FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Graphic Packaging International, LLC

AUTHORIZING THE OPERATION OF
Texarkana Mill
Pulp Mills

LOCATED AT
Cass County, Texas
Latitude 33° 15′ 21″ Longitude 94° 4′ 17″
Regulated Entity Number: RN100543115

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 and emission units listed in this permit. Operations of the site and emission units 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 and emission units 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 and emission units.

Permit No: O1378 Issuance Date: December 23, 2025

For the Commission

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General Terms and Conditions

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

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

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

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

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

Special Terms and Conditions:

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

1. Permit holder shall comply with the following requirements:

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

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

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

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

    E. Emission units subject to 40 CFR Part 63, Subparts S, MM, JJJJ, ZZZZ, or DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC

Chapter 113, Subchapter C, § 113.240, § 113.440, § 113.930, § 113.1090, or § 113.1130 which incorporates the 40 CFR Part 63 Subparts by reference.

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):

   A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements

   B. Title 30 TAC § 101.3 (relating to Circumvention)

   C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ

   D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ

   E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)

   F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)

   G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)

   H. Title 30 TAC § 101.221 (relating to Operational Requirements)

   I. Title 30 TAC § 101.222 (relating to Demonstrations)

   J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)

3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

   A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

      (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)

      (ii) Title 30 TAC § 111.111(a)(1)(E)

      (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)

      (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that

does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

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

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

(3) Records of all observations shall be maintained.

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

(5) Compliance Certification:

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

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

determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

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

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

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

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

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

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

(2) Records of all observations shall be maintained.

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

(4) Compliance Certification:

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

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

C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)

(iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

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

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

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.

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

F. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:

(i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)

(ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)

(iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)

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

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

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

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

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

(v) 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 gasoline storage vessels with a nominal capacity greater than 1,000 gallons (Stage I) at motor vehicle fuel dispensing facilities, which have dispensed less than 100,000 gallons of gasoline in any calendar month after October 31, 2014, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:

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

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

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

(iv) Title 30 TAC § 115.226(2)(B) (relating to Recordkeeping Requirements)

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 following requirements for units subject to any subpart of 40 CFR Part 61, unless otherwise stated in the applicable subpart:

A. Title 40 CFR § 61.05 (relating to Prohibited Activities)

B. Title 40 CFR § 61.07 (relating to Application for Approval of Construction or Modification)

C. Title 40 CFR § 61.09 (relating to Notification of Start-up)

D. Title 40 CFR § 61.10 (relating to Source Reporting and Request Waiver)

E. Title 40 CFR § 61.12 (relating to Compliance with Standards and Maintenance Requirements)

F. Title 40 CFR § 61.13 (relating to Emissions Tests and Waiver of Emission Tests)

G. Title 40 CFR § 61.14 (relating to Monitoring Requirements)

H. Title 40 CFR § 61.15 (relating to Modification)

I. Title 40 CFR § 61.19 (relating to Circumvention)

7. 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.

8. For pulp and paper manufacturing facilities subject to hazardous air pollutant emission standards in 40 CFR Part 63, Subpart S, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.240 incorporated by reference):

A. Title 40 CFR § 63.440(d) (relating to Applicability), for applicable compliance dates

B. Title 40 CFR § 63.440(d)(1) (relating to Applicability), for compliance dates applicable to kraft pulping systems

9. For the individual drain systems specified in 40 CFR Part 63, Subpart RR, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.490 incorporated by reference):

A. Title 40 CFR § 63.962(a), (a)(1), (a)(2), (a)(3)(i) - (ii), (b)(1), (b)(2), (b)(2)(i)(A) - (B), (b)(2)(ii), (b)(3)(i), (b)(3)(ii)(A), (b)(3)(ii)(B)(1) - (3), (b)(4), and (b)(5)(i) - (iii) (relating to Standards)

B. Title 40 CFR § 63.964(a)(1)(i)(A) - (B), (a)(1)(ii) - (iv), (a)(2), (b)(1) - (2) (relating to Inspection and Monitoring Requirements)

C. Title 40 CFR § 63.965(a), (a)(1) - (3), (b) (relating to Recordkeeping Requirements)

D. Title 40 CFR § 63.966 (relating to Reporting Requirements)

Additional Monitoring Requirements

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

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

B. The permit holder shall report, consistent with the averaging time identified in the “CAM Summary,” deviations as defined by the deviation limit in the “CAM Summary.” Any

monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "CAM Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).

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

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

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

New Source Review Authorization Requirements

12. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated August 29, 2025 in the application for project 37920), standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

A. Are incorporated by reference into this permit as applicable requirements

B. Shall be located with this operating permit

C. Are not eligible for a permit shield

13. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.

14. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source

Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

15. 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.

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

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

        (i) Title 30 TAC Chapter 115

        (ii) Title 30 TAC Chapter 117

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

        (iv) Temporarily exceed state NSR permit allowables

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

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

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

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

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

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

Risk Management Plan

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

Protection of Stratospheric Ozone

18. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:

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

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

    C. The permit holder shall comply with 40 CFR Part 82, Subpart H related to Halon Emissions Reduction requirements as specified in 40 CFR § 82.250 - § 82.270 and the applicable Part 82 Appendices.

Temporary Fuel Shortages (30 TAC § 112.15)

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

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

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

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

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

Alternative Requirements

20. The permit holder shall comply with the approved alternative means of control (AMOC); alternative monitoring, recordkeeping, or reporting requirements; or requirements determined to be equivalent to an otherwise applicable requirement contained in the Alternative Requirements attachment of this permit. Units complying with an approved alternative requirement have reference to the approval in the Applicable Requirements summary listing for the unit. The permit

holder shall maintain the original documentation, from the EPA Administrator, demonstrating the method or limitation utilized. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.

Permit Location

21. 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)

22. 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.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Alternative Requirement

Applicable Requirements Summary

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

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
BP14	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
BP15	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
BP16	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
CTRW-1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
DIG-16	KRAFT PULP MILLS	N/A	60BB-01	40 CFR Part 60, Subpart BB	Control Device = NCG01
DIG-16	KRAFT PULP MILLS	N/A	60BB-02	40 CFR Part 60, Subpart BB	Control Device = PB02
EX7LAM1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
FIREPMP4	SRIC ENGINES	N/A	60IIII-01	40 CFR Part 60, Subpart IIII	No changing attributes.
FIREPMP4	SRIC ENGINES	N/A	63ZZZZ-01	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FIREPMPNO	SRIC ENGINES	N/A	60IIII-01	40 CFR Part 60, Subpart IIII	No changing attributes.
FIREPMPNO	SRIC ENGINES	N/A	63ZZZZ-01	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-CONC	KRAFT PULP MILLS	CONC01, CONC02	60BB-01	40 CFR Part 60, Subpart BB	Control Device = NCG01
GRP-CONC	KRAFT PULP MILLS	CONC01, CONC02	60BB-02	40 CFR Part 60, Subpart BB	Control Device = PB02
GRP-DIGEST	KRAFT PULP MILLS	DIG-1, DIG-10, DIG-11, DIG-12, DIG-13, DIG-14, DIG-15,	REG2-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		DIG-2, DIG-3, DIG-4, DIG-5, DIG-6, DIG-7, DIG-8, DIG-9, TNK 0058, TNK 0059, TNK 0166, TNK 0362			
GRP-EX	SURFACE COATING OPERATIONS	EX5, EX7	63JJJJ-1	40 CFR Part 63, Subpart JJJJ	No changing attributes.
GRP-MEES	KRAFT PULP MILLS	MEES01, MEES02	REG2-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
LK01	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
LK01	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
LK01	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	REG2-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
LK01	KRAFT PULP MILLS	N/A	REG2-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
LK01	KRAFT PULP MILLS	N/A	63MM-01	40 CFR Part 63, Subpart MM	Kraft or Soda Source Alternative = The source at an existing kraft or soda pulp mill operates 6,300 hours per year or more and is complying with the requirements of 40 CFR § 63.862(a)(1)(ii).
LK01	KRAFT PULP MILLS	N/A	63MM-02	40 CFR Part 63, Subpart MM	Kraft or Soda Source Alternative = The source at an existing kraft or soda pulp mill either operates less than 6,300 hours per year or

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					operates 6,300 hours per year or more and is complying with the requirements of 40 CFR § 63.862(a)(1)(i).
LK02	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
LK02	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
LK02	KRAFT PULP MILLS	N/A	REG2-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
LK02	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	REG2-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
LK02	KRAFT PULP MILLS	N/A	63MM-01	40 CFR Part 63, Subpart MM	Kraft or Soda Source Alternative = The source at an existing kraft or soda pulp mill operates 6,300 hours per year or more and is complying with the requirements of 40 CFR § 63.862(a)(1)(ii).
LK02	KRAFT PULP MILLS	N/A	63MM-02	40 CFR Part 63, Subpart MM	Kraft or Soda Source Alternative = The source at an existing kraft or soda pulp mill either operates less than 6,300 hours per year or operates 6,300 hours per year or more and is complying with the requirements of 40 CFR § 63.862(a)(1)(i).
LKENG1	SRIC ENGINES	N/A	63ZZZZ-01	40 CFR Part 63, Subpart ZZZZ	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
LKENG2	SRIC ENGINES	N/A	63ZZZZ-01	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
PB01	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit., Opacity Monitoring System = A continuous emissions monitoring system (CEMS) capable of measuring the opacity of emissions is installed in the vent in accordance with 30 TAC § 111.111(a)(1)(C).
PB01	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-02	30 TAC Chapter 111, Visible Emissions	Vent Source = The source of the vent is a steam generator that burns oil or a mixture of oil and gas., Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3).
PB01	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	REG2-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
PB01	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-01	40 CFR Part 63, Subpart DDDDD	No changing attributes.
PB02	EMISSION	N/A	R1151-01	30 TAC Chapter 111,	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	POINTS/STATIONARY VENTS/PROCESS VENTS			Nonagricultural Processes	
PB02	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
PB02	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	REG2-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
PB02	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60D-01A	40 CFR Part 60, Subpart D	D-Series Fuel Type #2 = Natural gas., D-Series Fuel Type #1 = Wood residue., D-Series Fuel Type #3 = Non-fossil fuel other than wood residue.
PB02	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60D-01B	40 CFR Part 60, Subpart D	D-Series Fuel Type #1 = Liquid fossil fuel.
PB02	INCINERATOR	N/A	61E-01	40 CFR Part 61, Subpart E	No changing attributes.
PB02	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-01	40 CFR Part 63, Subpart DDDDD	No changing attributes.
PRO-BLEACH	PULP PAPER PAPERBOARD PRODUCING PROCESS	N/A	63S-1	40 CFR Part 63, Subpart S	No changing attributes.
PRO-FCOND	PULP PAPER PAPERBOARD PRODUCING PROCESS	N/A	63S-1	40 CFR Part 63, Subpart S	No changing attributes.
PRO-HVLC	PULP PAPER PAPERBOARD PRODUCING PROCESS	N/A	63S-1	40 CFR Part 63, Subpart S	Control Device at Kraft, Soda, or Semi-chemical Process = Reduce total HAP emissions using a boiler or recovery furnace with a heat input

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					capacity greater than or equal to 44 megawatts by introducing the HAP emission stream with the combustion air.
PRO-HVLC	PULP PAPER PAPERBOARD PRODUCING PROCESS	N/A	63S-2	40 CFR Part 63, Subpart S	Control Device at Kraft, Soda, or Semi-chemical Process = Reduce total HAP emissions using a boiler, lime kiln, or recovery furnace by introducing the HAP emission stream with the primary fuel or into the flame zone.
PRO-LVHC	PULP PAPER PAPERBOARD PRODUCING PROCESS	N/A	63S-1	40 CFR Part 63, Subpart S	Control Device at Kraft, Soda, or Semi-chemical Process = Reduce the total HAP concentration at the outlet of the thermal oxidizer to 20 parts per million or less by volume, corrected to 10 percent oxygen on a dry basis.
PRO-LVHC	PULP PAPER PAPERBOARD PRODUCING PROCESS	N/A	63S-2	40 CFR Part 63, Subpart S	Control Device at Kraft, Soda, or Semi-chemical Process = Reduce total HAP emissions using a boiler, lime kiln, or recovery furnace by introducing the HAP emission stream with the primary fuel or into the flame zone.
RB01	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	REG2-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
RB01	KRAFT PULP MILLS	N/A	60BB-01	40 CFR Part 60, Subpart BB	No changing attributes.
RB01	KRAFT PULP MILLS	N/A	63MM-01	40 CFR Part 63, Subpart MM	Kraft or Soda Source Alternative = The source at an existing kraft or soda pulp mill operates 6,300 hours

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					per year or more and is complying with the requirements of 40 CFR § 63.862(a)(1)(ii).
RB01	KRAFT PULP MILLS	N/A	63MM-02	40 CFR Part 63, Subpart MM	Kraft or Soda Source Alternative = The source at an existing kraft or soda pulp mill either operates less than 6,300 hours per year or operates 6,300 hours per year or more and is complying with the requirements of 40 CFR § 63.862(a)(1)(i).
RB01A	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
RB01A	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
RB01B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
RB01B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
RB02	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	REG2-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
RB02	KRAFT PULP MILLS	N/A	60BB-01	40 CFR Part 60, Subpart BB	No changing attributes.
RB02	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Db-01	40 CFR Part 60, Subpart Db	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
RB02	KRAFT PULP MILLS	N/A	63MM-01	40 CFR Part 63, Subpart MM	Kraft or Soda Source Alternative = The source at an existing kraft or soda pulp mill operates 6,300 hours per year or more and is complying with the requirements of 40 CFR § 63.862(a)(1)(ii).
RB02	KRAFT PULP MILLS	N/A	63MM-02	40 CFR Part 63, Subpart MM	Kraft or Soda Source Alternative = The source at an existing kraft or soda pulp mill either operates less than 6,300 hours per year or operates 6,300 hours per year or more and is complying with the requirements of 40 CFR § 63.862(a)(1)(i).
RB02A	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
RB02A	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
RB02B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
RB02B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
SM01	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
SM01	EMISSION POINTS/STATIONARY	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	VENTS/PROCESS VENTS				
SM01	KRAFT PULP MILLS	N/A	REG2-01	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
SM01	KRAFT PULP MILLS	N/A	63MM-01	40 CFR Part 63, Subpart MM	Kraft or Soda Source Alternative = The source at an existing kraft or soda pulp mill operates 6,300 hours per year or more and is complying with the requirements of 40 CFR § 63.862(a)(1)(ii).
SM01	KRAFT PULP MILLS	N/A	63MM-02	40 CFR Part 63, Subpart MM	Kraft or Soda Source Alternative = The source at an existing kraft or soda pulp mill either operates less than 6,300 hours per year or operates 6,300 hours per year or more and is complying with the requirements of 40 CFR § 63.862(a)(1)(i).
SM02	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
SM02	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
SM02	KRAFT PULP MILLS	N/A	60BBa-01	40 CFR Part 60, Subpart BBa	No changing attributes.
SM02	KRAFT PULP MILLS	N/A	63MM-01	40 CFR Part 63, Subpart MM	Kraft or Soda Source Alternative = The source at an existing kraft or soda pulp mill operates 6,300 hours per year or more and is complying with the requirements of 40 CFR § 63.862(a)(1)(ii).

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
SM02	KRAFT PULP MILLS	N/A	63MM-02	40 CFR Part 63, Subpart MM	Kraft or Soda Source Alternative = The source at an existing kraft or soda pulp mill either operates less than 6,300 hours per year or operates 6,300 hours per year or more and is complying with the requirements of 40 CFR § 63.862(a)(1)(i).
TNK0115	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
TNK0116	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
WPEMERGEN	SRIC ENGINES	N/A	60IIII-01	40 CFR Part 60, Subpart IIII	No changing attributes.
WPEMERGEN	SRIC ENGINES	N/A	63ZZZZ-01	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)
BP14	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 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.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
BP15	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 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.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
BP16	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 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.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
CTRW-1	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
DIG-16	EU	60BB-01	TRS	40 CFR Part 60, Subpart BB	§ 60.283(a)(1)(iii)	No gases containing TRS over 5 ppmv, corrected to 10% O2 shall be discharged from the listed units, unless they are burned with other waste gases in the specified devices under the stated conditions.	§ 60.284(b) § 60.284(b)(1) § 60.284(d)(3)(ii) § 60.284(f) § 60.285(a)	§ 60.284(b)(1)	§ 60.284(d)(3)(ii)

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)
DIG-16	EU	60BB-02	TRS	40 CFR Part 60, Subpart BB	§ 60.283(a)(1)(iii)	No gases containing TRS over 5 ppmv, corrected to 10% O2 shall be discharged from the listed units, unless they are burned with other waste gases in the specified devices under the stated conditions.	§ 60.284(b) § 60.284(b)(1) § 60.284(d)(3)(ii) § 60.284(f) § 60.285(a)	§ 60.284(b)(1)	§ 60.284(d)(3)(ii)
EX7LAM1	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
FIREPMP4	EU	60IIII-01	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4205(f) § 60.4206 § 60.4207(b) § 60.4211(e) § 60.4211(e)(1) [G]§ 60.4211(f)	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and a displacement of less than 30 liters per cylinder must comply with an CO emission limit of 3.5 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
FIREPMP4	EU	60IIII-01	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4205(f) § 60.4206 § 60.4207(b) § 60.4211(e) § 60.4211(e)(1) [G]§ 60.4211(f)	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+NOx emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

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)
FIREPMP4	EU	60IIII-01	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4205(f) § 60.4206 § 60.4207(b) § 60.4211(e) § 60.4211(e)(1) [G]§ 60.4211(f)	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
FIREPMP4	EU	63ZZZZ-01	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
FIREPMPNO	EU	60IIII-01	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4205(f) § 60.4206 § 60.4207(b) § 60.4211(e) § 60.4211(e)(1)	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and a displacement of less than 30 liters per	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 60.4211(f)	cylinder must comply with an CO emission limit of 3.5 g/KW-hr, as listed in Table 4 to this subpart.			
FIREPMPNO	EU	60IIII-01	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4205(f) § 60.4206 § 60.4207(b) § 60.4211(e) § 60.4211(e)(1) [G]§ 60.4211(f)	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+NOx emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
FIREPMPNO	EU	60IIII-01	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4205(f) § 60.4206 § 60.4207(b) § 60.4211(e) § 60.4211(e)(1) [G]§ 60.4211(f)	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
FIREPMPNO	EU	63ZZZZ-01	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						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.			
GRP-CONC	EU	60BB-01	TRS	40 CFR Part 60, Subpart BB	§ 60.283(a)(1)(iii)	No gases containing TRS over 5 ppmv, corrected to 10% O2 shall be discharged from the listed units, unless they are burned with other waste gases in the specified devices under the stated conditions.	§ 60.284(b) § 60.284(b)(1) § 60.284(d)(3)(ii) § 60.284(f) § 60.285(a)	§ 60.284(b)(1)	§ 60.284(d)(3)(ii)
GRP-CONC	EU	60BB-02	TRS	40 CFR Part 60, Subpart BB	§ 60.283(a)(1)(iii)	No gases containing TRS over 5 ppmv, corrected to 10% O2 shall be discharged from the listed units, unless they are burned with other waste gases in the specified devices under the stated conditions.	§ 60.284(b) § 60.284(b)(1) § 60.284(d)(3)(ii) § 60.284(f) § 60.285(a)	§ 60.284(b)(1)	§ 60.284(d)(3)(ii)
GRP-DIGEST	EU	REG2-01	TRS	30 TAC Chapter 112, Sulfur Compounds	§ 112.51(b)(2)	Digester system, multiple-effect evaporator system, or condensate stripper system shall not exceed 5 ppm TRS, as H2S on a dry basis, corrected to 8% O2 unless gases are burned as specified.	§ 112.51(c) § 112.55 [G]§ 112.57(a) [G]§ 112.57(b) [G]§ 112.57(c)	[G]§ 112.57(c)	§ 112.59
GRP-EX	PRO	63JJJJ-1	112(B) HAPS	40 CFR Part 63, Subpart JJJJ	§ 63.3320(a) § 63.3320(b)(2)	Organic HAP emissions must be limited to no more	§ 63.3360(a)(1) § 63.3360(c)	§ 63.3410(a) § 63.3410(a)(1)	§ 63.3400(a) § 63.3400(b)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.3320(c)	than 4 percent of the mass of coating materials applied for each month at existing affected sources.	§ 63.3360(c)(3) § 63.3360(c)(4) § 63.3370(a)(1)(i) [G]§ 63.3370(b)	§ 63.3410(a)(1)(iii) § 63.3410(a)(1)(vi)	§ 63.3400(b)(3) § 63.3400(b)(4) § 63.3400(c) [G]§ 63.3400(c)(1) § 63.3400(c)(2)(i) § 63.3400(c)(2)(ii) § 63.3400(c)(2)(iii) § 63.3400(c)(2)(iv) § 63.3400(c)(2)(v)(A) § 63.3400(c)(2)(v)(B) § 63.3400(e)
GRP-MEES	EU	REG2-01	TRS	30 TAC Chapter 112, Sulfur Compounds	§ 112.51(b)(2)	Digester system, multiple-effect evaporator system, or condensate stripper system shall not exceed 5 ppm TRS, as H2S on a dry basis, corrected to 8% O2 unless gases are burned as specified.	§ 112.51(c) § 112.55 [G]§ 112.57(a) [G]§ 112.57(b) [G]§ 112.57(c)	[G]§ 112.57(c)	§ 112.59
LK01	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
LK01	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
LK01	EU	REG2-01	SO_2	30 TAC Chapter 112, Sulfur Compounds	§ 112.9(a)	No person may cause, suffer, allow, or permit emissions of SO2 from any	§ 112.2(a) ** See Periodic Monitoring	§ 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 (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						liquid fuel-fired steam generator, furnace, or heater to exceed 440 ppmv at actual stack conditions and averaged over 3-hours.	Summary		
LK01	EU	REG2-01	TRS	30 TAC Chapter 112, Sulfur Compounds	§ 112.51(b)(3)	Lime kilns shall not exceed 20 ppm TRS as H2S on a dry basis corrected to 10% O2.	§ 112.51(c) § 112.55 [G]§ 112.57(a) [G]§ 112.57(b) [G]§ 112.57(c)	[G]§ 112.57(c)	§ 112.59
LK01	EU	63MM-01	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(ii) § 63.860(d) § 63.862(a)(1)(ii)(A) § 63.862(a)(1)(ii)(B) § 63.862(a)(1)(ii)(C) [G]§ 63.862(a)(1)(ii)(D) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(2) § 63.864(k)(2)(iv) § 63.864(k)(3) § 63.865(a)(1) § 63.865(a)(2) § 63.865(a)(2)(iv) § 63.867(b)(4)	Instead of 63.862(a)(1)(i) kraft or soda pulp mill may have PM emissions limits for existing kraft or soda recovery furnace, smelt dissolving tank, and lime kiln that operates 6300 hrs/yr or more.	§ 63.860(d) § 63.864(e)(10) § 63.864(e)(10)(i) § 63.864(e)(10)(ii) § 63.864(f) § 63.864(h) [G]§ 63.864(j) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(2) § 63.864(k)(2)(iv) § 63.864(k)(3) § 63.865 § 63.865(a)(1) § 63.865(a)(2) § 63.865(a)(2)(iii) § 63.865(a)(2)(iv) § 63.865(a)(2)(v) [G]§ 63.865(b)	§ 63.864(e)(10) § 63.866(b) § 63.866(c) § 63.866(c)(2) § 63.866(c)(3) § 63.866(c)(4) § 63.866(c)(5) [G]§ 63.866(d)	§ 63.867(a)(1) § 63.867(b)(1) § 63.867(b)(2) § 63.867(b)(3) § 63.867(b)(3)(i) § 63.867(b)(3)(ii) § 63.867(b)(3)(iii) § 63.867(b)(4) § 63.867(c) § 63.867(c)(1) [G]§ 63.867(c)(3) § 63.867(c)(4) [G]§ 63.867(d)
LK01	EU	63MM-02	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(i)(C) § 63.860(d) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(2) § 63.864(k)(2)(iv) § 63.864(k)(3) [G]§ 63.866	Each existing kraft or soda lime kiln must have concentration of PM in the exhaust gases discharged to the atmosphere be less than or equal to 0.15 g/dscm correct to 10% oxygen.	§ 63.860(d) § 63.864(e)(10) § 63.864(e)(10)(i) § 63.864(e)(10)(ii) § 63.864(f) § 63.864(h) [G]§ 63.864(j) § 63.864(k)(1) § 63.864(k)(1)(ii)	§ 63.864(e)(10) § 63.866(b) § 63.866(c) § 63.866(c)(2) § 63.866(c)(3) § 63.866(c)(4) § 63.866(c)(5) [G]§ 63.866(d)	§ 63.867(a)(1) § 63.867(b)(3) § 63.867(b)(3)(i) § 63.867(b)(3)(iii) § 63.867(c) § 63.867(c)(1) [G]§ 63.867(c)(3) § 63.867(c)(4) [G]§ 63.867(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)
							§ 63.864(k)(2) § 63.864(k)(2)(iv) § 63.864(k)(3) § 63.865 [G]§ 63.865(b)		
LK02	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
LK02	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 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.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
LK02	EU	REG2-01	SO_2	30 TAC Chapter 112, Sulfur Compounds	§ 112.9(a) § 112.9(b)	No person may cause, suffer, allow, or permit emissions of SO2 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) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)
LK02	EU	REG2-01	TRS	30 TAC Chapter 112, Sulfur Compounds	§ 112.51(b)(3)	Lime kilns shall not exceed 20 ppm TRS as H2S on a dry basis corrected to 10% O2.	§ 112.51(c) § 112.55 [G]§ 112.57(a) [G]§ 112.57(b) [G]§ 112.57(c)	[G]§ 112.57(c)	§ 112.59

