

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO  
International Paper Company

AUTHORIZING THE OPERATION OF  
Inland Paperboard and Packaging Orange Mill  
Kraft Linerboard Mill  
Pulp Mills

LOCATED AT  
Orange County, Texas  
Latitude 30° 13' 13" Longitude 93° 44' 30"  
Regulated Entity Number: RN100214428

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:   01408   Issuance Date: \_\_\_\_\_

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For the Commission

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## **General Terms and Conditions**

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

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

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

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

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

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

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

- C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
  - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
  - E. The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD and 30 TAC Chapter 113, Subchapter C, § 113.1130 for the following units P-BARKB, P-POWB, and P-POWB<sub>3</sub> by January 31, 2017. This is a one year extension of the compliance date granted in accordance with § 63.6(i)(4)(i)(A). The permit holder shall comply with the emission control installations, compliance schedule, and notification requirements contained in the Alternative Requirements attachment of this permit. The permit holder shall maintain the original documentation from the TCEQ Executive Director granting the compliance extension. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144. No later than January 31, 2017, the permit holder shall submit a revision application to codify the requirements in the permit.
  - F. Emission units subject to 40 CFR Part 63, Subparts S, MM, and ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.240, §113.440, and §113.1090, respectively which incorporate 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<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
- (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (5) Compliance Certification:
  - (a) If visible emissions are not present during the observation, the RO may certify that the source is in

compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).

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

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

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
  - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other

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

- (2) Records of all observations shall be maintained.
- (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (4) Compliance Certification:
  - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)
  - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) 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<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
    - (1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
    - (2) Records of all observations shall be maintained.
    - (3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at

the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- 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 § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
  - (iv) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: “Storage of Volatile Organic Compounds,” the permit holder shall comply with the requirements of 30 TAC § 115.112(a)(1).
- 5. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
  - A. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities, constructed prior to November 15, 1992, with transfers to stationary storage tanks located at a facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991, 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)
- 6. The permit holder shall comply with the following 30 TAC Chapter 115, Subchapter F requirements (relating to Cutback Asphalt Requirements):

- A. Title 30 TAC § 115.512(3) (relating to Control Requirements)
7. 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)
8. 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)

9. 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.
10. 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
11. 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**

12. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached “CAM Summary” upon issuance of the permit. In addition, the permit holder shall comply with the following:
  - A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
  - B. The permit holder shall report, consistent with the averaging time identified in the “CAM Summary,” deviations as defined by the deviation limit in the “CAM Summary.” Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a

deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

- C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “CAM Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
- D. The permit holder shall operate the monitoring, identified in the attached “CAM Summary,” in accordance with the provisions of 40 CFR § 64.7.
- E. Except for emission units using a CEMS, COMS or PEMS which meets the requirements of 40 CFR § 64.3(d)(2), the permit holder shall comply with either of the following requirements for any particulate matter capture system associated with the control device subject to CAM. If the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective action:
  - (i) Once per year the permit holder shall inspect any fan for proper operation and inspect the capture system used in compliance of CAM for cracks, holes, tears, and other defects; or
  - (ii) Once per year, the permit holder shall inspect for fugitive emissions escaping from the capture system in compliance of CAM by performing a visible emissions observation for a period of at least six minutes in accordance with 40 CFR Part 60, Appendix A, Test Method 22.
- F. Except for emission units using a CEMS, COMS or PEMS which meets the requirements of 40 CFR § 64.3(d)(2), the permit holder shall comply with either of the following requirements for any bypass of the control device subject to CAM. If the results of the following inspections or monitoring indicate bypass of the control device, the permit holder shall promptly take necessary corrective actions and report a deviation:
  - (i) Install a flow indicator that is capable of recording flow, at least once every fifteen minutes, immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or
  - (ii) Once a month, the permit holder shall inspect the valves checking the position of the valves and the condition of the car seals. Identify

all times when the car seal has been broken and the valve position has been changed to allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere.

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

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

14. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
- A. Are incorporated by reference into this permit as applicable requirements
  - B. Shall be located with this operating permit
  - C. Are not eligible for a permit shield
15. 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.
16. 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**

17. 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.
18. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
  - A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
    - (i) For sources in the Beaumont-Port Arthur Nonattainment area, 30 TAC § 117.9000
  - B. The permit holder shall comply with the Initial Control Plan unit listing requirement in 30 TAC § 117.150(c) and (c)(1).
  - C. The permit holder shall comply with the requirements of 30 TAC § 117.152 for Final Control Plan Procedures for Reasonably Available Control Technology and 30 TAC § 117.156 for Revision of Final Control Plan.
  - D. The permit holder shall comply with the requirements of 30 TAC § 117.154 for Final Control Plan Procedures for Attainment Demonstration Emission Specifications and 30 TAC § 117.156 for Revision of Final Control Plan.
19. Use of Emission Credits to comply with applicable requirements:
  - A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:

