

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

Southwestern Electric Power Company

AUTHORIZING THE OPERATION OF

Welsh Power Plant  
Electric Services

LOCATED AT

Titus County, Texas

Latitude 33° 3' 10" Longitude 94° 50' 57"

Regulated Entity Number: RN100213370

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:   O26   Issuance Date: \_\_\_\_\_

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For the Commission

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## **General Terms and Conditions**

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

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

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

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

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

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

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

- C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
- D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
- E. The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUUUU and 30 TAC Chapter 113, Subchapter C, § 113.1300 for the units in GRPBOILER by April 16, 2016. This is a one year extension of the compliance date granted in accordance with § 63.6(i)(4)(i)(A). The permit holder shall comply with the emission control installations, compliance schedule, and notification requirements contained in the Alternative Requirements attachment of this permit. The permit holder shall maintain the original documentation from the TCEQ Executive Director granting the compliance extension. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144. No later than April 16, 2016, the permit holder shall submit a revision application to codify the requirements in the permit.
- F. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
- G. 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 § 101.375 (relating to Emission Reductions Achieved Outside the United States)
  - (v) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)

- (vi) 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<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
  - (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
  - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
  - (3) Records of all observations shall be maintained.
  - (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25

mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) 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<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
  - (1) An observation of visible emissions from a 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) 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<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
    - (1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
    - (2) Records of all observations shall be maintained.
    - (3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset.

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

(4) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) 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(7) (relating to Control Requirements)

- (ii) Title 30 TAC § 115.222(3), as it applies to liquid gasoline leaks
  - (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks
- 5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
  - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
  - B. Title 40 CFR § 60.8 (relating to Performance Tests)
  - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
  - D. Title 40 CFR § 60.12 (relating to Circumvention)
  - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
  - F. Title 40 CFR § 60.14 (relating to Modification)
  - G. Title 40 CFR § 60.15 (relating to Reconstruction)
  - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
- 6. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

### **Additional Monitoring Requirements**

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

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

9. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
- A. Are incorporated by reference into this permit as applicable requirements
  - B. Shall be located with this operating permit
  - C. Are not eligible for a permit shield

10. 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.
11. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, material safety data sheets (MSDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144.
  - A. If applicable, monitoring of control device performance or general work practice standards shall be made in accordance with the TCEQ Periodic Monitoring Guidance document.
  - B. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).
12. 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. Applicable requirements of 30 TAC § 116.617 for Pollution Control Projects based on the information contained in the registration application.
  - D. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects

### **Compliance Requirements**

13. 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.

14. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
  - A. The permit holder shall comply with the compliance schedule as required in 30 TAC § 117.9300 for electric utilities in East and Central Texas.
15. 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
16. The permit holder may comply with the following 30 TAC Chapter 101, Subchapter H, Division 5 (System Cap Trading) Requirements for an electric generating facility participating in a system cap:
  - A. Title 30 TAC § 101.383 (relating to General Provisions)
  - B. Title 30 TAC § 101.385 (relating to Recordkeeping and Reporting)

## **Protection of Stratospheric Ozone**

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

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

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

## **Permit Location**

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

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

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

this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

### **Acid Rain Permit Requirements**

21. For units W-1, W-2, and W-3 (identified in the Certificate of Representation as units 1, 2, and 3), located at the affected source identified by ORIS/Facility code 6139, the designated representative and the owner or operator, as applicable, shall comply with the following Acid Rain Permit requirements.
  - A. General Requirements
    - (i) Under 30 TAC § 122.12(1) and 40 CFR Part 72, the Acid Rain Permit requirements contained here are a separable portion of the Federal Operating Permit (FOP) and have an independent public comment process which may be separate from, or combined with the FOP.
    - (ii) The owner and operator shall comply with the requirements of 40 CFR Part 72 and 40 CFR Part 76. Any noncompliance with the Acid Rain Permit will be considered noncompliance with the FOP and may be subject to enforcement action.
    - (iii) The owners and operators of the affected source shall operate the source and the unit in compliance with the requirements of this Acid Rain Permit and all other applicable State and federal requirements.
    - (iv) The owners and operators of the affected source shall comply with the General Terms and Conditions of the FOP that incorporates this Acid Rain Permit.
    - (v) The term for the Acid Rain permit shall commence with the issuance of the FOP that incorporates the Acid Rain permit and shall be run concurrent with the remainder of the term of the FOP. Renewal of the Acid Rain permit shall coincide with the renewal of the FOP that incorporates the Acid Rain permit and subsequent terms shall be no more than five years from the date of renewal of the FOP and run concurrent with the permit term of the FOP.
  - B. Monitoring Requirements
    - (i) The owners and operators, and the designated representative, of the affected source and each affected unit at the source shall comply with the monitoring requirements contained 40 CFR Part 75.

- (ii) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 and any other credible evidence shall be used to determine compliance by the affected source with the acid rain emissions limitations and emissions reduction requirements for SO<sub>2</sub> and NO<sub>x</sub> under the ARP.
- (iii) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emission of other pollutants or other emissions characteristics at the unit under other applicable requirements of the FCAA Amendments (42 U.S.C. 7401, as amended November 15, 1990) and other terms and conditions of the operating permit for the source.

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

- (i) The owners and operators of each source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for SO<sub>2</sub>.
- (ii) As of the allowance transfer deadline the owners and operators of the affected source and each affected unit at the source shall hold, in the unit's compliance subaccount, allowances in an amount not less than the total annual emissions of SO<sub>2</sub> for the previous calendar year.
- (iii) Each ton of SO<sub>2</sub> emitted in excess of the acid rain emissions limitations for SO<sub>2</sub> shall constitute a separate violation of the FCAA amendments.
- (iv) An affected unit shall be subject to the requirements under (i) and (ii) of the SO<sub>2</sub> emissions requirements as follows:
  - (1) Starting January 1, 2000, an affected unit under 40 CFR § 72.6(a)(2); or
  - (2) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR Part 75, an affected unit under 40 CFR § 72.6(a)(3).
- (v) Allowances shall be held in, deducted from, or transferred into or among Allowance Tracking System accounts in accordance with the requirements of the ARP.
- (vi) An allowance shall not be deducted, for compliance with the requirements of this permit, in a calendar year before the year for which the allowance was allocated.

- (vii) An allowance allocated by the EPA Administrator or under the ARP is a limited authorization to emit SO<sub>2</sub> in accordance with the ARP. No provision of the ARP, Acid Rain permit application, this Acid Rain Permit, or an exemption under 40 CFR §§ 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (viii) An allowance allocated by the EPA Administrator under the ARP does not constitute a property right.

D. NO<sub>x</sub> Emission Requirements

- (i) The owners and operators of the source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for NO<sub>x</sub> under 40 CFR Part 76.

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

- (i) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77.
- (ii) If an affected source has excess emissions in any calendar year shall, as required by 40 CFR Part 77:
  - (1) Pay, without demand, the penalty required and pay, upon demand, the interest on that penalty.
  - (2) Comply with the terms of an approved offset plan.

F. Recordkeeping and Reporting Requirements

- (i) Unless otherwise provided, the owners and operators of the affected source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the EPA Administrator.
  - (1) The certificate of representation for the designated representative for the source and each affected unit and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR § 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative.

- (2) All emissions monitoring information, in accordance with 40 CFR Part 75, provided that to the extent that 40 CFR Part 75 provides for a 3-year period for recordkeeping (rather than a five-year period cited in 30 TAC § 122.144), the 3-year period shall apply.
  - (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the ARP or relied upon for compliance certification.
  - (4) Copies of all documents used to complete an acid rain permit application and any other submission under the ARP or to demonstrate compliance with the requirements of the ARP.
- (ii) The designated representative of an affected source and each affected unit at the source shall submit the reports required under the ARP including those under 40 CFR Part 72, Subpart I and 40 CFR Part 75.

G. Liability

- (i) Any person who knowingly violates any requirement or prohibition of the ARP, a complete acid rain permit application, an acid rain permit, or a written exemption under 40 CFR §§ 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to FCAA § 113(c).
- (ii) Any person who knowingly makes a false, material statement in any record, submission, or report under the ARP shall be subject to criminal enforcement pursuant to FCAA § 113(c) and 18 U.S.C. 1001.
- (iii) No permit revision shall excuse any violation of the requirements of the ARP that occurs prior to the date that the revision takes effect.
- (iv) The affected source and each affected unit shall meet the requirements of the ARP contained in 40 CFR Parts 72 through 78.
- (v) Any provision of the ARP that applies to an affected source or the designated representative of an affected source shall also apply to the owners and operators of such source and of the affected units at the source.
- (vi) Any provision of the ARP that applies to an affected unit (including a provision applicable to the DR of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR § 72.44 (Phase II repowering extension plans) and

40 CFR § 76.11 (NO<sub>x</sub> averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR §§ 75.16, 75.17, and 75.18), the owners and operators and the DR of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the DR and that is located at a source of which they are not owners or operators or the DR.

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

H. Effect on other authorities. No provision of the ARP, an acid rain permit application, an acid rain permit, or an exemption under 40 CFR §§ 72.7 or 72.8 shall be construed as:

(i) Except as expressly provided in Title IV of the FCAA Amendments, exempting or excluding the owners and operators and, to the extent applicable, the DR of an affected source or affected unit from compliance with any other provision of the FCAA Amendments, including the provisions of Title I of the FCAA Amendments relating to applicable National Ambient Air Quality Standards or State Implementation Plans.

(ii) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the FCAA Amendments.

(iii) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law.

(iv) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(v) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established.

I. The number of SO<sub>2</sub> allowances allocated by the EPA in 40 CFR Part 73 is enforceable only by the EPA Administrator.

## Clean Air Interstate Rule Permit Requirements

22. For units W-1, W-2, and W-3 (identified in the Certificate of Representation as units 1, 2, and 3), located at the site identified by ORIS/Facility code 6139, the designated representative and the owner or operator, as applicable, shall comply with the following Clean Air Interstate Rule (CAIR) Permit requirements. Until approval of the Texas CAIR SIP by EPA, the permit holder shall comply with the equivalent requirements of 40 CFR Part 97 in place of the referenced 40 CFR Part 96 requirements in the Texas CAIR permit and 30 TAC Chapter 122 requirements.

### A. General Requirements

- (i) Under 30 TAC § 122.420(b) and 40 CFR §§ 96.120(b) and 96.220(b) the CAIR Permit requirements contained here are a separable portion of the Federal Operating Permit (FOP).
- (ii) The owners and operators of the CAIR NO<sub>x</sub> and the CAIR SO<sub>2</sub> source shall operate the source and the unit in compliance with the requirements of this CAIR permit and all other applicable State and federal requirements.
- (iii) The owners and operators of the CAIR NO<sub>x</sub> and the CAIR SO<sub>2</sub> source shall comply with the General Terms and Conditions of the FOP that incorporates this CAIR Permit.
- (iv) The term for the initial CAIR permit shall commence with the issuance of the revision containing the CAIR permit and shall be the remaining term for the FOP that incorporates the CAIR permit. Renewal of the initial CAIR permit shall coincide with the renewal of the FOP that incorporates the CAIR permit and subsequent terms shall be no more than five years from the date of renewal of the FOP and run concurrent with the permit term of the FOP.

### B. Monitoring and Reporting Requirements

- (i) The owners and operators, and the CAIR designated representative, of the CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements contained 40 CFR Part 96, Subpart HH.
- (ii) The owners and operators, and the CAIR designated representative, of the CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements contained 40 CFR Part 96, Subpart HHH.
- (iii) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HH and any other credible evidence

shall be used to determine compliance by the CAIR NO<sub>x</sub> source with the CAIR NO<sub>x</sub> emissions limitation.

- (iv) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH and any other credible evidence shall be used to determine compliance by the CAIR SO<sub>2</sub> source with the CAIR SO<sub>2</sub> emissions limitation.

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

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

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

- (i) If a CAIR NO<sub>x</sub> source emits nitrogen oxides during any control period in excess of the CAIR NO<sub>x</sub> emissions limitation, the owners and operators of the source and each CAIR NO<sub>x</sub> unit at the source shall surrender the CAIR NO<sub>x</sub> allowances required for deduction under 40 CFR § 96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law.
- (ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AA, the Clean Air Act, and applicable State law.