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)
LK02	EU	63MM-01	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(ii) § 63.860(d) § 63.862(a)(1)(ii)(A) § 63.862(a)(1)(ii)(C) [G]§ 63.862(a)(1)(ii)(D) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(2) § 63.864(k)(2)(iv) § 63.864(k)(3) § 63.865(a)(1) [G]§ 63.865(a)(2) § 63.867(b)(4)	Instead of 63.862(a)(1)(i) kraft or soda pulp mill may have PM emissions limits for existing kraft or soda recovery furnace, smelt dissolving tank, and lime kiln that operates 6300 hrs/yr or more.	§ 63.860(d) § 63.864(e)(10) § 63.864(e)(10)(i) § 63.864(e)(10)(ii) § 63.864(f) § 63.864(h) [G]§ 63.864(j) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(2) § 63.864(k)(2)(iv) § 63.864(k)(3) § 63.865 § 63.865(a)(1) [G]§ 63.865(a)(2) [G]§ 63.865(b)	§ 63.864(e)(10) § 63.866(b) § 63.866(c) § 63.866(c)(2) § 63.866(c)(3) § 63.866(c)(4) § 63.866(c)(5) [G]§ 63.866(d)	§ 63.867(a)(1) § 63.867(b)(1) § 63.867(b)(2) [G]§ 63.867(b)(3) § 63.867(b)(4) § 63.867(c) § 63.867(c)(1) [G]§ 63.867(c)(3) § 63.867(c)(4) [G]§ 63.867(d)
LK02	EU	63MM-02	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(i)(C) § 63.860(d) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(2) § 63.864(k)(2)(iv) § 63.864(k)(3) [G]§ 63.866	Each existing kraft or soda lime kiln must have concentration of PM in the exhaust gases discharged to the atmosphere be less than or equal to 0.15 g/dscm correct to 10% oxygen.	§ 63.860(d) § 63.864(e)(10) § 63.864(e)(10)(i) § 63.864(e)(10)(ii) § 63.864(f) § 63.864(h) [G]§ 63.864(j) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(2) § 63.864(k)(2)(iv) § 63.864(k)(3) § 63.865 [G]§ 63.865(b)	§ 63.864(e)(10) § 63.866(b) § 63.866(c) § 63.866(c)(2) § 63.866(c)(3) § 63.866(c)(4) § 63.866(c)(5) [G]§ 63.866(d)	§ 63.867(a)(1) § 63.867(b)(3) § 63.867(b)(3)(i) § 63.867(b)(3)(iii) § 63.867(c) § 63.867(c)(1) [G]§ 63.867(c)(3) § 63.867(c)(4) [G]§ 63.867(d)
LKENG1	EU	63ZZZZ-01	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table 2c.2 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i)	For each existing non-emergency, non-black start stationary CI RICE with a site rating less than 100 HP, located at a major source, you must comply with the requirements as specified in Table 2c.2.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
LKENG2	EU	63ZZZZ-01	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table 2c.2 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i)	For each existing non-emergency, non-black start stationary CI RICE with a site rating less than 100 HP, located at a major source, you must comply with the requirements as specified in Table 2c.2.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
PB01	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
PB01	EP	R1111-02	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
PB01	EU	REG2-01	SO_2	30 TAC Chapter 112, Sulfur Compounds	§ 112.9(a)	No person may cause, suffer, allow, or permit emissions of SO2 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) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)
PB01	EU	63DDDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.3 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10)	A new or existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater must conduct a tune-up of the	§ 63.7515(d) [G]§ 63.7521(f) [G]§ 63.7521(g) § 63.7521(h) § 63.7521(i) § 63.7530(g) § 63.7540(a)	§ 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(g) § 63.7555(h) § 63.7560(a) § 63.7560(b)	[G]§ 63.7521(g) § 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.7540(a)(13)	boiler or process heater annually as specified in § 63.7540. Units in either the Gas 1 or Metal Process Furnace subcategories will conduct this tune-up as a work practice for all regulated emissions.	[G]§ 63.7540(a)(10) [G]§ 63.7540(c)	§ 63.7560(c)	[G]§ 63.7545(f) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h)
PB02	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
PB02	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E) § 111.111(a)(3)	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.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
PB02	EU	REG2-01	SO_2	30 TAC Chapter 112, Sulfur Compounds	§ 112.9(a)	No person may cause, suffer, allow, or permit emissions of SO2 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) § 112.9(d)	§ 112.2(c)	§ 112.2(b)
PB02	EU	60D-01A	NO_X	40 CFR Part 60, Subpart D	§ 60.44(a)(2)	On/after the §60.8 test, no affected facility shall emit gases containing NO_x,	§ 60.45(a) § 60.45(b)(3) § 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_2 in excess of 129 ng/J heat input (0.30 lb/MMBtu) derived from liquid fossil fuel, liquid fossil fuel and wood residue, or gaseous fossil fuel and wood residue.	§ 60.45(c)(1) § 60.45(c)(2) § 60.45(c)(5) [G]§ 60.45(e) [G]§ 60.45(f) § 60.45(g) § 60.45(g)(3) § 60.45(g)(3)(i) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7)		
PB02	EU	60D-01A	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 test, 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) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
PB02	EU	60D-01A	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.	§ 60.13 **See Alternative Requirement	None	None
PB02	EU	60D-01A	SO2	40 CFR Part 60, Subpart D	§ 60.40(a)	The affected facility burns fuel (such as only gaseous fuels) that has no specific SO2 emission requirements.	§ 60.45(a) § 60.45(c) § 60.45(c)(1) § 60.45(c)(2) § 60.45(c)(5) [G]§ 60.45(e)	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)
							[G]§ 60.45(f) § 60.45(g) § 60.45(g)(2)(i)		
PB02	EU	60D-01B	NO_X	40 CFR Part 60, Subpart D	§ 60.44(a)(2)	On/after the §60.8 test, no affected facility shall emit gases containing NO_x, expressed as NO_2 in excess of 129 ng/J heat input (0.30 lb/MMBtu) derived from liquid fossil fuel, liquid fossil fuel and wood residue, or gaseous fossil fuel and wood residue.	§ 60.45(a) § 60.45(b)(3) § 60.45(c) § 60.45(c)(1) § 60.45(c)(2) § 60.45(c)(3) § 60.45(c)(3)(i) § 60.45(c)(3)(ii) [G]§ 60.45(e) [G]§ 60.45(f) § 60.45(g) § 60.45(g)(3) § 60.45(g)(3)(i) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7)	None	§ 60.45(g)
PB02	EU	60D-01B	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 test, 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) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
PB02	EU	60D-01B	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-	§ 60.13(i)(1) **See Alternative Requirement	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)
						minute period per hour of not more than 27% opacity.			
PB02	EU	60D-01B	SO_2	40 CFR Part 60, Subpart D	§ 60.43(a)(1)	On/after the §60.8 test, no affected facility shall emit gases containing SO_2 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) § 60.45(c) § 60.45(c)(1) § 60.45(c)(2) § 60.45(c)(3) § 60.45(c)(3)(i) § 60.45(c)(3)(ii) [G]§ 60.45(e) [G]§ 60.45(f) § 60.45(g) § 60.45(g)(2)(i) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(4) [G]§ 60.46(d)(1) [G]§ 60.46(d)(3) § 60.46(d)(4) § 60.46(d)(6) § 60.46(d)(7)	None	§ 60.45(g)
PB02	EU	61E-01	Mercury	40 CFR Part 61, Subpart E	§ 61.52(b) § 61.54(e)	Emissions from sludge incineration plants, sludge drying plants, or a combination of these that process wastewater treatment plant sludges shall not exceed 3.2 kg (7.1 lb) of mercury per 24-hour period.	[G]§ 61.54(a) [G]§ 61.54(c) § 61.54(d) § 61.54(f)	§ 61.54(g)	§ 61.54(b) § 61.54(e) § 61.54(f)
PB02	EU	63DDDDD-01	CO	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 2.13.a § 63.7500(a)(1) § 63.7500(a)(1)-Table 3.3 [G]§ 63.7500(a)(1)-Table 3.5 § 63.7500(a)(1)-	For existing hybrid suspension grate units with heat input capacity of 10 million Btu per hour or greater designed to burn biomass/bio-based solids, carbon monoxide (not using CEMS alternative) shall not	§ 63.7505(c) § 63.7505(d) § 63.7510(a) § 63.7510(a)(1) [G]§ 63.7510(a)(2) § 63.7510(c) § 63.7510(e) § 63.7510(h)	§ 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(c)	§ 63.7515(f) § 63.7530(e) § 63.7530(f) § 63.7540(b) § 63.7540(d) § 63.7545(a) § 63.7545(b) § 63.7545(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					Table 3.6 § 63.7500(a)(2) § 63.7500(a)(2)-Table 4.7 § 63.7500(a)(2)-Table 4.8 § 63.7500(a)(3) § 63.7500(f) § 63.7505(a) § 63.7505(d) § 63.7505(e) § 63.7530(h) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10) § 63.7540(a)(13) § 63.7540(d)	exceed 3500 ppm by volume on a dry basis corrected to 3 percent oxygen, 3-run average, using specified sampling volume or test run duration.	§ 63.7510(j) § 63.7510(k) § 63.7515(a) § 63.7515(b) § 63.7515(c) § 63.7515(g) § 63.7520(a) § 63.7520(b) [G]§ 63.7520(b)-Table 5.5 § 63.7520(c) § 63.7520(d) § 63.7520(f) § 63.7525(a) § 63.7525(a)(1) [G]§ 63.7525(a)(2) § 63.7525(a)(3) § 63.7530(a) § 63.7530(b) § 63.7530(b)(4) § 63.7530(b)(4)(viii) § 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10)	[G]§ 63.7555(d) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7545(d) [G]§ 63.7545(e) [G]§ 63.7545(h) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(d) [G]§ 63.7550(h)
PB02	EU	63DDDDD-01	Hydrogen Chloride	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 2.1.a § 63.7500(a)(1) § 63.7500(a)(1)-Table 3.3 [G]§ 63.7500(a)(1)-Table 3.5 § 63.7500(a)(1)-Table 3.6 § 63.7500(a)(2) § 63.7500(a)(2)-	For existing units in all subcategories with heat input capacity of 10 million Btu per hour or greater designed to burn solid fuel, hydrogen chloride shall not exceed 0.022 lb per MMBtu heat input, using specified sampling volume or test run duration.	§ 63.7500(a)(2)-Table 4.2 § 63.7505(c) § 63.7505(d) § 63.7510(b) § 63.7510(e) § 63.7510(h) § 63.7510(j) § 63.7510(k) § 63.7515(e) § 63.7515(g)	§ 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) [G]§ 63.7540(a)(2) § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(c) [G]§ 63.7555(d) § 63.7560(a)	§ 63.7515(f) § 63.7530(e) § 63.7530(f) § 63.7540(b) § 63.7540(d) § 63.7545(a) § 63.7545(b) § 63.7545(c) § 63.7545(d) [G]§ 63.7545(e) [G]§ 63.7545(h)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					Table 4.7 § 63.7500(a)(3) § 63.7500(f) § 63.7505(a) § 63.7505(d) § 63.7505(e) § 63.7530(h) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10) § 63.7540(a)(13) [G]§ 63.7540(a)(3) § 63.7540(a)(4) § 63.7540(d)		§ 63.7521(a) [G]§ 63.7521(b) [G]§ 63.7521(c) [G]§ 63.7521(d) § 63.7521(e) § 63.7530(a) § 63.7530(b) [G]§ 63.7530(b)(1) § 63.7530(b)(4) § 63.7530(b)(4)(i) [G]§ 63.7530(c) § 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10) [G]§ 63.7540(a)(3) § 63.7540(a)(4)	§ 63.7560(b) § 63.7560(c)	§ 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(d) [G]§ 63.7550(h)
PB02	EU	63DDDDD-01	Mercury	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 2.1.b § 63.7500(a)(1)-Table 3.3 [G]§ 63.7500(a)(1)-Table 3.5 § 63.7500(a)(1)-Table 3.6 § 63.7500(a)(2) § 63.7500(a)(2)-Table 4.7 § 63.7500(a)(3) § 63.7500(f) § 63.7505(a) § 63.7505(d) § 63.7505(e) § 63.7530(h) § 63.7540(a) § 63.7540(a)(1)	For existing units in all subcategories with heat input capacity of 10 million Btu per hour or greater designed to burn solid fuel, mercury shall not exceed 0.0000057 lb per MMBtu heat input, using specified sampling volume or test run duration.	§ 63.7505(c) § 63.7505(d) § 63.7510(b) § 63.7510(e) § 63.7510(h) § 63.7510(j) § 63.7510(k) § 63.7515(e) § 63.7515(g) § 63.7521(a) [G]§ 63.7521(b) [G]§ 63.7521(c) [G]§ 63.7521(d) § 63.7521(e) § 63.7530(a) § 63.7530(b) § 63.7530(b)(2) § 63.7530(b)(4) § 63.7530(b)(4)(i)	§ 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) [G]§ 63.7540(a)(2) § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(c) [G]§ 63.7555(d) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7515(f) § 63.7530(e) § 63.7530(f) § 63.7540(b) § 63.7540(d) § 63.7545(a) § 63.7545(b) § 63.7545(c) § 63.7545(d) [G]§ 63.7545(e) [G]§ 63.7545(h) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(d) [G]§ 63.7550(h)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 63.7540(a)(10) § 63.7540(a)(13) [G]§ 63.7540(a)(5) § 63.7540(d)		[G]§ 63.7530(c) § 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10) [G]§ 63.7540(a)(5)		
PB02	EU	63DDDDD-01	PM	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 2.13.b § 63.7500(a)(1) § 63.7500(a)(1)-Table 3.3 [G]§ 63.7500(a)(1)-Table 3.5 § 63.7500(a)(1)-Table 3.6 § 63.7500(a)(2) § 63.7500(a)(2)-Table 4.1 § 63.7500(a)(2)-Table 4.7 § 63.7500(a)(3) § 63.7500(f) § 63.7505(a) § 63.7505(d) § 63.7505(e) § 63.7530(h) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10) § 63.7540(a)(13) § 63.7540(d)	For existing hybrid suspension grate units with heat input capacity of 10 million Btu per hour or greater designed to burn biomass/bio-based solids, filterable particulate matter shall not exceed 0.44 lb per MMBtu heat input, using specified sampling volume or test run duration.	§ 63.7505(c) § 63.7505(d) § 63.7510(a) § 63.7510(a)(1) [G]§ 63.7510(a)(2) § 63.7510(d) § 63.7510(e) § 63.7510(h) § 63.7510(j) § 63.7510(k) § 63.7515(a) § 63.7515(b) § 63.7515(c) § 63.7515(g) § 63.7520(a) § 63.7520(b) § 63.7520(b)-Table 5.1 § 63.7520(c) § 63.7520(d) § 63.7520(e) § 63.7520(f) [G]§ 63.7525(f) § 63.7530(a) § 63.7530(b) § 63.7530(b)(4) § 63.7530(b)(4)(iii) § 63.7535(a) § 63.7535(b) § 63.7535(c)	§ 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(c) [G]§ 63.7555(d) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7515(f) § 63.7530(e) § 63.7530(f) § 63.7540(b) § 63.7540(d) § 63.7545(a) § 63.7545(b) § 63.7545(c) § 63.7545(d) [G]§ 63.7545(e) [G]§ 63.7545(h) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(d) [G]§ 63.7550(h)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 63.7535(d) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10)		
PRO-BLEACH	PRO	63S-1	112(B) HAPS	40 CFR Part 63, Subpart S	§ 63.443(a) § 63.443(c) § 63.443(d)(2) [G]§ 63.443(e) § 63.450(b) § 63.450(c) § 63.453(m)	Pulping systems using the kraft process subject to this subpart shall control the HAP emissions from the following equipment systems according to §§63.440(c)-(d).	§ 63.453(a) § 63.453(b) [G]§ 63.453(k) § 63.453(m) [G]§ 63.453(n) § 63.453(o) § 63.457(a) [G]§ 63.457(b) [G]§ 63.457(d) [G]§ 63.457(e) [G]§ 63.457(f) [G]§ 63.457(i) [G]§ 63.457(k) **See Alternative Requirement	§ 63.454(a) [G]§ 63.454(b) § 63.454(d)	[G]§ 63.453(n) § 63.453(o) § 63.455(a) [G]§ 63.455(b) § 63.455(d)
PRO-BLEACH	PRO	63S-1	112(B) HAPS	40 CFR Part 63, Subpart S	§ 63.445(a) § 63.445(b) § 63.445(c)(2) § 63.445(d)(2) § 63.450(b) § 63.450(c) § 63.453(m)	Bleaching systems that do not use chlorinated compounds are exempt from requirements of this section. The following bleaching systems shall meet the provisions of this section: §63.445(a)(1)-(3).	§ 63.453(a) [G]§ 63.453(c) [G]§ 63.453(k) § 63.453(m) [G]§ 63.453(n) § 63.453(o) § 63.457(a) [G]§ 63.457(b) [G]§ 63.457(d) [G]§ 63.457(e) § 63.457(h) [G]§ 63.457(i)	§ 63.454(a) [G]§ 63.454(b) § 63.454(d)	[G]§ 63.453(n) § 63.453(o) § 63.455(a) § 63.455(d)
PRO-FCOND	PRO	63S-1	112(B) HAPS	40 CFR Part 63, Subpart S	§ 63.443(a) § 63.443(c) § 63.443(d)(2) [G]§ 63.443(e) § 63.446(c)(1) § 63.446(d) § 63.446(d)(1)	Pulping systems using the kraft process subject to this subpart shall control the HAP emissions from the following equipment systems according to §§63.440(c)-(d).	§ 63.453(a) § 63.453(b) § 63.453(i) § 63.453(j) § 63.453(j)(2) [G]§ 63.453(j)(3) [G]§ 63.453(k)	§ 63.453(p) [G]§ 63.453(p)(1) [G]§ 63.453(p)(2) § 63.454(a) [G]§ 63.454(b) § 63.454(d) § 63.454(f)	[G]§ 63.453(n) § 63.453(o) § 63.455(a) [G]§ 63.455(b) § 63.455(d) § 63.455(e)

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					[G]§ 63.446(d)(2) § 63.446(e)(2) § 63.446(e)(5) § 63.450(b) § 63.450(c) § 63.453(m)		§ 63.453(l) [G]§ 63.453(l)(1) § 63.453(l)(2) § 63.453(l)(3) § 63.453(m) [G]§ 63.453(n) § 63.453(o) § 63.453(p) [G]§ 63.453(p)(1) [G]§ 63.453(p)(2) § 63.457(a) [G]§ 63.457(b) § 63.457(c) [G]§ 63.457(c)(1) § 63.457(c)(2) [G]§ 63.457(c)(3) [G]§ 63.457(c)(4) [G]§ 63.457(c)(5) [G]§ 63.457(c)(6) [G]§ 63.457(d) [G]§ 63.457(e) [G]§ 63.457(f) § 63.457(g) [G]§ 63.457(i) [G]§ 63.457(j) [G]§ 63.457(k) § 63.457(l) § 63.457(l)(2) **See Alternative Requirement		
PRO-HVLC	PRO	63S-1	112(B) HAPS	40 CFR Part 63, Subpart S	§ 63.443(a) § 63.443(c) § 63.443(d)(4) § 63.443(d)(4)(ii) [G]§ 63.443(e) § 63.450(b) § 63.450(c) § 63.450(d)(1)	Pulping systems using the kraft process subject to this subpart shall control the HAP emissions from the following equipment systems according to §§63.440(c)-(d).	[G]§ 63.457(d) [G]§ 63.457(e)	§ 63.454(a) [G]§ 63.454(b) § 63.454(d) § 63.454(e)	§ 63.455(a) § 63.455(d)