- (i) Title 30 TAC Chapter 115
  - (ii) Title 30 TAC Chapter 117
  - (iii) Offsets for Title 30 TAC Chapter 116
- B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
- (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)(2)
  - (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
  - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)(2)
  - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
  - (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)
20. Use of Discrete Emission Credits to comply with the applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
- (i) Title 30 TAC Chapter 115
  - (ii) Title 30 TAC Chapter 117
  - (iii) If applicable, offsets for Title 30 TAC Chapter 116
  - (iv) Temporarily exceed state NSR permit allowables
- B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
- (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
  - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability

requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4

- (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
- (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
- (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

### **Protection of Stratospheric Ozone**

21. 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 F related to the disposal requirements for appliances using Class I or Class II (ozone-depleting) substances or non-exempt substitutes as specified in 40 CFR §§ 82.150 - 82.166 and the applicable Part 82 Appendices.
  - D. 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.

### **Alternative Requirements**

22. 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**

23. 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)**

24. 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**

**Unit Summary ..... 20**

**Applicable Requirements Summary ..... 35**

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
GRP-PM1&2	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	PM1-101, PM1-102, PM1-103, PM1-104, PM1-105, PM1-106, PM1-107, PM1-108, PM1-109, PM1-110, PM1-111, PM1-112, PM1-113, PM1-114, PM1-115, PM1-116, PM1-117, PM1-118, PM1-119, PM1-120, PM1-121, PM1-122, PM1-123, PM1-124, PM1-125, PM1-126, PM1-127, PM1-128, PM1-129, PM1-130, PM1-131, PM1-167, PM1-168, PM1-174, PM1-175, PM2-132, PM2-133, PM2-134, PM2-135, PM2-136, PM2-137, PM2-138, PM2-139, PM2-140, PM2-141, PM2-142, PM2-143, PM2-144, PM2-145, PM2-146, PM2-147, PM2-148, PM2-149, PM2-150, PM2-151, PM2-152, PM2-153, PM2-154, PM2-155, PM2-156, PM2-157, PM2-158, PM2-169, PM2-170, PM2-171, PM2-172, T-2PMSFSBC, T-2PMTSSP, T-2PMUBST, T-2PMWPC, T-NO1PMCP, T-NO1PMPPP, T-NO1PMSP, T-NO1PMWP,	R5121-612	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		T-NO2PMCP			
GRP-SFS	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	P-SF-159, P-SF-160, P-SF-161, P-SF-163, P-SF-164, P-SF-165, P-SF-166, P-SF-173, P-SFREPULP	R5121-612	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-TANK1	STORAGE TANKS/VESSELS	T-CWDT, T-FTCOMB, T-MWCPTN, T-MWCPTS, T-NEUTAT, T-FLTCLPM1, T-FLTCLPM2, T-PMDEFOM1, T-PMDEFOM2, T-PMDEFOM3, T-TOACDAID, T-TOSETAID, T-WCCDT	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP-VENT1	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	P-1CST, P-2CST, P-3CST, P-4CST, P-5CST, P-BSWA, P-BSWB, P-GLDREGS, P-LMRT, P-LMWE, P-PRECOAT, P-PVACEXE, P-PVACEXW, P-SPPCFVP, P-WLE, P-WLSP, P-WWSP, T-1PMBSBC, T-1PMPRST, T-1PMSRST, T-1PMTSMC, T-2BROKES, T-2PMBASE, T-2PMBPCR, T-2PMBSNE, T-2PMBSSB, T-2PMSAVAL, T-2PMTSMC, T-2PMWTNC, T-2PMWTWW, T-	R5121-612	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		2PMWWC, T-3GLC, T-BBFART, T-BROKEST, T-CLOUDYWW, T-EFSWT, T-EXCESSWW, T-LKSC, T-LMD, T-MDSTORSF, T-MIX, TN-KCC, TN-KCS, T-NO1PMBDE, T-NO1PMRS, T-NO1PMSRS, T-NO1PMWWC, T-NO1PMWWS, T-NO2PMBDE, T-NO2PMBS, T-NO2PMS, T-NO2PMTCR, T-NO2PMTS, T-NO2PMTSS, T-NO2PVRT, T-NO2TSCM, T-NO2WTRC, T-PMBSLD, T-PMBSSFSC, T-PMLVST, T-PMTSLD, T-SFR, T-SFRTE, T-SFSC, T-SFSST, T-SFWWN, T-STRAINWW			
GRP-VENT2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	P-DRYB1MT, P-DRYB2MT, P-OREACT, P-SPFVP, T-1GLS, T-1HBL, T-1RFSCMT, T-1WBL, T-1WLS, T-2GLC, T-2HBL, T-2RFSCMT, T-2WBL, T-2WLS, T-ABLEN, T-AHD, T-BBLEN, T-BHD, T-BOIL, T-BRINE, T-CCOND, T-EVSOAP, T-	R5121-100	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		GLE, T-HDBSC, T-MWFT, T-NMUD, T-REJEC, T-SMUD, T-SOAP, T-SWING, T-WKWASH, T-WLEF, T-WTHDSC			
LF-FUG	MSW / WASTE DISPOSAL SITE	N/A	61M-001	40 CFR Part 61, Subpart M	No changing attributes.
P-BARKB	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R1111-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
P-BARKB	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
P-BARKB	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R7105-1A	30 TAC Chapter 117, Subchapter B	No changing attributes.
P-BARKB	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60DB-1	40 CFR Part 60, Subpart Db	No changing attributes.
P-BARKB	INCINERATOR	N/A	61E-1	40 CFR Part 61, Subpart E	No changing attributes.
P-BARKBV	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-1	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				
P-CLARENG	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
P-CTWR1	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
P-CW	KRAFT PULP MILLS	N/A	60BB-1	40 CFR Part 60, Subpart BB	Gas Control Techniques = Gases are combusted in a lime kiln or recovery furnace not subject to 40 CFR Part 60, Subpart BB.
P-CW	KRAFT PULP MILLS	N/A	60BB-2	40 CFR Part 60, Subpart BB	Gas Control Techniques = Gases are combusted with other waste gases in an incinerator or other combustion device.
P-DIGA	KRAFT PULP MILLS	N/A	R251-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
P-DIGB	KRAFT PULP MILLS	N/A	R251-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
P-DIS1	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R1151-1	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
