, then additional stack testing may be required when higher production rates are achieved. This requirement applies to hourly average emission testing and does not apply to 30-day average emission testing.

B. For the Auxiliary Boiler (EPN: E-OGAB):

(1) Demonstrate compliance with the NO_x and CO performance standards of Special Condition Nos. 4 and 14A, and the hourly NO_x and CO emission rates of the MAERT at full load, using the average of three one-hour stack sampling test runs for each contaminant.

(2) Demonstrate compliance with the opacity limitation of Special Condition No. 14.

(3) Demonstrate compliance with the SO_2 emission rate of the MAERT through fuel sulfur sampling and presumed 100 percent conversion of the fuel sulfur and emission as SO_2.

(4) Demonstrate compliance with the PM/PM_{10} and VOC emission rates of the MAERT through operation of the auxiliary boiler within its design limitations.

C. For the coal handling facilities, identified in Special Condition No. 5, demonstrate compliance with the opacity limits of this permit and 40 CFR Part 60, Subpart Y.

D. For the limestone handling facilities, identified in Special Condition No. 6, demonstrate compliance with the opacity and/or particulate matter limits of this permit and 40 CFR Part 60, Subpart OOO.

E. For at least one material handling baghouse, to be selected by the TCEQ Waco Regional Director, or his designated representative, sample PM emissions using RM 5 testing to show compliance with the emission limit of Special Condition No. 31.

F. Requests to waive testing for any pollutant specified in this condition shall be submitted to the TCEQ Air Permits Division. Test waivers and alternate or equivalent procedure proposals for New Source Performance Standards testing which must have EPA approval shall be submitted to the TCEQ Air Permits Division.

G. For each PC Boiler, sampling as required by this condition shall occur within 60 days after the particular boiler achieves the maximum fuel firing rate at which it will be operated, but no later than 180 days after initial startup. The first boiler operating day of 30-day average initial performance testing required by 40 CFR § 60.46a(f) must commence within this time.

Test Methods and Procedures

33. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual, EPA Methods in 40 CFR Part 60, Appendix A and 40 CFR Part 51, Appendix M, EPA Conditional Test Methods, and American Society for Testing and Materials (ASTM) as follows:

(1) Appendix A, Methods 1 through 4, as appropriate, for exhaust flow, diluent, and moisture concentration.

(2) Appendix A, Method 5B or 17, modified to include back-half condensibles, for the concentration of PM.

(3) Appendix A, Method 5B or 17, for the filterable concentration of PM (front-half catch).

(4) Appendix A, Method 6, 6a, 6c, or 8, for the concentration of SO_2.

(5) Appendix A, Method 7E for the concentrations of NO_x and O_2, or equivalent methods.

(6) Appendix A, Method 8 or a modified Method 8 for H_2SO_4.

(7) Appendix A, Method 9 for opacity.

(8) Appendix A, Method 10 for the concentration of CO.

(9) Appendix A, Method 19, for applicable calculation methods.

(10) Appendix A, Method 22, for visual determination of fugitive emissions from material sources.

(11) Appendix A, Method 25A, modified to exclude methane and ethane, for the concentration of VOC (to measure total carbon as propane).

(12) Appendix A, Method 26 or 26A for HCl and HF.

(13) EPA Conditional Test Method 27 (CTM-027), for NH_3;

(14) Appendix A, Method 29 for the metals listed in Attachment A.

(15) Appendix M, Methods 201A and 202, or Appendix A, Reference Method 5, modified to include back-half condensibles, for the concentration of particulate matter less than 10 microns in diameter, PM_{10}.

(16) Appendix M, Methods 201A or Appendix A, Reference Method 5, for the filterable concentration of particulate matter less than 10 microns in diameter, PM_{10} (front-half catch).

(17) ASTM D6784-02, Standard Test Method for Elemental, Oxidized, Particle-Bound, and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (also known as the Ontario Hydro Method), or other approved EPA methods.

(18) Any variations from those procedures must be approved by the Executive Director of the TCEQ or his designated representative prior to sampling.

B. The TCEQ Waco Regional Office shall be given notice as soon as testing is scheduled but not less than 30 days prior to sampling to schedule a pretest meeting.

(1) The notice shall include:

(a) Date for pretest meeting.

(b) Date sampling will occur.

(c) Name of firm conducting sampling.

(d) Type of sampling equipment to be used.

(e) Method or procedure to be used in sampling.

(f) Projected date of commencement of the 30-day rolling average initial performance tests for SO_2 and NO_x, in accordance with 40 CFR § 60.46a(f).

(2) 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. The permit holder shall present at the pretest meeting the manner in which stack sampling will be executed in order to demonstrate compliance with emission standards found in this permit and 40 CFR Part 60, Subparts Da, Db, Y, and OOO.