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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)
PRO-HVLC	PRO	63S-2	112(B) HAPS	40 CFR Part 63, Subpart S	§ 63.443(a) § 63.443(c) § 63.443(d)(4) § 63.443(d)(4)(i) [G]§ 63.443(e) § 63.450(b) § 63.450(c) § 63.450(d)(1)	Pulping systems using the kraft process subject to this subpart shall control the HAP emissions from the following equipment systems according to §§63.440(c)-(d).	[G]§ 63.457(d) [G]§ 63.457(e)	§ 63.454(a) [G]§ 63.454(b) § 63.454(d) § 63.454(e)	§ 63.455(a) § 63.455(d)
PRO-LVHC	PRO	63S-1	112(B) HAPS	40 CFR Part 63, Subpart S	§ 63.443(a) § 63.443(c) § 63.443(d)(2) [G]§ 63.443(e) § 63.450(b) § 63.450(c) § 63.450(d)(1)	Pulping systems using the kraft process subject to this subpart shall control the HAP emissions from the following equipment systems according to §§63.440(c)-(d).	§ 63.453(a) § 63.453(b) [G]§ 63.453(k) [G]§ 63.453(n) § 63.453(o) § 63.457(a) [G]§ 63.457(b) [G]§ 63.457(d) [G]§ 63.457(e) [G]§ 63.457(f) [G]§ 63.457(i) [G]§ 63.457(k)	§ 63.454(a) [G]§ 63.454(b) § 63.454(d) § 63.454(e)	[G]§ 63.453(n) § 63.453(o) § 63.455(a) § 63.455(d)
PRO-LVHC	PRO	63S-2	112(B) HAPS	40 CFR Part 63, Subpart S	§ 63.443(a) § 63.443(c) § 63.443(d)(4) § 63.443(d)(4)(i) [G]§ 63.443(e) § 63.450(b) § 63.450(c) § 63.450(d)(1)	Pulping systems using the kraft process subject to this subpart shall control the HAP emissions from the following equipment systems according to §§63.440(c)-(d).	[G]§ 63.457(d) [G]§ 63.457(e)	§ 63.454(a) [G]§ 63.454(b) § 63.454(d) § 63.454(e)	§ 63.455(a) § 63.455(d)
RB01	EU	REG2-01	SO_2	30 TAC Chapter 112, Sulfur Compounds	§ 112.9(a)	No person may cause, suffer, allow, or permit emissions of SO2 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) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)
RB01	EU	60BB-01	PM	40 CFR Part 60,	§ 60.282(a)(1)(i)	On and after the	§ 60.285(a)	None	None

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				Subpart BB		performance test completion no owner/operator shall discharge to the atmosphere from recovery furnaces gases containing PM in excess of 0.044 gr/dscf corrected to 8% oxygen.	§ 60.285(b) § 60.285(b)(1) § 60.285(b)(2) § 60.285(f)(1) ** See CAM Summary		
RB01	EU	60BB-01	PM (Opacity)	40 CFR Part 60, Subpart BB	§ 60.282(a)(1)(ii)	On and after the performance test completion no owner/operator shall discharge to the atmosphere from recovery furnaces gases exhibiting 35% opacity or greater.	§ 60.284(a) § 60.284(a)(1) § 60.284(d) § 60.284(d)(1)(ii) [G]§ 60.284(e) § 60.284(f) § 60.285(a) § 60.285(b) § 60.285(b)(3)	§ 60.284(a)(1)	§ 60.284(d) § 60.284(d)(1)(ii)
RB01	EU	60BB-01	TRS	40 CFR Part 60, Subpart BB	§ 60.283(a)(2)	On and after the performance test completion, no owner/operator shall discharge to the atmosphere from straight kraft recovery furnaces gases with TRS over 5 ppmv dry basis, corrected to 8% O2.	§ 60.284(a) [G]§ 60.284(a)(2) § 60.284(c)(1) § 60.284(c)(2) § 60.284(c)(3) § 60.284(d) § 60.284(d)(1)(i) [G]§ 60.284(e) § 60.284(f) § 60.285(a) § 60.285(d)(1) § 60.285(d)(2) § 60.285(d)(3) § 60.285(f)(2)	[G]§ 60.284(a)(2) § 60.284(c)(1) § 60.284(c)(2) § 60.284(c)(3)	§ 60.284(d) § 60.284(d)(1)(i)
RB01	EU	63MM-01	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(ii) § 63.860(d) § 63.862(a)(1)(ii)(A) § 63.862(a)(1)(ii)(B) § 63.862(a)(1)(ii)(C) [G]§	Instead of 63.862(a)(1)(i) kraft or soda pulp mill may have PM emissions limits for existing kraft or soda recovery furnace, smelt dissolving tank, and lime	§ 63.860(d) § 63.864(d) § 63.864(d)(3) § 63.864(d)(4) § 63.864(e)(1) § 63.864(f)	§ 63.864(d)(3) § 63.864(d)(4) § 63.866(b) § 63.866(c) § 63.866(c)(1) § 63.866(c)(3)	§ 63.867(a)(1) § 63.867(b)(1) § 63.867(b)(2) § 63.867(b)(3) § 63.867(b)(3)(i) § 63.867(b)(3)(ii)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					63.862(a)(1)(ii)(D) § 63.864(k)(1) § 63.864(k)(1)(i) § 63.864(k)(2) § 63.864(k)(2)(i) § 63.865(a)(1) [G]§ 63.865(a)(2) § 63.867(b)(4)	kiln that operates 6300 hrs/yr or more.	§ 63.864(h) § 63.864(k)(1) § 63.864(k)(1)(i) § 63.864(k)(2) § 63.864(k)(2)(i) § 63.865 § 63.865(a)(1) [G]§ 63.865(a)(2) [G]§ 63.865(b)	§ 63.866(c)(4) § 63.866(c)(8) [G]§ 63.866(d)	§ 63.867(b)(3)(iv) § 63.867(b)(4) § 63.867(c) § 63.867(c)(1) [G]§ 63.867(c)(3) § 63.867(c)(4) [G]§ 63.867(d)
RB01	EU	63MM-02	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(i)(A) § 63.864(k)(1) § 63.864(k)(1)(i) § 63.864(k)(2) § 63.864(k)(2)(i) § 63.864(k)(3)	Each existing kraft or soda recovery furnace must have concentration of PM in the exhaust gases discharged to the atmosphere be less than or equal to 0.10 g/dscm corrected to 8% oxygen.	§ 63.860(d) § 63.864(d) § 63.864(d)(3) § 63.864(d)(4) § 63.864(e)(1) § 63.864(f) § 63.864(h) § 63.864(k)(1) § 63.864(k)(1)(i) § 63.864(k)(2) § 63.864(k)(2)(i) § 63.864(k)(3) § 63.865 [G]§ 63.865(b)	§ 63.864(d)(3) § 63.864(d)(4) § 63.866(b) § 63.866(c) § 63.866(c)(1) § 63.866(c)(3) § 63.866(c)(4) § 63.866(c)(8) [G]§ 63.866(d)	§ 63.867(a)(1) § 63.867(b)(3) § 63.867(b)(3)(i) § 63.867(b)(3)(iv) § 63.867(c) § 63.867(c)(1) [G]§ 63.867(c)(3) § 63.867(c)(4) [G]§ 63.867(d)
RB01A	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
RB01A	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring	§ 111.111(a)(1)(C) § 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)
							Summary		
RB01B	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
RB01B	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
RB02	EU	REG2-01	SO_2	30 TAC Chapter 112, Sulfur Compounds	§ 112.9(a)	No person may cause, suffer, allow, or permit emissions of SO2 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) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)
RB02	EU	60BB-01	PM	40 CFR Part 60, Subpart BB	§ 60.282(a)(1)(i)	On and after the performance test completion no owner/operator shall discharge to the atmosphere from recovery furnaces gases containing PM in excess of 0.044 gr/dscf corrected to 8% oxygen.	§ 60.285(a) § 60.285(b) § 60.285(b)(1) § 60.285(b)(2) § 60.285(f)(1) ** See CAM Summary	None	None
RB02	EU	60BB-01	PM	40 CFR Part 60,	§ 60.282(a)(1)(ii)	On and after the	§ 60.284(a)	§ 60.284(a)(1)	§ 60.284(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)
			(Opacity)	Subpart BB		performance test completion no owner/operator shall discharge to the atmosphere from recovery furnaces gases exhibiting 35% opacity or greater.	§ 60.284(a)(1) § 60.284(d) § 60.284(d)(1)(ii) [G]§ 60.284(e) § 60.284(f) § 60.285(a) § 60.285(b) § 60.285(b)(3)		§ 60.284(d)(1)(ii)
RB02	EU	60BB-01	TRS	40 CFR Part 60, Subpart BB	§ 60.283(a)(2)	On and after the performance test completion, no owner/operator shall discharge to the atmosphere from straight kraft recovery furnaces gases with TRS over 5 ppmv dry basis, corrected to 8% O2.	§ 60.284(a) [G]§ 60.284(a)(2) § 60.284(c)(1) § 60.284(c)(2) § 60.284(c)(3) § 60.284(d) § 60.284(d)(1)(i) [G]§ 60.284(e) § 60.284(f) § 60.285(a) § 60.285(d)(1) § 60.285(d)(2) § 60.285(d)(3) § 60.285(f)(2)	[G]§ 60.284(a)(2) § 60.284(c)(1) § 60.284(c)(2) § 60.284(c)(3)	§ 60.284(d) § 60.284(d)(1)(i)
RB02	EU	60Db-01	NOX	40 CFR Part 60, Subpart Db	§ 60.40b(a)	The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(2) § 60.49b(a)(3)
RB02	EU	60Db-01	SO_2	40 CFR Part 60, Subpart Db	§ 60.40b(a)	The affected facility to which this subpart applies is each	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)).			§ 60.49b(a)(3)
RB02	EU	63MM-01	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(ii) § 63.860(d) § 63.862(a)(1)(ii)(A) § 63.862(a)(1)(ii)(B) § 63.862(a)(1)(ii)(C) [G]§ 63.862(a)(1)(ii)(D) § 63.864(k)(1) § 63.864(k)(1)(i) § 63.864(k)(2) § 63.864(k)(2)(i) § 63.865(a)(1) [G]§ 63.865(a)(2) § 63.867(b)(4)	Instead of 63.862(a)(1)(i) kraft or soda pulp mill may have PM emissions limits for existing kraft or soda recovery furnace, smelt dissolving tank, and lime kiln that operates 6300 hrs/yr or more.	§ 63.860(d) § 63.864(d) § 63.864(d)(3) § 63.864(d)(4) § 63.864(e)(1) § 63.864(f) § 63.864(h) § 63.864(k)(1) § 63.864(k)(1)(i) § 63.864(k)(2) § 63.864(k)(2)(i) § 63.865 § 63.865(a)(1) [G]§ 63.865(a)(2) [G]§ 63.865(b)	§ 63.864(d)(3) § 63.864(d)(4) § 63.866(b) § 63.866(c) § 63.866(c)(1) § 63.866(c)(3) § 63.866(c)(4) § 63.866(c)(8) [G]§ 63.866(d)	§ 63.867(a)(1) § 63.867(b)(1) § 63.867(b)(2) § 63.867(b)(3) § 63.867(b)(3)(i) § 63.867(b)(3)(ii) § 63.867(b)(3)(iv) § 63.867(b)(4) § 63.867(c) § 63.867(c)(1) [G]§ 63.867(c)(3) § 63.867(c)(4) [G]§ 63.867(d)
RB02	EU	63MM-02	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(i)(A) § 63.864(k)(1) § 63.864(k)(1)(i) § 63.864(k)(2) § 63.864(k)(2)(i) § 63.864(k)(3)	Each existing kraft or soda recovery furnace must have concentration of PM in the exhaust gases discharged to the atmosphere be less than or equal to 0.10 g/dscm corrected to 8% oxygen.	§ 63.860(d) § 63.864(d) § 63.864(d)(3) § 63.864(d)(4) § 63.864(e)(1) § 63.864(f) § 63.864(h) § 63.864(k)(1) § 63.864(k)(1)(i) § 63.864(k)(2) § 63.864(k)(2)(i)	§ 63.864(d)(3) § 63.864(d)(4) § 63.866(b) § 63.866(c) § 63.866(c)(1) § 63.866(c)(3) § 63.866(c)(4) § 63.866(c)(8) [G]§ 63.866(d)	§ 63.867(a)(1) § 63.867(b)(3) § 63.867(b)(3)(i) § 63.867(b)(3)(iv) § 63.867(c) § 63.867(c)(1) [G]§ 63.867(c)(3) § 63.867(c)(4) [G]§ 63.867(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)
							§ 63.864(k)(3) § 63.865 [G]§ 63.865(b)		
RB02A	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
RB02A	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 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) [G]§ 111.111(a)(1)(F)	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
RB02B	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
RB02B	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 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	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F)	§ 111.111(a)(1)(C) § 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)
						begun after January 31, 1972.			
SM01	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
SM01	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 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.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
SM01	EU	REG2-01	TRS	30 TAC Chapter 112, Sulfur Compounds	§ 112.51(b)(4)	Smelt dissolving tanks shall not exceed 0.033 lb/ton black liquor solids as H2S (0.016 gram/kilogram black liquor solids as H2S).	§ 112.51(c) § 112.55 [G]§ 112.57(a) [G]§ 112.57(b) [G]§ 112.57(c)	[G]§ 112.57(c)	§ 112.59
SM01	EU	63MM-01	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(ii) § 63.860(d) § 63.862(a)(1)(ii)(A) § 63.862(a)(1)(ii)(B) § 63.862(a)(1)(ii)(C) [G]§ 63.862(a)(1)(ii)(D) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(1)(vi) § 63.864(k)(2) § 63.864(k)(2)(iv)	Instead of 63.862(a)(1)(i) kraft or soda pulp mill may have PM emissions limits for existing kraft or soda recovery furnace, smelt dissolving tank, and lime kiln that operates 6300 hrs/yr or more.	§ 63.860(d) § 63.864(e) § 63.864(e)(10) § 63.864(e)(10)(i) § 63.864(e)(10)(ii) § 63.864(e)(10)(iii) § 63.864(f) § 63.864(h) [G]§ 63.864(j) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(1)(vi)	§ 63.864(e)(10) § 63.866(b) § 63.866(c) § 63.866(c)(3) § 63.866(c)(4) § 63.866(c)(5) [G]§ 63.866(d)	§ 63.867(a)(1) § 63.867(b)(1) § 63.867(b)(2) § 63.867(b)(3) § 63.867(b)(3)(i) § 63.867(b)(3)(ii) § 63.867(b)(3)(iii) § 63.867(b)(4) § 63.867(c) § 63.867(c)(1) [G]§ 63.867(c)(3) § 63.867(c)(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.864(k)(3) § 63.865(a)(1) § 63.865(a)(2) § 63.865(a)(2)(vi) § 63.867(b)(4)		§ 63.864(k)(2) § 63.864(k)(2)(iv) § 63.864(k)(3) § 63.865 § 63.865(a)(1) § 63.865(a)(2) § 63.865(a)(2)(ii) § 63.865(a)(2)(iv) § 63.865(a)(2)(v) § 63.865(a)(2)(vi) [G]§ 63.865(b)		[G]§ 63.867(d)
SM01	EU	63MM-02	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(i)(B) § 63.860(d) § 63.864(k)(1) § 63.864(k)(2) § 63.864(k)(3)	Each existing kraft or soda smelt dissolving tanks must have concentration of PM in the exhaust gases discharged to the atmosphere be less than or equal to 0.10 kg/Mg of black liquor solids fired.	§ 63.860(d) § 63.860(f) § 63.860(h) [G]§ 63.864(j) § 63.864(k)(1) § 63.864(k)(2) § 63.864(k)(3) § 63.865 [G]§ 63.865(b)	§ 63.866(b) § 63.866(c) § 63.866(c)(3) § 63.866(c)(4) § 63.866(c)(5) [G]§ 63.866(d)	§ 63.867(a)(1) § 63.867(b)(3) § 63.867(b)(3)(i) § 63.867(b)(3)(iii) § 63.867(c) § 63.867(c)(1) [G]§ 63.867(c)(3) § 63.867(c)(4) [G]§ 63.867(d)
SM02	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
SM02	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 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.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	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)
SM02	EU	60BBa-01	PM	40 CFR Part 60, Subpart BBa	§ 60.282a(a)(3)	On and after the performance test completion no owner/operation shall discharge to the atmosphere from any new smelt dissolving tank that is not associated with a new or reconstructed recovery furnace subject to the provisions of 60.282a(a)(2) any gases which contain filterable particulate matter in excess of 0.1 gram per kilogram (g/kg) of black liquor solids (dry weigh).	§ 60.284a(b)(2)(ii) § 60.284a(b)(2)(iii) § 60.284a(c)(3)(i) § 60.284a(c)(4) § 60.284a(c)(5) § 60.284a(c)(6) § 60.284a(c)(7)	§ 60.287a(a) § 60.287a(b)(4) § 60.287a(b)(7) § 60.287a(c)	§ 60.288a(a) § 60.288a(b)
SM02	EU	60BBa-01	TRS	40 CFR Part 60, Subpart BBa	§ 60.283a(a)(4)	On and after the performance test completion, no owner/operation shall discharge to the atmosphere from smelt dissolving tanks gases with TRS over 0.016 g/kg black liquor solids as H2S.	§ 60.284a(b)(2)(ii) § 60.284a(b)(2)(iii) § 60.284a(c)(3)(i) § 60.284a(c)(4) § 60.284a(c)(5) § 60.284a(c)(6) § 60.284a(c)(7) § 60.285a(e) § 60.285a(f)(2)	§ 60.287a(a) § 60.287a(b)(4) § 60.287a(b)(7) § 60.287a(c)	§ 60.288a(a) § 60.288a(b)
SM02	EU	63MM-01	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(ii) § 63.860(d) § 63.862(a)(1)(ii)(A) § 63.862(a)(1)(ii)(B) § 63.862(a)(1)(ii)(C) [G]§ 63.862(a)(1)(ii)(D) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(1)(vi) § 63.864(k)(2) § 63.864(k)(2)(iv) § 63.864(k)(3)	Instead of 63.862(a)(1)(i) kraft or soda pulp mill may have PM emissions limits for existing kraft or soda recovery furnace, smelt dissolving tank, and lime kiln that operates 6300 hrs/yr or more.	§ 63.860(d) § 63.864(e) § 63.864(e)(10) § 63.864(e)(10)(i) § 63.864(e)(10)(ii) § 63.864(e)(10)(iii) § 63.864(f) § 63.864(h) [G]§ 63.864(j) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(1)(vi) § 63.864(k)(2)	§ 63.864(e)(10) § 63.866(b) § 63.866(c) § 63.866(c)(3) § 63.866(c)(4) § 63.866(c)(5) [G]§ 63.866(d)	§ 63.867(a)(1) § 63.867(b)(1) § 63.867(b)(2) § 63.867(b)(3) § 63.867(b)(3)(i) § 63.867(b)(3)(ii) § 63.867(b)(3)(iii) § 63.867(b)(4) § 63.867(c) § 63.867(c)(1) [G]§ 63.867(c)(3) § 63.867(c)(4) [G]§ 63.867(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)
					§ 63.865(a)(1) § 63.865(a)(2) § 63.865(a)(2)(vi) § 63.867(b)(4)		§ 63.864(k)(2)(iv) § 63.864(k)(3) § 63.865 § 63.865(a)(1) § 63.865(a)(2) § 63.865(a)(2)(ii) § 63.865(a)(2)(iv) § 63.865(a)(2)(v) § 63.865(a)(2)(vi) [G]§ 63.865(b)		
SM02	EU	63MM-02	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(i)(B) § 63.860(d) § 63.864(k)(1) § 63.864(k)(2) § 63.864(k)(3)	Each existing kraft or soda smelt dissolving tanks must have concentration of PM in the exhaust gases discharged to the atmosphere be less than or equal to 0.10 kg/Mg of black liquor solids fired.	§ 63.860(d) § 63.864(f) § 63.864(h) [G]§ 63.864(j) § 63.864(k)(1) § 63.864(k)(2) § 63.864(k)(3) § 63.865 [G]§ 63.865(b)	§ 63.866(b) § 63.866(c) § 63.866(c)(3) § 63.866(c)(4) § 63.866(c)(5) [G]§ 63.866(d)	§ 63.867(a)(1) § 63.867(b)(3) § 63.867(b)(3)(i) § 63.867(b)(3)(iii) § 63.867(c) § 63.867(c)(1) [G]§ 63.867(c)(3) § 63.867(c)(4) [G]§ 63.867(d)
TNK0115	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
TNK0116	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
WPEMERGEN	EU	60IIII-01	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 37 KW and less than 130 KW and a displacement of less than	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)
						10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 5.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.			
WPEMERGEN	EU	60IIII-01	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 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 60.4202(a)(2) and 40 CFR 1039-Appendix I.	None	None	[G]§ 60.4214(d)
WPEMERGEN	EU	60IIII-01	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039-Appendix I § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	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 130 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 0.30 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.	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)
WPEMERGEN	EU	63ZZZZ-01	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None

Additional Monitoring Requirements

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CAM Summary

Unit/Group/Process Information	
ID No.: LK01	
Control Device ID No.: VS-2	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: [I] Pressure Drop; [II] Liquid Flow Rate	
Minimum Frequency: [I] once per 15 minutes; [II] once per 15 minutes	
Averaging Period: [I] 3 hours; [II] 3 hours	
Deviation Limit: [I] Minimum Pressure Drop = 17 inches H2O; [II] Minimum Liquid Flow Rate = 404 gpm	
CAM Text: Pressure Drop: The monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within the following: ± 1 inch water gauge pressure (± 250 pascals); or ± 2% of span. Liquid Flow Rate: The monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within the following: ± 2% of span; or ± 5% of design liquid flow rate.	

CAM Summary

Unit/Group/Process Information	
ID No.: LK02	
Control Device ID No.: 263009	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: [I] Pressure Drop; [II] Liquid Flow Rate	
Minimum Frequency: [I] once per 15 minutes; [II] once per 15 minutes	
Averaging Period: [I] 3 hours; [II] 3 hours	
Deviation Limit: [I] Minimum Pressure Drop = 32 inches H2O; [II] Minimum Liquid Flow Rate = 739 gpm	
CAM Text: Pressure Drop: The monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within the following: ± 1 inch water gauge pressure (± 250 pascals); or ± 2% span. Liquid Flow Rate: The monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within the following: ± 2% of span; or ± 5% of design liquid flow rate.	

CAM Summary

Unit/Group/Process Information	
ID No.: PB02	
Control Device ID No.: WS-2	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-01A
Pollutant: PM	Main Standard: § 60.42(a)(1)
Monitoring Information	
Indicator: [I] Pressure Drop; [II] Liquid Flow Rate	
Minimum Frequency: [I] once per 15 minutes; [II] once per 15 minutes	
Averaging Period: [I] 3 hours; [II] 3 hours	
Deviation Limit: [I] Minimum Pressure Drop = 16 inches H2O; [II] Minimum Liquid Flow Rate = 3500 gpm	
CAM Text: Pressure Drop: The monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within the following: ± 1 inch water gauge pressure (± 250 pascals); or ± 2% span. Liquid Flow Rate: The monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within the following: ± 2% of span; or ± 5% of design liquid flow rate.	

CAM Summary

Unit/Group/Process Information	
ID No.: PB02	
Control Device ID No.: WS-2	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-01B
Pollutant: PM	Main Standard: § 60.42(a)(1)
Monitoring Information	
Indicator: [I] Pressure Drop; [II] Liquid Flow Rate	
Minimum Frequency: [I] once per 15 minutes; [II] once per 15 minutes	
Averaging Period: [I] 3 hours; [II] 3 hours	
Deviation Limit: [I] Minimum Pressure Drop = 16 inches H2O; [II] Minimum Liquid Flow Rate = 3500 gpm	
CAM Text: Pressure Drop: The monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within the following: ± 1 inch water gauge pressure (± 250 pascals); or ± 2% span. Liquid Flow Rate: The monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within the following: ± 2% of span; or ± 5% of design liquid flow rate.	