P-DIS1	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R1111-1	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
P-DIS1	KRAFT PULP MILLS	N/A	R251-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
P-DIS1	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R5121-612	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
P-DIS1	KRAFT PULP MILLS	N/A	63MM-1	40 CFR Part 63, Subpart MM	No changing attributes.
P-DIS2	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R1151-1	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
P-DIS2	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
P-DIS2	KRAFT PULP MILLS	N/A	R251-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
P-DIS2	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R5121-612	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
P-DIS2	KRAFT PULP MILLS	N/A	63MM-1	40 CFR Part 63, Subpart MM	No changing attributes.
P-FIREPMP	SRIC ENGINES	N/A	60III-1	40 CFR Part 60, Subpart III	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
P-FIREPMP	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
P-LIMK	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
P-LIMK	KRAFT PULP MILLS	N/A	R251-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
P-LIMK	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
P-LIMK	KRAFT PULP MILLS	N/A	63MM-1	40 CFR Part 63, Subpart MM	No changing attributes.
P-LIMKV	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
P-LIMKV	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R5121-612	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
P-LIMS	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
P-LIQLOAD	LOADING/UNLOADI	N/A	R5211-1	30 TAC Chapter 115,	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	NG OPERATIONS			Loading and Unloading of VOC	
P-LKENG	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	Stationary RICE Type = 4 stroke spark ignited lean burn engine.
P-LKENG	SRIC ENGINES	N/A	63ZZZZ-2	40 CFR Part 63, Subpart ZZZZ	Stationary RICE Type = 4 stroke spark ignited rich burn engine
P-MEEC	KRAFT PULP MILLS	N/A	R251-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
P-POWB	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
P-POWB	BOILERS/STEAM GENERATORS/STEA M GENERATING UNITS	N/A	R7105-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
P-POWB3	BOILERS/STEAM GENERATORS/STEA M GENERATING UNITS	N/A	60DB-1	40 CFR Part 60, Subpart Db	No changing attributes.
P-POWB3V	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
P-REVB1	EMISSION POINTS/STATIONAR Y VENTS/PROCESS	N/A	R1151-1	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	VENTS				
P-REVB1	KRAFT PULP MILLS	N/A	R251-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
P-REVB1	KRAFT PULP MILLS	N/A	63MM-1	40 CFR Part 63, Subpart MM	No changing attributes.
P-REVB1V	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
P-REVB2	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R1151-1	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
P-REVB2	KRAFT PULP MILLS	N/A	R251-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
P-REVB2	KRAFT PULP MILLS	N/A	63MM-1	40 CFR Part 63, Subpart MM	No changing attributes.
P-REVB2V	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
PRO-FCOND	PULP PAPER PAPERBOARD PRODUCING PROCESS	N/A	63S-1	40 CFR Part 63, Subpart S	No changing attributes.
PRO-HVLC1	PULP PAPER	N/A	63S-1	40 CFR Part 63, Subpart S	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	PAPERBOARD PRODUCING PROCESS				
PRO-HVLC2	PULP PAPER PAPERBOARD PRODUCING PROCESS	N/A	63S-1	40 CFR Part 63, Subpart S	Control Device = P-LIMK
PRO-HVLC2	PULP PAPER PAPERBOARD PRODUCING PROCESS	N/A	63S-2	40 CFR Part 63, Subpart S	Control Device = P-BARKB
PRO-LVHC	PULP PAPER PAPERBOARD PRODUCING PROCESS	N/A	63S-1	40 CFR Part 63, Subpart S	Control Device = P-LIMK
PRO-LVHC	PULP PAPER PAPERBOARD PRODUCING PROCESS	N/A	63S-2	40 CFR Part 63, Subpart S	Control Device = P-BARKB
P-SC	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	R5131-1	30 TAC Chapter 115, Water Separation	No changing attributes.
P-SCALEGEN	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
P-SLAK1	EMISSION POINTS/STATIONAR Y VENTS/PROCESS	N/A	R1111-1	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				
P-SLAK1	EMISSION POINTS/STATIONAR Y VENTS/PROCESS VENTS	N/A	R5121-612	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
P-SSKIM	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	R5131-1	30 TAC Chapter 115, Water Separation	No changing attributes.
P-TOLOAD	LOADING/UNLOADI NG OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
P-TURPLOAD	LOADING/UNLOADI NG OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
P-UNLOAD	LOADING/UNLOADI NG OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
T-1DEFOAM	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-1SET	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	R5131-1	30 TAC Chapter 115, Water Separation	No changing attributes.
T-1STOR	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-2DEFOAM	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
T-2STOR	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-3GLS	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-4WLS	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-5WLS	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-ABLOW	KRAFT PULP MILLS	N/A	R251-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
T-BBLOW	KRAFT PULP MILLS	N/A	R251-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
T-BLT1W	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-BLT2C	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-BLT3E	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-BRINE	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-CLAROIL	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-CWFLT	KRAFT PULP MILLS	N/A	60BB-1	40 CFR Part 60, Subpart BB	Gas Control Techniques = Gases are combusted in a lime kiln or recovery furnace not subject to