(3) Prior to the pretest meeting, a written proposed description of any deviation from sampling procedures specified in permit conditions or TCEQ, EPA or ASTM sampling procedures shall be made available to the TCEQ. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures.

C. Information in the test report shall include the following data for each test run:

(1) hourly coal firing rate (in tons);

(2) average coal Btu/lb as-received and dry weight;

(3) average steam generation rate in millions of pounds per hour;

(4) average generator output in MW;

(5) daily sulfur content and heat content of the fuel measured in accordance with EPA RM 19 to show compliance with 40 CFR Part 60, Subpart Da;

(6) control device operating rates, including Selective Catalytic Reduction (SCR) reagent injection and limestone injection rates;

(7) emissions in the units of the limits of this permit, lb/hr and lb/MMBtu, three-hour or 30-day average, as appropriate, and

(8) any additional records deemed necessary during the stack sampling pre-test meeting.

D. Two copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached conditions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

(1) One copy to the TCEQ Waco Regional Office.

(2) One copy to the TCEQ Austin Air Permits Division.

Continuous Demonstration of Compliance

34. The holder of this permit shall install, calibrate, maintain, and operate continuous emission monitoring systems (CEMS) to measure and record the concentrations of NO_x, CO, and SO_2 from EPNs: E-OGU1 and E-OGU2. Diluents to be measured include O_2 or CO_2. The CEMS data shall be used to determine continuous compliance with the NO_x, CO, and SO_2 emission limitations in Special Condition No. 3 (NO_x and SO_2), Special Condition No. 11A, and the attached MAERT. Except as provided by Special Condition No. 48, continuous compliance with the performance standards of Special Condition No. 11A shall commence on the first boiler operating day of the 30-day initial performance testing required by NSPS Subpart Da.

A. The 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 Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B or an acceptable alternative. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Air Permits Division in Austin for requirements to be met.

B. The holder of this permit shall assure that the CEMS meets the applicable quality assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1, or an acceptable alternative. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, § 5.2.3 and any CEMS downtime and all cylinder gas audit exceedances of ±15 percent accuracy shall be reported semiannually to the appropriate TCEQ Regional Director, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director.

C. The monitoring data shall be reduced to hourly average concentrations at least once every day, using normally a minimum of four equally-spaced data points from each one-hour period. The individual average concentrations shall be reduced to units of the permit allowable emission rate in pounds per hour at least once every day. Pound per hour data shall be summed on a monthly basis to tons per year and used to determine compliance with the annual emissions limits of this permit. If the CEMS malfunctions, then the recorded concentrations may be reduced to units of the permit allowable as soon as practicable after the CEMS resumes normal operation.

D. The appropriate TCEQ Regional Office shall be notified at least 30 days prior to any required relative accuracy test audits in order to provide them the opportunity to observe the testing.

E. If applicable, each CEMS will be required to meet the design and performance specifications, pass the field tests, and meet the installation requirements and data analysis and reporting requirements specified in the applicable performance specifications in 40 CFR Part 75, Appendixes A and B, as an acceptable alternative to Paragraph A of this condition.

F. Each CEMS shall be operational during 95 percent of the operating hours of the PC Boiler, exclusive of the time required for zero and span checks. If this operational criteria is not met for the reporting quarter, the holder of this permit shall develop and implement a monitor quality improvement plan.

The plan should address the downtime issues to improve availability and reliability. The plan should provide additional assurance of compliance including record keeping of reagent flow rates for monitor downtime periods.

35. The holder of this permit shall install, calibrate, certify, operate, and maintain CEMS to measure and record the filterable PM/PM_{10} emissions from EPNs: E-OGU1 and E-OGU2. The CEMS data shall be used to determine continuous compliance with the filterable (front-half) PM emission limitations in Special Condition No. 11A and the attached MAERT. **(9/22)**

A. The PM CEMS shall meet the Federal NSPS requirements specified in 40 CFR §§ 60.13, 60.48Da(p) and 60.49Da(v) and 40 CFR Part 60, Appendix B, Performance Specification 11 (PS-11). In order to demonstrate compliance with PS-11, the PM CEMS shall meet the manufacturer's design and performance specifications, and undergo performance evaluation testing as outlined in 40 CFR § 60.13. The TCEQ Regional Director shall be notified 30 days prior to the certification.

B. A Quality-Assurance Plan (QAP) shall be prepared in accordance with 40 CFR Part 60, Appendix F, Procedure 2 and adhered to following the initial certification of compliance. The QAP shall be maintained to reflect changes to component technology. If requested by the TCEQ Regional Director, the holder of this permit must submit documentation demonstrating compliance with these requirements.