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

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

- (vi) A CAIR SO<sub>2</sub> allowance does not constitute a property right.
- (vii) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FFF or Subpart GGG, every allocation, transfer, or deduction of a CAIR SO<sub>2</sub> allowance to or from a CAIR SO<sub>2</sub> unit's compliance account is incorporated automatically in this CAIR permit.

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

- (i) If a CAIR SO<sub>2</sub> source emits sulfur dioxides during any control period in excess of the CAIR SO<sub>2</sub> emissions limitation, the owners and operators of the source and each CAIR SO<sub>2</sub> unit at the source shall surrender the CAIR SO<sub>2</sub> allowances required for deduction under 40 CFR § 96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law.
- (ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAA, the Clean Air Act, and applicable State law.

G. Recordkeeping and Reporting Requirements

- (i) Unless otherwise provided, the owners and operators of the CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source and the CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the Administrator.
  - (1) The certificate of representation under 40 CFR §§ 96.113 and 96.213 for the CAIR NO<sub>x</sub> designated representative for the source and each CAIR NO<sub>x</sub> unit and the CAIR SO<sub>2</sub> designated representative for the source and each CAIR SO<sub>2</sub> unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5 year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR §§ 96.113 and 96.213 changing the CAIR designated representative.
  - (2) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HH and Subpart HHH, provided that to the extent that these subparts provide for a 3-year period for recordkeeping, the 3-year period shall apply.

- (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO<sub>x</sub> Annual Trading Program and CAIR SO<sub>2</sub> Trading Program or relied upon for compliance determinations.
  - (4) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO<sub>x</sub> Annual Trading Program and CAIR SO<sub>2</sub> Trading Program or to demonstrate compliance with the requirements of the CAIR NO<sub>x</sub> Annual Trading Program and CAIR SO<sub>2</sub> Trading Program.
- (ii) The CAIR designated representative of a CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source and a CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall submit the reports required under the CAIR NO<sub>x</sub> Annual Trading Program and the CAIR SO<sub>2</sub> Trading Program including those under 40 CFR Part 96, Subpart HH and Subpart HHH.
- H. The CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit shall meet the requirements of the CAIR NO<sub>x</sub> Annual Trading Program contained in 40 CFR Part 96, Subparts AA through II.
- I. The CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit shall meet the requirements of the CAIR SO<sub>2</sub> Trading Program contained in 40 CFR Part 96, Subparts AAA through III.
- J. Any provision of the CAIR NO<sub>x</sub> Annual Trading Program and the CAIR SO<sub>2</sub> Trading Program that applies to a CAIR NO<sub>x</sub> source or CAIR SO<sub>2</sub> source or the CAIR designated representative of a CAIR NO<sub>x</sub> source or CAIR SO<sub>2</sub> source shall also apply to the owners and operators of such source and the units at the source.
- K. Any provision of the CAIR NO<sub>x</sub> Annual Trading Program and the CAIR SO<sub>2</sub> Trading Program that applies to a CAIR NO<sub>x</sub> unit or CAIR SO<sub>2</sub> unit or the CAIR designated representative of a CAIR NO<sub>x</sub> unit or CAIR SO<sub>2</sub> unit shall also apply to the owners and operators of such unit.
- L. No provision of the CAIR NO<sub>x</sub> Annual Trading Program, CAIR SO<sub>2</sub> Trading Program, a CAIR permit application, a CAIR permit, or an exemption under 40 CFR §§ 96.105 or 96.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO<sub>x</sub> source or CAIR NO<sub>x</sub> unit or a CAIR SO<sub>2</sub> source or CAIR SO<sub>2</sub> unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

## **Attachments**

**Applicable Requirements Summary**

**Additional Monitoring Requirements**

**Permit Shield**

**New Source Review Authorization References**

**Alternative Requirement**

### **Applicable Requirements Summary**

**Unit Summary ..... 27**

**Applicable Requirements Summary .....30**

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/<br>Process ID No. | Unit Type   | Group/Inclusive<br>Units | SOP Index No. | Regulation                                       | Requirement Driver  |
|-------------------------------|---|--------------------------|---------------|--|---|
| GRPBOILER                     | BOILERS/STEAM<br>GENERATORS/STEAM<br>GENERATING UNITS | W-1, W-2, W-3            | 153-A         | 30 TAC Chapter 111,<br>Nonagricultural Processes | Source Type = Oil or gas fuel-<br>fired steam generator with a heat<br>input greater than 2,500 million<br>Btu per hour.  |
| GRPBOILER                     | BOILERS/STEAM<br>GENERATORS/STEAM<br>GENERATING UNITS | W-1, W-2, W-3            | 153-B         | 30 TAC Chapter 111,<br>Nonagricultural Processes | Source Type = Solid fossil fuel-<br>fired steam generator.  |
| GRPBOILER                     | BOILERS/STEAM<br>GENERATORS/STEAM<br>GENERATING UNITS | W-1, W-2, W-3            | 112-A         | 30 TAC Chapter 112,<br>Sulfur Compounds          | FUEL TYPE = Liquid fuel.,<br>HEAT INPUT = Design heat<br>input is greater than 250<br>MMBtu/hr., STACK HEIGHT =<br>The effective stack height is at<br>least the standard effective stack<br>height for each stack to which the<br>unit routes emissions. |
| GRPBOILER                     | BOILERS/STEAM<br>GENERATORS/STEAM<br>GENERATING UNITS | W-1, W-2, W-3            | 112-B         | 30 TAC Chapter 112,<br>Sulfur Compounds          | FUEL TYPE = Solid fossil fuel.,<br>HEAT INPUT = Design heat<br>input is greater than 1500<br>MMBtu/hr.  |
| GRPBOILER                     | BOILERS/STEAM<br>GENERATORS/STEAM<br>GENERATING UNITS | W-1, W-2, W-3            | 117-B         | 30 TAC Chapter 117,<br>Subchapter E, Division 1  | No changing attributes.   |
| GRPBOILER                     | BOILERS/STEAM<br>GENERATORS/STEAM<br>GENERATING UNITS | W-1, W-2, W-3            | 60D-B         | 40 CFR Part 60, Subpart<br>D                     | D-SERIES FUEL TYPE #1 =<br>Solid fossil fuel.   |
| GRPBOILER                     | BOILERS/STEAM<br>GENERATORS/STEAM<br>GENERATING UNITS | W-1, W-2, W-3            | 60D-C         | 40 CFR Part 60, Subpart<br>D                     | D-SERIES FUEL TYPE #1 =<br>Liquid fossil fuel.  |

### Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type   | Group/Inclusive<br>Units                       | SOP Index No. | Regulation                               | Requirement Driver  |
|-------------------------------|---|--|---------------|--|---|
| GRPBOILER                     | BOILERS/STEAM<br>GENERATORS/STEAM<br>GENERATING UNITS   | W-1, W-2, W-3                                  | 60D-D         | 40 CFR Part 60, Subpart<br>D             | D-SERIES FUEL TYPE #1 =<br>Liquid fossil fuel., D-SERIES<br>FUEL TYPE #2 = Solid fossil<br>fuel.  |
| GRPCOALSYS                    | COAL PREPARATION<br>PLANTS                              | W-10, W-11, W-12,<br>W-13, W-14, W-15,<br>W-16 | 60Y           | 40 CFR Part 60, Subpart<br>Y             | No changing attributes.   |
| GRPSTACK                      | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS<br>VENTS | W-1, W-2, W-3                                  | 111-B         | 30 TAC Chapter 111,<br>Visible Emissions | Vent Source = The source of the<br>vent is a steam generator fired by<br>solid fossil fuel., Annual ACF =<br>Annual average capacity factor is<br>greater than 30%, but was not<br>reportable to the Federal Power<br>Commission for calendar year<br>1974.   |
| GRPSTACK                      | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS<br>VENTS | W-1, W-2, W-3                                  | 111-C         | 30 TAC Chapter 111,<br>Visible Emissions | Vent Source = The source of the<br>vent is a steam generator that<br>burns oil or a mixture of oil and<br>gas., SIP Violation = The source<br>is not able to comply with<br>applicable periodic monitoring<br>(PM) and opacity regulations<br>without the use of PM collection<br>equipment and has been found<br>to be in violation of any visible<br>emission standard in a State<br>Implementation Plan. |
| GRPSTACK                      | EMISSION<br>POINTS/STATIONARY                           | W-1, W-2, W-3                                  | 111-D         | 30 TAC Chapter 111,<br>Visible Emissions | Vent Source = The source of the<br>vent is not a steam generator  |

### Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type              | Group/Inclusive<br>Units | SOP Index No. | Regulation                   | Requirement Driver  |
|-------------------------------|------------------------|--------------------------|---------------|------------------------------|---|
|                               | VENTS/PROCESS<br>VENTS |                          |               |                              | 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., Annual ACF = Annual average capacity factor is greater than 30%, but was not reportable to the Federal Power Commission for calendar year 1974. |
| EDG-1                         | SRIC ENGINES           | N/A                      | 60III-A       | 40 CFR Part 60, Subpart III  | No changing attributes.   |
| EDG-1                         | SRIC ENGINES           | N/A                      | 63ZZZZ        | 40 CFR Part 63, Subpart ZZZZ | No changing attributes.   |
| FP-1                          | SRIC ENGINES           | N/A                      | 60III-A       | 40 CFR Part 60, Subpart III  | No changing attributes.   |
| FP-1                          | SRIC ENGINES           | N/A                      | 63ZZZZ        | 40 CFR Part 63, Subpart ZZZZ | No changing attributes.   |
| GRPENGINE                     | SRIC ENGINES           | EDG-2, EDG-3             | 63ZZZZ        | 40 CFR Part 63, Subpart ZZZZ | No changing attributes.   |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant       | State Rule or Federal Regulation Name         | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements              | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------------|---|---|--|--|---|---|
| GRPBOILER                 | EU                      | 153-A         | PM              | 30 TAC Chapter 111, Nonagricultural Processes | § 111.153(c)  | No person may cause, suffer, allow, or permit emissions of particulate matter from any oil or gas fuel-fired steam generator with a heat input greater than 2,500 million Btu per hour to exceed 0.1 pound of total suspended particulate per million Btu input averaged over a two-hour period. | ** See CAM Summary                               | None  | None                                      |
| GRPBOILER                 | EU                      | 153-B         | 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                                      |
| GRPBOILER                 | EU                      | 112-A         | SO <sub>2</sub> | 30 TAC Chapter 112, Sulfur Compounds          | § 112.9(a)  | No person may cause, suffer, allow, or permit emissions of SO <sub>2</sub> from any liquid fuel-fired steam generator, furnace, or heater to exceed 440 ppmv at actual stack conditions and averaged over 3-hours.   | § 112.2(a)<br>** See Periodic Monitoring Summary | § 112.2(c)                                    | § 112.2(b)                                |
| GRPBOILER                 | EU                      | 112-B         | SO <sub>2</sub> | 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 SO <sub>2</sub> from solid fossil fuel-fired steam generators to exceed 3.0 lb/MMBtu  | § 112.2(a)<br>** See Periodic Monitoring Summary | § 112.2(c)                                    | § 112.2(b)                                |

## Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant       | State Rule or Federal Regulation Name        | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements  | Recordkeeping Requirements<br>(30 TAC § 122.144)   | Reporting Requirements<br>(30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|-----------------|--|---|---|--|--|---|
|                           |                         |               |                 |  |   | heat input averaged over a 3-hour period.   |  |  |   |
| GRPBOILER                 | EU                      | 117-B         | NO <sub>x</sub> | 30 TAC Chapter 117, Subchapter E, Division 1 | § 117.3020(c)<br>§ 117.3020(a)<br>§ 117.3020(b)<br>§ 117.3020(d)<br>§ 117.3020(e)<br>§ 117.3020(i)<br>§ 117.3020(j)<br>§ 117.3020(k)<br>§ 117.3020(l) | The annual average emission cap shall be calculated using the following equation.   | § 117.3020(d)<br>§ 117.3020(e)<br>[G]§ 117.3020(e)(1)<br>§ 117.3020(h)<br>§ 117.3020(k)<br>§ 117.3040(a)<br>§ 117.3040(d)<br>§ 117.3040(d)(1)<br>[G]§ 117.3040(d)(2)<br>[G]§ 117.3040(d)(3)<br>§ 117.3040(h)<br>§ 117.3040(h)(1) | § 117.3020(f)<br>§ 117.3045(a)<br>[G]§ 117.3045(e) | § 117.3020(g)<br>§ 117.3045(b)<br>§ 117.3045(b)(1)<br>§ 117.3045(b)(2)<br>[G]§ 117.3045(c)<br>[G]§ 117.3045(d)<br>[G]§ 117.3054(a)<br>[G]§ 117.3054(b)<br>§ 117.3054(c)<br>§ 117.3056 |
| GRPBOILER                 | EU                      | 60D-B         | PM              | 40 CFR Part 60, Subpart D                    | § 60.42(a)(1)   | On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue. | § 60.46(a)<br>§ 60.46(b)(1)<br>[G]§ 60.46(b)(2)<br>[G]§ 60.46(d)(1)<br>§ 60.46(d)(2)<br>[G]§ 60.46(d)(3)<br>§ 60.46(d)(6)<br>§ 60.46(d)(7)<br>** See CAM Summary   | None   | None  |
| GRPBOILER                 | EU                      | 60D-B         | PM (OPACITY)    | 40 CFR Part 60, Subpart D                    | § 60.42(a)(2)   | On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.              | § 60.45(a)<br>§ 60.45(c)<br>§ 60.45(c)(3)<br>§ 60.45(g)<br>§ 60.45(g)(1)<br>§ 60.46(a)<br>§ 60.46(b)(3)  | None   | § 60.45(g)  |
| GRPBOILER                 | EU                      | 60D-B         | SO <sub>2</sub> | 40 CFR Part 60, Subpart D                    | § 60.43(a)(2)   | On/after the §60.8 tests, no affected facility shall emit gases containing SO <sub>2</sub> in excess of 520 ng/J heat   | § 60.45(a)<br>§ 60.45(c)<br>§ 60.45(c)(1)<br>§ 60.45(c)(2)   | None   | § 60.45(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) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|---|--|---|---|
|                           |                         |               |                 |                                       |   | input (1.2 lb/MMBtu) derived from solid fossil fuel or solid fossil fuel and wood residue.  | § 60.45(c)(3)<br>§ 60.45(c)(3)(i)<br>§ 60.45(c)(3)(ii)<br>[G]§ 60.45(e)<br>[G]§ 60.45(f)<br>§ 60.45(g)<br>§ 60.45(g)(2)(i)<br>§ 60.46(a)<br>§ 60.46(b)(1)<br>[G]§ 60.46(b)(4)<br>[G]§ 60.46(d)(1)<br>[G]§ 60.46(d)(3)<br>§ 60.46(d)(4)<br>§ 60.46(d)(6)<br>§ 60.46(d)(7)   |   |   |
| GRPBOILER                 | EU                      | 60D-B         | NO <sub>x</sub> | 40 CFR Part 60, Subpart D             | § 60.44(a)(3)   | On/after the §60.8 tests, no affected facility shall emit gases containing NO <sub>x</sub> , expressed as NO <sub>2</sub> , in excess of 300 ng/J heat input (0.7 lb/MMBtu) derived from the specified fuels. | § 60.45(a)<br>§ 60.45(b)(3)<br>§ 60.45(c)<br>§ 60.45(c)(1)<br>§ 60.45(c)(2)<br>§ 60.45(c)(3)<br>§ 60.45(c)(3)(i)<br>§ 60.45(c)(3)(ii)<br>[G]§ 60.45(e)<br>[G]§ 60.45(f)<br>§ 60.45(g)<br>§ 60.45(g)(3)<br>§ 60.45(g)(3)(i)<br>§ 60.46(a)<br>§ 60.46(b)(1)<br>[G]§ 60.46(b)(5)<br>[G]§ 60.46(d)(1)<br>§ 60.46(d)(5)<br>§ 60.46(d)(6)<br>§ 60.46(d)(7) | None  | § 60.45(g)                                |
| GRPBOILER                 | EU                      | 60D-C         | PM              | 40 CFR Part 60, Subpart D             | § 60.42(a)(1)   | On/after the §60.8 tests, no affected facility shall emit gases containing  | § 60.46(a)<br>§ 60.46(b)(1)<br>[G]§ 60.46(b)(2)  | 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) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|---|--|---|---|
|                           |                         |               |                 |                                       |   | particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.  | [G]§ 60.46(d)(1)<br>§ 60.46(d)(2)<br>[G]§ 60.46(d)(3)<br>§ 60.46(d)(6)<br>§ 60.46(d)(7)<br>** See CAM Summary  |   |   |
| GRPBOILER                 | EU                      | 60D-C         | PM (OPACITY)    | 40 CFR Part 60, Subpart D             | § 60.42(a)(2)   | On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.                          | § 60.45(a)<br>§ 60.45(c)<br>§ 60.45(c)(3)<br>§ 60.45(g)<br>§ 60.45(g)(1)<br>§ 60.46(a)<br>§ 60.46(b)(3)  | None  | § 60.45(g)                                |
| GRPBOILER                 | EU                      | 60D-C         | SO <sub>2</sub> | 40 CFR Part 60, Subpart D             | § 60.43(a)(1)   | On/after the §60.8 tests, no affected facility shall emit gases containing SO <sub>2</sub> in excess of 340 ng/J heat input (0.80 lb/MMBtu) derived from liquid fossil fuel or liquid fossil fuel and wood residue. | § 60.45(a)<br>§ 60.45(c)<br>§ 60.45(c)(1)<br>§ 60.45(c)(2)<br>§ 60.45(c)(3)<br>§ 60.45(c)(3)(i)<br>§ 60.45(c)(3)(ii)<br>[G]§ 60.45(e)<br>[G]§ 60.45(f)<br>§ 60.45(g)<br>§ 60.45(g)(2)(i)<br>§ 60.46(a)<br>§ 60.46(b)(1)<br>[G]§ 60.46(b)(4)<br>[G]§ 60.46(d)(1)<br>[G]§ 60.46(d)(3)<br>§ 60.46(d)(4)<br>§ 60.46(d)(6)<br>§ 60.46(d)(7) | None  | § 60.45(g)                                |
| GRPBOILER                 | EU                      | 60D-C         | NO <sub>x</sub> | 40 CFR Part 60, Subpart D             | § 60.44(a)(2)   | On/after the §60.8 tests, no affected facility shall emit gases containing NO <sub>x</sub> ,  | § 60.45(a)<br>§ 60.45(b)(3)<br>§ 60.45(c)  | None  | § 60.45(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) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|---|---|---|---|
|                           |                         |               |                 |                                       |   | expressed as NO <sub>2</sub> , in excess of 129 ng/J heat input (0.3 lb/MMBtu) derived from the specified fuels.  | § 60.45(c)(1)<br>§ 60.45(c)(2)<br>§ 60.45(c)(3)<br>§ 60.45(c)(3)(i)<br>§ 60.45(c)(3)(ii)<br>[G]§ 60.45(e)<br>[G]§ 60.45(f)<br>§ 60.45(g)<br>§ 60.45(g)(3)<br>§ 60.45(g)(3)(i)<br>§ 60.46(a)<br>§ 60.46(b)(1)<br>[G]§ 60.46(b)(5)<br>[G]§ 60.46(d)(1)<br>§ 60.46(d)(5)<br>§ 60.46(d)(6)<br>§ 60.46(d)(7) |   |   |
| GRPBOILER                 | EU                      | 60D-D         | PM              | 40 CFR Part 60, Subpart D             | § 60.42(a)(1)   | On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue. | § 60.46(a)<br>§ 60.46(b)(1)<br>[G]§ 60.46(b)(2)<br>[G]§ 60.46(d)(1)<br>§ 60.46(d)(2)<br>[G]§ 60.46(d)(3)<br>§ 60.46(d)(6)<br>§ 60.46(d)(7)<br>** See CAM Summary  | None  | None                                      |
| GRPBOILER                 | EU                      | 60D-D         | PM (OPACITY)    | 40 CFR Part 60, Subpart D             | § 60.42(a)(2)   | On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.              | § 60.45(a)<br>§ 60.45(c)<br>§ 60.45(c)(3)<br>§ 60.45(g)<br>§ 60.45(g)(1)<br>§ 60.46(a)<br>§ 60.46(b)(3)   | None  | § 60.45(g)                                |
| GRPBOILER                 | EU                      | 60D-D         | SO <sub>2</sub> | 40 CFR Part 60, Subpart D             | § 60.43(b)<br>§ 60.43(c)  | When different fossil fuels are burned simultaneously   | § 60.45(a)<br>§ 60.45(c)  | None  | § 60.45(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) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|--|--|---|---|
|                           |                         |               |                 |                                       |   | in any combination, the applicable standard (ng/J) shall be determined by proration using the specified formula.   | § 60.45(c)(1)<br>§ 60.45(c)(2)<br>§ 60.45(c)(3)<br>§ 60.45(c)(3)(i)<br>§ 60.45(c)(3)(ii)<br>§ 60.45(c)(4)<br>[G]§ 60.45(e)<br>[G]§ 60.45(f)<br>§ 60.45(g)<br>§ 60.45(g)(2)(i)<br>§ 60.46(a)<br>§ 60.46(b)(1)<br>[G]§ 60.46(b)(4)<br>[G]§ 60.46(c)<br>[G]§ 60.46(d)(1)<br>[G]§ 60.46(d)(3)<br>§ 60.46(d)(4)<br>§ 60.46(d)(6)<br>§ 60.46(d)(7)         |   |   |
| GRPBOILER                 | EU                      | 6oD-D         | NO <sub>x</sub> | 4o CFR Part 6o, Subpart D             | § 60.44(b)  | Except as stated in §60.44(c) and (d), when different fossil fuels are burned simultaneously in any combination, the applicable standard is determined by proration using the specified formula. | § 60.45(a)<br>§ 60.45(b)(3)<br>§ 60.45(c)<br>§ 60.45(c)(1)<br>§ 60.45(c)(2)<br>§ 60.45(c)(3)<br>§ 60.45(c)(3)(i)<br>§ 60.45(c)(3)(ii)<br>§ 60.45(c)(4)<br>[G]§ 60.45(e)<br>[G]§ 60.45(f)<br>§ 60.45(g)<br>§ 60.45(g)(3)<br>§ 60.45(g)(3)(i)<br>§ 60.46(a)<br>§ 60.46(b)(1)<br>[G]§ 60.46(b)(5)<br>[G]§ 60.46(c)<br>[G]§ 60.46(d)(1)<br>§ 60.46(d)(5) | None  | § 60.45(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) |
|---------------------------|-------------------------|---------------|--------------|---------------------------------------|---|--|--|---|---|
|                           |                         |               |              |                                       |   |  | § 60.46(d)(6)<br>§ 60.46(d)(7)   |   |   |
| GRPCOALSYS                | EU                      | 60Y           | PM (OPACITY) | 40 CFR Part 60, Subpart Y             | § 60.254(a)<br>§ 60.256(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)<br>§ 60.256(a)<br>§ 60.256(a)(2)<br>** See Periodic Monitoring Summary | None  | None                                      |
| GRPSTACK                  | EP                      | 111-B         | OPACITY      | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(B)<br>§ 111.111(a)(1)(C)<br>§ 111.111(a)(1)(E)                    | Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.   | § 111.111(a)(1)(D)<br>[G]§<br>111.111(a)(1)(F)                                     | § 111.111(a)(1)(C)<br>§ 111.111(a)(1)(D)      | None                                      |
| GRPSTACK                  | EP                      | 111-C         | OPACITY      | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(B)<br>§ 111.111(a)(1)(C)<br>§ 111.111(a)(1)(E)<br>§ 111.111(a)(2) | Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.   | § 111.111(a)(1)(D)<br>[G]§<br>111.111(a)(1)(F)<br>§ 111.111(a)(2)                  | § 111.111(a)(1)(C)<br>§ 111.111(a)(1)(D)      | 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) |
|---------------------------|-------------------------|---------------|--------------|---------------------------------------|--|---|---|---|---|
| GRPSTACK                  | EP                      | 111-D         | OPACITY      | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(B)<br>§ 111.111(a)(1)(C)<br>§ 111.111(a)(1)(E)   | Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.  | § 111.111(a)(1)(D)<br>[G]§ 111.111(a)(1)(F) | § 111.111(a)(1)(C)<br>§ 111.111(a)(1)(D)      | None                                      |
| EDG-1                     | EU                      | 6oIII-A       | CO           | 40 CFR Part 60, Subpart III           | § 60.4205(b)<br>§ 60.4202(a)(2)<br>§ 60.4206<br>§ 60.4207(b)<br>[G]§ 60.4211(a)<br>§ 60.4211(c)<br>[G]§ 60.4211(f)<br>§ 60.4218<br>§ 89.112(a) | Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a). | None  | None  | [G]§ 60.4214(d)                           |
| EDG-1                     | EU                      | 6oIII-A       | NMHC and NOx | 40 CFR Part 60, Subpart III           | § 60.4205(b)<br>§ 60.4202(a)(2)<br>§ 60.4206<br>§ 60.4207(b)<br>[G]§ 60.4211(a)<br>§ 60.4211(c)<br>[G]§ 60.4211(f)<br>§ 60.4218<br>§ 89.112(a) | Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than or equal to 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NOx emission limit of 4.0 g/KW-hr, as stated in 40 CFR                                | None  | None  | [G]§ 60.4214(d)                           |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant    | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|--------------|---------------------------------------|---|---|-------------------------------------|---|---|
|                           |                         |               |              |                                       |   | 60.4202(a)(2) and 40 CFR 89.112(a).   |                                     |   |   |
| EDG-1                     | EU                      | 6oIII-A       | PM (OPACITY) | 40 CFR Part 60, Subpart III           | § 60.4205(b)<br>§ 60.4202(a)(2)<br>§ 60.4206<br>§ 60.4207(b)<br>[G]§ 60.4211(a)<br>§ 60.4211(c)<br>[G]§ 60.4211(f)<br>§ 60.4218<br>§ 89.113(a)(1)<br>§ 89.113(a)(2)<br>§ 89.113(a)(3) | Emergency stationary CI ICE, that are not fire pump engines, with displacement < 10 lpc and not constant-speed engines, with max engine power < 2237 KW and a 2007 model year and later or max engine power > 2237 KW and a 2011 model year and later, must comply with following opacity emission limits: 20% during acceleration, 15% during lugging, 50% during peaks in either acceleration or lugging modes as stated in §60.4202(a)(1)-(2), (b)(2) and §89.113(a)(1)-(3) and §1039.105(b)(1)-(3). | None                                | None  | [G]§ 60.4214(d)                           |
| EDG-1                     | EU                      | 6oIII-A       | PM           | 40 CFR Part 60, Subpart III           | § 60.4205(b)<br>§ 60.4202(a)(2)<br>§ 60.4206<br>§ 60.4207(b)<br>[G]§ 60.4211(a)<br>§ 60.4211(c)<br>[G]§ 60.4211(f)<br>§ 60.4218<br>§ 89.112(a)  | Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).  | None                                | None  | [G]§ 60.4214(d)                           |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant                | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|--------------------------|---------------------------------------|--|--|-------------------------------------|---|---|
| EDG-1                     | EU                      | 63ZZZZ        | EXEMPT                   | 40 CFR Part 63, Subpart ZZZZ          | § 63.6590(b)(1)<br>§ 63.6595(c)<br>§ 63.6605(b)<br>[G]§ 63.6640(f)(1)  | An affected source which meets either of the criteria in paragraph (b)(1)(i) through (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(c)<br>§ 63.6645(f)              |
| FP-1                      | EU                      | 60III-A       | NMHC and NO <sub>x</sub> | 40 CFR Part 60, Subpart III           | § 60.4205(c)-Table 4<br>§ 60.4206<br>§ 60.4207(b)<br>[G]§ 60.4211(a)<br>§ 60.4211(c)<br>[G]§ 60.4211(f)<br>§ 60.4218 | Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with an NMHC+NO <sub>x</sub> emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart. | None                                | None  | [G]§ 60.4214(d)                           |
| FP-1                      | EU                      | 60III-A       | PM                       | 40 CFR Part 60, Subpart III           | § 60.4205(c)-Table 4<br>§ 60.4206<br>§ 60.4207(b)<br>[G]§ 60.4211(a)<br>§ 60.4211(c)<br>[G]§ 60.4211(f)<br>§ 60.4218 | Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20  | None                                | None  | [G]§ 60.4214(d)                           |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant      | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements<br>(30 TAC § 122.144)  | Reporting Requirements<br>(30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|--|--|--|---|---|
|                           |                         |               |                |                                       |  | g/KW-hr, as listed in Table 4 to this subpart.   |  |   |   |
| FP-1                      | EU                      | 63ZZZZ        | 112(B)<br>HAPS | 40 CFR Part 63,<br>Subpart ZZZZ       | § 63.6590(c)   | Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part. | None   | None  | None  |
| GRPENGINE                 | EU                      | 63ZZZZ        | 112(B)<br>HAPS | 40 CFR Part 63,<br>Subpart ZZZZ       | § 63.6602<br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ  | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ |

**Additional Monitoring Requirements**

**Compliance Assurance Monitoring Summary ..... 42**

**Periodic Monitoring Summary..... 47**

## CAM Summary

| <b>Unit/Group/Process Information</b>                                   |  |
|---|--|
| ID No.: GRPBOILER   |  |
| Control Device ID No.: ESP-1  | Control Device Type: Wet or Dry Electrostatic Precipitator |
| Control Device ID No.: ESP-2  | Control Device Type: Wet or Dry Electrostatic Precipitator |
| Control Device ID No.: ESP-3  | Control Device Type: Wet or Dry Electrostatic Precipitator |
| <b>Applicable Regulatory Requirement</b>                                |  |
| Name: 30 TAC Chapter 111, Nonagricultural Processes                     | SOP Index No.: 153-B                                       |
| Pollutant: PM   | Main Standard: § 111.153(b)                                |
| <b>Monitoring Information</b>   |  |
| Indicator: Opacity  |  |
| Minimum Frequency: six times per minute                                 |  |
| Averaging Period: six-minute  |  |
| Deviation Limit: Opacity greater than 20% is a deviation.               |  |
| CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13. |  |

### CAM Summary

| <b>Unit/Group/Process Information</b>                                   |  |
|---|--|
| ID No.: GRPBOILER   |  |
| Control Device ID No.: ESP-1  | Control Device Type: Wet or Dry Electrostatic Precipitator |
| Control Device ID No.: ESP-2  | Control Device Type: Wet or Dry Electrostatic Precipitator |
| Control Device ID No.: ESP-3  | Control Device Type: Wet or Dry Electrostatic Precipitator |
| <b>Applicable Regulatory Requirement</b>                                |  |
| Name: 30 TAC Chapter 111, Nonagricultural Processes                     | SOP Index No.: 153-A                                       |
| Pollutant: PM   | Main Standard: § 111.153(c)                                |
| <b>Monitoring Information</b>   |  |
| Indicator: Opacity  |  |
| Minimum Frequency: six times per minute                                 |  |
| Averaging Period: six-minute  |  |
| Deviation Limit: Opacity greater than 20% is a deviation.               |  |
| CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13. |  |

## CAM Summary

| <b>Unit/Group/Process Information</b>  |  |
|--|--|
| ID No.: GRPBOILER  |  |
| Control Device ID No.: ESP-1   | Control Device Type: Wet or Dry Electrostatic Precipitator |
| Control Device ID No.: ESP-2   | Control Device Type: Wet or Dry Electrostatic Precipitator |
| Control Device ID No.: ESP-3   | Control Device Type: Wet or Dry Electrostatic Precipitator |
| <b>Applicable Regulatory Requirement</b>   |  |
| Name: 40 CFR Part 60, Subpart D  | SOP Index No.: 60D-B                                       |
| Pollutant: PM  | Main Standard: § 60.42(a)(1)                               |
| <b>Monitoring Information</b>  |  |
| Indicator: Opacity   |  |
| Minimum Frequency: six times per minute  |  |
| Averaging Period: six-minute   |  |
| Deviation Limit: Opacity greater than 20% (except one six-minute period per hour of not more than 27%) is a deviation. |  |
| CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.  |  |

## CAM Summary

| <b>Unit/Group/Process Information</b>  |  |
|--|--|
| ID No.: GRPBOILER  |  |
| Control Device ID No.: ESP-1   | Control Device Type: Wet or Dry Electrostatic Precipitator |
| Control Device ID No.: ESP-2   | Control Device Type: Wet or Dry Electrostatic Precipitator |
| Control Device ID No.: ESP-3   | Control Device Type: Wet or Dry Electrostatic Precipitator |
| <b>Applicable Regulatory Requirement</b>   |  |
| Name: 40 CFR Part 60, Subpart D  | SOP Index No.: 60D-C                                       |
| Pollutant: PM  | Main Standard: § 60.42(a)(1)                               |
| <b>Monitoring Information</b>  |  |
| Indicator: Opacity   |  |
| Minimum Frequency: six times per minute  |  |
| Averaging Period: six-minute   |  |
| Deviation Limit: Opacity greater than 20% (except for one six-minute period per hour of not more than 27%) is a deviation. |  |
| CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.  |  |

## CAM Summary

| <b>Unit/Group/Process Information</b>  |  |
|--|--|
| ID No.: GRPBOILER  |  |
| Control Device ID No.: ESP-1   | Control Device Type: Wet or Dry Electrostatic Precipitator |
| Control Device ID No.: ESP-2   | Control Device Type: Wet or Dry Electrostatic Precipitator |
| Control Device ID No.: ESP-3   | Control Device Type: Wet or Dry Electrostatic Precipitator |
| <b>Applicable Regulatory Requirement</b>   |  |
| Name: 40 CFR Part 60, Subpart D  | SOP Index No.: 60D-D                                       |
| Pollutant: PM  | Main Standard: § 60.42(a)(1)                               |
| <b>Monitoring Information</b>  |  |
| Indicator: Opacity   |  |
| Minimum Frequency: six times per minute  |  |
| Averaging Period: six-minute   |  |
| Deviation Limit: Opacity greater than 20% (except one six-minute period per hour of not more than 27%) is a deviation. |  |
| CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.  |  |

## Periodic Monitoring Summary

| <b>Unit/Group/Process Information</b>   |  |
|---|--|
| ID No.: GRPBOILER   |  |
| Control Device ID No.: ESP-1  | Control Device Type: Wet or Dry Electrostatic Precipitator |
| Control Device ID No.: ESP-2  | Control Device Type: Wet or Dry Electrostatic Precipitator |
| Control Device ID No.: ESP-3  | Control Device Type: Wet or Dry Electrostatic Precipitator |
| <b>Applicable Regulatory Requirement</b>  |  |
| Name: 30 TAC Chapter 112, Sulfur Compounds  | SOP Index No.: 112-B                                       |
| Pollutant: SO <sub>2</sub>  | Main Standard: § 112.8(a)                                  |
| <b>Monitoring Information</b>   |  |
| Indicator: SO <sub>2</sub> Concentration  |  |
| Minimum Frequency: Four times per hour  |  |
| Averaging Period: Hourly  |  |
| Deviation Limit: SO <sub>2</sub> concentration greater than 3.0 lb/MMBtu heat input averaged over a three-hour period is a deviation.   |  |
| <p>Periodic Monitoring Text: Measure and record the concentration of SO<sub>2</sub> in the exhaust stream of the control device with a continuous emission monitoring system (CEMS). In addition, measure and record the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B. The maximum sulfur dioxide concentration (specified in units of the underlying applicable requirement) is the corresponding sulfur dioxide limit associated with the emission limitation in the underlying applicable requirement. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p> |  |

## Periodic Monitoring Summary

| <b>Unit/Group/Process Information</b>   |  |
|---|--|
| ID No.: GRPBOILER   |  |
| Control Device ID No.: ESP-1  | Control Device Type: Wet or Dry Electrostatic Precipitator |
| Control Device ID No.: ESP-2  | Control Device Type: Wet or Dry Electrostatic Precipitator |
| Control Device ID No.: ESP-3  | Control Device Type: Wet or Dry Electrostatic Precipitator |
| <b>Applicable Regulatory Requirement</b>  |  |
| Name: 30 TAC Chapter 112, Sulfur Compounds  | SOP Index No.: 112-A                                       |
| Pollutant: SO <sub>2</sub>  | Main Standard: § 112.9(a)                                  |
| <b>Monitoring Information</b>   |  |
| Indicator: SO <sub>2</sub> Concentration  |  |
| Minimum Frequency: Four times per hour  |  |
| Averaging Period: Hourly  |  |
| Deviation Limit: SO <sub>2</sub> concentration greater than 440 ppmv at actual stack conditions and averaged over a three-hour period is a deviation.   |  |
| <p>Periodic Monitoring Text: Measure and record the concentration of SO<sub>2</sub> in the exhaust stream of the control device with a continuous emission monitoring system (CEMS). In addition, measure and record the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B. The maximum sulfur dioxide concentration (specified in units of the underlying applicable requirement) is the corresponding sulfur dioxide limit associated with the emission limitation in the underlying applicable requirement. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p> |  |