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					40 CFR Part 60, Subpart BB.
T-CWFLT	KRAFT PULP MILLS	N/A	60BB-2	40 CFR Part 60, Subpart BB	Gas Control Techniques = Gases are combusted with other waste gases in an incinerator or other combustion device.
T-DIES	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-DIESRAIL1	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-DIESRAIL2	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-EVSOAP	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-FULK1	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-FULK2	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-GEARLUBE	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-GLE	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-HYDRAUL	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-LUBEOILM	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
T-LUBERAIL	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-LWSLASH	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
TN-CWCCT	KRAFT PULP MILLS	N/A	60BB-1	40 CFR Part 60, Subpart BB	Gas Control Techniques = Gases are combusted in a lime kiln or recovery furnace not subject to 40 CFR Part 60, Subpart BB.
TN-CWCCT	KRAFT PULP MILLS	N/A	60BB-2	40 CFR Part 60, Subpart BB	Gas Control Techniques = Gases are combusted with other waste gases in an incinerator or other combustion device.
T-PM1BWSR	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-PM2LUBE	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-PMBULKOL	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-ROSIN	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-TURDE	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	R5131-1	30 TAC Chapter 115, Water Separation	No changing attributes.
T-TURP	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
T-ULSD	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-USED OIL	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-WOLRAIL <sub>1</sub>	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
T-WOLRAIL <sub>2</sub>	STORAGE TANKS/VESSELS	N/A	R5122-1	30 TAC Chapter 115, Storage of VOCs	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)
GRP-PM1&2	EP	R5121-612	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-SFS	EP	R5121-612	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-TANK1	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
GRP-VENT1	EP	R5121-612	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-VENT2	EP	R5121-100	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
LF-FUG	PRO	61M-001	112(B) HAPS	40 CFR Part 61, Subpart M	[G]§ 61.154(c) [G]§ 61.154(b) § 61.154(e)(3) § 61.154(g)	Either meet the no visible emissions requirements of §61.154(a), or cover any asbestos-containing waste material per the methods	None	[G]§ 61.154(e)(1) § 61.154(e)(4) § 61.154(f) § 61.154(i)	[G]§ 61.153(a)(5) § 61.153(b) § 61.154(e)(2) § 61.154(h) § 61.154(i)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						specified.			[G]§ 61.154(j)
P-BARKB	EU	R1111-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.153(b)	No person may cause, suffer, allow, or permit emissions of particulate matter from any solid fossil fuel-fired steam generator to exceed 0.3 pound of total suspended particulate per million Btu heat input, averaged over a two-hour period.	** See CAM Summary	None	None
P-BARKB	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(C)	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	[G]§ 115.125(2) § 115.125(1) § 115.125(4) § 115.125(5) [G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2)	None
P-BARKB	EU	R7105-1A	CO	30 TAC Chapter 117, Subchapter B	§ 117.105(f)(2) § 117.105(a) § 117.105(f) § 117.105(f)(3) § 117.130(a) § 117.140(k)	For wood fuel-fired boilers subject to NO <sub>x</sub> emission specifications in subsection (a) or (b) of this section, no person shall allow the discharge into the atmosphere CO emissions in excess of 775 ppmv at 7.0% oxygen, dry basis.	[G]§ 117.135(a)(1) § 117.135(a)(4) § 117.135(b) § 117.135(c) § 117.135(d) § 117.135(f) § 117.135(f)(3) § 117.135(g) § 117.140(a) § 117.140(d) § 117.140(e) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) §	§ 117.145(a) § 117.145(f) § 117.145(f)(1) [G]§ 117.145(f)(2) § 117.145(f)(7) § 117.145(f)(8) § 117.145(f)(9) § 117.8100(a)(5)(C)	§ 117.135(b) § 117.135(g) [G]§ 117.145(b) [G]§ 117.145(c) § 117.145(d) § 117.145(d)(1) § 117.145(d)(2) § 117.145(d)(3) § 117.145(d)(4) § 117.145(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							117.8100(a)(1)(B)(ii) ) § 117.8100(a)(1)(B)(iii) ) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6) § 117.8120 § 117.8120(1) § 117.8120(1)(A)		§ 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)