C. The PM data shall be reduced to hourly averages in accordance with 40 CFR § 60.13(h) and PS-11, § 6.5. The data shall be recorded in units of lb/MMBtu and lb/hr at least daily. Pounds per hour data shall be summed on a monthly basis to TPY and used to determine compliance with the annual emission limits of this permit.

D. The TCEQ Waco Regional Office shall be notified at least 30 days prior to any required relative response audit or response correlation audit.

E. Recertification, if required, shall be based on the requirements of 40 CFR Part 60, Appendix B, PS-11 in effect at the time of initial certification, or as approved by the TCEQ Regional Director.

36. The holder of this permit shall install, calibrate, operate, and maintain CEMS to measure and record the concentration of NH_3 from EPNs: E-OGU1 and E-OGU2. The NH_3 concentrations shall be corrected and reported in accordance with Special Condition No. 11A. The CEMS data shall be used to determine continuous compliance with the NH_3 performance standards in Special Condition No. 11A and the MAERT. Any other method used for measuring NH_3 slip shall require prior approval from the TCEQ Waco Regional Office, with consultation between the TCEQ Regional Office and the TCEQ Austin Air Permits Division.

37. The holder of this permit shall install, calibrate, operate, and maintain CEMS or sorbent trap monitoring system to measure and record the concentration of mercury from EPNs: E-OGU1 and E-OGU2, as prescribed by 40 CFR Parts 6o or 63. The CEMS or sorbent trap data shall be used to demonstrate continuous compliance with the emission limitations of Special Condition No. 11A and the MAERT.

38. If any emission monitor fails to meet specified performance, it shall be repaired or replaced as soon as reasonably possible.

39. After the initial demonstration of compliance, on-going compliance with the non-mercury metal performance standards identified in Attachment A of this permit, the emission rates for lead in the MAERT, and the sulfur content of Special Condition No. 8 will be demonstrated by testing of the as-fired coal at least once per calendar quarter for compliance with the non-mercury metal coal concentration limits in Attachment A. The HHV of the coal sample shall also be measured.

40. After the initial demonstration of compliance, on-going stack sampling of EPNs: E-OGU1 and E-OGU2 for H_2SO_4, HCl, HF, VOC, total PM/PM_{10}, or coal concentration testing, and CEMS data shall be used to demonstrate continuous compliance and shall meet the following specifications: **(9/22)**

    A. Stack sampling shall be performed once annually during periods of normal operation, except as follows:

        (1) After two years of stack sampling, if the average of the two annual stack sampling results for a pollutant is less than 70 percent of the applicable performance standard identified in Special Condition No. 11B, then compliance stack sampling for such pollutant may be conducted once every three years.

    B. Sampling required in (A) of this Special Condition shall demonstrate compliance with the performance standards of Special Condition No. 11B and the lb/hr emission limits of the MAERT applicable to normal operations.

    C. Sampling required in (A) of this Special Condition shall be conducted in accordance with the methods, procedures, and notification protocol specified in Special Condition No. 33.

    D. Ongoing compliance with the H_2SO_4, HF, HCl, VOC, and PM/PM_{10} TPY emission rates in the MAERT shall be demonstrated with CEMS data as specified in the MAERT, and by calculating rolling 12-month annual emissions from emission factors (lb/MMBtu, HHV) obtained from the sampling required in (A) of this condition and the monthly total heat input (MMBtu, HHV) from coal. **(9/22)**

    E. CEMS data shall be used as specified in the MAERT to demonstrate ongoing compliance with the H_2SO_4, HF, HCl, VOC, and PM/PM_{10} lb/hr emission rates in the MAERT. **(9/22)**

41. During periods of planned MSS, compliance with the following emission rates in the MAERT, for EPNs: E-OGU1 and E-OGU2, will be demonstrated as follows: **(9/22)**

    A. Compliance with the lead and PM and PM_{10} (filterable) emission rates in the MAERT during planned MSS will be demonstrated if the CEMS data shows that filterable PM emissions do not exceed the emission rate in the MAERT.

    B. Compliance with the PM and PM_{10} (total) emission rates in the MAERT during planned MSS will be demonstrated if the CEMS data shows that neither SO_2 emissions nor PM (filterable) emissions exceed the emission rate in the MAERT for planned MSS.

    C. Compliance with the VOC emission rate in the MAERT applicable during planned MSS will be demonstrated if the CO emissions during planned MSS are in compliance with the CO emission rate in the MAERT.

D. Compliance with the H_2SO_4, HF, and HCl emission rates in the MAERT for planned MSS will be demonstrated if the SO_2 emissions during planned MSS are in compliance with the SO_2 emission rate in the MAERT for planned MSS.