## Periodic Monitoring Summary

| <b>Unit/Group/Process Information</b>  |  |
|--|--|
| ID No.: GRPCOALSYS   |  |
| Control Device ID No.: AD-13   | Control Device Type: Fabric Filter             |
| Control Device ID No.: AD-14   | Control Device Type: Fabric Filter             |
| Control Device ID No.: BAGHOUSE-12   | Control Device Type: Fabric Filter             |
| Control Device ID No.: BAGHOUSE-15   | Control Device Type: Fabric Filter             |
| Control Device ID No.: WATER-10  | Control Device Type: Other Control Device Type |
| Control Device ID No.: WATER-11  | Control Device Type: Other Control Device Type |
| Control Device ID No.: WATER-16  | Control Device Type: Other Control Device Type |
| <b>Applicable Regulatory Requirement</b>   |  |
| Name: 40 CFR Part 60, Subpart Y  | SOP Index No.: 60Y                             |
| Pollutant: PM (OPACITY)  | Main Standard: § 60.254(a)                     |
| <b>Monitoring Information</b>  |  |
| Indicator: Opacity   |  |
| Minimum Frequency: Once per month  |  |
| Averaging Period: Six-minutes  |  |
| Deviation Limit: For units W-10, W-11, W-13, W-14, and W-16, opacity greater than 20% is a deviation. For units W-12 and W-15, opacity greater than 10% is a deviation.  |  |
| Periodic Monitoring Text: 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 above the deviation limit shall be reported as a deviation. |  |

**Permit Shield**

**Permit Shield .....51**

### Permit Shield

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

| Unit/Group/Process |                       | Regulation                 | Basis of Determination  |
|--------------------|-----------------------|----------------------------|---|
| ID No.             | Group/Inclusive Units |                            |   |
| GRPBOILER          | W-1, W-2, W-3         | 40 CFR Part 60, Subpart Da | Construction or modification commenced prior to September 18, 1978.             |
| GRPBOILER          | W-1, W-2, W-3         | 40 CFR Part 60, Subpart Db | Construction, modification, or reconstruction commenced prior to June 19, 1984. |
| GRPBOILER          | W-1, W-2, W-3         | 40 CFR Part 60, Subpart Dc | Construction, modification, or reconstruction commenced prior to June 9, 1989.  |

**New Source Review Authorization References**

**New Source Review Authorization References ..... 53**

**New Source Review Authorization References by Emission Unit..... 54**

## New Source Review Authorization References

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

| <b>Prevention of Significant Deterioration (PSD) Permits</b>  |                              |
|---|------------------------------|
| PSD Permit No.: PSDTX3  | Issuance Date: 10/30/2012    |
| <b>Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.</b> |                              |
| Authorization No.: 1576   | Issuance Date: 07/05/2007    |
| Authorization No.: 4381   | Issuance Date: 10/30/2012    |
| Authorization No.: 45464  | Issuance Date: 04/20/2011    |
| Authorization No.: 46723  | Issuance Date: 08/31/2010    |
| Authorization No.: 48821  | Issuance Date: 02/08/2011    |
| Authorization No.: 74352  | Issuance Date: 05/27/2005    |
| <b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>  |                              |
| Number: 106.227   | Version No./Date: 09/04/2000 |
| Number: 106.261   | Version No./Date: 03/14/1997 |
| Number: 106.261   | Version No./Date: 12/24/1998 |
| Number: 106.262   | Version No./Date: 03/14/1997 |
| Number: 106.262   | Version No./Date: 11/01/2003 |
| Number: 106.263   | Version No./Date: 11/01/2001 |
| Number: 106.265   | 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: 12/24/1998 |
| Number: 68  | Version No./Date: 09/13/1993 |
| Number: 118   | Version No./Date: 09/13/1993 |
| Number: 118   | Version No./Date: 10/04/1995 |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description         | New Source Review Authorization |
|---------------------------|--|---------------------------------|
| EDG-1                     | UNIT 1 EMERGENCY DIESEL GENERATOR      | 106.511/09/04/2000              |
| EDG-2                     | UNIT 2 EMERGENCY DIESEL GENERATOR      | 106.511/09/04/2000              |
| EDG-3                     | UNIT 3 EMERGENCY DIESEL GENERATOR      | 106.511/09/04/2000              |
| FP-1                      | EMERGENCY DIESEL FIRE PUMP             | 106.511/09/04/2000              |
| W-10                      | COAL CAR DUMPER                        | 1576                            |
| W-11                      | TELESCOPIC CHUTE AT TEMP. STORAGE PILE | 1576                            |
| W-12                      | COAL BUNKER/CONVEYOR 1A BAGHOUSE       | 1576                            |
| W-13                      | UNIT 2 BUNKER BAGHOUSE                 | 106.261/03/14/1997              |
| W-14                      | UNIT 3 BUNKER BAGHOUSE                 | 106.261/03/14/1997              |
| W-15                      | COAL BUNKER/CONVEYOR 1B BAGHOUSE       | 1576                            |
| W-16                      | COAL TRANSFER HOUSE                    | 1576                            |
| W-1                       | BOILER W-1                             | 4381, 48821, PSDTX3             |
| W-1                       | UNIT 1 STACK                           | 4381, 48821, PSDTX3             |
| W-2                       | BOILER W-2                             | 4381, 74352, PSDTX3             |
| W-2                       | UNIT 2 STACK                           | 4381, 74352, PSDTX3             |
| W-3                       | BOILER W-3                             | 4381, 45464, PSDTX3             |
| W-3                       | UNIT 3 STACK                           | 4381, 45464, PSDTX3             |

**Alternative Requirement**

**Alternative Requirement ..... 56**

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



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

July 17, 2013

MR KRIS GAUS QEP  
ENVIRONMENTAL SPECIALIST  
SOUTHWESTERN ELECTRIC POWER COMPANY  
PO BOX 660164  
DALLAS TX 75266-0164

Re: Title 40 Code of Federal Regulations Part 63, Subpart UUUUU Compliance Extension  
Title V Operating Permit Number: 026  
New Source Review Permit Number: 4381  
Welsh Electric Generation Facility  
Pittsburg, Titus County  
Regulated Entity Number: RN100213370  
Customer Reference Number: CN600126767  
Account Number: TF-0012-D  
Associated Permit Number: PSDTX3

Dear Mr. Gaus:

This is in response to your letter dated May 2, 2013, requesting an extension of one year to comply with the requirements in Title 40 Code of Federal Regulations (40 CFR) Part 63, Subpart UUUUU (National Emission Standards for Hazardous Air Pollutants from Coal- and Oil-Fired Electric Steam Generating Units). Based on the information in your letter dated May 2, 2013, the three electric generating units at the Southwestern Electric Power Company (SWEPCO) Welsh Electric Generating Facility are hereby granted a one year extension from April 16, 2015 to April 16, 2016 to comply with the requirements in 40 CFR Part 63, Subpart UUUUU.

Item numbers 1 through 4 below are conditions of the compliance extension approval.

**Emission Control Installations and Compliance Schedule**

1. The following emission control installations and compliance schedule shall be met, as represented in your request for compliance extension to satisfy the requirements of 40 CFR § 63.6(i)(6)(i):
  - (a) Fabric filter baghouses and activated carbon injection systems shall be installed on Units 1 and 3 no later than April 16, 2016.
  - (b) Unit 2, which has been scheduled for retirement, may remain operational under an extension of the MATS compliance deadline until completion of the required transmission upgrades (Project No. 30495 of Southwest Power Pool's long term plan) or until April 16, 2016, whichever is sooner.

Mr. Kris Gaus  
Page 2  
July 17, 2013

Title V Operating Permit Number: 026

- (c) Final compliance with the Subpart UUUUU standards for Units 1 and 3 shall be achieved by April 16, 2016.
- (d) Initial compliance testing for Units 1 and 3 required by 40 CFR § 63.10005 shall be conducted no later than 180 days following the one year extension date of April 16, 2016.

### **Support for Compliance Schedule**

- 2. SWEPCO proposes an alternate compliance schedule based upon receiving a one year extension. The compliance schedule takes into consideration the construction schedule to install additional pollution controls on Units 1 and 3. Specifically, SWEPCO will construct a pulse-jet fabric filter baghouse and activated carbon injection system on Units 1 and 3. Additionally, the compliance schedule takes into consideration the need to allow Unit 2 to continue to operate, until completion of necessary transmission mitigation improvements have been constructed, before Unit 2 can be permanently retired.

### **Notification and Other Requirements**

- 3. SWEPCO shall submit two reports updating the status of construction progress on the additional pollution control equipment on Units 1 and 3 and the status of construction on transmission upgrades necessary to retire Unit 2. The first report shall be submitted no later than July 30, 2014 and the second report shall be submitted no later than July 30, 2015. Once compliance with the standards is achieved for Units 1 and 3, which shall be no later than April 16, 2016, SWEPCO shall submit a notification to the TCEQ and the U.S. Environmental Protection Agency (EPA) Region 6, postmarked within 30 days of the date compliance was achieved, specifying the new compliance date and detailing the affected site and equipment. All monitoring, performance testing, recordkeeping, and reporting required by the applicable standards in Subpart UUUUU must begin on the new compliance date, or where time frames in the standards are established from the compliance date, must be based on the new compliance date.

The notification required in this condition should be directed to:

Air Section Manager  
TCEQ Region 5  
2916 Teague Drive  
Tyler, Texas 75701-3734

With Copies To:

Texas Commission on Environmental Quality  
Air Permits Division, MC-163  
Mr. Erik Hendrickson  
P.O. Box 13087  
Austin, Texas 78711-3087

Mr. Kris Gaus  
Page 3  
July 17, 2013

Title V Operating Permit Number: 026

U.S. Environmental Protection Agency  
Region 6  
Attn: Air Permits Section (6PD-R)  
1445 Ross Avenue, Suite 1200  
Dallas, Texas 75202-2733

4. This compliance extension may be terminated, or additional requirements imposed, at any time the TCEQ or EPA determines that SWEPCO is not making reasonable efforts to comply consistent with the compliance extension application or the sources requesting extension are found to not be in compliance with currently applicable permits or other applicable State or Federal rules.

Pursuant to 40 CFR § 63.6(i)(4)(i)(A), SWEPCO is required to apply for a revision of the affected source's Title V permit (Permit Number 026) to incorporate the conditions of this compliance extension.