P-BARKB	EU	R7105-1A	NH <sub>3</sub>	30 TAC Chapter 117, Subchapter B	§ 117.105(g) § 117.105(a) § 117.130(a) § 117.140(k)	No person shall allow the discharge into the atmosphere from any unit subject to a NO <sub>x</sub> emission specification in this section (including an alternative to the NO <sub>x</sub> limit in this section under § 117.115 or § 117.123 of this title) ammonia emissions in excess of 20 ppmv based on a block one-hour averaging period.	§ 117.135(a)(2) § 117.135(a)(4) § 117.135(b) § 117.135(d) § 117.135(e) § 117.135(g) § 117.8000(b) § 117.8000(c) § 117.8000(c)(3) § 117.8000(c)(4) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8130 § 117.8130(1)	§ 117.145(a) § 117.145(f) § 117.145(f)(9)	§ 117.135(b) § 117.135(g) [G]§ 117.145(b) [G]§ 117.145(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
P-BARKB	EU	R7105-1A	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter B	§ 117.105(a)(1) § 117.105(a) [G]§ 117.105(a)(2)	For purposes of this subchapter, the permit nitrogen oxides emission	[G]§ 117.135(a)(1) § 117.135(a)(4) § 117.135(b)	§ 117.145(a) § 117.145(f) § 117.145(f)(1)	§ 117.135(b) § 117.135(g) [G]§ 117.145(b)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 117.130(a) § 117.130(d) § 117.130(d)(5) § 117.140(k) § 117.140(l)	limit in effect on June 9, 1993, under a permit issued in accordance with Chapter 116 of this title applies if lower than specifications of § 117.150(b)-(d).	§ 117.135(c) § 117.135(d) § 117.135(f) § 117.135(f)(1) § 117.135(g) § 117.140(a) § 117.140(c)(1) [G]§ 117.140(c)(3) § 117.140(e) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4) § 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)	[G]§ 117.145(f)(2) § 117.145(f)(8) § 117.145(f)(9) § 117.8100(a)(5)(C)	[G]§ 117.145(c) § 117.145(d) § 117.145(d)(1) § 117.145(d)(2) § 117.145(d)(3) § 117.145(d)(4) § 117.145(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(c)
P-BARKB	EU	60DB-1	SO <sub>2</sub>	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	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.48b(a)(3) § 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)
						generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)).			
P-BARKB	EU	60DB-1	PM	40 CFR Part 60, Subpart Db	§ 60.43b(c)(1) § 60.43b(e) § 60.43b(g) § 60.46b(a)	On and after the §60.8 tests, no facility for which construction, reconstruction, or modification began on or before February 28, 2005, that combusts wood, or wood with other fuels, except coal, shall discharge PM in excess of 43 ng/J (0.10 lb/MMBtu) heat input if the facility has an annual capacity factor greater than 30 percent (0.30) for wood.	§ 60.46b(b) § 60.46b(d) § 60.46b(d)(1) [G]§ 60.46b(d)(2) § 60.46b(d)(3) § 60.46b(d)(4) § 60.46b(d)(5) [G]§ 60.46b(d)(6) ** See CAM Summary	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
P-BARKB	EU	60DB-1	PM (OPACITY)	40 CFR Part 60, Subpart Db	§ 60.43b(f) § 60.43b(g) § 60.46b(a)	On/after §60.8 tests, no facility firing specified fuels shall discharge gases exhibiting greater than 20% opacity (6-minute average), except for one 6-minute/hour of not more than 27% opacity.	§ 60.13(i)(1) § 60.46b(d) § 60.46b(d)(7) ** See CAM Summary	[G]§ 60.49b(d) [G]§ 60.49b(f) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b) § 60.49b(h) § 60.49b(h)(3) § 60.49b(v) § 60.49b(w)
P-BARKB	EU	60DB-1	NO <sub>x</sub>	40 CFR Part 60, Subpart Db	§ 60.44b(d) § 60.44b(h) § 60.44b(i) § 60.46b(a)	On/after §60.8 tests, no facilities firing specified fuels shall discharge NO <sub>x</sub> in excess of 130 ng/J (0.30 lb/MMBtu) heat input, unless subject to federal annual capacity factor of 10% or less.	§ 60.46b(c) § 60.46b(e) § 60.46b(e)(1) § 60.48b(b)(1) § 60.48b(c) § 60.48b(d) § 60.48b(e) § 60.48b(e)(2)(i) § 60.48b(e)(3) § 60.48b(f)	[G]§ 60.48b(b) § 60.48b(c) § 60.49b(d) [G]§ 60.49b(g) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(2) § 60.49b(a)(3) § 60.49b(b) § 60.49b(i) § 60.49b(v) § 60.49b(w)