CAM Summary

Unit/Group/Process Information	
ID No.: PB02	
Control Device ID No.: WS-2	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: [I] Pressure Drop; [II] Liquid Flow Rate	
Minimum Frequency: [I] once per 15 minutes; [II] once per 15 minutes	
Averaging Period: [I] 3 hours; [II] 3 hours	
Deviation Limit: [I] Minimum Pressure Drop = 16 inches H2O; [II] Minimum Liquid Flow Rate = 3500 gpm	
CAM Text: Pressure Drop: The monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within the following: ± 1 inch water gauge pressure (± 250 pascals); or ± 2% span. Liquid Flow Rate: The monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within the following: ± 2% of span; or ± 5% of design liquid flow rate.	

CAM Summary

Unit/Group/Process Information	
ID No.: RB01	
Control Device ID No.: EP-IN	Control Device Type: Wet or dry electrostatic precipitator
Control Device ID No.: EP-IS	Control Device Type: Wet or dry electrostatic precipitator
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart BB	SOP Index No.: 60BB-01
Pollutant: PM	Main Standard: § 60.282(a)(1)(i)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: 3 hours	
Deviation Limit: Maximum Opacity = 20%	
CAM Text: The COMS shall be operated in accordance with 40 CFR §60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: RB01A	
Control Device ID No.: EP-IN	Control Device Type: Wet or dry electrostatic precipitator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: 3 hours	
Deviation Limit: Maximum Opacity = 20%	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: RB01B	
Control Device ID No.: EP-IS	Control Device Type: Wet or dry electrostatic precipitator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: 3 hours	
Deviation Limit: Maximum Opacity = 20%	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: RB02	
Control Device ID No.: 351013	Control Device Type: Wet or dry electrostatic precipitator
Control Device ID No.: 351014	Control Device Type: Wet or dry electrostatic precipitator
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart BB	SOP Index No.: 60BB-01
Pollutant: PM	Main Standard: § 60.282(a)(1)(i)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: 3 hours	
Deviation Limit: Maximum Opacity = 20%	
CAM Text: The COMS shall be operated in accordance with 40 CFR §60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: RB02A	
Control Device ID No.: 351013	Control Device Type: Wet or dry electrostatic precipitator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: 3 hours	
Deviation Limit: Maximum Opacity = 20%	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: RB02B	
Control Device ID No.: 351014	Control Device Type: Wet or dry electrostatic precipitator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: 3 hours	
Deviation Limit: Maximum Opacity = 20%	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: SM01	
Control Device ID No.: SM01	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: [I] Fan Motor Current; [II] Liquid Flow Rate	
Minimum Frequency: [I] once per 15 minutes; [II] once per 15 minutes	
Averaging Period: [I] 3 hours; [II] 3 hours	
Deviation Limit: [I] Minimum Current = 66 amps; [II] Minimum Liquid Flow Rate = 87.17 gpm to scrubber and 47.99 gpm to fan	
CAM Text: Fan Motor Current: The monitoring device, ammeter, will be checked annually for accuracy by subjecting it to a known amperage. Liquid Flow Rate: The monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within the following: ± 2% of span; or ± 5% of design liquid flow rate.	

CAM Summary

Unit/Group/Process Information	
ID No.: SM02	
Control Device ID No.: 401015	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: [I] Fan Motor Current; [II] Liquid Flow Rate	
Minimum Frequency: [I] once per 15 minutes; [II] once per 15 minutes	
Averaging Period: [I] 3 hours; [II] 3 hours	
Deviation Limit: [I] Minimum Current = 35.6 amps; [II] Minimum Liquid Flow Rate = 89.62 gpm to scrubber and 76.54 gpm to fan	
CAM Text: Fan Motor Current: The monitoring device, ammeter, will be checked annually for accuracy by subjecting it to a known amperage. Liquid Flow Rate: The monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within the following: ± 2% of span; or ± 5% of design liquid flow rate.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BP14	
Control Device ID No.: BP14	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: [I] Liquid flow rate; [II] Liquid pH; [III] Fan motor current	
Minimum Frequency: [I] once per 15 minutes; [II] once per 15 minutes; [III] once per 15 minutes	
Averaging Period: [I] 3 hours; [II] 3 hours; [III] 3 hours	
Deviation Limit: [I] Minimum liquid flow rate = 12 gpm to scrubber; [II] Minimum pH of liquid = 8.37; [III] Minimum current = 25.6 amps	
Periodic Monitoring Text: [I] Measure and record the liquid flow rate. Establish a minimum liquid flow rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation. [II] Measure and record the pH of liquid flow. Establish a minimum pH using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation. [III] Measure and record the fan motor current. Establish a minimum current using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BP15	
Control Device ID No.: BP15	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: [I] Liquid flow rate; [II] Liquid pH; [III] Fan motor current	
Minimum Frequency: [I] once per 15 minutes; [II] once per 15 minutes; [III] once per 15 minutes	
Averaging Period: [I] 3 hours; [II] 3 hours; [III] 3 hours	
Deviation Limit: [I] Minimum liquid flow rate = 71 gpm to scrubber; [II] Minimum pH of liquid = 8.6; [III] Minimum current = 18.5 amps	
Periodic Monitoring Text: [I] Measure and record the liquid flow rate. Establish a minimum liquid flow rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation. [II] Measure and record the pH of liquid flow. Establish a minimum pH using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation. [III] Measure and record the fan motor current. Establish a minimum current using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BP16	
Control Device ID No.: BP16	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: [I] Liquid flow rate; [II] Liquid pH; [III] Fan motor current	
Minimum Frequency: [I] once per 15 minutes; [II] once per 15 minutes; [III] once per 15 minutes	
Averaging Period: [I] 3 hours; [II] 3 hours; [III] 3 hours	
Deviation Limit: Treating Only A-Line Gases: [I] Minimum liquid flow rate = 996 gpm (sum of both bodies); [II] Minimum pH of liquid flow = 8.0; [III] Minimum Current = 22 amps Treating A-Line and B-line Gases; [I] Minimum Liquid Flow Rate = 996 gpm (su	
Periodic Monitoring Text: [I] Measure and record the liquid flow rate. Establish a minimum liquid flow rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation. [II] Measure and record the pH of liquid flow. Establish a minimum pH using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation. [III] Measure and record the fan motor current. Establish a minimum current using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: CTRW-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: No visible emissions	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above 30%, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: EX7LAM1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: No visible emissions	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above 30%, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: LK01	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: REG2-01
Pollutant: SO_2	Main Standard: § 112.9(a)
Monitoring Information	
Indicator: Sulfur content of fuel	
Minimum Frequency: Quarterly and within 24 hours of any fuel change	
Averaging Period: N/A	
Deviation Limit: Maximum Sulfur Dioxide Emission Concentration = 440 ppmv at actual stack conditions (3 hour average)	
Periodic Monitoring Text: Measure and record the sulfur content of the fuel with each new bulk shipment of fuel oil. Establish a maximum quantity of fuel oil allowed to be fired using the sulfur content of the fuel and the maximum allowable sulfur dioxide emission rate per §112.9(a) - 440 ppmv at stack conditions and averaged over a three hour period. The following equation is used to determine fuel oil firing rates: Fuel Oil (gpm) = AF (Mlb/hr) * 0.4965 (lb/hr S / Mlb/hr AF) 8.5 (lb/gal) * fraction S * (60 min/hr) where: AF (Mlb/hr) = Total measured air flow in thousands Constant = 0.4965 (lb/hr S/Mlb/hr AF) Density = 8.5 lb/gal Fraction S = wt% / 100 (from supplier) Any amount of fuel oil fired above the maximum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: LK01	
Control Device ID No.: VS-2	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Pressure Drop	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Pressure Drop = 17 inches H2O	
Periodic Monitoring Text: Measure and record the pressure drop. The monitoring instrumentation shall be maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: LK01	
Control Device ID No.: VS-2	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Liquid Flow Rate	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Liquid Flow Rate = 404 gpm	
Periodic Monitoring Text: Measure and record the liquid flow rate. The monitoring instrumentation shall be calibrated, maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: LK02	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: REG2-01
Pollutant: SO_2	Main Standard: § 112.9(a)
Monitoring Information	
Indicator: Sulfur content of fuel	
Minimum Frequency: Quarterly and within 24 hours of any fuel change	
Averaging Period: N/A	
Deviation Limit: Maximum Sulfur Dioxide Emission Concentration = 440 ppmv at actual stack conditions (3 hour average)	
Periodic Monitoring Text: Measure and record the sulfur content of the fuel with each new bulk shipment of fuel oil. Establish a maximum quantity of fuel oil allowed to be fired using the sulfur content of the fuel and the maximum allowable sulfur dioxide emission rate per §112.9(a) - 440 ppmv at stack conditions and averaged over a three hour period. The following equation is used to determine fuel oil firing rates: Fuel Oil (gpm) = AF (Mlb/hr) * 0.4965 (lb/hr S / Mlb/hr AF) 8.5 (lb/gal) * fraction S * (60 min/hr) where: AF (Mlb/hr) = Total measured air flow in thousands Constant = 0.4965 (lb/hr S/Mlb/hr AF) Density = 8.5 lb/gal Fraction S = wt% / 100 (from supplier) Any amount of fuel oil fired above the maximum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: LK02	
Control Device ID No.: 263009	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Pressure Drop	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Pressure Drop = 32 inches H2O	
Periodic Monitoring Text: Measure and record the pressure drop. The monitoring instrumentation shall be maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: LK02	
Control Device ID No.: 263009	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Liquid Flow Rate	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Liquid Flow Rate = 739 gpm	
Periodic Monitoring Text: Measure and record the liquid flow rate. The monitoring instrumentation shall be calibrated, maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: PB01	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: REG2-01
Pollutant: SO_2	Main Standard: § 112.9(a)
Monitoring Information	
Indicator: Sulfur content of fuel	
Minimum Frequency: Quarterly and within 24 hours of any fuel change	
Averaging Period: N/A	
Deviation Limit: Maximum Sulfur Dioxide Emission Concentration = 440 ppmv at actual stack conditions (3 hour average)	
Periodic Monitoring Text: Measure and record the sulfur content of the fuel with each new bulk shipment of fuel oil. Establish a maximum quantity of fuel oil allowed to be fired using the sulfur content of the fuel and the maximum allowable sulfur dioxide emission rate per §112.9(a) - 440 ppmv at stack conditions and averaged over a three-hour period. The following equation is used to determine fuel oil firing rates: Fuel Oil (gpm) = AF (Mlb/hr) * 0.4965 (lb/hr S / Mlb/hr AF) 8.5 (lb/gal) * fraction S * (60 min/hr) where: AF (Mlb/hr) = Total measured air flow in thousands Constant = 0.4965 (lb/hr S/Mlb/hr AF) Density = 8.5 lb/gal Fraction S = wt% / 100 (from supplier) Any amount of fuel oil fired above the maximum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: PB01	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six minutes	
Deviation Limit: Maximum opacity = 30%	
Periodic Monitoring Text: Measure and record the opacity with a continuous opacity monitoring system (COMS). The COMS shall be operated in accordance with 40 CFR § 60.13. The maximum opacity is the applicable or corresponding opacity limit. If there is no applicable or corresponding opacity limit, a maximum opacity shall be established using the most recent performance test. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: PB01	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-02
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Maximum Opacity = 15%	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded once per calendar quarter. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the corresponding opacity limit, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: PB02	
Control Device ID No.: WS-2	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Pressure Drop	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Pressure Drop = 16 inches H2O	
Periodic Monitoring Text: Measure and record the pressure drop. The monitoring instrumentation shall be maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: PB02	
Control Device ID No.: WS-2	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Liquid Flow Rate	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Minimum Liquid Flow Rate = 3500 gpm	
Periodic Monitoring Text: Measure and record the liquid flow rate. The monitoring instrumentation shall be calibrated, maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the deviation limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: RB01	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: REG2-01
Pollutant: SO_2	Main Standard: § 112.9(a)
Monitoring Information	
Indicator: SO2 concentration	
Minimum Frequency: four times per hour	
Averaging Period: 3 hours	
Deviation Limit: 440 ppmv at actual stack conditions	
Periodic Monitoring Text: Measure and record the concentration of SO2 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.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: RB01A	
Control Device ID No.: EP-IN	Control Device Type: Wet or dry electrostatic precipitator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six minutes	
Deviation Limit: Maximum opacity = 30%	
Periodic Monitoring Text: Measure and record the opacity with a continuous opacity monitoring system (COMS). The COMS shall be operated in accordance with 40 CFR § 60.13. The maximum opacity is the applicable or corresponding opacity limit. If there is no applicable or corresponding opacity limit, a maximum opacity shall be established using the most recent performance test. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: RB01B	
Control Device ID No.: EP-IS	Control Device Type: Wet or dry electrostatic precipitator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six minutes	
Deviation Limit: Maximum opacity = 30%	
Periodic Monitoring Text: Measure and record the opacity with a continuous opacity monitoring system (COMS). The COMS shall be operated in accordance with 40 CFR § 60.13. The maximum opacity is the applicable or corresponding opacity limit. If there is no applicable or corresponding opacity limit, a maximum opacity shall be established using the most recent performance test. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: RB02	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: REG2-01
Pollutant: SO_2	Main Standard: § 112.9(a)
Monitoring Information	
Indicator: SO2 concentration	
Minimum Frequency: four times per hour	
Averaging Period: 3 hours	
Deviation Limit: 440 ppmv at actual stack conditions	
Periodic Monitoring Text: Measure and record the concentration of SO2 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.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: SM01	
Control Device ID No.: SM01	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: [I] Fan motor current; [II] Liquid flow rate	
Minimum Frequency: [I] once per 15 minutes; [II] once per 15 minutes	
Averaging Period: [I] 3 hours; [II] 3 hours	
Deviation Limit: [I] Minimum Current = 66 amps; [II] Minimum Liquid Flow Rate = 87.17 gpm to scrubber and 47.99 gpm to fan	
Periodic Monitoring Text: [I] Measure and record the fan motor current. Establish a minimum current using the most recent performance test data, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation. [II] Measure and record the liquid flow rate. Establish a minimum liquid flow rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: SM02	
Control Device ID No.: 401015	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: [I] Fan Motor Current; [II] Liquid flow rate	
Minimum Frequency: [I] once per 15 minutes; [II] once per 15 minutes	
Averaging Period: [I] 3 hours; [II] 3 hours	
Deviation Limit: [I] Minimum Current = 35.6 amps; [II] Minimum Liquid Flow Rate = 89.62 gpm to scrubber and 76.54 gpm to fan	
Periodic Monitoring Text: [I] Measure and record the fan motor current. Establish a minimum current using the most recent performance test data, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation. [II] Measure and record the liquid flow rate. Establish a minimum liquid flow rate using the most recent performance test, manufacturer's recommendations, engineering calculations, and/or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: TNK0115	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: No visible emissions	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above 30%, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: TNK0116	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: No visible emissions	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above 30%, the permit holder shall report a deviation.	

Permit Shield

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Permit Shield

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
BP0351	N/A	40 CFR Part 60, Subpart Kb	Tank has a storage capacity less than 75 cubic meters.
BP0368	N/A	40 CFR Part 60, Subpart Kb	Tank storage capacity is less than 75 cubic meters.
DIESELLOAD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Loading and unloading occurs in Cass County which is exempt from the requirements of 30 TAC Chapter 115, Subchapter C, Division 1.
DIG-16	N/A	30 TAC Chapter 112, Sulfur Compounds	Not a designated facility under 30 TAC Chapter 112 as the facility is subject to 40 CFR Part 60, Subpart BB.
FOT	N/A	40 CFR Part 60, Subpart Kb	Capacity greater than or equal to 151 cubic meters storing a liquid with a maximum true vapor pressure less than 3.5 kPa.
GRP-BSW	AFBV1, BFBV1, BSW1A, BSW1B, BSW2A, BSW2B, BSW3A, BSW3B, TNK 0063, TNK 0064, TNK 0065, TNK 0167, TNK 0168, TNK 0169	40 CFR Part 60, Subpart BB	Construction or modification commenced before September 24, 1976.
GRP-CONC	CONC01, CONC02	30 TAC Chapter 112, Sulfur Compounds	Not a designated facility under 30 TAC Chapter 112 as the facility is subject to 40 CFR Part 60, Subpart BB.
GRP-CT	CTRW-1, CTRW-2, CTRW-6, CTRW-P1, CTRW-P3	40 CFR Part 63, Subpart Q	Chromium-based water treatment chemicals are not used.
GRP-DIGEST	DIG-1, DIG-10, DIG-11, DIG-12, DIG-13, DIG-14, DIG-15, DIG-2, DIG-3, DIG-4, DIG-5, DIG-6, DIG-7, DIG-8, DIG-9, TNK 0058, TNK 0059, TNK 0166, TNK 0362	40 CFR Part 60, Subpart BB	Construction or modification commenced before September 24, 1976.

Permit Shield

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
GRP-MEES	MEES01, MEES02	40 CFR Part 60, Subpart BB	Construction or modification commenced before September 24, 1976.
GRP-SMTANK	FIREDIES01, WPDIES01, WPGAS01, WPGAS02	40 CFR Part 60, Subpart Kb	Tank storage capacity is less than 75 cubic meters.
LK01	N/A	40 CFR Part 60, Subpart BB	Construction or modification commenced before September 24, 1976.
LK02	N/A	40 CFR Part 60, Subpart BB	Construction or modification commenced before September 24, 1976.
LKENG1	N/A	40 CFR Part 60, Subpart IIII	Engine is a stationary compression ignition internal combustion engine that commenced construction, modification or reconstruction before July 11, 2005.
LKENG2	N/A	40 CFR Part 60, Subpart IIII	Engine is a stationary compression ignition internal combustion engine that commenced construction, modification or reconstruction before July 11, 2005.
MVFD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Motor vehicle fuel dispensing is exempt from 30 TAC Chapter 115, Loading and Unloading requirements.
PB01	N/A	40 CFR Part 60, Subpart D	Construction or modification commenced before August 17, 1971.
PB01	N/A	40 CFR Part 60, Subpart Db	Construction, modification, or reconstruction commenced before June 19, 1984.
PB01	N/A	40 CFR Part 60, Subpart Dc	Construction, modification, or reconstruction commenced before June 9, 1989.
PB02	N/A	40 CFR Part 60, Subpart Db	Construction, modification, or reconstruction

Permit Shield

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			commenced before June 19, 1984.
PB02	N/A	40 CFR Part 60, Subpart Dc	Construction, modification, or reconstruction commenced before June 9, 1989.
RB01	N/A	30 TAC Chapter 112, Sulfur Compounds	Not a designated facility under 30 TAC Chapter 112 as the facility is subject to 40 CFR Part 60, Subpart BB.
RB01	N/A	40 CFR Part 60, Subpart D	The unit maintains an annual fossil fuel capacity factor of less than or equal to 10%, therefore it is not subject to 40 CFR Part 60, Subpart D. This determination is based on EPA ADI control number NB01 issued June 15, 1990.
RB01	N/A	40 CFR Part 60, Subpart Db	Construction, modification, or reconstruction commenced before June 19, 1984.
RB01	N/A	40 CFR Part 60, Subpart Dc	Construction, modification, or reconstruction commenced before June 9, 1989.
RB02	N/A	30 TAC Chapter 112, Sulfur Compounds	Not a designated facility under 30 TAC Chapter 112 as the facility is subject to 40 CFR Part 60, Subpart BB.
RB02	N/A	40 CFR Part 60, Subpart Dc	Steam generating unit with a maximum design heat input capacity of greater than 29 MW (100 MMBtu/hr).
SM01	N/A	40 CFR Part 60, Subpart BB	Construction or modification commenced before September 24, 1976.
SM02	N/A	30 TAC Chapter 112, Sulfur Compounds	Not a designated facility under 30 TAC Chapter 112 as the facility is subject to 40 CFR Part 60, Subpart BB.

Permit Shield

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
SPG1	N/A	40 CFR Part 60, Subpart D	The unit is not a steam generating unit, boiler, or process heater by definition.
SPG1	N/A	40 CFR Part 63, Subpart DDDDD	The unit is not a steam generating unit, boiler, or process heater by definition.
SPG2	N/A	40 CFR Part 60, Subpart D	The unit is not a steam generating unit, boiler, or process heater by definition.
SPG2	N/A	40 CFR Part 63, Subpart DDDDD	The unit is not a steam generating unit, boiler, or process heater by definition.
SST01	N/A	40 CFR Part 60, Subpart Kb	Capacity greater than or equal to 151 cubic meters storing a liquid with a maximum true vapor pressure less than 3.5 kPa.
SST02	N/A	40 CFR Part 60, Subpart K	The storage vessel does not store a petroleum liquid.
SVPTANK	N/A	40 CFR Part 60, Subpart Kb	Tank storage capacity is less than 75 cubic meters.
TURP01	N/A	40 CFR Part 60, Subpart Kb	Capacity greater than or equal to 75 cubic meters but less than 151 cubic meters storing a liquid with a maximum true vapor pressure less than 15.0 kPa.
TURPLD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Loading and unloading occurs in Cass County which is exempt from the requirements of 30 TAC Chapter 115, Subchapter C, Division 1.