The TCEQ appreciates your attention to the changing applicable rule requirements. If you need further information or have any questions, please contact Mr. Erik Hendrickson, P.E. at (512) 239-1095 or write to the TCEQ, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

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

Sincerely,



Michael Wilson, P.E., Director  
Air Permits Division  
Office of Air  
Texas Commission on Environmental Quality

MPW/EH/eh

Enclosure

cc: Air Section Manager, Region 5 - Tyler  
Air Permits Section Chief, New Source Review, Section (6PD-R), U.S. Environmental  
Protection Agency, Region 6, Dallas

Project Number: 193901

**Appendix A**

**Acronym List .....60**

## Acronym List

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

|                        |   |
|------------------------|---|
| ACFM .....             | actual cubic feet per minute                      |
| AMOC.....              | alternate means of control                        |
| ARP .....              | Acid Rain Program                                 |
| ASTM .....             | American Society of Testing and Materials         |
| B/PA.....              | Beaumont/Port Arthur (nonattainment area)         |
| CAM .....              | Compliance Assurance Monitoring                   |
| CD .....               | control device                                    |
| COMS.....              | continuous opacity monitoring system              |
| CVS.....               | closed-vent system                                |
| D/FW .....             | Dallas/Fort Worth (nonattainment area)            |
| DR .....               | Designated Representative                         |
| ELP .....              | El Paso (nonattainment area)                      |
| EP .....               | emission point                                    |
| EPA .....              | U.S. Environmental Protection Agency              |
| EU .....               | emission unit                                     |
| FCAA Amendments .....  | Federal Clean Air Act Amendments                  |
| FOP .....              | federal operating permit                          |
| GF.....                | grandfathered                                     |
| gr/100 scf.....        | grains per 100 standard cubic feet                |
| HAP.....               | hazardous air pollutant                           |
| H/G/B.....             | Houston/Galveston/Brazoria (nonattainment area)   |
| H <sub>2</sub> S ..... | hydrogen sulfide                                  |
| ID No.....             | identification number                             |
| lb/hr .....            | pound(s) per hour                                 |
| MMBtu/hr.....          | Million British thermal units per hour            |
| MRRT.....              | monitoring, recordkeeping, reporting, and testing |
| NA .....               | nonattainment                                     |
| N/A.....               | not applicable                                    |
| NADB .....             | National Allowance Data Base                      |
| NO <sub>x</sub> .....  | nitrogen oxides                                   |
| NSPS .....             | New Source Performance Standard (40 CFR Part 60)  |
| NSR.....               | New Source Review                                 |
| ORIS.....              | Office of Regulatory Information Systems          |
| Pb .....               | lead  |
| PBR .....              | Permit By Rule                                    |
| PM.....                | particulate matter                                |
| ppmv .....             | parts per million by volume                       |
| PSD .....              | prevention of significant deterioration           |
| RO .....               | Responsible Official                              |
| SO <sub>2</sub> .....  | sulfur dioxide                                    |
| TCEQ.....              | Texas Commission on Environmental Quality         |
| TSP .....              | total suspended particulate                       |
| TVP.....               | true vapor pressure                               |
| U.S.C. ....            | United States Code                                |
| VOC.....               | volatile organic compound                         |

**Appendix B**

**Major NSR Summary Table..... 62**

## Texas Commission on Environmental Quality

### Major NSR Summary Table

| Permit Number: 4381 and PSDTX3 |                 |                          |                  | Issuance Date: 10/30/2012 |                                     |   |                        |
|--------------------------------|-----------------|--------------------------|------------------|---------------------------|-------------------------------------|---|------------------------|
| Emission Point No. (1)         | Source Name (2) | Air Contaminant Name (3) | Emission Rates * |                           | Monitoring and Testing Requirements | Recordkeeping Requirements                  | Reporting Requirements |
|                                |                 |                          | lb/hr            | TPY**                     | Spec. Cond.                         | Spec. Cond.                                 | Spec. Cond.            |
| 1                              | Unit 1 Boiler   | NOx                      | 1856<br>(6)(7)   | 7227 (6)                  | 7, 8, 11, 21                        | 7, 8, 11, 14, 15, 16,<br>17, 21, 28, 29     | 7, 8, 18, 19           |
|                                |                 | CO                       | 8524 (6)         | 31735 (6)                 | 11, 21, 22                          | 8, 11, 14, 15, 16,<br>21, 22, 28, 29        | 8, 19, 22              |
|                                |                 | VOC                      | 19               | 82                        | 11, 21, 22                          | 11, 14, 15, 16, 21,<br>22, 29               | 19, 22                 |
|                                |                 | SO2                      | 6187.2<br>(7)    | 27100.0                   | 7, 8, 10, 11, 21                    | 7, 8, 10, 11, 14, 15,<br>16, 17, 21, 28, 29 | 7, 8, 18, 19           |
|                                |                 | PM                       | 515.6 (7)        | 2258.3                    | 7, 8, 9, 11, 21, 22                 | 7, 8, 9, 11, 14, 15,<br>16, 21, 22, 28, 29  | 7, 8, 19, 22           |
|                                |                 | PM/PM10/PM2.5<br>(MSS)   | 880              | -                         | 9, 11, 28, 29, 32                   | 9, 11, 14, 21, 28,<br>29, 32                |                        |

## Texas Commission on Environmental Quality

### Major NSR Summary Table

| Permit Number: 4381 and PSDTX3 |                 |   |                  | Issuance Date: 10/30/2012 |                                     |   |                        |
|--------------------------------|-----------------|---|------------------|---------------------------|-------------------------------------|---|------------------------|
| Emission Point No. (1)         | Source Name (2) | Air Contaminant Name (3)                        | Emission Rates * |                           | Monitoring and Testing Requirements | Recordkeeping Requirements                  | Reporting Requirements |
|                                |                 |   | lb/hr            | TPY**                     | Spec. Cond.                         | Spec. Cond.                                 | Spec. Cond.            |
| 2                              | Unit 2 Boiler   | NO <sub>x</sub>                                 | 1856 (6)<br>(7)  | 7227 (6)                  | 7, 8, 11, 21                        | 7, 8, 11, 14, 15, 16,<br>17, 21, 28, 29     | 7, 8, 18, 19           |
|                                |                 | CO  | 8524 (6)         | 31735 (6)                 | 11, 21, 22                          | 8, 11, 14, 15, 16,<br>21, 22, 28, 29        | 8, 19, 22              |
|                                |                 | VOC   | 19               | 82                        | 11, 21, 22                          | 11, 14, 15, 16, 21,<br>22, 29               | 19, 22                 |
|                                |                 | SO <sub>2</sub> (5)                             | 5771 (7)         | 25277                     | 7, 8, 10, 11, 21                    | 7, 8, 10, 11, 14, 15,<br>16, 17, 21, 28, 29 | 7, 8, 18, 19           |
|                                |                 | SO <sub>2</sub>                                 | 2165 (8)         | 9483 (8)                  | 7, 8, 9, 11, 21, 22                 | 7, 8, 9, 11, 14, 15,<br>16, 21, 22, 28, 29  | 7, 8, 19, 22           |
|                                |                 | PM (5)  | 387 (7)          | 1694                      | 9, 11, 28, 29, 32                   | 9, 11, 14, 21, 28,<br>29, 32                |                        |
|                                |                 | PM/PM <sub>10</sub> /PM <sub>2.5</sub><br>(MSS) | 880              | -                         | 7, 8, 11, 21                        | 7, 8, 11, 14, 15, 16,<br>17, 21, 28, 29, 32 | 7, 8, 18, 19           |

## Texas Commission on Environmental Quality

### Major NSR Summary Table

| Permit Number: 4381 and PSDTX3 |                 |   |                  | Issuance Date: 10/30/2012 |                                     |   |                        |
|--------------------------------|-----------------|---|------------------|---------------------------|-------------------------------------|---|------------------------|
| Emission Point No. (1)         | Source Name (2) | Air Contaminant Name (3)                        | Emission Rates * |                           | Monitoring and Testing Requirements | Recordkeeping Requirements                  | Reporting Requirements |
|                                |                 |   | lb/hr            | TPY**                     | Spec. Cond.                         | Spec. Cond.                                 | Spec. Cond.            |
| 3                              | Unit 3 Boiler   | NO <sub>x</sub>                                 | 1856 (6)<br>(7)  | 7227 (6)                  | 7, 8, 11, 21                        | 7, 8, 11, 14, 15, 16,<br>17, 21, 28, 29     | 7, 8, 18, 19           |
|                                |                 | CO  | 8524 (6)         | 31735 (6)                 | 11, 21, 22                          | 8, 11, 14, 15, 16,<br>21, 22, 28, 29        | 8, 19, 22              |
|                                |                 | VOC   | 19               | 82                        | 11, 21, 22                          | 11, 14, 15, 16, 21,<br>22, 29               | 19, 22                 |
|                                |                 | SO <sub>2</sub> (5)                             | 5771 (7)         | 25277                     | 7, 8, 10, 11, 21                    | 7, 8, 10, 11, 14, 15,<br>16, 17, 21, 28, 29 | 7, 8, 18, 19           |
|                                |                 | PM (5)  | 387 (7)          | 1694                      | 7, 8, 9, 11, 21, 22                 | 7, 8, 9, 11, 14, 15,<br>16, 21, 22, 28, 29  | 7, 8, 19, 22           |
|                                |                 | PM/PM <sub>10</sub> /PM <sub>2.5</sub><br>(MSS) | 880              | -                         | 9, 11, 28, 29, 32                   | 9, 11, 14, 21, 28,<br>29, 32                |                        |
|                                |                 |   |                  |                           |                                     |   |                        |

## Texas Commission on Environmental Quality

### Major NSR Summary Table

| Permit Number: 4381 and PSDTX3 |                                     |  |                  | Issuance Date: 10/30/2012 |                                     |                            |                        |
|--------------------------------|-------------------------------------|--|------------------|---------------------------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1)         | Source Name (2)                     | Air Contaminant Name (3)               | Emission Rates * |                           | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
|                                |                                     |  | lb/hr            | TPY**                     | Spec. Cond.                         | Spec. Cond.                | Spec. Cond.            |
| 19                             | No. 1 Ash Silo Telescopic Chute (9) | PM                                     | 0.1              | 0.1                       | 12                                  |                            |                        |
| 20                             | No. 2 Ash Silo Telescopic Chute (9) | PM                                     | 0.1              | 0.1                       | 12                                  |                            |                        |
| 21                             | No. 3 Ash Silo Telescopic Chute (9) | PM                                     | 0.1              | 0.1                       | 12                                  |                            |                        |
| 17                             | Fly Ash Landfill (9)                | PM                                     | 1.74             | 7.6                       |                                     |                            |                        |
| MSS-FUG                        | MSS Fugitives (9)                   | VOC                                    | 121.75           | 0.59                      | 24, 29, 30                          | 29, 30                     |                        |
|                                |                                     | PM/PM <sub>10</sub> /PM <sub>2.5</sub> | 4.69             | 4.84                      | 25, 29, 30                          | 29, 30                     |                        |
|                                |                                     | NO <sub>x</sub>                        | <0.1             | <0.1                      | 29, 30                              | 29, 30                     |                        |
|                                |                                     | CO                                     | <0.1             | <0.1                      | 29, 30                              | 29, 30                     |                        |
|                                |                                     | SO <sub>2</sub>                        | <0.1             | <0.1                      | 29, 30                              | 29, 30                     |                        |

Footnotes:

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 PM- total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>  
 CO - carbon monoxide
- (4) Planned maintenance, startup, and shutdown (MSS) lbs/hour emissions for all pollutants are authorized even if not specifically identified as MSS. During any clock hour that includes one or more minutes of planned MSS, that pollutant's maximum hourly emission rate shall apply during that clock hour. Compliance with annual emission limits (tons per year) is based on a 12 month rolling period. Annual emission rates for each source include planned MSS emissions.
- (5) Boiler SO<sub>2</sub> and PM emissions originally authorized under PSD by letter from EPA dated November 9, 1976, which have been supplanted by this permit.
- (6) Emission rates authorized under pollution control standard permits listed in Special Condition No. 33.
- (7) Hourly NO<sub>x</sub> emissions are based upon a 30-day rolling average. Hourly SO<sub>2</sub> and PM emissions are based upon a 3-hour rolling average.

- (8) New SO<sub>2</sub> emission rate, which is based upon a 24-hour rolling average, is effective twelve months after first fire of coal at the new John W. Turk Jr. coal-fired boiler. The permit holder shall notify the TCEQ Region 5 Office within 30 days of first fire of coal at the new John W. Turk Jr. unit.
- (9) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
AIR QUALITY PERMIT



*A Permit Is Hereby Issued To*  
**Southwestern Electric Power Company**  
*Authorizing the Continued Operation of*  
**Welsh Electric Generation Facility**  
*Located at* Pittsburg, Titus County, Texas  
Latitude 33° 02' 25" Longitude 94° 50' 14"

Issuance Date : October 30, 2012  
Renewal Date: October 30, 2022

  
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 116.116 (30 TAC 116.116)]
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1)the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC 116.120(a), (b) and (c)]
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)(iii)]
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; comply with any additional recordkeeping requirements specified in special conditions attached to the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC 116.115(b)(2)(F)]
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with 30 TAC 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to a condition of "air pollution" as defined in Texas Health and Safety Code (THSC) 382.003(3) or violate THSC 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.

## Special Conditions

Permit Numbers 4381 and PSDTX3

### Emission Standards and Fuel Specifications

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

If one emission rate limitation should be more stringent than another emission rate limitation, the more stringent limitation shall govern and be the standard by which compliance will be determined.