## 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)
P-BARKB	EU	61E-1	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)
P-BARKBV	EP	R1111-1	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
P-CLARENG	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.2 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(b)	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)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(d) § 63.6655(e) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)
P-CTWR1	EP	R1111-1	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
P-CW	EU	60BB-1	TRS	40 CFR Part 60, Subpart BB	§ 60.283(a)(1)(iii)	No gases containing TRS over 5 ppmv, corrected to 10% O <sub>2</sub> shall be discharged from the listed units, unless they are burned with other	§ 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)
						waste gases in the specified devices under the stated conditions.			
P-CW	EU	60BB-2	TRS	40 CFR Part 60, Subpart BB	§ 60.283(a)(1)(iii)	No gases containing TRS over 5 ppmv, corrected to 10% O <sub>2</sub> 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)
P-DIGA	EU	R251-1	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 H <sub>2</sub> S on a dry basis, corrected to 8% O <sub>2</sub> 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
P-DIGB	EU	R251-1	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 H <sub>2</sub> S on a dry basis, corrected to 8% O <sub>2</sub> 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
P-DIS1	EP	R1151-1	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions	** See CAM 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)
						Limits for Steam Generators).			
P-DIS1	EP	R1111-1	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
P-DIS1	EU	R251-1	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 H <sub>2</sub> S (0.016 gram/kilogram black liquor solids as H <sub>2</sub> S).	§ 112.51(c) § 112.55 [G]§ 112.57(a) [G]§ 112.57(b) [G]§ 112.57(c)	[G]§ 112.57(c)	§ 112.59
P-DIS1	EP	R5121-612	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
P-DIS1	EU	63MM-1	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(i)(B) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(2) § 63.864(k)(2)(iii) § 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.	§ 63.864(e)(13) [G]§ 63.864(j) § 63.864(k)(1) § 63.864(k)(1)(v) § 63.864(k)(2) § 63.864(k)(2)(vi) § 63.864(k)(3) § 63.865 [G]§ 63.865(b)	§ 63.864(e)(13) § 63.866(a) [G]§ 63.866(a)(1) [G]§ 63.866(a)(2) § 63.866(b) § 63.866(c) § 63.866(c)(3) § 63.866(c)(4) § 63.866(c)(5)	§ 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) § 63.867(c)(2)
P-DIS2	EP	R1151-1	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions	** See CAM 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)
						Limits for Steam Generators).			
P-DIS2	EP	R1111-1	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
P-DIS2	EU	R251-1	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 H <sub>2</sub> S (0.016 gram/kilogram black liquor solids as H <sub>2</sub> S).	§ 112.51(c) § 112.55 [G]§ 112.57(a) [G]§ 112.57(b) [G]§ 112.57(c)	[G]§ 112.57(c)	§ 112.59
P-DIS2	EP	R5121-612	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
P-DIS2	EU	63MM-1	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(i)(B) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(2) § 63.864(k)(2)(iii) § 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.	§ 63.864(e)(13) [G]§ 63.864(j) § 63.864(k)(1) § 63.864(k)(1)(v) § 63.864(k)(2) § 63.864(k)(2)(vi) § 63.864(k)(3) § 63.865 [G]§ 63.865(b)	§ 63.864(e)(13) § 63.866(a) [G]§ 63.866(a)(1) [G]§ 63.866(a)(2) § 63.866(b) § 63.866(c) § 63.866(c)(3) § 63.866(c)(4) § 63.866(c)(5)	§ 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) § 63.867(c)(2)
P-FIREPMP	EU	60III-1	NMHC and NO <sub>x</sub>	40 CFR Part 60, Subpart III	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a	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)
						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.			
P-FIREPMP	EU	60III-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart.	None	None	[G]§ 60.4214(d)
P-FIREPMP	EU	63ZZZ-1	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
P-LIMK	EP	R1111-01	PM	30 TAC Chapter	§ 111.151(a)	No person may cause,	** See CAM	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)
				111, Nonagricultural Processes	§ 111.151(c)	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).	Summary		
P-LIMK	EU	R251-1	TRS	30 TAC Chapter 112, Sulfur Compounds	§ 112.51(b)(3)	Lime kilns shall not exceed 20 ppm TRS as H <sub>2</sub> S on a dry basis corrected to 10% O <sub>2</sub> .	§ 112.51(c) § 112.55 [G]§ 112.57(a) [G]§ 112.57(b) [G]§ 112.57(c)	[G]§ 112.57(c)	§ 112.59
P-LIMK	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(C)	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(1) § 115.126(1)(C) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2)	None
P-LIMK	EU	63MM-1	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(i)(C) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(2) § 63.864(k)(2)(iii) § 63.864(k)(3)	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.	§ 63.864(e)(10) § 63.864(e)(10)(i) § 63.864(e)(10)(ii) [G]§ 63.864(j) § 63.864(k)(1) § 63.864(k)(1)(ii) § 63.864(k)(2) § 63.864(k)(2)(iii) § 63.864(k)(3) § 63.865 [G]§ 63.865(b)	§ 63.864(e)(10) § 63.866(a) [G]§ 63.866(a)(1) [G]§ 63.866(a)(2) § 63.866(b) § 63.866(c) § 63.866(c)(2) § 63.866(c)(3) § 63.866(c)(4) § 63.866(c)(5)	§ 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) § 63.867(c)(2)
P-LIMKV	EP	R1111-1	OPACITY	30 TAC Chapter	§ 111.111(a)(1)(A)	Visible emissions from any	[G]§ 111.111(a)(1)(F)	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)