New Source Review Authorization References

New Source Review Authorization References 101

New Source Review Authorization References by Emission Unit 102

New Source Review Authorization References

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

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX778M2	Issuance Date: 02/21/2023
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 2975	Issuance Date: 02/21/2023
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 31	Version No./Date: 05/05/1976
Number: 46	Version No./Date: 05/08/1972
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 03/14/1997
Number: 106.262	Version No./Date: 03/14/1997
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: 106.476	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001

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**
AFBV1	BSW A FOAM TANK	2975, PSDTX778M2
BFBV1	BSW B FOAM TANK	2975, PSDTX778M2
BP0351	METHANOL STORAGE TANK	2975, PSDTX778M2
BP0368	HYDROGEN PEROXIDE TANK	2975, PSDTX778M2
BP14	B-LINE BLEACH PLANT SCRUBBER NORTH	2975, PSDTX778M2
BP15	B-LINE BLEACH PLANT SCRUBBER SOUTH	2975, PSDTX778M2
BP16	A-LINE BLEACH PLANT SCRUBBER	2975, PSDTX778M2
BSW1A	1A BROWN STOCK WASHER	2975, PSDTX778M2
BSW1B	1B BROWN STOCK WASHER	2975, PSDTX778M2
BSW2A	2A BROWN STOCK WASHER	2975, PSDTX778M2
BSW2B	2B BROWN STOCK WASHER	2975, PSDTX778M2
BSW3A	3A BROWN STOCK WASHER	2975, PSDTX778M2
BSW3B	3B BROWN STOCK WASHER	2975, PSDTX778M2
CONC01	NO. 1 CONCENTRATORS	2975, PSDTX778M2
CONC02	NO. 2 CONCENTRATORS	2975, PSDTX778M2
CTRW-1	NO. 1 COOLING TOWER	106.371/09/04/2000
CTRW-2	NO. 2 COOLING TOWER	106.371/09/04/2000
CTRW-6	NO. 6 CHILLER COOLING TOWER	106.371/09/04/2000
CTRW-P1	NO. 1 PAPER MACHINE COOLING TOWER	106.371/09/04/2000
CTRW-P3	NO. 3 PAPER MACHINE COOLING TOWER	106.371/09/04/2000
DIESELLOAD	DIESEL LOADING/UNLOADING	106.472/09/04/2000

New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
DIG-1	NO. 1 BATCH DIGESTER	2975, PSDTX778M2
DIG-10	NO. 10 BATCH DIGESTER	2975, PSDTX778M2
DIG-11	NO. 11 BATCH DIGESTER	2975, PSDTX778M2
DIG-12	NO. 12 BATCH DIGESTER	2975, PSDTX778M2
DIG-13	NO. 13 BATCH DIGESTER	2975, PSDTX778M2
DIG-14	NO. 14 BATCH DIGESTER	2975, PSDTX778M2
DIG-15	NO. 15 BATCH DIGESTER	2975, PSDTX778M2
DIG-16	NO. 16 BATCH DIGESTER	2975, PSDTX778M2
DIG-2	NO. 2 BATCH DIGESTER	2975, PSDTX778M2
DIG-3	NO. 3 BATCH DIGESTER	2975, PSDTX778M2
DIG-4	NO. 4 BATCH DIGESTER	2975, PSDTX778M2
DIG-5	NO. 5 BATCH DIGESTER	2975, PSDTX778M2
DIG-6	NO. 6 BATCH DIGESTER	2975, PSDTX778M2
DIG-7	NO. 7 BATCH DIGESTER	2975, PSDTX778M2
DIG-8	NO. 8 BATCH DIGESTER	2975, PSDTX778M2
DIG-9	NO. 9 BATCH DIGESTER	2975, PSDTX778M2
EX5	NO. 5 EXTRUDER	2975, PSDTX778M2
EX7	NO. 7 EXTRUDER LAMINATOR STACK 1	2975, PSDTX778M2
EX7LAM1	NO. 7 EXTRUDER LAMINATOR STACK 1	2975, PSDTX778M2
FIREDIES01	FIRE PUMP DIESEL FUEL TANK	106.472/09/04/2000
FIREPMP4	FIREWATER PUMP #4 SOUTH	106.511/09/04/2000

New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
FIREPMPNO	FIREWATER PUMP #1 NORTH	106.511/09/04/2000
FOT	NO. 1 FUEL OIL STORAGE TANK	2975, PSDTX778M2
LK01	NO. 1 LIME KILN	2975, PSDTX778M2, 106.261/03/14/1997 [179363], 106.262/03/14/1997 [179363]
LK02	NO. 2 LIME KILN	2975, PSDTX778M2, 106.261/03/14/1997 [179363], 106.262/03/14/1997 [179363]
LKENG1	LIME KILN ENGINE NO. 1	106.512/06/13/2001
LKENG2	LIME KILN ENGINE NO. 2	106.512/06/13/2001
MEES01	NO. 1 EVAPORATOR SET	2975, PSDTX778M2
MEES02	NO. 2 EVAPORATOR SET	2975, PSDTX778M2
MVFD	MOTOR VEHICLE FUEL DISPENSING	106.412/09/04/2000
PB01	POWER BOILER NO. 1	2975, PSDTX778M2
PB02	POWER BOILER NO. 2	2975, PSDTX778M2
PRO-BLEACH	BLEACHING SYSTEM	2975, PSDTX778M2
PRO-FCOND	PULPING PROCESS CONDENSATE COLLECTION SYSTEM	2975, PSDTX778M2
PRO-HVLC	HIGH VOLUME LOW CONCENTRATION SYSTEM	2975, PSDTX778M2
PRO-LVHC	LOW VOLUME HIGH CONCENTRATION SYSTEM	2975, PSDTX778M2
RB01	NO. 1 RECOVERY FURNACE	2975, PSDTX778M2
RB01A	NO. 1 RECOVERY FURNACE NORTH STACK	2975, PSDTX778M2, 106.261/03/14/1997 [179363], 106.262/03/14/1997 [179363]
RB01B	NO. 1 RECOVERY FURNACE SOUTH STACK	2975, PSDTX778M2, 106.261/03/14/1997 [179363], 106.262/03/14/1997 [179363]

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**
RB02	NO. 2 RECOVERY FURNACE	2975, PSDTX778M2
RB02A	NO. 2 RECOVERY FURNACE WEST STACK	2975, PSDTX778M2, 106.261/03/14/1997 [179363], 106.262/03/14/1997 [179363]
RB02B	NO. 2 RECOVERY FURNACE EAST STACK	2975, PSDTX778M2, 106.261/03/14/1997 [179363], 106.262/03/14/1997 [179363]
SM01	NO. 1 SMELT TANK	2975, PSDTX778M2, 106.261/03/14/1997 [179363], 106.262/03/14/1997 [179363]
SM02	NO. 2 SMELT TANK	2975, PSDTX778M2, 106.261/03/14/1997 [179363], 106.262/03/14/1997 [179363]
SPG1	SHOCK PULSE GENERATOR	106.183/09/04/2000
SPG2	SHOCK PULSE GENERATOR	106.183/09/04/2000
SST01	NO. 1 SOAP STORAGE TANK	106.261/03/14/1997 [179363], 106.262/03/14/1997 [179363], 106.472/09/04/2000
SST02	NO. 2 SOAP STORAGE TANK	2975, PSDTX778M2, 106.261/03/14/1997 [179363], 106.262/03/14/1997 [179363]
SVPTANK	SINGLE-VESSEL PROCESS TANK	106.262/03/14/1997, 106.472/09/04/2000
TNK 0058	NO. 2 BLOW TANK	2975, PSDTX778M2
TNK 0059	NO. 1 BLOW TANK	2975, PSDTX778M2
TNK 0063	BSW SERVICE TANK 1A	2975, PSDTX778M2, 106.476/09/04/2000
TNK 0064	BSW SERVICE TANK 2A	2975, PSDTX778M2, 106.476/09/04/2000
TNK 0065	BSW SERVICE TANK 3A	2975, PSDTX778M2, 106.476/09/04/2000
TNK 0166	NO. 3 BLOW TANK	2975, PSDTX778M2
TNK 0167	BSW SERVICE TANK 1B	2975, PSDTX778M2

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**
TNK 0168	BSW SERVICE TANK 2B	2975, PSDTX778M2
TNK 0169	BSW SERVICE TANK 3B	2975, PSDTX778M2
TNK 0362	BLOW HEAT ACCUMULATOR	2975, PSDTX778M2
TNK0115	STARCH SILO #1	2975, PSDTX778M2
TNK0116	STARCH SILO #2	2975, PSDTX778M2
TURP01	NO. 1 TURPENTINE STORAGE TANK	106.472/09/04/2000
TURPLD	MILL LOADING/UNLOADING	106.472/09/04/2000
WPDIES01	WATER PLANT DIESEL TANK	106.472/09/04/2000
WPEMERGEN	WATER PLANT EMERGENCY GENERATOR	106.511/09/04/2000
WPGAS01	NO. 1 WATER PLANT GASOLINE TANK	106.412/09/04/2000
WPGAS02	NO. 2 WATER PLANT GASOLINE TANK	106.412/09/04/2000

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

Alternative Requirement

Alternative Requirement..... 108

UNITED ATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

RECEIVED
MILL MGMT.
FEB 09 2001

TEXARKANA MILL
FEB 07 2001

MILL MANAGER'S O
TEXARKANA MI

	Rotate
Manager Operations	
Manager Finance	
Manager EHS	✓
Manager Hum. Res.	
Manager Fin. Prod.	
Manager Prl. Mfg.	
Manager Tech Svcs.	
Manager Maintenance	
Manager PS&D	
Mgr. Communications	
[illegible] File:	
File:	

Mr. Greg Wanta
Mill Manager
International Paper Company
P.O. Box 870
Texarkana, Texas 75504

Subject: Approval of an Alternative Monitoring Parameter for 40 CFR 63.45[illegible]

Dear Mr. Wanta:

This letter is in response to the several request letters received in this office, from International Paper Company (IPC) mills operating within the area of jurisdiction of EPA Region VI. Specifically, these three IPC bleached mills are located in: Texarkana, Texas; Pine Bluff, Arkansas; and Bastrop, Louisiana. We appreciate the efforts of Mr. Stephen Schaffer of the Texarkana, Texas mill in coordinating a conference call with all parties involved and a quick turn-around in forwarding this office with the requested information.

We have decided to respond to these IPC mills' letters in a consolidated fashion. The intended effect of this method of response is to expedite our technical review/response time and is not intended to be impersonal toward the other two bleached mills.

As you know, these mills are subject to the requirements of 40 CFR 63 Subpart S - National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry, also known as Cluster Rule. The IPC mills' letters are requesting our approval of use of an alternative monitoring parameter instead of the scrubber inlet gas flow prescribed in 40 CFR 63.453(c)(2) for their bleach plant operations at the above-mentioned facilities.

Per 40 CFR 63.453(m) a source or an operator may choose to adopt an alternative monitoring parameter to comply with the standards established in Subpart S; provided that a Continuous Monitoring System is in place and the source or operator establishes appropriate operating parameters to be monitored in such a way that it will demonstrate continuous compliance with the applicable control requirements to the satisfaction of the Administrator.

Per 40 CFR 63.458(b)(2) the authority for determination and use of an alternative monitoring parameter can not be transferred (delegated) to a State.

According to information provided in these letters and the follow up communications of IPC mills with Mr. Alan Shar of my staff, it is our understanding that:

a) the source shall conduct annual negative pressure checks to ensure that the bleach plant scrubber fan induces the desired negative pressure across the system,

b) the source shall conduct monthly visual inspection under the Leak Detection and Repair plan provisions for the scrubber fan and associated process,

c) the source shall conduct periodic preventive maintenance of the bleach plant scrubber fan to ensure safe and proper operation of the system,

d) the source shall respond immediately to any signs or indications of visible emissions from the scrubber stack, washer hoods, or towers at the bleach plant,

e) it is difficult to install a reliable/suitable in-stream meter to measure the inlet gas flow rate to the bleach plant scrubber due to the corrosive and halogen-rich nature of the scrubber inlet stream; and

f) the proposed alternative monitoring parameter does not relax or jeopardize the stringency of the existing requirements of Subpart S.

Additionally, the source will continuously record/monitor the fan motor amperage loading to ensure proper rotational fan speed and pressure drop for the bleach plant scrubber fan. A successful initial performance test will be conducted to determine an acceptable range of electrical current (amps) within which the fan needs to be operated in.

Furthermore, in case of future replacement of the fan blades or fan motor the source must demonstrate that gas flow rate to the scrubber has not increased as a result of changes to the fan or conduct another performance test to insure that the gas scrubber meets the emission limitations of the air permit. For Subpart S purposes, Region VI does not recognize mere monitoring of an "on/off" fan switch, by itself, as a viable alternative monitoring parameter to the 40 CFR 63.453(c)(2).

Based on the information you supplied us, the Cluster Rule Question and Answer (Q and A's) document of EPA Headquarters dating September 22, 1999, and the 40 CFR 63.453(m) provisions we are of the opinion that IPC mills may choose to adopt and implement the proposed alternative monitoring parameter as described in their correspondences with this office as an alternative monitoring parameter to the 40 CFR 63.453(c)(2).

Please be advised that this alternative monitoring determination shall by no means relieve the source or operator from complying with the applicable Recordkeeping and Reporting Requirements established in 40 CFR 63.454, and 40 CFR 63.455 of Subpart S.

We also recommend you to share a copy of this alternative monitoring parameter determination letter with the appropriate State or local Title V permitting authority for any pending or future air permitting activities relevant to your mill. Consequently, the permitting authority would be able to craft air permit conditions tailored specifically for your bleach plant operations.

Should you need any additional information regarding this determination, please contact me at (214) 665-7220 or Alan Shar of my staff at (214) 665-6691.

Sincerely Yours,

John R. Hepola

John R. Hepola
Chief
Air/Toxics and Inspection Coordination Branch

cc: Mr. Greg Van Voorhis, IPC (Bastrop)
Mr. Mark George, IPC (Pine Bluff)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

RECEIVED
MILL MGMT.
FEB 09 2001

TEXARKANA MILL FEB 07 2001

Mr. Greg Wanta
Mill Manager
International Paper Company
P.O. Box 870
Texarkana, Texas 75504

Subject: Approval of an Alternative Provisions/Language for Inspection and Monitoring of Closed Collection and Vent Systems in 40 CFR 63 Subpart S

Dear Mr. Wanta:

This letter is in response to the several request letters received in this office, from International Paper Company (IPC) mills operating within the area of jurisdiction of EPA Region VI. Specifically, these five IPC mills are located in: Texarkana, Texas, Pine Bluff, Arkansas, Mansfield, Louisiana, Bastrop, Louisiana, and Pineville, Louisiana. For brevity purposes, we have decided to respond to these IPC mills' letters in one consolidated letter. The intended effect of this method of response is to expedite our technical review/response time and is not intended to be impersonal toward any of the other four mills.

As you know, these mills are subject to the requirements of 40 CFR 63 Subpart S - National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry, also known as Cluster Rule. The IPC mills' letters are requesting our approval of alternative provisions/language for inspection and monitoring of closed collection and vent systems that are designated as unsafe or inaccessible for the Leak Detection and Repair (LDR) purposes of the Cluster Rule at the above-mentioned facilities.

40 CFR 63.453(k) describes the monitoring requirements for each enclosure and closed vent system that captures or transports streams containing Hazardous Air Pollutants (HAP). 40 CFR 63.453(l) describes the monitoring requirements for each HAP-containing pulping process condensates (generated, produced, or associated) with a closed collection system.

40 CFR 63.453(m) states that a source or an operator may choose to adopt an alternative monitoring parameter to comply with the standards established in Subpart S; provided that a Continuous Monitoring System is in place and the source or operator establishes appropriate operating parameters to be monitored in such a way that it will demonstrate continuous compliance with the applicable control requirements to the satisfaction of the Administrator.

40 CFR 63.148(g) and (h) exempt a closed vent system, vapor collection system, fixed roof, cover, or enclosure that is designated as unsafe to inspect from certain leak inspection provisions requirements [see 63.148(b)(1), (b)(2) or (b)(3)(i)].

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The Occupational Safety and Health Administration (OSHA), Department of Labor, has set forth the requirements for employers to provide means of fall protection in 29 CFR 1926.501. Elevated pipe bridges, elevated pipes that run on the exterior of the building walls, pipes that run in the vicinity of pressurized or high temperature processes, pipes that run in areas with high potential for exposure to H_2S or chlorinated compounds, locations above 6 feet of OSHA approved catwalk, or work floor are examples of locations that are designated as unsafe or inaccessible, at these mills, for LDR inspection purposes.

According to information provided in these five letters and the follow up communications of IPC mills with Mr. Alan Shar of my staff, it is our understanding that:

a) the source or operator shall maintain and update a site specific LDR plan that will include all mills' locations that are deemed as unsafe or inaccessible to inspect with an explanation why a location is designated as unsafe to inspect,

b) the source or operator shall inspect these unsafe or inaccessible locations at least once every 5 year during the "safe-to-inspect" periods,

c) other mechanisms such as low volume high concentration gas collection systems, steam ejectors, and monitoring of steam valve positions are in place to strengthen the leak detection program in discovering leaks without performing visual inspections at locations designated as unsafe or inaccessible,

d) the mills operate on a rotational shift basis and the proposed alternative monitoring provision and inspection frequency language will provide the mill personnel with greater degree of operational flexibility while complying with the inspection and monitoring standards of the LDR and Cluster Rules, and

e) the proposed language for the alternative monitoring provision and inspection frequency do not relax or jeopardize the stringency of the existing requirements of Subpart S and Title V.

With regards to inspection of the unsafe/inaccessible locations and 40 CFR 63.148(g) and (h) provisions, in addition to other applicable requirements of your permit, the Title V permit for these mills shall contain the following alternate language:

"*closed vent systems, fixed roofs, covers, or enclosures are exempt from the 30-day and annual inspection requirements, provided that the source or operator determines: a) persons conducting the inspection would be exposed to an imminent or potential danger, or b) equipment could not be inspected without elevating the individual higher than 6 feet above or beyond the work platform, walkway, or catwalk*"

"the source or operator shall identify all exempted equipment and explain how the equipment will be inspected during safe-to-inspect periods. The inspection frequency shall be at least once every five calendar-years."

The inclusion of the two above conditions are based on our review of the information you supplied us, the 29 CFR 1926.501 Duty to fall protection, and the 40 CFR 63.453(m).

With regards to the frequency of inspections ["every 30-days" or "at least once every 30 days"] for the closed collections and vent systems in 40 CFR 63.453(k) and (l), in addition to other applicable requirements of your permit, the Title V permit for these mills shall contain the following alternate language:

"inspections shall be conducted once during each calendar-month, with any two consecutive inspections being at least 21 calendar-days apart"

The inclusion of the above condition is based on our review of the information you supplied us, and the 40 CFR 63.453(m).

Please be advised that these approved alternative languages and conditions shall by no means relieve the source or operator from complying with the applicable Recordkeeping of 40 CFR 63.454, Reporting Requirements of 40 CFR 63.455, and Leak inspection provisions of 40 CFR 63.148.

Obviously, we do recommend you to share a copy of this determination letter with the appropriate State or local Title V permitting authority within your area for pending or future air permitting activities relevant to your mill. As a result, the permitting authority would be able to craft air permit conditions tailored specifically for your mill.

Should you need any additional information regarding this determination, please contact me at (214) 665-7220 or Alan Shar of my staff at (214) 665-6691.

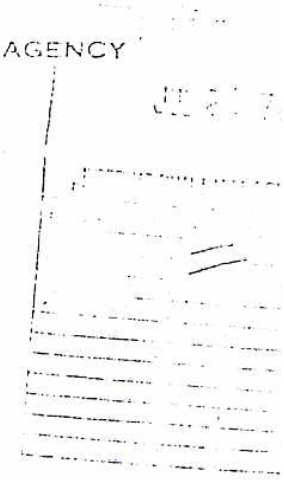
Sincerely Yours,

John R. Hepola

John R. Hepola
Chief
Air/Toxics and Inspection Coordination Branch

cc: Mr. Tommy S. Joseph, IPC (Mansfield)
Mr. Greg Van Voorhis, IPC (Bastrop)
Mr. Mark George, IPC (Pine Bluff)
Mr. Kirt J. Cuevas, IPC (Pineville)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
FIRST INTERNATIONAL BUILDING
1201 ELM STREET
DALLAS, TEXAS 75270



JUL 18 1977

Mr. P. F. Adams, Coordinator
Environmental Quality - Air
International Paper Company
P. O. Box 16807
Mobile, Alabama 36616

Dear Mr. Adams:

This is in response to your letter of May 10, 1977 requesting exemptions from the requirements to install and operate an opacity monitor and a continuous SO_2 monitor for the new 800 MMBtu/Hr combination bark boiler at Atlanta, Texas. We understand that your request is to continuously monitor the venturi scrubber operating parameters instead of using a transmissometer because of the moisture content of the emissions, and that you will certify the sulfur content of the oil on a regular basis instead of using a continuous SO_2 monitor.

In regards to the opacity monitor, the measurement of the operating parameters of the venturi scrubber monitors the operating conditions of the air pollution control equipment but does not monitor the operating conditions of the boiler which also affects the quantity of emissions. Hence we can grant your request if, in addition to continuous monitoring and recording of the liquid flowrate to the venturi and of the pressure drop across the venturi, performance tests for particulate matter are conducted on the facility every six months.

We understand that the sulfur content of oil will be about 0.7% (#6 oil) and that the fuel will consist of a mixture of about 70% oil and 30% bark. In accordance with Section 60.45(b), this office can grant your request if you submit to this office on a quarterly basis the documentation showing the analysis of the sulfur content of the oil used in the boiler which will result in SO_2 emissions complying with the New Source Performance Standards.

If the above mentioned conditions are not met, this office cannot grant your request for exemptions from installing and operating the opacity and SO_2 monitors.

7/20/77

cc: Mr. T. C. Payne
Mr. Walter Kiechel
Mr. John Turner
Mr. Jack Kilborn
Mr. Charles Ackel
JHG:rg

If you have any questions concerning this letter, you may contact me by letter to this office, or S. T. Hwang by telephone at (214) 749-7675.

Sincerely yours,

Carl E. Edlund
Chief, Air Compliance Branch
Enforcement Division

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

RECEIVED
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JUN 0 3 2003
TEXARKANA MILL

JUN 0 4 2003

Kirt J. Cuevas
Manager
International Paper Company
Texarkana Mill
P.O. Box 870
Texarkana, Texas 75504

RE: Request for Alternative Monitoring for Smelt Tank Scrubbers under 40 CFR §63.864(a)(2)

Dear Mr. Cuevas:

This is in response to your letter dated February 21, 2003, in which you requested approval for an alternative monitoring parameter for the smelt dissolving tank scrubbers, in lieu of the monitoring parameters identified in §63.864(a)(2) of the Pulp and Paper MACT. In your letter, you propose to monitor the fan amperage in lieu of differential pressure across the scrubber. Scrubbing liquid flow rate would also be continuously monitored at both the fan and lower zone spray nozzles.

You indicate in your letter that alternative monitoring provisions are needed because the particulate removal performance of dynamic scrubbers (such as the Ducon UW-4 scrubbers, installed on the No. 1 and No.2 smelt dissolving tanks at your facility) is not governed by pressure drop across the control device. The Ducon UW-4 scrubber operates near atmospheric pressure and relies on the impaction of exhaust gas particles on rotating fan blades, interception by water droplets and the centrifugal force generated by fan blades to separate particles from the gas stream. These dynamic scrubbers rely on fan speed and scrubber liquid flow to ensure optimal particulate matter removal as opposed to differential pressure. Therefore, monitoring of this parameter would not provide a meaningful demonstration of environmental performance.

You further state in your letter that relying on pressure drop as a key performance indicator for a low-pressure scrubber is not technically valid. In addition to being an inappropriate indicator of Ducon performance, the mandated accuracy requirement per § 63.864(a)(2)(i) for differential pressure monitors is +/- 2 inches of water gauge pressure.

Although it would be possible to measure at or below this accuracy requirements, operating differential pressure may deviate from the initial performance test range, but actual environmenta performance is unaffected. This would require corrective action for no valid reason. In support of your request, you have submitted a letter from DUCON Technologies Inc., manufacturer of th scrubber, which states that monitoring the fan amps would provide a suitable indication of the scrubber performance.

International Paper proposes to monitor fan amps for the Ducon UW-4 scrubber because scrubber performance is directly related to fan speed, according to the information from Ducon Technologies that was included in your request letter. You state that these control devices are equipped with constant speed fans that are engineered to generate the flow rate, turbulence and centrifugal force needed for optimal performance. Since these fans are not controlled by variable speed drives, fan speed does not vary and therefore a simple indication of the fan operation, coupled with scrubber liquid flow is all that is required to ensure proper operation. You have proposed that scrubber performance will be demonstrated in the initial performance test. Fan amps and scrubber liquid flow will be monitored at least once each successive 15-minute period and continuous compliance will be determined based on a 3-hour average, as required by the regulations.

Based upon the information that you have provided, EPA Region 6 concurs with International Paper's request to substitute fan amperage data and scrubbing liquid flow rates as alternative monitoring parameters to § 63.864(a)(2) monitoring requirements and accordingly approves this specific request. As a condition for using fan motor amperage and scrubbing liquid flow rate as alternative parameters, you are required to establish operating ranges for the monitoring parameters in the initial performance test. The monitoring of fan amperage applies only to the fans associated with the smelt dissolving tank UW-4 scrubbers. Furthermore, you are still required to satisfy all of the other applicable monitoring and recordkeeping requirements of § 63.864 through § 63.867.