42. Following the initial demonstration of compliance for the Auxiliary Boiler (EPN: E-OGAB), ongoing compliance with the emission limitations of Special Condition No. 14.A.-C. and the MAERT shall be through source operation in accordance with manufacturer's specifications, or in accordance with written procedures that are shown to maintain operating conditions necessary for emission compliance. The Executive Director of the TCEQ or his designated representative may also require direct measurement of emissions using the sampling methods and procedures specified in Special Condition No. 33 to establish compliance with the limitations, in which case the sampled emission rate will be used to determine compliance.

43. Following the initial demonstration of compliance, ongoing compliance with the opacity limits in Special Condition Nos. 5 and 6, and the emission rates in the MAERT for the coal, limestone, fly ash, gypsum and mercury sorbent material handling sources, will be demonstrated by opacity monitoring conducted for at least six minutes once each calendar month during which the source operates at any time, using RM 9 for each EPN. For vented sources, the Executive Director of the TCEQ or his designated representative may also require sampling conducted in accordance with the methods and procedures specified in Special Condition No. 33 to directly measure the lb/hr emission rate, in which case the sampled lb/hr emission rate will be used to determine compliance with the applicable emission rate in the MAERT.

Recordkeeping Requirements

44. The following records shall be kept at the plant for the life of the permit. All records required in this permit shall be made available at the request of personnel from the TCEQ, the EPA, or any air pollution control agency with jurisdiction.

    A. A copy of this permit.

    B. Permit application dated July 27, 2005 and subsequent representations submitted to the TCEQ.

    C. A complete copy of the testing reports and records of the initial air emissions performance testing completed pursuant to the Initial Demonstration of Compliance.

45. The following records shall be kept for a minimum of five years after collection and shall be made immediately available upon request to representatives of the TCEQ, the EPA, or any local air pollution control program having jurisdiction. Records shall be legible and maintained in an orderly manner. The following records shall be maintained:

    A. Continuous emission monitoring data for SO_2, NO_x, CO, PM/PM_{10} and diluent gases, O_2 or CO_2, from CEMS to demonstrate compliance with the emission rates listed in the MAERT and performance standards listed in this permit for pollutants that are monitored by CEMS. Data retention at intervals less than one hour is not required. Records should identify the times when emissions data have been excluded from the calculation of average emission rates because of startup, shutdown, maintenance, and malfunction along with the justification for excluding data. Records should also identify factors used in calculations that are used to demonstrate compliance with emissions limits and performance standards.

B. Files of all CEMS quality assurance measures, calibration checks, adjustments and maintenance performed on these systems.

C. Steam turbine generator hourly gross electrical output in MW, including identification of shutdown intervals, for compliance with output based performance specifications of this permit.

D. Written coal analysis, as required by Special Condition No. 39, to show compliance with the sulfur and trace metal concentration limits of this permit, and written analysis provided by natural gas suppliers to show compliance with the sulfur content limitations of this permit.

E. Average coal feed rate to the PC Boiler in pounds per hour and the corresponding average heat input (HHV) in MMBtu/hr, based upon an average over each calendar month.

F. Ammonia feed rate and sorbent feed rate established during a successful initial performance test to fulfill the requirements of Special Condition No. 12.

G. Hours of operation of the auxiliary boiler to show compliance with the hourly operating limitations of this permit, beginning on the first day of the first month following the date that Unit 2 is first released to ERCOT control.

H. Tons of coal received at the site monthly to show compliance with the throughput requirements of this permit.

I. Records of cleaning and maintenance performed on abatement equipment, including records of replacement maintenance performed on baghouses and conveyors. A log should be kept with descriptions of the activity performed and the time period over which it was performed.

J. Records required to show compliance with 40 CFR Part 60, Subparts Da, Db, Y, and OOO, including records of required reporting.

K. Records of daily road maintenance and watering of stockpiles for dust control to show compliance with Special Conditions No. 25 and 26.

L. Records of audio, olfactory, and visual checks for ammonia leaks and repairs to show compliance with Special Condition No. 22.

M. Records of all venting of the anhydrous ammonia storage tanks to show compliance with Special Condition No. 21.

N. Required stack sampling results or other air emissions testing (other than CEMS data) that may be conducted on units authorized under this permit after the initial demonstration of compliance testing of this permit.

O. Records of maintenance activities and their emissions as required by Special Condition Nos. 19 and 20.

Reporting

46. The holder of this permit shall submit to the TCEQ Waco Regional Office semi-annual reports as described in 40 CFR § 60.7. Such reports are required for the emissions limitations established in 40 CFR Part 60 where the emission unit is required to be monitored by a continuous monitoring device pursuant to this permit. **(03/2019)**

As-Built Information

47. The holder of this permit shall submit to the TCEQ Waco Regional Office and the TCEQ Air Permits Division change pages to the permit application reflective of the final plans and engineering specifications on the PC Boilers, auxiliary boiler, emergency engines, and other sources, including their respective control equipment, no later than 30 days before initial startup of the PC Boilers. This information shall include:

    A. All TCEQ Tables in the permit application, updated with manufacturer and other specified data.

    B. Revised plot plans and equipment drawings as required to reflect the constructed facility.

    C. Manufacturer's certification of emissions for the diesel engines and if applicable, cost information to verify compliance with the emission Tier requirements of this permit.