2. Emissions of oxides of nitrogen (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>), and particulate matter (PM) from the stack of the Unit 1 Boiler, designated as emission point number (EPN) 1, shall not exceed the following limits.

| <u>Pollutant</u> | <u>Emissions</u>                       |
|------------------|--|
| NO <sub>x</sub>  | 0.36 lb/MMBtu (30-day rolling average) |
| SO <sub>2</sub>  | 1.2 lb/MMBtu (3-hr rolling average)    |
| PM               | 0.1 lb/MMBtu (3-hr rolling average)    |

3. Emissions NO<sub>x</sub>, SO<sub>2</sub>, and PM from the stack of the Unit 2 Boiler, designated as EPN 2, shall not exceed the following limits.

| <u>Pollutant</u> | <u>Emissions</u>                       |
|------------------|--|
| NO <sub>x</sub>  | 0.36 lb/MMBtu (30-day rolling average) |
| SO <sub>2</sub>  | 1.1 lb/MMBtu (3-hr rolling average)    |
| PM               | 0.075 lb/MMBtu (3-hr rolling average)  |

4. Emissions NO<sub>x</sub>, SO<sub>2</sub>, and PM from the stack of the Unit 3 Boiler, designated as EPN 3, shall not exceed the following limits.

| <u>Pollutant</u> | <u>Emissions</u>                       |
|------------------|--|
| NO <sub>x</sub>  | 0.36 lb/MMBtu (30-day rolling average) |
| SO <sub>2</sub>  | 1.12 lb/MMBtu (3-hr rolling average)   |
| PM               | 0.069 lb/MMBtu (3-hr rolling average)  |

5. Opacity of emissions from the Unit 1 Boiler stack (EPN Boiler 1), Unit 2 Boiler stack (EPN Boiler 2), and Unit 3 Boiler stack (EPN Boiler 3) must not exceed 20 percent averaged over a six-minute period, except during periods of authorized planned maintenance, start-up, or shutdown (MSS) in accordance with Special Condition No. 32 or as otherwise allowed by law.

6. Fuels used in the Unit 1, 2, and 3 Boilers shall be limited to the following:
  - A. Sub-bituminous coal containing no more than 0.5 percent total sulfur by weight on a wet (as received) basis.
  - B. No. 2 fuel oil.

The use of any other fuel will require appropriate authorization under 30 Texas Administrative Code 116.

### **Federal Requirements**

7. The sources covered under this permit shall comply with the requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated for Fossil Fuel-Fired Steam Generators in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subparts A and D including the applicable test methods and procedures specified in 40 CFR • 60.46. If any condition of this permit is more stringent than the regulations so incorporated, then for the purposes of complying with this permit, the permit condition shall govern and be the standard by which compliance shall be demonstrated.

### **Compliance Testing**

8. Initial compliance testing for PM, SO<sub>2</sub>, NO<sub>x</sub>, and opacity has been conducted for Boiler Units 1, 2, and 3. Additional testing shall be performed for one or more boilers when required by the Executive Director of the TCEQ.

### **Continuous Determination of Compliance**

9. In order to demonstrate continuous compliance with the opacity limit of Special Condition No. 5, the holder of this permit shall operate and maintain a certified continuous emission monitoring system for measuring opacity of emissions.
10. In order to demonstrate continuous compliance with the SO<sub>2</sub> emission limit as stated in Special Condition Nos. 2, 3, and 4, the holder of this permit shall measure and record SO<sub>2</sub> emissions using one of the methods specified in 40 CFR • 75.11(a).

11. Data from the continuous emission monitors for flow, SO<sub>2</sub>, NO<sub>x</sub>, and continuous opacity monitors required by 40 CFR Part 60 and 40 CFR Part 75 may be used to determine compliance with the SO<sub>2</sub>, NO<sub>x</sub>, and opacity limits in this permit.

### **Ash Handling**

12. Emissions from fly ash loading into trucks from the fly ash silos shall be controlled by the use of telescopic chutes and by capturing displaced air and routing it back to the silos, which shall be vented to the electrostatic precipitators.

### **Recordkeeping**

13. A copy of this permit shall be kept at the plant site and made available at the request of personnel from the TCEQ or any local air pollution control agency having jurisdiction.
14. For all emission sources covered under this permit, all emission records and all continuous monitor measurements, including monitor performance testing measurements, all monitor calibration checks and adjustments, and maintenance performed on these systems must be retained for at least five years and must be made available upon request to the Executive Director or any agent of the TCEQ.
15. The holder of this permit shall retain records of the average fuel-firing rate, in units of tons of coal per hour and MMBtu/hr for a minimum of two years from the date of recording and starting with records generated on February 1, 2012, five years from the date of recording. The average fuel firing rate shall be based on the higher heating value of the fuel. The average fuel firing rate, in units of tons of coal per hour and MMBtu/hr, shall be calculated at least monthly. This information may be used to determine compliance with the emissions limitations of Special Condition No. 1.
16. The holder of this permit shall retain records of the electric power generating rate in Unit 1, 2, and 3 Boilers in units of megawatts, for a minimum of two years from the date of recording and starting with records generated on February 1, 2012, five years from the date of recording.
17. The holder of this permit shall comply with the applicable recordkeeping requirements of 40 CFR • 60.7; 40 CFR • 60.45g, and 40 CFR Part 75.

## **Reporting**

18. The holder of this permit shall comply with the applicable reporting requirements of 40 CFR • 60.7, 40 CFR • 60.45g, and 40 CFR Part 75.
19. If the electric power generation of Unit 1, 2, or 3 exceeds, by more than 10 percent, the electric power (in gross megawatts) maintained during initial compliance testing (for Unit 1, 550 MW, for Unit 2, 530 MW, and for Unit 3, 524 MW), the company must notify, in writing, the Executive Director of the TCEQ; and the source may be subject to additional sampling to demonstrate continued compliance with all applicable state and federal regulations.
20. The holder of this permit shall physically identify and mark in a conspicuous location all equipment that has the potential of emitting air contaminants as follows:
  - A. The facility identification numbers as submitted to the Emission Inventory Section of the TCEQ.
  - B. The EPNs as listed on the maximum allowable emission rates table.
21. Upon request by the Executive Director of the TCEQ or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sampling and/or analysis of the fuel(s) utilized in the boiler or shall allow the TCEQ or any other air pollution control agency representatives to obtain a sample for analysis.

## **Additional Monitoring**

22. The holder of this permit shall perform stack sampling once every third year beginning September 11, 2007, as specified in Paragraph C below, to establish the actual quantities of particulate matter (PM), carbon monoxide (CO), and volatile organic compounds (VOC) being emitted into the atmosphere from the Unit 1, 2, and 3 Boilers (EPN-1, EPN-2, and EPN-3). The purpose of such sampling will be to determine compliance with the PM, CO, and VOC emission limits in this permit. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and applicable test methods.

The TCEQ Executive Director or his designated representative shall be afforded the opportunity to observe all such sampling. The holder of this permit is responsible

for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.

- A. The TCEQ Tyler Regional Office shall be contacted soon after testing is scheduled but not less than 30 days prior to sampling to schedule a pretest meeting. The notice shall include:
- (1) Date for pretest meeting.
  - (2) Date sampling will occur.
  - (3) Name of firm conducting sampling.
  - (4) Type of sampling equipment to be used.
  - (5) Method or procedure to be used in sampling.
  - (6) Procedure used to determine turbine loads during and after the sampling period.

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

- B. Each boiler shall be tested at full load, or as close to full load that is practicable, for the atmospheric conditions which exist during testing.
- C. Sampling as required by this condition shall be conducted at any time between the first day of March and the last day of October of each third year. Additional sampling may be required by the TCEQ or EPA.
- D. Within 90 days after the completion of sampling required herein, three copies of the sampling reports shall be distributed as follows:
- One copy to the EPA Region 6 Office, Dallas.
  - One copy to the TCEQ Tyler Regional Office.
  - One copy to the TCEQ Austin Compliance Support Division.
- E. Sampling reports shall comply with the conditions of Chapter 14 of the TCEQ Sampling Procedures Manual. Information in the stack sampling report shall include (at a minimum) the following data for each test run:

- (1) hourly coal firing rate (in tons);
  - (2) average coal Btu/lb, expressed both on an as-received basis and a dry basis;
  - (3) average steam generation rate in millions of pounds per hour;
  - (4) average generator output in gross MW;
  - (5) control device operating parameters;
  - (6) emissions in the units of the limits of this permit, (lb/hr); and
  - (7) any additional records deemed necessary during the stack sampling pre-test meeting.
- F. A complete copy of the sampling reports required by this permit condition shall be kept at the plant for the life of the permit. Sampling reports shall be made available at the request of personnel from the TCEQ, EPA, or any air pollution control agency with jurisdiction.

### **Maintenance, Startup, and Shutdown (MSS) (2/12)**

23. This permit authorizes the emissions from the planned MSS activities listed in Attachment A, Attachment B, or the MAERT attached to this permit. Attachment A identifies the inherently low emitting (ILE) planned maintenance activities that this permit authorizes to be performed. Attachment B identifies the planned maintenance activities that are non-ILE planned maintenance activities that this permit authorizes to be performed.
24. When a planned maintenance activity identified in Attachment B 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.
25. No vacuum pump on a vacuum truck that is used to move solids (such as ash) during planned maintenance activities shall be operated unless the vacuum system exhaust is routed to a filtering system.

26. The emissions limits that are identified in Special Condition Nos. 2, 3, and 4 do not apply during planned MSS activities.
27. The holder of this permit shall minimize emissions during planned MSS activities by operating the facility and associated air pollution control equipment in accordance with good air pollution control practices, safe operating practices, and protection of the facility and associated air pollution control equipment.
28. Emissions during planned startup and shutdown activities will be minimized by limiting the duration of operation in planned startup and shutdown modes as follows:
  - A. A planned startup of one of the boilers begins when both forced draft and induced draft fans are placed in service for the initiating of combustion and is complete when the boiler has achieved the lowest sustainable load for at least 60 consecutive minutes while coal is being fired. Normal startup shall not exceed 2880 minutes. An extended startup is allowed for greater than 2880 minutes after a major outage, but the cumulative annual hours of extended startups shall not exceed an additional 900 hours for all three units combined.
  - B. A planned shutdown of one of the boilers begins when the boiler has dropped below the lowest sustainable load for at least 30 consecutive minutes and is complete 24 hours after combustion has ceased. Each shutdown shall not exceed 2880 minutes.
29. Compliance with the emissions limits for planned MSS activities identified in the MAERT attached to this permit may 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 permit application for all ILE planned maintenance activities. The total emissions from all ILE planned maintenance activities (See Attachment A) shall be considered to be no more than the estimated potential to emit for those activities that are represented in the permit application.
  - B. For each pollutant emitted during non-ILE planned maintenance activities (See Attachment B) whose emissions are measured using a continuous emissions monitoring system (CEMS), as per Special Condition No. 30A, the permit holder shall do the following for each calendar month:

- (1) Compare the pollutant's short-term (hourly) emissions during planned maintenance activities as measured by the CEMS to the applicable short-term planned MSS emissions limit in the MAERT.
  - C. For each pollutant emitted during non-ILE planned maintenance activities (See Attachment B) whose emissions occur through a stack, but are not measured using CEMS as per Special Condition No. 30A, the permit holder shall do the following for each calendar month:
    - (1) Determine the total emissions of the pollutant through the stack that result from such non-ILE planned maintenance activities in accordance with Special Condition No. 30B.
  - D. For each pollutant emitted during non-ILE planned maintenance activities (See Attachment B) whose emissions do not occur through a stack, the permit holder shall do the following for each calendar month:
    - (1) Determine the total emissions of the pollutant from such non-ILE planned maintenance activities in accordance with Special Condition No. 30B.
    - (2) Once monthly emissions have been determined in accordance with Special Condition No. 29D(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 maintenance activities to the annual EPN MSS-FUG emissions limit for the pollutant in the MAERT.
30. The permit holder shall determine the emissions during planned MSS activities for use in Special Condition No. 29 as follows.
  - A. For each pollutant whose emissions during normal facility operations are measured with a CEMS that has been certified to measure the pollutant's emissions over the entire range of a planned MSS activity, the permit holder shall measure the emissions of the pollutant during the planned MSS activity using the CEMS.
  - B. For each pollutant not described in Special Condition No. 30A, 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 as represented

in the planned MSS permit application. In lieu of using the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application to calculate such emissions, the permit holder may determine the emissions of the pollutant during the planned MSS activity using an appropriate method, including but not limited to, any of the methods described in paragraphs 1 through 4 below, provided that the permit holder maintains appropriate records supporting such determination:

- (1) Use of emission factor(s), facility-specific parameter(s), and/or engineering knowledge of the facility's operations.
  - (2) 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 facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.
  - (3) 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 relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.
  - (4) Use of parametric monitoring system data applicable to the facility.
31. With the exception of the emission limits in the MAERT attached to this permit, the permit conditions relating to planned MSS activities do not become effective until 180 days after issuance of the permit amendment that added such conditions.
  32. Opacity greater than 20 percent from the boilers is authorized when the permit holder complies with the planned MSS duration limitations in Special Condition No. 28 and the applicable work practices identified below.
    - A. Emissions during planned startup and shutdown activities shall be minimized by employing the following work practices: During planned startup and shutdown activities, the permit holder shall comply with the parts of the boiler and ESP manufacturers' operating procedures or the procedures in the permittee's written Standard Operating Procedures manual that impact opacity, and shall operate the boiler and ESP in a manner consistent with those procedures to minimize opacity by placing the ESP into service during planned startups once the air heater inlet gas temperature to the ESP is greater than 250°F, or removing the ESP from service as late as possible during planned shutdowns. The boiler and ESP manufacturers' operating procedures or written Standard Operating Procedure manual shall be located on-site and available to the TCEQ regional investigator.