If you have any questions regarding the above determination or require additional information, please feel free to contact Ms. Michelle Kelly, of my staff, at (214) 665-7580.

Sincerely yours,

William K. Honker, P.E.
Chief
Air Toxic and Inspection
Coordination Branch

cc: John Steib, TCEQ - Austin
Charles Murray, TCEQ - Tyler

Appendix A

Acronym List 119

Acronym List

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

ACFM ..... actual cubic feet per minute
AMOC ..... alternate means of control
ARP ..... Acid Rain Program
ASTM ..... American Society of Testing and Materials
B/PA ..... Beaumont/Port Arthur (nonattainment area)
CAM ..... Compliance Assurance Monitoring
CD ..... control device
CEMS ..... continuous emissions monitoring system
CFR ..... Code of Federal Regulations
COMS ..... continuous opacity monitoring system
CVS ..... closed vent system
D/FW ..... Dallas/Fort Worth (nonattainment area)
EP ..... emission point
EPA ..... U.S. Environmental Protection Agency
EU ..... emission unit
FCAA Amendments ..... Federal Clean Air Act Amendments
FOP ..... federal operating permit
gr/100 scf ..... grains per 100 standard cubic feet
HAP ..... hazardous air pollutant
H/G/B ..... Houston/Galveston/Brazoria (nonattainment area)
H_2S ..... hydrogen sulfide
ID No. ..... identification number
lb/hr ..... pound(s) per hour
MACT ..... Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr ..... Million British thermal units per hour
NA ..... nonattainment
N/A ..... not applicable
NADB ..... National Allowance Data Base
NESHAP ..... National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standard (40 CFR Part 60)
NSR ..... New Source Review
ORIS ..... Office of Regulatory Information Systems
Pb ..... lead
PBR ..... Permit By Rule
PEMS ..... predictive emissions monitoring system
PM ..... particulate matter
ppmv ..... parts per million by volume
PRO ..... process unit
PSD ..... prevention of significant deterioration
psia ..... pounds per square inch absolute
RO ..... Responsible Official
SIP ..... state implementation plan
SO_2 ..... sulfur dioxide
TCEQ ..... Texas Commission on Environmental Quality
TSP ..... total suspended particulate
TVP ..... true vapor pressure
U.S.C. ..... United States Code
VOC ..... volatile organic compound

Appendix B

Major NSR Summary Table 121

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
SM01	No. 1 Smelt Tank Scrubber	PM	10.90	47.74	4, 6, 21, 25	4, 21, 25, 28	4
		PM_{10}	10.90	47.74			
		$PM_{2.5}$	10.90	47.74			
		VOC (note a)	1.37	6.02			
		SO_2	3.28	14.37			
		H_2SO_4	0.15	0.66			
		TRS (note b)	1.80	7.88			
		NO_X	1.80	7.88			
		NH_3	2.51	8.99			
SM02	No. 2 Smelt Tank Scrubber	PM	19.85	86.94	3, 4, 6, 21, 25	3, 4, 21, 25, 28	3, 4
		PM_{10}	19.85	86.94			
		$PM_{2.5}$	19.85	86.94			
		VOC	2.50	10.95			
		SO_2	6.78	29.70			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		H_2SO_4	0.31	1.36			
		TRS	3.28	14.35			
		NO_X	3.28	14.35			
		NH_3	4.57	16.37			
LK01** (A^1)	Lime Kiln No. 1	PM	27.60	99.80	4, 6, 21, 23, 25	4, 21, 23, 25, 28	4, 23
		PM_{10}	27.60	99.80			
		$PM_{2.5}$	27.60	99.80			
		VOC	2.20	8.10			
		SO_2	2.30	8.40			
		H_2SO_4	0.06	0.13			
		TRS	2.60	9.30			
		NO_X	18.90	49.50			
		CO	6.80	14.20			
PB01*** (A^1, A^2)	No. 1 Power Boiler	PM	61.21	185.22	4, 5, 6, 9, 21, 24, 25	4, 5, 21, 24, 25, 28	4, 5, 24

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
	(Natural Gas and Fuel Oil Firing)	PM_{10}	61.21	185.22			
		$PM_{2.5}$	61.21	185.22			
		VOC	8.26	16.70			
		NO_X	567.60	1717.69			
		SO_2	841.20	1328.25			
		CO	264.88	801.59			
		H_2SO_4	4.03	4.43			
		TRS	0.67	0.26			
LK02** (A^1)	Lime Kiln No. 2	PM	26.30	115.19	4, 6, 21, 23, 25	4, 21, 23, 25, 28	4, 23
		PM_{10}	26.30	115.19			
		$PM_{2.5}$	26.30	115.19			
		NO_X	38.91	145.90			
		SO_2	1.20	5.26			
		H_2SO_4	0.25	1.07			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		CO	4.44	19.45			
		TRS	2.50	10.95			
		VOC	4.00	17.52			
PB02**** (A^1, A^2, A^3)	Power Boiler No. 2 (including MSS) (note c)	PM	108.70	466.58	3, 4, 5, 7, 21, 23, 25, 27	3, 4, 5, 21, 23, 25, 27, 28	3, 4, 5, 23
		PM_{10}	108.70	466.58			
		$PM_{2.5}$	108.70	466.58			
		VOC	54.81	237.80			
		NO_X	326.10	1399.75			
		SO_2	770.00	780.66			
		CO	1102.55	4732.57			
		H_2SO_4	16.57	71.02			
		TRS	1.66	6.74			
RB01A** (A^1, A^2)	No. 1 Recovery Furnace North Stack (Normal ops)	PM	26.58	116.43	3, 4, 6, 21, 23, 25	3, 4, 21, 23, 25, 28	3, 4, 23
		PM_{10}	26.58	116.43			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		$PM_{2.5}$	26.58	116.43			
		VOC	13.13	57.52			
		NO_X	63.12	276.45			
		SO_2	210.94	307.98			
		H_2SO_4	9.69	14.14			
		CO	122.97	538.61			
		TRS	1.87	8.19			
RB01A** (A[4])	No. 1 Recovery Furnace North Stack (MSS)	PM	52.00	0.65	6, 21, 23	21, 23, 28	23
		PM_{10}	52.00	0.65			
		$PM_{2.5}$	52.00	0.65			
RB01B** (A[1], A[2])	No. 1 Recovery Furnace South Stack (Normal Ops)	PM	26.58	116.43	3, 4, 6, 21, 23, 25	3, 4, 21, 23, 25, 28	3, 4, 23
		PM_{10}	26.58	116.43			
		$PM_{2.5}$	26.58	116.43			
		VOC	13.13	57.52			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		NO_X	63.12	276.45			
		SO_2	210.94	307.98			
		H_2SO_4	9.69	14.14			
		CO	122.97	538.61			
		TRS	1.87	8.19			
RB01B** (A[4])	No. 1 Recovery Furnace South Stack (MSS)	PM	52.00	0.65	6, 21, 23	21, 23, 28	23
		PM_{10}	52.00	0.65			
		$PM_{2.5}$	52.00	0.65			
RB02A** (A[1], A[2])	No. 2 Recovery Furnace West Stack (Normal Ops)	PM	42.59	177.23	3, 4, 6, 21, 23, 25	3, 4, 21, 23, 25, 28	3, 4, 23
		PM_{10}	42.59	177.23			
		$PM_{2.5}$	42.59	177.23			
		VOC	23.92	99.51			
		NO_X	112.42	467.76			
		SO_2	375.71	521.11			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		H_2SO_4	17.25	23.93			
		CO	219.02	911.34			
		TRS	3.33	13.86			
RB02A** (A[4])	No. 2 Recovery Furnace West Stack (MSS)	PM	79.00	0.99	6, 21, 23	21, 23, 28	23
		PM_{10}	79.00	0.99			
		$PM_{2.5}$	79.00	0.99			
RB02B** (A[1], A[2])	No. 2 Recovery Furnace East Stack (Normal Ops)	PM	42.59	177.23	3, 4, 6, 21, 23, 25	3, 4, 21, 23, 25, 28	3, 4, 23
		PM_{10}	42.59	177.23			
		$PM_{2.5}$	42.59	177.23			
		VOC	23.92	99.51			
		NO_X	112.42	467.76			
		SO_2	375.71	521.11			
		H_2SO_4	17.25	23.93			
		CO	219.02	911.34			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		TRS	3.33	13.86			
RB02B** (A[4])	No. 2 Recovery Furnace East Stack (MSS)	PM	79.00	0.99	6, 21, 23	21, 23, 28	23
		PM_{10}	79.00	0.99			
		$PM_{2.5}$	79.00	0.99			
BG01 (A[1])	Lime System Baghouse No. 1	PM	0.06	0.21	7, 25	25, 28	
		PM_{10}	0.06	0.21			
		$PM_{2.5}$	0.06	0.21			
BG02 (A[1])	Lime System Baghouse No. 2	PM	0.10	0.44	7, 25	25, 28	
		PM_{10}	0.10	0.44			
		$PM_{2.5}$	0.10	0.44			
LS01	No. 1 Lime Slaker	PM	0.02	0.08	7, 25	25, 28	
		PM_{10}	0.02	0.08			
		$PM_{2.5}$	0.02	0.08			
		VOC	0.39	1.41			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		NH_3	9.39	33.63			
LS02	No. 2 Lime Slaker	PM	0.02	0.10	7, 25	25, 28	
		PM_{10}	0.02	0.10			
		$PM_{2.5}$	0.02	0.10			
		VOC	0.68	2.99			
		NH_3	17.10	61.24			
BP0351 (A^5)	Methanol Storage Tank	CH_3OH	19.03	0.73		28	
BP0368 (A^5)	Hydrogen Peroxide Tank	H_2O_2	2.21	0.09		28	
NCG01 (A^1, A^3)	NCG Oxidation Unit Scrubber	PM	2.57	9.19	3, 4, 6, 16, 21, 25	3, 4, 21, 25, 28	3, 4
		PM_{10}	2.57	9.19			
		$PM_{2.5}$	2.57	9.19			
		VOC (note a)	1.10	3.95			
		NO_X	5.57	19.96			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		SO_2	15.84	69.37			
		CO	9.94	35.61			
		H_2SO_4	6.01	26.28			
		TRS	0.99	4.36			
NCG02 (A[5])	Combined Contaminated Condensate Tank	TRS	<0.10	0.40		28	
NCGF1	NCG Fugitives (4)	TRS	0.36	1.56		28	
DIG1	Batch Digester Fugitives (4)	VOC	4.80	19.19		28	
		TRS	0.87	3.46			
WWTS1 (A[6], A[7])	Waste Water Treatment Fugitives (4)	VOC	348.16	740.78		28	
		TRS	22.82	81.72			
BP14#	B-Line Bleach Plant Scrubber (North)(5)	Cl_2	0.07	0.32	4, 8, 15, 21, 25	4, 15, 21, 25, 28	4
		ClO_2	4.23	18.51			
		CO	29.22	117.37			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		VOC	3.06	12.28			
		TRS	0.09	0.37			
BP15#	B-Line Bleach Plant Scrubber (South)(5)	Cl_2	0.07	0.32	4, 8, 15, 21, 25	4, 15, 21, 25, 28	4
		ClO_2	4.23	18.51			
		CO	29.22	117.37			
		VOC	3.06	12.28			
		TRS	0.09	0.37			
BP16#	A-Line Bleach Plant Scrubber (5)	Cl_2	0.20	0.86	4, 8, 15, 21, 25	4, 15, 21, 25, 28	4
		ClO_2	11.31	49.51			
		CO	39.00	117.37			
		VOC	4.17	12.28			
		TRS	0.12	0.37			
BP01	Bleach Plant Fugitives (4)	Cl_2	0.20	1.00		28	
		ClO_2	0.20	1.00			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
CLT01 (A[5])	No. 1 Concentrated Liquor Storage Tank (5)	VOC	0.11	0.48		28	
		TRS	0.19	0.84			
CLT02 (A[5])	No. 2 Concentrated Liquor Storage Tank (5)	VOC	0.11	0.48		28	
		TRS	0.19	0.84			
WLT01 (A[5])	No. 1 Weak Liquor Storage Tank (5)	VOC	0.54	2.37		28	
		TRS	0.12	0.51			
WLT02 (A[5])	No. 2 Weak Liquor Storage Tank (5)	VOC	0.54	2.34		28	
		TRS	0.12	0.51			
HLT01 (A[5])	No. 1 Strong/Heavy Liquor Storage Tank (5)	VOC	0.11	0.48		28	
		TRS	0.19	0.84			
HLT02 (A[5])	No. 2 Storage/Heavy Liquor Storage Tank (5)	VOC	0.11	0.48		28	
		TRS	0.19	0.84			
SCT01 (A[5])	No. 1 Soap Conc. Tank (5)	VOC	0.03	0.12		28	
		TRS	0.05	0.21			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
SCT02 (A[5])	No. 2 Soap Conc. Tank (5)	VOC	0.03	0.12		28	
		TRS	0.05	0.21			
SS01 (A[5])	No. 1 Soap Separator (5)	VOC	0.03	0.12		28	
		TRS	0.05	0.21			
SS02 (A[5])	No. 2 Soap Separator (5)	VOC	0.03	0.12		28	
		TRS	0.05	0.21			
SST01 (A[5])	No. 1 Soap Storage Tank (5)	VOC	0.03	0.12		28	
		TRS	0.05	0.21			
SST02 (A[5])	No. 2 Soap Storage Tank (5)	VOC	0.03	0.12		28	
		TRS	0.05	0.21			
BLDF01 (A[5])	Black Liquor Digester Fill Tank (5)	VOC	0.54	2.37		28	
		TRS	0.12	0.51			
CT01 (A[5])	Spill Collection Tank (5)	VOC	0.54	2.37	7	28	
		TRS	0.12	0.51			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
ST01 (A[5])	Swing Tank (5)	VOC	0.54	2.37		28	
		TRS	0.12	0.51			
SLST01 (A[5])	No. 1 Spare Liquor Storage Tank (5)	VOC	0.54	2.37		28	
		TRS	0.12	0.51			
SLST02 (A[5])	No. 2 Spare Liquor Storage Tank (5)	VOC	0.54	2.37		28	
		TRS	0.12	0.51			
SLST03 (A[5])	No. 3 Spare Liquor Storage Tank (5)	VOC	0.54	2.37		28	
		TRS	0.12	0.51			
BOT01 (A[5])	Evaporator Boil Out Tank (5)	VOC	0.11	0.48		28	
		TRS	0.19	0.84			
DT01 (A[5])	Black Liquor Dump Tank (5)	VOC	0.54	2.37		28	
		TRS	0.12	0.51			
WLSC01 (A[5])	Weak Liquor Soap Conc. Tank (5)	VOC	0.03	0.12		28	
		TRS	0.05	0.21			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
FOT (A[5])	Fuel Oil Tank (5)	VOC	1.52	6.64		28	
		TRS	0.19	0.84			
CPFUG (note d)	Caustic Plant Fugitives (4)	NH_3	7.31	26.17		28	
		VOC	16.25	68.30			
		TRS	3.18	13.91			
CP01 (A[5])	No. 1 Causticizer Tanks (5)	NH_3	2.59	9.28		28	
		VOC	0.01	0.03			
CP02 (A[5])	No. 2 Causticizer Tank (5)	NH_3	4.72	16.89		28	
		VOC	0.01	0.06			
WLOXT1 (A[5])	White Liquor Oxidation Tank (5)	NH_3	0.10	0.44		28	
		VOC	0.26	1.16			
		TRS	0.56	2.45			
KNCONV	A-and B-Line Knotter Conveyor (4)	VOC	0.01	0.04		28	
AQS	A-Line Quaternary	VOC	<0.01	0.01		28	

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
	Screen (4)	TRS	<0.01	<0.01			
BQS	B-Line Quaternary Screen (4)	VOC	0.01	0.03		28	
		TRS	<0.01	<0.01			
ASDT (A[5])	A-Line Screen Dilution Tank (5)	VOC	0.01	0.02		28	
		TRS	<0.01	<0.01			
BSDT (A[5])	B-Line Screen Dilution Tank (5)	VOC	<0.01	0.01		28	
		TRS	<0.01	<0.01			
ADHV1/ADSP1	A-Line Decker Hood Vent and A-Line Decker Seal Pit Vent (5)	VOC	9.24	27.20		28	
		TRS	4.06	11.95			
BDHV1/BDSP1	B-Line Decker Hood Vent and B-Line Decker Seal Pit Vent (5)	VOC	13.55	54.41		28	
		TRS	5.95	23.89			
CPS1 (note e)	Chip/Bark Handling Fugitives (4)	PM	3.35	13.59	7	28	
		PM_{10}	1.58	6.43			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	1.58	6.43			
REJBIN2	Reject Bin	CH_3OH	0.03	0.10		28	
LOG-1A	Log Processing 1A (4)	PM	0.73	3.20	7	28	
		PM_{10}	0.22	0.96			
		$PM_{2.5}$	0.22	0.96			
HDST1 (A^5)	No. 1 Brown Stock High Density Stock Tank (5)	VOC	4.80	21.02		28	
		TRS	0.44	1.94			
HDST2 (A^5)	No. 2 Brown Stock High Density Stock Tank (5)	VOC	4.80	21.02		28	
		TRS	0.44	1.94			
ALDST (A^5)	A-Line Low Density Chest (5)	VOC	4.80	21.02		28	
		TRS	0.44	1.94			
BLDST (A^5)	B-Line Low Density Chest (5)	VOC	4.80	21.02		28	
		TRS	0.44	1.94			
AWTST (A^5)	A-Line Waste Stock	VOC	4.80	21.02		28	

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
	Chest (5)	TRS	0.44	1.94			
BWTST (A[5])	B-Line Waste Stock Chest (5)	VOC	4.80	21.02		28	
		TRS	0.44	1.94			
(note f)	Extruder No. 5 Vents and Fugitives (4)	PM	3.18	13.91	7	28	
		PM_{10}	3.18	13.91			
		$PM_{2.5}$	3.18	13.91			
		VOC	2.07	9.05			
		NO_X	0.29	1.29			
		CO	0.25	1.08			
		SO_2	<0.01	0.01			
(note f)	Extruder No. 7 Vents and Fugitives (4)	PM	3.18	13.92	7	28	
		PM_{10}	3.18	13.92			
		$PM_{2.5}$	3.18	13.92			
		VOC	2.07	9.05			

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		NO_X	0.30	1.33			
		CO	0.26	1.12			
		SO_2	<0.01	0.01			
(note g)	Nos. 1 and 3 Paper Machines and Dryer Exhaust (5)	PM	0.19	0.83	7	28	
		PM_{10}	0.19	0.83			
		$PM_{2.5}$	0.19	0.83			
		VOC	8.74	38.27			
		NO_X	2.50	10.93			
		CO	2.10	9.18			
		SO_2	0.01	0.07			
TNK0115, TNK0116, and TNK0175 (A^1)	Starch Silo Nos. 1 -3	PM	0.02	0.02	7	28	
		PM_{10}	0.02	0.02			
		$PM_{2.5}$	0.02	0.02			
PAINTYD (A^8)	Sitewide Painting	PM	70.31	32.72	7	28	

Major NSR Summary Table

Permit Numbers 2975 and PSDTX778M2					Issuance Date: February 21, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
	Activities (4)	PM_{10}	70.31	32.72			
		$PM_{2.5}$	70.31	32.72			
		VOC	96.05	28.94			
BSS1 – BSS5 (A^5)	Nos. 1-5 Bleached Stock Storage Tanks (4)	VOC	0.04	0.17		28	
(note h)	Paper Machine Tanks and Chests (4)	VOC	0.16	0.68		28	
HVLC-1	HVLC Vent	VOC	157.78	23.09		28	
		CO	3.19	0.51			
		TRS	33.30	4.77			
AWSST (A^5)	A-Line Washed Stock Chest (5)	VOC	0.72	3.16		28	
		TRS	0.28	1.21			
BWSST (A^5)	B-Line Washed Stock Chest (5)	VOC	0.74	3.26		28	
		TRS	0.28	1.21			

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources use area name or fugitive source name.

(3) PM - particulate matter, suspended in the atmosphere, including PM_{10}
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
Emissions of $PM_{2.5}$ is added to the Maximum Allowable Emission Rates Table (MAERT) upon issuance of the permit. These emissions were previously quantified and authorized as PM or PM_{10}, but were not speciated in the MAERT.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code §101.1
SO_2 - sulfur dioxide
H_2SO_4 - sulfuric acid
TRS - total reduced sulfur
NO_x - nitrogen oxides
NH_3 - ammonia
Cl_2 - chlorine
ClO_2 - chlorine dioxide (chlorine peroxide)
CO - carbon monoxide
H_2S - hydrogen sulfide
CH_3OH - methanol
H_2O_2 - hydrogen peroxide
$CHCl_3$ - chloroform
$CHBrCl_2$ - bromodichloromethane

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) The VOC and TRS emission rates for this point are considered to be estimates only and are not intended to be enforceable limits.

(6) Planned startup and shutdown emissions are included, as well as planned maintenance activities identified as part of permit alteration issued on April 24, 2013.
A^1 Emissions from planned startup and shutdown activities included.
A^2 Emissions from soot blowing included.
A^3 Emissions from control device for evaporator and concentrators boil outs included.
A^4 Emissions from planned MSS activities included.
A^5 Emissions from draining/degassing included.
A^6 Emissions from dredging and other maintenance (e.g., ponds and collection system) included.
A^7 Emissions from maintenance throughout the mill included.
A^8 Emissions from maintenance painting included.