    D. Identification of any maximum inputs of raw materials for the as-built facility, and any diesel fuel sulfur or engine manufacturer's emission specification that is lower than the values represented in the permit application and used for calculating or establishing emissions. Accompanying this information shall be a request for permit alteration. The TCEQ shall alter the permit special conditions and MAERT to reflect any such reduction in emissions. Increases in allowable emission rates require a permit amendment before construction begins.

Mitigation Studies – NO_x, Mercury, and Ammonia

48. For each PC boiler, if the permit holder is unable to demonstrate compliance with the PC Boiler performance standards identified in Special Condition No. 11A for the control of NO_x, NH_3, or Hg within 180 days of initial startup, then the permit holder may request additional time for an emissions study to mitigate emissions from the unit. Mitigation studies may be requested by the permit holder to evaluate and implement additional efforts to mitigate the emissions of NO_x, NH_3, or Hg. Exceedances of an NO_x, NH_3, or Hg emission limit that occur before or during an approved mitigation study are not a violation of the emission limit or performance standard set forth for those contaminants in this permit as long as the owner or operator maintains and operates the equipment and control equipment at all times in a manner consistent with good practice for minimizing emissions. The following conditions shall be met for the studies:

    A. Prior to the initiation of mitigation studies, a protocol shall be developed and approved by the Executive Director of the TCEQ. The protocol shall include at a minimum a proposed duration of the study period and an explanation of control efforts that will be evaluated. Additionally, the protocol will include a description of the specific testing that will be used to evaluate emissions during the mitigation study. All stack testing done for this study shall be coordinated with the TCEQ Waco Regional Office.

    B. A report summarizing the results of the mitigation study shall be submitted to the TCEQ Air Permits Division and TCEQ Waco Regional Office within 45 days after the completion of the individual mitigation study. This report shall include a summary of the effort utilized to mitigate emissions and the resulting emission rates measured during the study, as well as a listing of actions that will be undertaken by the permit holder to achieve the performance standard listed in Special Condition No. 11.

C. All mitigation studies shall be completed within 12 months of the initial demonstration of compliance stack testing.

NO_x Optimization

49. Selective Catalytic Reduction (SCR) Study

A. During the two years of operation following the initial demonstration of compliance testing of the first PC boiler placed into operation, the permit holder will conduct a study of the operational capability of the SCR system at emission levels below 0.08 lb NO_x/MMBtu to determine the lower sustainable emission rate average over a 30-day averaging period. Factors to be considered in the study include: the demonstrated NO_x removal efficiency of the catalyst at the end of the scheduled catalyst cycle of replacement; the ability of the SCR system to operate at lower levels without adverse effect on the electric generating unit capacity, reliability, and availability; and other engineering, operational or environmental factors such as ammonia or CO emissions, or detached plumes. Within 45 days after the end of the two-year operational period, the permit holder shall submit a written report of the results of the study and a request to alter the permit to lower the 0.08 lb NO_x/MMBtu limit of Special Condition No. 11A if the study demonstrates that a lower rate is justified based on SCR performance with typical and expected maintenance and operational effects.

B. At the request of the permit holder and with the approval of the TCEQ Waco Regional Office, the permit holder may obtain additional time for optimization of the Unit 2 PC Boiler (EPN: E-OGU2), to extend to two years of operation following the initial demonstration of compliance testing of EPN: E-OGU2.

50. This permit does not include the facilities at the site identified in the following table. Instead, these facilities are authorized under standard permit by 30 TAC Chapter 116 or permit by rule (PBR) by 30 TAC Chapter 106. This list is not intended to be all-inclusive and can be altered at the site without modification to this permit.

Source	EPN	Authorization/ Registration Number
Flue gas conditioning agent storage silo	Storage silo	§ 116.602 Pollution Control Project Standard Permit/No. 98444
Contingency limestone feed system	F-OGCLSPF F-OGCLHF F-OGCLC	§ 106.261 PBR/No. 113910
Contingency limestone FGD slurry mixing system	E-OGCSMSV	§ 106.144, § 106.261, and § 106.262 PBRs/No. 113077
Contingency Mercury Sorbent System Vent	E-OGCMSSV	PBR Registration No. 140895