- B. Periods of opacity greater than 20 percent from planned online and offline maintenance activities identified in Attachment A or B are authorized for no more than 900 minutes in a calendar year for all three units.
- C. The permit holder shall keep records to identify periods of planned MSS, the opacity measured by the continuous opacity monitoring system (COMS) for the duration of the planned startups and shutdowns and the planned maintenance activities identified in Attachment A or B, and the work practices in Special Condition No. 32A that are followed during the planned MSS activities for the purpose of demonstrating compliance with this permit special condition.
- D. For periods of planned MSS other than those that are subject to Paragraph A of this condition, 30 TAC §§ 111.111 and 111.153, and Chapter 101, Subchapter F apply.

**Permits by Rule and Standard Permits**

- 33. The following facilities and changes at facilities at the site are authorized by permits by rule (PBR) under 30 TAC Chapter 106 or PBR predecessor standard exemptions (SE) to 30 TAC Chapter 116. This list is not intended to be all inclusive and can be altered at the site without modification to this permit. The standard permit identified below was issued under 30 TAC Chapter 116.

| Registration No.                                       | PBR                    | Description                                     |
|--|------------------------|---|
| 70824, 70697, 70257, 49391, 47492, 38370, 43913, 39985 | § 106.261<br>§ 106.262 | Injection of spent cleaning fluid into boilers. |
| 33325  | § 106.262              | Burn water treatment activated carbon.          |
| 24666  | § 106.533              | Soil remediation.                               |

Special Conditions  
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| Standard Permit Number | Description  |
|------------------------|--|
| 45464                  | Pollution control - Installation of low NO <sub>x</sub> burners and OFA on Unit 3. |
| 48821                  | Pollution control - Installation of low NO <sub>x</sub> burners and OFA on Unit 1. |
| 46723                  | Pollution control - Fly ash handling system.                                       |
| 74352                  | Pollution control - Installation of low NO <sub>x</sub> burners and OFA on Unit 2. |

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Attachment A  
 Permit Numbers 4381 and PSDTX3  
 Inherently Low Emitting (ILE) Planned Maintenance Activities

| Planned Maintenance Activity   | Emissions |     |    |    |                 |
|--|-----------|-----|----|----|-----------------|
|  | VOC       | NOx | CO | PM | SO <sub>2</sub> |
| Water-based washing  | X         |     |    |    |                 |
| Miscellaneous particulate filter maintenance <sup>1</sup>  |           |     |    | X  |                 |
| Degassing for maintenance of storage vessels storing material with vapor pressure <0.5 psia, or material with vapor pressure >0.5 psia that does not require clearing of the vessels to allow for entry of personnel | X         |     |    |    |                 |
| Boiler general maintenance <sup>2</sup>  |           |     |    | X  |                 |
| Management of sludge from pits, ponds, sumps, and water conveyances <sup>3</sup>   | X         |     |    |    |                 |
| Organic chemical usage   | X         |     |    |    |                 |
| Inspection, repair, replacement, adjusting, testing, and calibration of analytical equipment, process instruments including sight glasses, meters, gauges, and CEMS.   | X         | X   | X  |    | X               |
| Deslagging of boiler <sup>4</sup>  | X         | X   | X  | X  |                 |
| Material handling system maintenance <sup>5</sup>  |           |     |    | X  |                 |
| Small equipment and fugitive component repair/replacement in VOC service <sup>6</sup>  | X         |     |    |    |                 |

Notes:

1. Includes, but is not limited to, baghouse filters, ash silo/transfer filters, coal handling filters, process-related building air filters, and combustion turbine air intake filters.
2. Includes pre-heater basket handling and maintenance, refractory change-out, fan maintenance and balancing, damper, air heater, and soot blower maintenance, and any other general boiler maintenance that does not exceed the worst-case emissions representation in the application.
3. Includes, but is not limited to, management by vacuum truck/dewatering of materials in open pits and ponds, and 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, explosive blasting, clinker shooting, and other boiler deslagging activities; does not include dry abrasive blasting that may occur in boilers.
5. Material handling system equipment includes, but is not limited to, silos, transport systems, coal bunkers, coal crushing equipment, coal handling, nuvafeeders, hoppers, FGD sludge handling system. Materials handled include coal, ash, limestone, gypsum, and sorbents.
6. Includes, but is not limited to, (i) repair/replacement of pumps, compressors, valves, pipes, flanges, transport lines, filters and screens in natural gas, fuel oil, diesel oil, ammonia, lube oil, and gasoline service, (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<sub>x</sub> control device maintenance (including maintenance of the anhydrous ammonia systems and aqueous ammonia systems associated with SCR systems and SNCR systems).

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Attachment B  
 Permit Numbers 4381 and PSDTX3  
 Non-ILE Planned Maintenance Activities

| Planned Maintenance Activity  | EPN                 | Emissions |         |    |    |                 |
|---|---------------------|-----------|---------|----|----|-----------------|
|   |                     | VOC       | NO<br>x | CO | PM | SO <sub>2</sub> |
| Combustion optimization <sup>1</sup>  | EPN-1, EPN-2, EPN-3 | x         | x       | x  | x  | x               |
| Vacuum truck solids loading <sup>2</sup>  | MSSFUG              |           |         |    | x  |                 |
| Vacuum truck solids unloading   | MSSFUG              |           |         |    | x  |                 |
| Degassing for maintenance of storage vessels storing gasoline or other material with vapor pressure >0.5 psia that requires clearing of the vessels to allow for entry of personnel | MSSFUG              | x         |         |    |    |                 |
| PM control device maintenance - unit online   | EPN-1, EPN-2, EPN-3 |           |         |    | x  |                 |
| Smoke test of boiler  | EPN-1, EPN-2, EPN-3 |           | x       | x  | x  | x               |
| Use of fans during maintenance - unit offline   | EPN-1, EPN-2, EPN-3 |           |         |    | x  |                 |
| Main unit planned startup and planned shutdown  | EPN-1, EPN-2, EPN-3 | x         | x       | x  | x  | x               |

Notes:

1. Includes, but is not limited to (i) leak and operability checks, (ii) balancing, and (iii) tuning activities that occur during seasonal tuning or after the completion of initial construction, a burner change-out, a major repair, maintenance to a burner, or other similar circumstances.
2. Includes site-wide solids vacuuming operations (e.g. baghouse, ESP, ducts, furnace, loop seals, stripper coolers, and airlocks).

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Emission Sources - Maximum Allowable Emission Rates

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

Air Contaminants Data

| Emission Point No.<br>(1) | Source Name (2)                        | Air Contaminant Name<br>(3)                  | Emission Rates |           |
|---------------------------|--|--|----------------|-----------|
|                           |  |  | lbs/hour (4)   | TPY (4)   |
| 1                         | Unit 1 Boiler                          | NO <sub>x</sub>                              | 1856 (6) (7)   | 7227 (6)  |
|                           |  | CO   | 8524 (6)       | 31735 (6) |
|                           |  | VOC  | 19             | 82        |
|                           |  | SO <sub>2</sub>                              | 6187.2 (7)     | 27100.0   |
|                           |  | PM   | 515.6 (7)      | 2258.3    |
|                           |  | PM/PM <sub>10</sub> /PM <sub>2.5</sub> (MSS) | 880            | -         |
| 2                         | Unit 2 Boiler                          | NO <sub>x</sub>                              | 1856 (6) (7)   | 7227 (6)  |
|                           |  | CO   | 8524 (6)       | 31735 (6) |
|                           |  | VOC  | 19             | 82        |
|                           |  | SO <sub>2</sub> (5)                          | 5771 (7)       | 25277     |
|                           |  | SO <sub>2</sub>                              | 2165 (8)       | 9483 (8)  |
|                           |  | PM (5)                                       | 387 (7)        | 1694      |
|                           |  | PM/PM <sub>10</sub> /PM <sub>2.5</sub> (MSS) | 880            | -         |
| 3                         | Unit 3 Boiler                          | NO <sub>x</sub>                              | 1856 (6) (7)   | 7227 (6)  |
|                           |  | CO   | 8524 (6)       | 31735 (6) |
|                           |  | VOC  | 19             | 82        |
|                           |  | SO <sub>2</sub> (5)                          | 5771 (7)       | 25277     |
|                           |  | PM (5)                                       | 358 (7)        | 1569      |
|                           |  | PM/PM <sub>10</sub> /PM <sub>2.5</sub> (MSS) | 880            | -         |
| 19                        | No. 1 Ash Silo<br>Telescopic Chute (9) | PM   | 0.1            | 0.1       |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No.<br>(1) | Source Name (2)                        | Air Contaminant Name<br>(3)            | Emission Rates |         |
|---------------------------|--|--|----------------|---------|
|                           |  |  | lbs/hour (4)   | TPY (4) |
| 20                        | No. 2 Ash Silo<br>Telescopic Chute (9) | PM                                     | 0.1            | 0.1     |
| 21                        | No. 3 Ash Silo<br>Telescopic Chute (9) | PM                                     | 0.1            | 0.1     |
| 17                        | Fly Ash Landfill (9)                   | PM                                     | 1.74           | 7.6     |
| MSS-FUG                   | MSS Fugitives                          | VOC                                    | 121.75         | 0.59    |
|                           |  | PM/PM <sub>10</sub> /PM <sub>2.5</sub> | 4.69           | 4.84    |
|                           |  | NO <sub>x</sub>                        | <0.1           | <0.1    |
|                           |  | CO                                     | <0.1           | <0.1    |
|                           |  | SO <sub>2</sub>                        | <0.1           | <0.1    |

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>  
 CO - carbon monoxide
- (4) Planned maintenance, startup, and shutdown (MSS) lbs/hour emissions for all pollutants are authorized even if not specifically identified as MSS. During any clock hour that includes one or more minutes of planned MSS, that pollutant's maximum hourly emission rate shall apply during that clock hour. Compliance with annual emission limits (tons per year) is based on a 12 month rolling period. Annual emission rates for each source include planned MSS emissions.
- (5) Boiler SO<sub>2</sub> and PM emissions originally authorized under PSD by letter from EPA dated November 9, 1976, which have been supplanted by this permit.
- (6) Emission rates authorized under pollution control standard permits listed in Special Condition No. 33.
- (7) Hourly NO<sub>x</sub> emissions are based upon a 30-day rolling average. Hourly SO<sub>2</sub> and PM emissions are based upon a 3-hour rolling average.
- (8) New SO<sub>2</sub> emission rate, which is based upon a 24-hour rolling average, is effective twelve months after first fire of coal at the new John W. Turk Jr. coal-fired boiler. The permit holder shall notify the TCEQ Region 5 Office within 30 days of first fire of coal at the new John W. Turk Jr. unit.
- (9) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Date: October 30, 2012