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
Graphic Packaging International, LLC
Authorizing the Construction and Operation of
Pulp and Paper Mill Plant
Located at **Queen City, Cass County, Texas**
Latitude 33° 15′ 22″ Longitude −94° 4′ 18″

Permit: 2975
Amendment Date: November 15, 2022
Expiration Date: August 10, 2027

For the Commission

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

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

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

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

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius
°F = Temperature in degrees Fahrenheit
°K = Temperature in degrees Kelvin
µg = microgram
µg/m^3 = microgram per cubic meter
acfm = actual cubic feet per minute
AMOC = alternate means of control
AOS = alternative operating scenario
AP-42 = Air Pollutant Emission Factors, 5th edition
APD = Air Permits Division
API = American Petroleum Institute
APWL = air pollutant watch list
BPA = Beaumont/ Port Arthur
BACT = best available control technology
BAE = baseline actual emissions
bbl = barrel
bbl/day = barrel per day
bhp = brake horsepower
BMP = best management practices
Btu = British thermal unit
Btu/scf = British thermal unit per standard cubic foot or feet
CAA = Clean Air Act
CAM = compliance-assurance monitoring
CEMS = continuous emissions monitoring systems
cfm = cubic feet (per) minute
CFR = Code of Federal Regulations
CN = customer ID number
CNG = compressed natural gas
CO = carbon monoxide
COMS = continuous opacity monitoring system
CPMS = continuous parametric monitoring system
DFW = Dallas/ Fort Worth (Metroplex)
DE = destruction efficiency
DRE = destruction and removal efficiency
dscf = dry standard cubic foot or feet
dscfm = dry standard cubic foot or feet per minute
ED = (TCEQ) Executive Director
EF = emissions factor
EFR = external floating roof tank
EGU = electric generating unit
EI = Emissions Inventory
ELP = El Paso
EPA = (United States) Environmental Protection Agency
EPN = emission point number
ESL = effects screening level
ESP = electrostatic precipitator
FCAA = Federal Clean Air Act
FCCU = fluid catalytic cracking unit
FID = flame ionization detector
FIN = facility identification number
ft = foot or feet
ft/sec = foot or feet per second
g = gram
gal/wk = gallon per week
gal/yr = gallon per year
GLC = ground level concentration
GLC_{max} = maximum (predicted) ground-level concentration
gpm = gallon per minute
gr/1000scf = grain per 1000 standard cubic feet
gr/dscf = grain per dry standard cubic feet
H_2CO = formaldehyde
H_2S = hydrogen sulfide
H_2SO_4 = sulfuric acid
HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
HC = hydrocarbons
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/Brazoria
hp = horsepower
hr = hour
IFR = internal floating roof tank
in H_2O = inches of water
in Hg = inches of mercury
IR = infrared
ISC3 = Industrial Source Complex, a dispersion model
ISCST3 = Industrial Source Complex Short-Term, a dispersion model
K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
LACT = lease automatic custody transfer
LAER = lowest achievable emission rate
lb = pound
hp = horsepower
hr = hour lb/day = pound per day
lb/hr = pound per hour
lb/MMBtu = pound per million British thermal units
LDAR = Leak Detection and Repair (Requirements)
LNG = liquefied natural gas
LPG = liquefied petroleum gas
LT/D = long ton per day
m = meter
m^3 = cubic meter
m/sec = meters per second
MACT = maximum achievable control technology
MAERT = Maximum Allowable Emission Rate Table
MERA = Modeling and Effects Review Applicability
mg = milligram
mg/g = milligram per gram
mL = milliliter
MMBtu = million British thermal units
MMBtu/hr = million British thermal units per hour
MSDS = material safety data sheet
MSS = maintenance, startup, and shutdown
MW = megawatt
NAAQS = National Ambient Air Quality Standards
NESHAP = National Emission Standards for Hazardous Air Pollutants
NGL = natural gas liquids
NNSR = nonattainment new source review
NO_x = total oxides of nitrogen

NSPS = New Source Performance Standards
PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
$PM_{2.5}$ = particulate matter equal to or less than 2.5 microns in diameter
PM_{10} = total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
POC = products of combustion
ppb = parts per billion
ppm = parts per million
ppmv = parts per million (by) volume
psia = pounds (per) square inch, absolute
psig = pounds (per) square inch, gage
PTE = potential to emit
RA = relative accuracy
RATA = relative accuracy test audit
RM = reference method
RVP = Reid vapor pressure
scf = standard cubic foot or feet
scfm = standard cubic foot or feet (per) minute
SCR = selective catalytic reduction
SIL = significant impact levels
SNCR = selective non-catalytic reduction
SO_2 = sulfur dioxide
SOCMI = synthetic organic chemical manufacturing industry
SRU = sulfur recovery unit
TAC = Texas Administrative Code
TCAA = Texas Clean Air Act
TCEQ = Texas Commission on Environmental Quality
TD = Toxicology Division
TLV = threshold limit value
TMDL = total maximum daily load
tpd = tons per day
tpy = tons per year
TVP = true vapor pressure
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VRU = vapor recovery unit or system

Special Conditions

Permit Numbers 2975 and PSDTX778M2

Emission Standards

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission limits and other conditions specified in the attached table including emissions from maintenance, startup, and shutdown (MSS) activities represented on pages B-1 and B-2 of the February 11, 2005, amendment application for Recovery Furnace Nos. 1 and 2.

   In addition, this permit authorizes all emissions from planned startup and shutdown activities associated with facilities or groups of facilities that are authorized by this permit.

Fuel Specifications

2. Fuel for mill combustion sources shall be limited as follows:

   A. Fuel for No. 2 Power Boiler (Emission Point Number [PN PB02]) shall be limited to bark and wood materials (defined as any uncontaminated wood materials including but not limited to sawdust, pallets, size-reduced limbs, and any other wood material from a tree such as nut shells); pipeline-quality, sweet natural gas as defined in the General Rules; Nos. 2, 4, and 6 fuel oil containing less than 3 percent sulfur by weight; primary clarifier underflow fiber cake (sludge from the wastewater treatment plant) as defined in the file by correspondence dated October 21, 1994, or used railroad crossties (26.2 tons per hour [tph] based on a 30-day average). All railroad crossties used as fuel in the No. 2 Power Boiler shall meet the specifications of Title 40 Code of Federal Regulations (40 CFR) Part 241, Subpart B, § 241.4(a). **(11/22)**

   The burning rate for bark is limited to 75 tph. Compliance with this rate shall be determined by a 30-day average. Records shall be maintained on-site for a rolling 24-month period and made available to personnel from the TCEQ upon request.

   B. Fuel for the No. 1 Power Boiler (EPN PB01) shall be limited to natural gas. Nos. 2, 4, and 6 fuel oils containing no more than 3 percent sulfur by weight. If the sulfur content of the fuel oil will exceed 3 weight percent, the permit holder must notify the TCEQ Regional Office and propose a fuel mixing plan that will not cause an exceedance of the maximum allowable emission rates; otherwise, the permit holder must obtain approval from the Executive Director.

   Annual fuel firing rates (MMBtu/yr, HHV) are limited as follows: Natural Gas - 5,725,625; No. 6 Fuel Oil - 681,120; Total Fuel Oils (Nos. 2, 4, and 6 Fuel Oils) - 3,300,910; Total - All Fuels (Natural Gas and Fuel Oils) - 5,725,625.

   While firing only No. 6 fuel oil, the total hours of operation for the No. 1 Power Boiler over any consecutive 12-month period shall not exceed a maximum of 720 hours.

   C. The Nos. 1 and 2 Lime Kilns (EPNs LK01 and LK02) shall burn only pipeline-quality, sweet natural gas as defined in the General Rule and Nos. 2, 4, and 6 fuel oils containing less than 3 percent sulfur by weight.

   D. Auxiliary fuel for the Recovery Furnace Nos. 1 and 2 shall be only pipeline-quality, sweet natural gas as defined in the General Rules.

   E. Auxiliary fuel for the NCG Oxidation Unit shall be sweet natural gas. This fuel shall be used, as necessary, to maintain the required minimum temperature in the NCG Oxidation Unit.

Use of any other fuel shall require prior approval from the Executive Director of the Texas Commission on Environmental Quality (TCEQ).

Federal Applicability

3. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources in 40 CFR Part 60, specifically the following:

   A. Subpart A - General Provisions;

   B. Subpart BB - Kraft Paper Mills (The Smelt Dissolving Tank No. 2, the non-condensable gas (NCG) oxidation unit, the Recovery Furnace Nos. 1 and 2, and all affected facilities);

   C. Subpart D - Commercial Steam Generating Units (Power Boiler No. 2 [EPN PB02]); and

   D. Subparts A and BB, § 60.283 (a)(1)(iii) only - Kraft Pulp Mills (Power Boiler No. 2 [EPN PB02]).

4. These facilities shall comply with all applicable requirements of the EPA regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63, specifically the following:

   A. Subpart A - General Provisions;

   B. Subpart S – Pulp and Paper Industry;

   C. Subpart MM - Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills (Lime Kiln Nos. 1 and 2 (Emission Point Nos. [EPN] LK01 and LK02), Recovery Furnace Nos. 1 and 2 (EPNs RB01 and RB02), and Smelt Dissolving Tank Nos. 1 and 2 (EPNs SM01 and SM02); and

   D. Subpart DDDDD - Industrial, Commercial, and Institutional Boilers (Power Boiler No. 1 [EPN PB01] and Power Boiler No. 2 [EPN PB02], and all affected facilities).

5. These facilities shall comply with all applicable requirements of the EPA Regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 61, specifically the following:

   A. Subpart A - General Provisions; and

   B. Subpart E – Mercury (Power Boiler No. 2 [EPN PB02]).

Opacity/Visible Emission Limitations

6. Opacity of emissions from Power Boiler No. 1, the Smelt Tank Scrubber Nos. 1 and 2, the Lime Kiln Stack Nos. 1 and 2, the NCG oxidation unit scrubber, and the Recovery Furnace Stack Nos. 1 and 2 shall not exceed 20 percent averaged over a six-minute period when adjusted for uncombined water vapor, except for those periods described in Title 30 Texas Administrative Code (30 TAC) §§ 101.201 and 101.211. Opacity shall not exceed the limits set forth in 30 TAC Chapter 111, Control of Air Pollution from Visible Emissions and Particulate Matter, during planned MSS.

7. Opacity of emissions from any uncontrolled stationary vent shall not exceed 5 percent averaged over a six-minute period when adjusted for uncombined water vapor, except for those periods described in 30 TAC §§ 101.201 and 101.211. Opacity shall not exceed the limits set forth in 30 TAC Chapter 111, Control of Air Pollution from Visible Emissions and Particulate Matter, during planned MSS. If this condition is violated, further controls may be required to be installed and/or implemented to limit visible emissions.

8. Opacity of emissions from the A-Line and B-Line Bleach Plant Scrubbers shall not exceed 5 percent averaged over a six-minute period when adjusted for uncombined water vapor, except for those periods described in 30 TAC §§ 101.201 and 101.211. Opacity shall not exceed the limits set forth in 30 TAC Chapter 111, Control of Air Pollution from Visible Emissions and Particulate Matter, during planned MSS.

Operational Limitations, Work Practice, and Plant Design

9. Power Boiler No. 1 (EPN PB01) emission concentrations are limited as follows during production operations:

   A. Nitrogen oxides (NO_x): 0.6 lb/ million British Thermal Unit (MMBtu) (24-hour average).

   B. Carbon monoxide (CO): 400 parts per million dry volume (ppmv), corrected to 3 percent dry oxygen. (24-hour average).

   C. Sulfur dioxide (SO_2): 440 ppmv (3-hour average) for fuel oil firing.

10. In-stack concentration of sulfur dioxide (SO_2) from Recovery Furnace Nos. 1 and 2 shall not exceed 300 parts per million by volume (ppmv) and 100 ppmv during production operations, averaged over a three-hour and a yearly period, respectively, and corrected to a dry 8 percent oxygen (O_2) basis. Compliance with the SO_2 concentrations provided in this condition may be determined by the use of continuous monitoring data.

11. The No. 1 Lime Kiln shall comply with the following limitations during production operations:

   A. The maximum total reduced sulfur (TRS) shall be 20 parts per million by volume (ppmv) corrected to 10 percent oxygen (O_2) (measured as hydrogen sulfide, 12-hour average).

   B. The maximum total carbon monoxide shall be 0.064lb/MMBtu (short term)(24-hr average) and 0.051 lb/MMBtu (annual).

   C. The maximum nitrogen oxides shall be 0.17 lb/MMBtu (fuel oil) (24-hour average) and 0.18 lb/MMBtu (natural gas) (24-hour average).

12. PB01 shall be equipped with multi-cyclones to control emissions of PM, and shall be equipped with at least a 218.9-foot tall stack, as measured from the ground level, to provide adequate dispersion of the boiler exhaust and shall have no raincaps or other similar devices that will prevent adequate dispersion of the boiler exhaust. The permit holder shall install stack testing port in the boiler stack.

13. The EPN PB02 shall be equipped with multi-cyclones and a scrubber with the following control efficiencies: 95 percent removal efficiency for hydrogen chloride, 98.5 percent for total particulate matter (PM) and 90 percent for SO_2.

14. Maximum hourly emission rates (ER) for EPN PB02 shall be based on 24-hour averages (except for SO_2 when firing fuel oil, which shall be based on a three-hour averaging time according to 30 TAC §112.9 and NO_x, which shall also be based on a three-hour averaging time according to 40 CFR Part 60, Subpart D).

    The mill is authorized to operate:

    24 hours/day, 7 days/week, 52 weeks/year, and 8,760 hours /year and 817,803 air dried unbleached tons per year 736,022 bone dry unbleached tons per year of pulp.

15. Emissions of chlorine (Cl_2) and chlorine dioxide (ClO2) from the bleaching plant shall be minimized by the use of weak wash (sodium sulfide solution) scrubbers equipped with a pH monitor and control system. The solution of the scrubbers shall be maintained at a minimum pH of eight in order to insure that the emission control efficiencies are maintained at the following values:

Scrubber and Emission Point No.	Emission Control Efficiencies
B-line (BP14)	95 percent (Cl_2/ClO2)
B-line (BP15)	95 percent (Cl_2/ClO2)
A-line (BP16)	95 percent (Cl_2/ClO2)

    The bleach plant lines are also authorized to operate as follows:

    A. When both the A- and B-lines are operating, the B-line bleach plant vents can be routed to the A-line bleach plant scrubber (EPN BP16).

    B. When the B-line is not operating, the A-line bleach plant vents can be routed to the B-line bleach plant scrubbers (EPNs BP14 and BP15).

        This is in line with MAERT statement that emissions from all three scrubbers shall be summed for compliance.

16. In order to maintain the maximum combustion efficiency for TRS compounds and NCGs, the NCG oxidation unit shall be operated as shown in Special Condition No. 21 with a residence time of 0.11 seconds (minimum) and a TRS removal efficiency of 99.9 percent. Immediate corrective action shall be taken when the O_2 deviates below 4 percent per (3-hour rolling average).

17. The SO_2 packed tower scrubber on the NCG oxidation unit shall use a recirculating sodium hydroxide solution. The solution shall be maintained at the minimum pH to ensure good SO_2 removal.

18. Recovery Furnace No. 1 (EPNs RB01A and RB01B) shall be limited to 54.5 tph of black liquor solids and a natural gas firing rate of 375 MMBtu/per hour (hr). Recovery Furnace No. 2 (EPNs RB02A and RB02B) is limited to 99.25 tph of black liquor solids and a natural gas firing rate of 750 MMBtu/hr. The maximum hourly ER for most pollutants from Recovery Furnace Nos.1 and 2 are based on a 24-hour averaging time except for TRS (as hydrogen sulfide [H_2S]) which is based on a 12-hour averaging time while PM and SO_2 are based on a 3-hour averaging time.

    The maximum ER for the Recovery Furnace Nos. 1 and 2 shall be split between the two stacks in the MAERT for accounting purposes only. To determine compliance with the MAERT, the

emission rates listed for each stack shall be summed since each furnace is a single facility and the individual stack emissions may vary.

In order to comply with the PM/PM_{10} MSS emission limits represented in the MAERT for the four Recovery Furnace Stacks (EPNs RB01A, RB01B, RB02A, and RB02B) during planned MSS activities, the planned MSS activities shall be limited to 25 hours per year for each of the four Recovery Furnace Stacks.

19. Lime Kiln No. 1 (LK01) is limited to 228 tons per day and 68,620 tons per year. The maximum firing rate for LK01 using either Nos. 2, 4, or 6 fuel oils shall not exceed 2,520 MMBtu/day (105 MMBtu/hr) and 420,480 MMBtu/yr. The maximum firing rate for LK01 using natural gas shall not exceed 2,520 MMBtu/day (105 MMBtu/hr) and 550,000 MMBtu/yr.

20. Lime Kiln No. 2 (LK02) shall be limited to 400 tons per day of lime with a burner rating of 132.3 MMBtu/hr for short-term oil firing or 113.3 MMBtu/hr for sustained oil firing, and 113.3 MMBtu/hr for both short-term and sustained firing for natural gas. The maximum hourly ER for most pollutants from EPN LK02 shall be based on a 24-hour averaging time except for TRS (as H_2S) which is based on a 12-hour averaging time while PM and SO_2 shall be based on a three-hour averaging time.

Demonstration of Continuous Compliance

21. The following parameters shall be monitored and recorded:

Table 1: Monitoring Parameters and Limits

Unit	Parameter	Limit
Smelt Tank Scrubber No. 1	PM - Fan motor current	Title V Compliance Assurance
	PM - Liquid flow rate to scrubber	Monitoring (CAM)*
	PM - Liquid flow rate to fan	Title V CAM*
	PM (Opacity) - Fan motor current	Title V CAM*
	PM (Opacity) - Liquid flow rate to scrubber	Title V Periodic Monitoring*
	PM (Opacity) - Liquid flow rate to fan	Title V Periodic Monitoring*
		Title V Periodic Monitoring*

Unit	Parameter	Limit
Smelt Tank Scrubber No. 2[H]	PM - Fan motor current PM - Liquid flow rate to scrubber PM - Liquid flow rate to fan PM (Opacity) - Fan motor current	Title V CAM * Title V CAM* Title V CAM* TitleV Periodic Monitoring*
Smelt Tank Scrubber No. 2[H]	PM (Opacity) - Liquid flow rate to scrubber PM (Opacity) - Liquid flow rate to fan	Title V Periodic Monitoring* Title V Periodic Monitoring*
Precipitator Ash Tank No. 2	Temperature	235^{O}F maximum, daily average
No. 2 Recovery Boiler Ash Tank	Temperature	235^{O}F maximum, daily average
Power Boiler No. 1	Opacity SO_2 - Fuel sulfur content	20 percent Title V Periodic Monitoring*
Power Boiler No. 2[I]	PM - Liquid flow rate PM - Pressure drop PM (Opacity) - Liquid flow rate PM (Opacity) - Pressure drop SO_2 NO_x O_2	Title V CAM* Title V CAM* Title V Periodic Monitoring* Title V Periodic Monitoring* MAERT MAERT
Lime Kiln No. 1 Scrubber	PM - Gas stream pressure drop PM - Liquid flow rate PM (Opacity) - Pressure drop	Title V CAM * Title V CAM* Title V Periodic Monitoring*

Unit	Parameter	Limit
	PM (Opacity) - Liquid flow rate	Title V Periodic Monitoring*
Lime Kiln No. 2 Scrubber	PM - Gas stream pressure drop PM - Liquid flow rate PM (Opacity) - Pressure drop PM (Opacity) - Liquid flow rate	Title V CAM * Title V CAM* Title V Periodic Monitoring* Title V Periodic Monitoring*
A-Line Bleach Plant Scrubber	PM (Opacity) - pH of scrubbing liquid PM (Opacity) - Fan motor current PM (Opacity) - Liquid flow rate	Title V Periodic Monitoring * Title V Periodic Monitoring* Title V Periodic Monitoring*
B-Line Bleach Plant Scrubber North	PM (Opacity) - pH of scrubbing liquid PM (Opacity) - Fan motor current PM (Opacity) - Liquid flow rate	Title V Periodic Monitoring * Title V Periodic Monitoring* Title V Periodic Monitoring*
B-Line Bleach Plant Scrubber South	PM (opacity) -pH of scrubbing liquid PM (opacity) - Fan motor current PM(Opacity) - Liquid flow rate	Title V Periodic Monitoring * Title V Periodic Monitoring* Title V Periodic Monitoring*

Unit	Parameter	Limit
Recovery Furnace No. 1 Stack[H]	PM - Opacity TRS SO_2 Black liquor solids Opacity	Title V CAM* MAERT 300 ppmv (3-hr average)/100 ppmv (annual average) maximum 54.5 ton/hr (24-hr average) 20% maximum
Recovery Furnace No. 2 Stack[H]	PM - Opacity PM (Opacity) - Opacity TRS SO_2 Black liquor solids	Title V CAM* Title V Periodic Monitoring* MAERT 300 ppmv (3-hr average)/100 ppmv (annual average) maximum 99.25 ton/hr (24-hr average)
NCG Oxidation Unit	TRS - Combustion Chamber temperature Excess O_2 in exhaust SO_2 - pH of scrubbing liquid SO_2 - Liquid flow rate	Title V CAM* with a minimum temperature of 1579^{O}F. <20 ppmv of Methanol (3-hour rolling averaging period) 4% minimum 7.0 minimum# 150 gpm minimum#

* The specific limit is included in the “Additional Monitoring Requirements Section” in the Title V permit (Permit No. O-01378).

H-see NSPS BB for recordkeeping requirements.

I-see NSPS D for recordkeeping requirements.

CAM Requirements for SO_2 emissions from NCGO1: In order to maintain adequate SO_2 control for the emissions associated with the NCG Oxidation Unit, the control device associated with this source shall be monitored according to the following:

Table 2: Monitoring Parameters for NCG Oxidation Unit

Control Device	Monitoring Parameter	Minimum Monitoring Frequency**	Deviation limit
NCG Oxidation Unit Scrubber (NCGO1)	pH	once per day	7.0 minimum
	Liquid flow rate	once per day	150 gpm

** International Paper may elect to collect monitoring data on a more frequent basis than is required by the minimum frequency and calculate a daily average for purposes of determining whether a deviation has occurred. However, the additional points must be collected on a regular basis and shall not be collected and used in particular instances in order to avoid reporting deviations.

pH: Each monitoring devices shall be cleaned with an automatic cleaning system, or cleaned weekly using hydraulic, chemical, or mechanical cleaning. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least weekly, whichever is more frequent, and shall be accurate to within +0.5 pH unit.

Liquid flow rate: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:

- ±2% of span; or
- ±5% of design liquid flow rate

The monitoring parameter must be measured and recorded at the frequency indicated above. Immediate corrective action should be taken if the monitoring parameter falls outside of the range specified in this condition.

22. Disposal of particulate collected in all control devices shall be accomplished in such a manner which will prevent PM from becoming airborne.

23. The permit holder shall install, calibrate, and maintain a continuous emission monitoring system (CEMS) to measure and record the in-stack concentration of NO_x and SO_2 from Power Boiler No. 2 (EPN PBO2), TRS, and SO_2 from Recovery Furnace No. 1 (EPNs RBO1A and RBO1B) and Recovery Furnace No. 2 (EPNs RBO2A and RBO2B), and TRS from Lime Kiln Nos. 1 and 2 (EPNs LKO1 and LKO2).

    A. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact

the TCEQ Office of Permitting, and Registration, Air Permits Division for requirements to be met.

B. Section 1 below applies to sources subject to the quality-assurance requirements of 40 CFR Part 60, Appendix F; section 2 applies to all other sources:

(1) The permit holder shall assure that the CEMS meets the applicable quality-assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, § 5.2.3 and any CEMS downtime shall be reported to the appropriate TCEQ Regional Director, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Tyler Regional Director. Downtime is not considered to include periods when the CEMS is operational but the 24-hour span drift exceeds the allowable amounts.

(2) The system shall be zeroed and spanned daily and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B, or as specified by the TCEQ if not specified in Appendix B. Zero and span are not required on weekends and plant holidays if instrument technicians are not normally scheduled on those days, unless the monitor is required by a subpart of NSPS or NESHAPS in which case zero and span shall be done daily without exception.

Each monitor shall be quality-assured at least quarterly using cylinder gas audits (CGA) in accordance with 40 CFR Part 60, Appendix F, Procedure 1, § 5.1.2, with the following exception: RATAs are not required for these systems. For non-NSPS sources, an equivalent quality-assurance method approved by the TCEQ may also be used and an annual RATA is not required.

C. The monitoring data shall be reduced to hourly average concentrations at least weekly, using a minimum of four equally-spaced data points from each one-hour period. The individual average concentrations shall be reduced to units of the permit allowable ER in pounds per hour (lb/hr) at least once every calendar quarter (except for O_2) as follows:

The measured hourly average concentration from the CEMS shall be multiplied by the gas flow rate (either as measured according to 40 CFR Part 60, Appendix A, Methods 1 through 4, or as calculated by appropriate F factor according to 40 CFR Part 60, Appendix A, Method 19) to determine the hourly ER.