Source	EPN	Authorization/ Registration Number
Local and Remote Landfill Areas – Usable Gypsum Reclaim and Truck Loading Fugitives	E-OGLDLF E-OGRDLF	PBR Registration No. 142258
Unit 1 Stack Unit 2 Stack Portable MTA Hopper No. 1 Portable MTA Hopper No. 2 MTA Silo Vent	E-OGU1 E-OGU2 E-OGMTAH1F E-OGMTAH2F E-OGMTASV	Standard Permit Registration No. 144003
Unit 1 Stack Unit 2 Stack S-Sorb Silo Vent S-Sorb Day Bin Vent Refined Coal Transfer Tower Fugitives Refined Coal Process Tower Fugitives Refined Coal Feed Belt Sampler Fugitives Refined Coal Product Belt Sampler Fugitives	E-OGU1 E-OGU2 E-RCSSSV E-RCSSDBV E-RCTTF E-RCPTF E-RCFBSF E-RCPBSF	Standard Permit Registration No. 147439

Date: September 30, 2022

Attachment A

Permit Numbers 76474 and PSDTX1056

Non-Mercury Metal Concentrations in Coal and Emission Performance Standards

Constituent	Maximum Hourly Emission Performance Standard (lb/MMBtu)	Annual Average Coal Concentration (ppmw)
Antimony	0.000010	5.2
Arsenic	0.000027	4.7
Barium	0.0010	213
Beryllium	0.000011	2.0
Cadmium	0.0000017	0.84
Chromium	0.000049	31
Copper	0.000039	81
Lead	0.000029	20
Manganese	0.0011	169
Nickel	0.000052	14
Selenium	0.000029	18
Vanadium	0.00018	84
Zinc	0.00016	28

Date: September 7, 2017

Attachment B

Permit Numbers 76474 and PSDTX1056

Inherently Low Emitting (ILE) Planned MSS Activities

Planned Maintenance Activity	EPN	Emissions					
		NH_3	VOC	NO_x	CO	PM	SO_2
Miscellaneous particulate filter maintenance[1]	MSS-FUG					x	
Maintenance of storage vessels storing material with vapor pressure ≤0.5 psia	MSS-FUG	x	x				
Boiler general maintenance[2]	MSS-FUG					x	
Sludge Management[3]	MSS-FUG		x				
Inspection, repair, replacement, adjusting, testing, and calibration of analytical equipment and process instruments, including sight glasses, meters, gauges, CEMS, and PEMS	MSS-FUG	x	x	x	x		x
Material handling system maintenance[4]	MSS-FUG					x	
Storage vessel maintenance (>0.5 psia vapor pressure, and not requiring clearing for personnel entry)	MSS-FUG	x	x				
Small equipment and fugitive component repair/replacement in VOC and NH_3 service[5]	MSS-FUG	x	x				

ILE Table Notes:

1. Includes, but is not limited to, baghouse filters, ash silo/transfer filters, coal handling filters, and process-related building air filters.

2. Includes, but is not limited to, fugitive emissions from pre-heater basket handling and maintenance, and refractory change-out.

3. Includes, but is not limited to, management by vacuum truck/dewatering of materials in open pits and ponds, sumps, tanks and other closed or open vessels. Materials managed include water and sludge mixtures containing miscellaneous VOCs such as diesel, lube oil, and other waste oils.

4. Includes, but is not limited to: silos, transport systems, coal bunkers, coal crushing equipment, material handling equipment, feeders, and hoppers. Materials handled include: coal, ash, limestone, and sorbents.

5. Includes, but is not limited to:

(i) repair/replacement of pumps, compressors, valves, pipes, flanges, transport lines, filters and screens in diesel oil, ammonia, lube oil, and gasoline service;

(ii) vehicle and mobile equipment maintenance that may involve small VOC emissions, such as oil changes, transmission service, and hydraulic system service; and

(iii) off-line NO_x control device maintenance, including maintenance of the anhydrous ammonia systems associated with selective catalytic reduction (SCR).

Date: September 7, 2017

Attachment C

Permit Numbers 76474 and PSDTX1056

Non-Inherently Low Emitting (Non-ILE) Planned MSS Activities

Planned Maintenance Activity	EPN	Emissions					
		NH_3	VOC	NO_x	CO	PM	SO_2
Storage vessel maintenance (>0.5 psia vapor pressure and requiring clearing for personnel entry	MSS-FUG	x	x				
Smoke test of boiler fugitives	MSS-FUG			x	x	x	x
Vacuum truck solids loading[1]	MSS-FUG					x	
Vacuum truck solids unloading	MSS-FUG					x	

Non-ILE Table Notes:

1. Includes site-wide solids vacuuming operations, including, but not limited to: furnaces, ducts, fly ash handling equipment, SCR systems, and baghouses.