				111, Visible Emissions	§ 111.111(a)(1)(E)	stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	** See Periodic Monitoring Summary		
P-LIMKV	EP	R5121-612	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
P-LIMS	EP	R1111-1	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
P-LIQLOAD	EU	R5211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
P-LKENG	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.6 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(b) § 63.6640(f)(1) [G]§ 63.6640(f)(2) § 63.6640(f)(3)	For each existing emergency stationary SI RICE and black start stationary SI RICE with a site rating less than or equal to 500 HP, located at a major source, you must comply with the requirements as specified in Table 2c.6.a-c.	§ 63.6625(f) § 63.6625(j) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(j) § 63.6655(a) § 63.6655(a)(1) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
P-LKENG	EU	63ZZZZ-2	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.6 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(b) § 63.6640(f)(1) [G]§ 63.6640(f)(2) § 63.6640(f)(3)	For each existing emergency stationary SI RICE and black start stationary SI RICE with a site rating less than or equal to 500 HP, located at a major source, you must comply with the requirements as specified in Table 2c.6.a-c.	§ 63.6625(f) § 63.6625(j) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(j) § 63.6655(a) § 63.6655(a)(1) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)
P-MEEC	EU	R251-1	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 H <sub>2</sub> S on a dry basis, corrected to 8% O <sub>2</sub> 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
P-POWB	EP	R1111-1	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
P-POWB	EU	R7105-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.110(c)(1) § 117.110(c) § 117.110(c)(1)(B) § 117.110(c)(3)	No person shall allow the discharge into the atmosphere from any boiler subject to NO <sub>x</sub> emission specifications in § 117.110(a) CO in excess of 400 ppmv at 3.0% oxygen, dry basis, except as provided in § 117.125 or § 117.110(c)(3).	[G]§ 117.135(a)(1) § 117.135(a)(4) § 117.135(b) § 117.135(d) § 117.135(e) § 117.135(g) § 117.140(a) § 117.140(b)(1) § 117.140(b)(3)	§ 117.145(a) § 117.145(f) § 117.145(f)(1) § 117.145(f)(7) § 117.145(f)(9)	§ 117.135(b) § 117.135(g) [G]§ 117.145(b) [G]§ 117.145(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(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)
							§ 117.140(d) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B)		[G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)
P-POWB	EU	R7105-1	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter B	§ 117.110(a)(1) § 117.110(a) § 117.110(b) [G]§ 117.110(b)(1) § 117.130(d) § 117.130(d)(1) § 117.130(d)(3) § 117.140(k)	No person shall allow the discharge into the atmosphere from any gas-fired boilers with a maximum rated capacity equal to or greater than 40 MMBtu emissions of NO <sub>x</sub> in excess of 0.10 lb/MMBtu of heat input.	[G]§ 117.135(a)(1) § 117.135(a)(4) § 117.135(b) § 117.135(c) § 117.135(d) § 117.135(f) § 117.135(f)(1) § 117.135(g) § 117.140(a) § 117.140(b)(1) § 117.140(b)(3) § 117.140(c)(1) [G]§ 117.140(c)(3) § 117.140(e) § 117.8100(a) § 117.8100(a)(1) § 117.8100(a)(1)(A) § 117.8100(a)(1)(B) § 117.8100(a)(1)(B)(i) § 117.8100(a)(1)(B)(ii) § 117.8100(a)(1)(C) § 117.8100(a)(2) [G]§ 117.8100(a)(3) § 117.8100(a)(4)	§ 117.145(a) § 117.145(f) § 117.145(f)(1) [G]§ 117.145(f)(2) § 117.145(f)(8) § 117.145(f)(9) § 117.8100(a)(5)(C)	§ 117.135(b) § 117.135(g) [G]§ 117.145(b) [G]§ 117.145(c) § 117.145(d) § 117.145(d)(1) § 117.145(d)(1)(B) § 117.145(d)(2) § 117.145(d)(3) § 117.145(d)(4) § 117.145(d)(5) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) § 117.8100(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)
							§ 117.8100(a)(5) § 117.8100(a)(5)(A) § 117.8100(a)(5)(B) [G]§ 117.8100(a)(5)(D) [G]§ 117.8100(a)(5)(E) § 117.8100(a)(6)		
P-POWB3	EU	6oDB-1	SO <sub>2</sub>	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
P-POWB3	EU	6oDB-1	PM	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
P-POWB3	EU	6oDB-1	PM (OPACITY)	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
P-POWB3	EU	6oDB-1	NO <sub>x</sub>	40 CFR Part 60, Subpart Db	§ 60.44b(a)(1)(i) § 60.44b(h) § 60.44b(i) § 60.46b(a)	Except as in §60.44b(k), (l), on/after §60.8 test, no facility combusting natural gas and distillate oil (low	§ 60.46b(c) § 60.46b(e) § 60.46b(e)(1) § 60.46b(e)(3)	[G]§ 60.48b(b) § 60.48b(c) [G]§ 60.49b(d) [G]§ 60.49b(g)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(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)
						heat release rate) shall discharge gases containing NOx in excess of 43 ng/J heat input.	§ 60.48b(b)(1) § 60.48b(c) § 60.48b(d) § 60.48b(e) [G]§ 60.48b(e)(2) § 60.48b(e)(3) § 60.48b(f)	§ 60.49b(o)	§ 60.49b(h) § 60.49b(i) § 60.49b(v) § 60.49b(w)
P-POWB3V	EP	R1111-1	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
P-REVB1	EP	R1151-1	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
P-REVB1	EU	R251-1	TRS	30 TAC Chapter 112, Sulfur Compounds	§ 112.51(b)(1)(A)	Recovery furnaces with old design (without membrane wall or welded wall construction or emission-control designed air systems) shall not exceed 20 ppm TRS, as H2S on a dry basis, corrected to 8% O2.	§ 112.51(c) § 112.55 [G]§ 112.57(a) [G]§ 112.57(b) [G]§ 112.57(c)	[G]§ 112.57(c)	§ 112.59
P-REVB1	EU	63MM-1	PM	40 CFR Part 63, Subpart MM	§ 63.862(a)(1)(i)(A) § 63.864(k)(1)	Each existing kraft or soda recovery furnace must have	§ 63.864(d) § 63.864(d)(3)	§ 63.864(d)(3) § 63.864(d)(4)	§ 63.867(a)(1) § 63.867(b)(3)