D. All monitoring data and quality-assurance data shall be maintained for a period of 60 months. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit.

E. For SO_2 from EPNs RBO1A & RBO1B and EPNs RBO2A & RBO2B, and TRS from EPNs LKO1 and LKO2, up to 5 percent invalid monitoring data on a rolling 12-month basis is acceptable provided it is only generated when the monitor is broken down, out-of-control (producing inaccurate data); being repaired, having maintenance performed, or being calibrated (data not obtained during any daily zero and span performed is not considered invalid data).

The data availability shall be calculated as the total fired unit operating hours for which quality-assured data was recorded divided by the total fired unit operating hours. The measurements missed shall be estimated using engineering judgment and the methods used recorded. Options to increase system reliability to an acceptable value, including a redundant CEMS, may be required by the TCEQ Tyler Regional Director.

24. The holder of this permit shall install, calibrate, and maintain a continuous opacity monitoring system (COMS) to measure and record the in-stack concentration of opacity from PB01. The COMS shall be operated in accordance with 40 CFR § 60.13. This special condition shall only apply when fuel oil is being fired in PB01. **(01/18)**

25. Upon request by the TCEQ Executive Director, the holder of this permit shall be required to perform stack sampling analysis for PM, total volatile organic compounds (VOC), NO_x, CO, SO_2, methanol, and formaldehyde and/or other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the facilities covered by this permit. Sampling must be conducted in accordance with appropriate procedures of the TCEQ Sampling Procedures Manual or in accordance with applicable U.S. Environmental Protection Agency Code of Federal Regulations procedures. Any deviations from those procedures must be approved by the TCEQ Executive Director prior to sampling. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.

    The facilities shall operate at the maximum achievable fuel-firing rate during stack emission testing. Primary operating parameters that enable determination of fuel-firing rate shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting. If the facilities are unable to operate at maximum fuel-firing rate during testing, then future fuel-firing rate may be limited to the rate established during testing. Additional stack testing may be required when higher fuel-firing rates are achieved.

26. 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 sample and/or an analysis of the fuel utilized in this facility or shall allow air pollution control agency representatives to obtain a sample for analysis.

27. Due to the high moisture content in the gas stream exiting the scrubber, a continuous opacity monitor as specified in NSPS D is not feasible. To verify the particulate emissions are within NSPS limits, the Power Boiler No. 2 shall be tested once a year for total suspended particulate and any other pollutant at the request of the TCEQ Regional Office.

Recordkeeping Requirements

28. Records shall be maintained at this facility site and made available at the request of personnel from the TCEQ or any other air pollution control program having jurisdiction to demonstrate compliance with permit limitations. These records shall be totaled for each calendar month, retained for a rolling 60-month period, and include the following:

    A. Records of all production rates, ERs, and operating parameters necessary to demonstrate compliance with this permit on-site for a rolling five-year period. Records shall include certification from all suppliers of used railroad crossties that all railroad crossties received at the site meet the specifications of 40 CFR Part 241, Subpart B, § 241.4(a). The holder shall provide access and/or copies of these records to the Executive Director of the TCEQ and/or his representatives and any local air pollution control program upon request. **(11/22)**

    B. The quantity of each fuel (MMBtu/hr basis) fired per month (PB01 only).

    C. The quantity of calcium oxide (tons) produced per day.

D. Annual report from the natural gas supplier identifying total H_2S content and from the fuel oil supplier identifying total sulfur content of Nos. 2, 4, and 6 fuel oils sold to permit holder to demonstrate compliance with this permit.

E. Copies of stack sampling reports conducted on the facilities covered by this permit. The stack sampling reports shall be kept at the site for a period of at least five years from the time sampling was completed.

F. Preventive maintenance, schedule maintenance, and repairs performed on any abatement devices shall be recorded as they occur.

29. All the records required by this condition shall be maintained for at least five years and made available to representatives of the TCEQ or any local air pollution control program having jurisdiction upon request.

Date: November 15, 2022

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 2975 and PSDTX778M2

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

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * (6)	
			lbs/hour	TPY
SM01	No. 1 Smelt Tank Scrubber	PM	10.90	47.74
		PM_{10}	10.90	47.74
		$PM_{2.5}$	10.90	47.74
		VOC (note a)	1.37	6.02
		SO_2	3.28	14.37
		H_2SO_4	0.15	0.66
		TRS (note b)	1.80	7.88
		NO_X	1.80	7.88
		NH_3	2.51	8.99
SM02	No. 2 Smelt Tank Scrubber	PM	19.85	86.94
		PM_{10}	19.85	86.94
		$PM_{2.5}$	19.85	86.94
		VOC	2.50	10.95
		SO_2	6.78	29.70
		H_2SO_4	0.31	1.36
		TRS	3.28	14.35
		NO_X	3.28	14.35
		NH_3	4.57	16.37
LK01** (A^1)	Lime Kiln No. 1	PM	27.60	99.80
		PM_{10}	27.60	99.80
		$PM_{2.5}$	27.60	99.80

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * (6)	
			lbs/hour	TPY
		VOC	2.20	8.10
		SO_2	2.30	8.40
		H_2SO_4	0.06	0.13
		TRS	2.60	9.30
		NO_X	18.90	49.50
		CO	6.80	14.20
PB01*** (A^1, A^2)	No. 1 Power Boiler (Natural Gas and Fuel Oil Firing)	PM	61.21	185.22
		PM_{10}	61.21	185.22
		$PM_{2.5}$	61.21	185.22
		VOC	8.26	16.70
		NO_X	567.60	1717.69
		SO_2	841.20	1328.25
		CO	264.88	801.59
		H_2SO_4	4.03	4.43
		TRS	0.67	0.26
LK02** (A^1)	Lime Kiln No. 2	PM	26.30	115.19
		PM_{10}	26.30	115.19
		$PM_{2.5}$	26.30	115.19
		NO_X	38.91	145.90
		SO_2	1.20	5.26
		H_2SO_4	0.25	1.07
		CO	4.44	19.45
		TRS	2.50	10.95
		VOC	4.00	17.52

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * (6)	
			lbs/hour	TPY
PB02**** (A[1], A[2], A[3])	Power Boiler No. 2 (including MSS) (note c)	PM	108.70	466.58
		PM_{10}	108.70	466.58
		$PM_{2.5}$	108.70	466.58
		VOC	54.81	237.80
		NO_X	326.10	1399.75
		SO_2	770.00	780.66
		CO	1102.55	4732.57
		H_2SO_4	16.57	71.02
		TRS	1.66	6.74
RB01A** (A[1], A[2])	No. 1 Recovery Furnace North Stack (Normal ops)	PM	26.58	116.43
		PM_{10}	26.58	116.43
		$PM_{2.5}$	26.58	116.43
		VOC	13.13	57.52
		NO_X	63.12	276.45
		SO_2	210.94	307.98
		H_2SO_4	9.69	14.14
		CO	122.97	538.61
		TRS	1.87	8.19
RB01A** (A[4])	No. 1 Recovery Furnace North Stack (MSS)	PM	52.00	0.65
		PM_{10}	52.00	0.65
		$PM_{2.5}$	52.00	0.65
RB01B** (A[1], A[2])	No. 1 Recovery Furnace South Stack (Normal Ops)	PM	26.58	116.43
		PM_{10}	26.58	116.43
		$PM_{2.5}$	26.58	116.43

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * (6)	
			lbs/hour	TPY
		VOC	13.13	57.52
		NO_X	63.12	276.45
		SO_2	210.94	307.98
		H_2SO_4	9.69	14.14
		CO	122.97	538.61
		TRS	1.87	8.19
RB01B** (A^4)	No. 1 Recovery Furnace South Stack (MSS)	PM	52.00	0.65
		PM_{10}	52.00	0.65
		$PM_{2.5}$	52.00	0.65
RB02A** (A^1, A^2)	No. 2 Recovery Furnace West Stack (Normal Ops)	PM	42.59	177.23
		PM_{10}	42.59	177.23
		$PM_{2.5}$	42.59	177.23
		VOC	23.92	99.51
		NO_X	112.42	467.76
		SO_2	375.71	521.11
		H_2SO_4	17.25	23.93
		CO	219.02	911.34
		TRS	3.33	13.86
RB02A** (A^4)	No. 2 Recovery Furnace West Stack (MSS)	PM	79.00	0.99
		PM_{10}	79.00	0.99
		$PM_{2.5}$	79.00	0.99
RB02B** (A^1, A^2)	No. 2 Recovery Furnace East Stack (Normal Ops)	PM	42.59	177.23
		PM_{10}	42.59	177.23
		$PM_{2.5}$	42.59	177.23

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * (6)	
			lbs/hour	TPY
		VOC	23.92	99.51
		NO_X	112.42	467.76
		SO_2	375.71	521.11
		H_2SO_4	17.25	23.93
		CO	219.02	911.34
		TRS	3.33	13.86
RB02B** (A[4])	No. 2 Recovery Furnace East Stack (MSS)	PM	79.00	0.99
		PM_{10}	79.00	0.99
		$PM_{2.5}$	79.00	0.99
BG01 (A[1])	Lime System Baghouse No. 1	PM	0.06	0.21
		PM_{10}	0.06	0.21
		$PM_{2.5}$	0.06	0.21
BG02 (A[1])	Lime System Baghouse No. 2	PM	0.10	0.44
		PM_{10}	0.10	0.44
		$PM_{2.5}$	0.10	0.44
LS01	No. 1 Lime Slaker	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	0.02	0.08
		VOC	0.39	1.41
		NH_3	9.39	33.63
LS02	No. 2 Lime Slaker	PM	0.02	0.10
		PM_{10}	0.02	0.10
		$PM_{2.5}$	0.02	0.10
		VOC	0.68	2.99

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * (6)	
			lbs/hour	TPY
		NH_3	17.10	61.24
BP0351 (A^5)	Methanol Storage Tank	CH_3OH	19.03	0.73
BP0368 (A^5)	Hydrogen Peroxide Tank	H_2O_2	2.21	0.09
NCG01 (A^1, A^3)	NCG Oxidation Unit Scrubber	PM	2.57	9.19
		PM_{10}	2.57	9.19
		$PM_{2.5}$	2.57	9.19
		VOC (note a)	1.10	3.95
		NO_X	5.57	19.96
		SO_2	15.84	69.37
		CO	9.94	35.61
		H_2SO_4	6.01	26.28
		TRS	0.99	4.36
NCG02 (A^5)	Combined Contaminated Condensate Tank	TRS	<0.10	0.40
NCGF1	NCG Fugitives (4)	TRS	0.36	1.56
DIG1	Batch Digester Fugitives (4)	VOC	4.80	19.19
		TRS	0.87	3.46
WWTS1 (A^6, A^7)	Waste Water Treatment Fugitives (4)	VOC	348.16	740.78
		TRS	22.82	81.72
BP14#	B-Line Bleach Plant Scrubber (North)(5)	Cl_2	0.07	0.32
		ClO_2	4.23	18.51
		CO	29.22	117.37
		VOC	3.06	12.28
		TRS	0.09	0.37

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * (6)	
			lbs/hour	TPY
BP15#	B-Line Bleach Plant Scrubber (South)(5)	Cl_2	0.07	0.32
		ClO_2	4.23	18.51
		CO	29.22	117.37
		VOC	3.06	12.28
		TRS	0.09	0.37
BP16#	A-Line Bleach Plant Scrubber (5)	Cl_2	0.20	0.86
		ClO_2	11.31	49.51
		CO	39.00	117.37
		VOC	4.17	12.28
		TRS	0.12	0.37
BP01	Bleach Plant Fugitives (4)	Cl_2	0.20	1.00
		ClO_2	0.20	1.00
CLT01 (A^5)	No. 1 Concentrated Liquor Storage Tank (5)	VOC	0.11	0.48
		TRS	0.19	0.84
CLT02 (A^5)	No. 2 Concentrated Liquor Storage Tank (5)	VOC	0.11	0.48
		TRS	0.19	0.84
WLT01 (A^5)	No. 1 Weak Liquor Storage Tank (5)	VOC	0.54	2.37
		TRS	0.12	0.51
WLT02 (A^5)	No. 2 Weak Liquor Storage Tank (5)	VOC	0.54	2.34
		TRS	0.12	0.51
HLT01 (A^5)	No. 1 Strong/Heavy Liquor Storage Tank (5)	VOC	0.11	0.48
		TRS	0.19	0.84
HLT02 (A^5)	No. 2 Storage/Heavy Liquor Storage Tank (5)	VOC	0.11	0.48
		TRS	0.19	0.84

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * (6)	
			lbs/hour	TPY
SCT01 (A[5])	No. 1 Soap Conc. Tank (5)	VOC	0.03	0.12
		TRS	0.05	0.21
SCT02 (A[5])	No. 2 Soap Conc. Tank (5)	VOC	0.03	0.12
		TRS	0.05	0.21
SS01 (A[5])	No. 1 Soap Separator (5)	VOC	0.03	0.12
		TRS	0.05	0.21
SS02 (A[5])	No. 2 Soap Separator (5)	VOC	0.03	0.12
		TRS	0.05	0.21
SST01 (A[5])	No. 1 Soap Storage Tank (5)	VOC	0.03	0.12
		TRS	0.05	0.21
SST02 (A[5])	No. 2 Soap Storage Tank (5)	VOC	0.03	0.12
		TRS	0.05	0.21
BLDF01 (A[5])	Black Liquor Digester Fill Tank (5)	VOC	0.54	2.37
		TRS	0.12	0.51
CT01 (A[5])	Spill Collection Tank (5)	VOC	0.54	2.37
		TRS	0.12	0.51
ST01 (A[5])	Swing Tank (5)	VOC	0.54	2.37
		TRS	0.12	0.51
SLST01 (A[5])	No. 1 Spare Liquor Storage Tank (5)	VOC	0.54	2.37
		TRS	0.12	0.51
SLST02 (A[5])	No. 2 Spare Liquor Storage Tank (5)	VOC	0.54	2.37
		TRS	0.12	0.51
SLST03 (A[5])	No. 3 Spare Liquor Storage Tank (5)	VOC	0.54	2.37
		TRS	0.12	0.51

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * (6)	
			lbs/hour	TPY
BOT01 (A[5])	Evaporator Boil Out Tank (5)	VOC	0.11	0.48
		TRS	0.19	0.84
DT01 (A[5])	Black Liquor Dump Tank (5)	VOC	0.54	2.37
		TRS	0.12	0.51
WLSC01 (A[5])	Weak Liquor Soap Conc. Tank (5)	VOC	0.03	0.12
		TRS	0.05	0.21
FOT (A[5])	Fuel Oil Tank (5)	VOC	1.52	6.64
		TRS	0.19	0.84
CPFUG (note d)	Caustic Plant Fugitives (4)	NH_3	7.31	26.17
		VOC	16.25	68.30
		TRS	3.18	13.91
CP01 (A[5])	No. 1 Causticizer Tanks (5)	NH_3	2.59	9.28
		VOC	0.01	0.03
CP02 (A[5])	No. 2 Causticizer Tank (5)	NH_3	4.72	16.89
		VOC	0.01	0.06
WLOXT1 (A[5])	White Liquor Oxidation Tank (5)	NH_3	0.10	0.44
		VOC	0.26	1.16
		TRS	0.56	2.45
KNCONV	A-and B-Line Knotter Conveyor (4)	VOC	0.01	0.04
AQS	A-Line Quaternary Screen (4)	VOC	<0.01	0.01
		TRS	<0.01	<0.01
BQS	B-Line Quaternary Screen (4)	VOC	0.01	0.03
		TRS	<0.01	<0.01
ASDT (A[5])	A-Line Screen Dilution	VOC	0.01	0.02

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * (6)	
			lbs/hour	TPY
	Tank (5)	TRS	<0.01	<0.01
BSDT (A5)	B-Line Screen Dilution Tank (5)	VOC	<0.01	0.01
		TRS	<0.01	<0.01
ADHV1/ADSP1	A-Line Decker Hood Vent and A-Line Decker Seal Pit Vent (5)	VOC	9.24	27.20
		TRS	4.06	11.95
BDHV1/BDSP1	B-Line Decker Hood Vent and B-Line Decker Seal Pit Vent (5)	VOC	13.55	54.41
		TRS	5.95	23.89
CPS1 (note e)	Chip/Bark Handling Fugitives (4)	PM	3.35	13.59
		PM_{10}	1.58	6.43
		$PM_{2.5}$	1.58	6.43
REJBIN2	Reject Bin	CH_3OH	0.03	0.10
LOG-1A	Log Processing 1A (4)	PM	0.73	3.20
		PM_{10}	0.22	0.96
		$PM_{2.5}$	0.22	0.96
HDST1 (A5)	No. 1 Brown Stock High Density Stock Tank (5)	VOC	4.80	21.02
		TRS	0.44	1.94
HDST2 (A5)	No. 2 Brown Stock High Density Stock Tank (5)	VOC	4.80	21.02
		TRS	0.44	1.94
ALDST (A5)	A-Line Low Density Chest (5)	VOC	4.80	21.02
		TRS	0.44	1.94
BLDST (A5)	B-Line Low Density Chest (5)	VOC	4.80	21.02
		TRS	0.44	1.94
AWTST (A5)	A-Line Waste Stock Chest (5)	VOC	4.80	21.02
		TRS	0.44	1.94

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * (6)	
			lbs/hour	TPY
BWTST (A[5])	B-Line Waste Stock Chest (5)	VOC	4.80	21.02
		TRS	0.44	1.94
(note f)	Extruder No. 5 Vents and Fugitives (4)	PM	3.18	13.91
		PM_{10}	3.18	13.91
		$PM_{2.5}$	3.18	13.91
		VOC	2.07	9.05
		NO_X	0.29	1.29
		CO	0.25	1.08
		SO_2	<0.01	0.01
(note f)	Extruder No. 7 Vents and Fugitives (4)	PM	3.18	13.92
		PM_{10}	3.18	13.92
		$PM_{2.5}$	3.18	13.92
		VOC	2.07	9.05
		NO_X	0.30	1.33
		CO	0.26	1.12
		SO_2	<0.01	0.01
(note g)	Nos. 1 and 3 Paper Machines and Dryer Exhaust (5)	PM	0.19	0.83
		PM_{10}	0.19	0.83
		$PM_{2.5}$	0.19	0.83
		VOC	8.74	38.27
		NO_X	2.50	10.93
		CO	2.10	9.18
		SO_2	0.01	0.07
TNK0115, TNK0116,	Starch Silo Nos. 1 -3	PM	0.02	0.02

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * (6)	
			lbs/hour	TPY
and TNK0175 (A[1])		PM_{10}	0.02	0.02
		$PM_{2.5}$	0.02	0.02
PAINTYD (A[8])	Sitewide Painting Activities (4)	PM	70.31	32.72
		PM_{10}	70.31	32.72
		$PM_{2.5}$	70.31	32.72
		VOC	96.05	28.94
BSS1 – BSS5 (A[5])	Nos. 1-5 Bleached Stock Storage Tanks (4)	VOC	0.04	0.17
(note h)	Paper Machine Tanks and Chests (4)	VOC	0.16	0.68
HVLC-1	HVLC Vent	VOC	157.78	23.09
		CO	3.19	0.51
		TRS	33.30	4.77
AWSST (A[5])	A-Line Washed Stock Chest (5)	VOC	0.72	3.16
		TRS	0.28	1.21
BWSST (A[5])	B-Line Washed Stock Chest (5)	VOC	0.74	3.26
		TRS	0.28	1.21

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources use area name or fugitive source name.
(3) PM - particulate matter, suspended in the atmosphere, including PM_{10}
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
Emissions of $PM_{2.5}$ is added to the Maximum Allowable Emission Rates Table (MAERT) upon issuance of the permit. These emissions were previously quantified and authorized as PM or PM_{10}, but were not speciated in the MAERT.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code §101.1
SO_2 - sulfur dioxide
H_2SO_4 - sulfuric acid
TRS - total reduced sulfur
NO_x - nitrogen oxides
NH_3 - ammonia
Cl_2 - chlorine
ClO_2 - chlorine dioxide (chlorine peroxide)

Emission Sources - Maximum Allowable Emission Rates

CO - carbon monoxide
H_2S - hydrogen sulfide
CH_3OH - methanol
H_2O_2 - hydrogen peroxide
$CHCl_3$ - chloroform
$CHBrCl_2$ - bromodichloromethane

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(5) The VOC and TRS emission rates for this point are considered to be estimates only and are not intended to be enforceable limits.
(6) Planned startup and shutdown emissions are included, as well as planned maintenance activities identified as part of permit alteration issued on April 24, 2013.
A^1 Emissions from planned startup and shutdown activities included.
A^2 Emissions from soot blowing included.
A^3 Emissions from control device for evaporator and concentrators boil outs included.
A^4 Emissions from planned MSS activities included.
A^5 Emissions from draining/degassing included.
A^6 Emissions from dredging and other maintenance (e.g., ponds and collection system) included.
A^7 Emissions from maintenance throughout the mill included.
A^8 Emissions from maintenance painting included.

* Unless otherwise specified, emission rates are based on operating 8,760 hours per year or 817,803 air dried unbleached tons per year 736,022 bone dry unbleached tons per year of pulp.

** Pound per hour rates, TRS emissions based on a 12-hour averaging time, PM/PM_{10} and SO_2 based on a 3-hour averaging time, all other pollutants are based on a 24-hour averaging time.

*** Pound per hour rates, SO_2 and NO_x emissions are based on a 3-hour averaging time while all other pollutants are based on a 24-hour averaging time.

**** Pounds per hour rates, SO_2 emissions are based on a 3-hour averaging time while all other pollutants are based on a 24-hour averaging time.

Emissions from the Bleach Plant Scrubbers (EPNs BP14, BP15, and BP16) should be summed up when determining compliance since individual emissions may vary.

Notes:

(a) All VOCs are reported as carbon unless otherwise specified.
(b) All TRS emission rates are reported as H_2S unless otherwise specified.
(c) The SO_2 hourly rates for the Power Boiler No. 2 include combustion of total reduced sulfur compounds during periods when the NCG oxidizer is inoperable.
(d) Green liquor clarifiers (2), green liquor storage tanks (3), weak wash storage tanks (2), white liquor clarifiers (2), white liquor storage tanks (4), white liquor/digestor fill tank, mud washers (2), mud storage tanks (2), mud precoat filters (2), and dregs filter.
(e) These fugitives occur from the chip and RDF handling operations.
(f) Includes the pre-treater stacks (EX5PRE1, EX5PRE2, EX7PRE1, EX7PRE2), the laminator stack (EX5LAM1, EX5LAM2, EX7LAM1, EX7LAM2), the post-treater stack (EX5POSTTR, EX7POSTTR), and fugitives (EXFUG5, EXFUG7) for each extruder.
(g) The Paper Machine Nos.1 and 3 consist of 18 exhaust vents and fugitive emissions.
(h) Includes pine tanks (PINETK3, PINETK1S, PINETK1), hardwood tanks (HDWD1, HDWD3), machine chests (MACHCH1, MACHCH3), and broke storage tanks (BRST1A, BRST1B, BRST3A).

Date: August 10, 2017