Date: September 7, 2017

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 76474 and PSDTX1056

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

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
E-OGU1	Pulverized Coal (Lignite) Boiler 8,970 MMBtu/hr	NO_x	1,800	3,143
		SO_2	5,382	7,534
		PM (filter) (5)	135	589
		PM_{10} (filter) (5)	135	589
		$PM_{2.5}$ (filter) (5)	135	589
		PM (total) (5,10)	449	1,572
		PM_{10} (total) (5,10)	449	1,572
		$PM_{2.5}$ (total) (5,10)	449	1,572
		CO	6,100	13,358
		VOC (11)	47	176
		H_2SO_4 (12)	165	481
		NH_3	55	96
		HF (12)	64	140
		HCl (12)	110	241
		Pb (5,13)	0.26	0.38
		Hg	0.93	0.36

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
E-OGU2	Pulverized Coal (Lignite) Boiler 8,970 MMBtu/hr	NO_x	1,800	3,143
		SO_2	5,382	7,534
		PM (filter) (5)	135	589
		PM_{10} (filter) (5)	135	589
		$PM_{2.5}$ (filter) (5)	135	589
		PM (total) (5,10)	449	1,572
		PM_{10} (total) (5,10)	449	1,572
		$PM_{2.5}$ (total) (5,10)	449	1,572
		CO	6,100	13,358
		VOC (11)	47	176
		H_2SO_4 (12)	165	481
		NH_3	55	96
		HF (12)	64	140
		HCl (12)	110	241
		Pb (5,13)	0.26	0.38
		Hg	0.93	0.36
E-OGAB	Natural Gas-Fired Auxiliary Boiler (365 MMBtu/hr) (Phase 2 - 10 percent Annual Capacity Factor)	NO_x (6)	13.1	5.8
		NO_x (7)	36.5	--
		CO (6)	13.5	5.9
		CO (7)	135.0	--
		SO_2	5.1	2.2
		PM	2.7	1.2
		PM_{10}	2.7	1.2
		$PM_{2.5}$	2.7	1.2
		VOC	2.0	0.9

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
E-OGLTHF	Railcar Coal Unloading Building Fugitives (8)	PM	1.34	1.65
		PM_{10}	0.26	0.31
		$PM_{2.5}$	0.26	0.31
E-OGLTHBF	Railcar Coal Unloading - Track Hopper Fugitives (8)	PM	0.01	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGLSILO	Lignite Storage Silo Bin Vent Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGSSPRF	Reclaim from Silo and Stackout Pile Fugitives (8)	PM	0.01	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGLSPF	Lignite Stackout Pile Fugitives (8)	PM	0.16	0.21
		PM_{10}	0.03	0.04
		$PM_{2.5}$	0.03	0.04
E-OGCHBV	Lignite Crusher House Surge Bin Vent Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGCHF	Lignite Crusher House Fugitives (8)	PM	1.20	2.25
		PM_{10}	0.23	0.43
		$PM_{2.5}$	0.23	0.43
E-OGSBTTBV	Surge Bin Transfer Tower Bin Vent Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
E-OGSBTTF	Surge Bin Transfer Tower Fugitives (8)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGTT4F	Transfer Tower 4 Fugitives (8)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGU1SSV	Unit 1 South Side Tripper House Baghouse Vent	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGTT2F	Transfer Tower 2 Fugitives (8)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGU1NSV	Unit 1 North Side Tripper House Baghouse Vent	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGU2SSV	Unit 2 South Side Tripper House Baghouse Vent	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGTT3F	Transfer Tower 3 Fugitives (8)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGU2NSV	Unit 2 North Side Tripper House Baghouse Vent	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
E-OGLDSPF	Lignite Dead Storage Pile Dust Fugitive (8)	PM	2.28	3.33
		PM_{10}	0.43	0.63
		$PM_{2.5}$	0.05	0.07
E-OGLSSF	Limestone Storage Shed Fugitives (8)	PM	0.11	0.16
		PM_{10}	0.05	0.08
		$PM_{2.5}$	0.05	0.08
E-OGSLSAF	Secondary Limestone Storage Pile Dust Fugitives (8)	PM	1.49	2.17
		PM_{10}	0.75	1.09
		$PM_{2.5}$	0.75	1.09
E-OGLSPRF	Limestone Storage Reclaim Belt Fugitives (8)	PM	0.02	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGLSSB1V	Limestone Storage Silo 1 Bin Vent Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGLSSB2V	Limestone Storage Silo 2 Bin Vent Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGLSSB3F	Limestone Storage Conveyor Transfer Fugitives (8)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGSSSV	Sorbent Storage Silo Baghouse Vent	PM	0.06	0.24
		PM_{10}	0.06	0.24
		$PM_{2.5}$	0.06	0.24

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
E-OGVS1V1	Unit 1 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89
		PM_{10}	0.07	0.31
		$PM_{2.5}$	0.07	0.31
E-OGVS1V2	Unit 1 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89
		PM_{10}	0.07	0.31
		$PM_{2.5}$	0.07	0.31
E-OGVS1V3	Unit 1 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89
		PM_{10}	0.07	0.31
		$PM_{2.5}$	0.07	0.31
E-OGFAS1V1	Fly Ash Silo 1 Bin Vent Filter	PM	0.99	1.80
		PM_{10}	0.36	0.63
		$PM_{2.5}$	0.36	0.63
E-OGSLS1V	Fly Ash Silo 1 Loading Spout Baghouse Vent	PM	0.03	0.11
		PM_{10}	0.03	0.11
		$PM_{2.5}$	0.03	0.11
E-OGWFAU1F	Fly Ash Silo 1 Loading Dust Fugitive (8)	PM	0.03	0.06
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGVS2V1	Unit 2 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89
		PM_{10}	0.07	0.31
		$PM_{2.5}$	0.07	0.31
E-OGVS2V2	Unit 2 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89
		PM_{10}	0.07	0.31
		$PM_{2.5}$	0.07	0.31

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
E-OGVS2V3	Unit 2 Fly Ash Filter Separators Baghouse Vent	PM	0.20	0.89
		PM_{10}	0.07	0.31
		$PM_{2.5}$	0.07	0.31
E-OGLDLF E-OGRDLF	Landfill Areas - Active Working Faces - Dust Fugitive (8)	PM	0.26	1.16
		PM_{10}	0.14	0.58
		$PM_{2.5}$	0.14	0.58
E-OGLDLF E-OGRDLF	Landfill Areas - Inactive Working Faces - Dust Fugitive (8)	PM	0.08	0.32
		PM_{10}	0.04	0.16
		$PM_{2.5}$	0.04	0.16
E-OGGHSF	Gypsum Handling System Dust Fugitive (8)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
E-OGAMM	Ammonia Fugitive (8)	NH_3	0.04	0.19
MSS-FUG	MSS-FUG (9)	PM	1.48	0.49
		PM_{10}	0.95	0.29
		$PM_{2.5}$	0.37	0.10
		NH_3	10.33	0.15
		VOC	21.08	0.14
		NO_x	<0.01	<0.01
		CO	<0.01	<0.01
		SO_2	<0.01	<0.01
E-OGSRFF	Surface Reclaim Feeder Fugitives (8)	PM	0.29	0.66
		PM_{10}	0.06	0.12
		$PM_{2.5}$	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
E-OGSRBF	Surface Reclaim Breaker Fugitives (8)	PM	1.50	3.36
		PM_{10}	0.29	0.64
		$PM_{2.5}$	0.03	0.07
E-OGSRCF	Surface Reclaim Conveyor Fugitives (8)	PM	0.29	0.66
		PM_{10}	0.06	0.12
		$PM_{2.5}$	0.01	0.01

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC -volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x -total oxides of nitrogen
SO_2 -sulfur dioxide
PM -particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
PM_{10} -particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$
$PM_{2.5}$ -direct particulate matter equal to or less than 2.5 microns in diameter
CO -carbon monoxide
H_2SO_4 -sulfuric acid mist
NH_3 -ammonia
HF -hydrogen fluoride
HCl -hydrogen chloride
Pb -lead
Hg -mercury

(4) Except as otherwise specified in special conditions, annual emission rates are based on continuous operation (24 hours/day, 7 days/week, 52 weeks/year, or 8,760 hours/year). For combustion sources and storage tanks, compliance with annual emission limits is based on a rolling 12-month period. For material handling sources, compliance with annual emission limits is based on applicable special conditions and permit application representations.
(5) Compliance with the hourly emission limit is based on a three-hour block average of the CEMS data.
(6) Hourly limit applies when auxiliary boiler is operating at or above 25 percent load.
(7) Hourly limit applies when auxiliary boiler is operating below 25 percent load and during startup and shutdown.
(8) Fugitive emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
(9) Includes inherently low emitting (ILE) and non-ILE fugitive emissions from sources and activities listed on Attachments B and C. Emission rates are an estimate and are enforceable through compliance with the applicable special conditions and permit application representations.
(10) Compliance with the PM/PM_{10} (total) emission limits will be demonstrated if CEMS data shows that neither SO_2 emissions nor filterable PM emissions exceed their limits.
(11) Compliance with the VOC emission limits will be demonstrated if CEMS data shows that CO emissions do not exceed their limits.
(12) Compliance with the H_2SO_4, HF, and HCl emission limits will be demonstrated if CEMS data shows that SO_2 emissions do not exceed their limits,
(13) Compliance with the lead emission limits will be demonstrated if CEMS data shows that filterable PM emissions do not exceed their limits.

Emission Sources - Maximum Allowable Emission Rates

(14) The pounds per hour and tons per year emission rate limits for these units apply to MSS operation, as well as normal operation of the unit, except as otherwise stated in these footnotes.

Date: September 16, 2022