## 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)(1)(i) § 63.864(k)(2) § 63.864(k)(2)(i) § 63.864(k)(3)	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.	§ 63.864(d)(4) § 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)	§ 63.866(a) [G]§ 63.866(a)(2) § 63.866(b) § 63.866(c) § 63.866(c)(1) § 63.866(c)(3) § 63.866(c)(4)	§ 63.867(b)(3)(i) § 63.867(b)(3)(iv) § 63.867(c) § 63.867(c)(1) § 63.867(c)(2)
P-REVB1V	EP	R1111-1	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)	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
P-REVB2	EP	R1151-1	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
P-REVB2	EU	R251-1	TRS	30 TAC Chapter 112, Sulfur Compounds	§ 112.51(b)(1)(A)	Recovery furnaces with old design (without membrane wall or welded wall construction or emission-control designed air systems) shall not exceed 20 ppm TRS, as H <sub>2</sub> S on a dry basis, corrected to 8% O <sub>2</sub> .	§ 112.51(c) § 112.55 [G]§ 112.57(a) [G]§ 112.57(b) [G]§ 112.57(c)	[G]§ 112.57(c)	§ 112.59
P-REVB2	EU	63MM-1	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)	Each existing kraft or soda recovery furnace must have concentration of PM in the exhaust gases discharged to	§ 63.864(d) § 63.864(d)(3) § 63.864(d)(4) § 63.864(k)(1)	§ 63.864(d)(3) § 63.864(d)(4) § 63.866(a) [G]§ 63.866(a)(2)	§ 63.867(a)(1) § 63.867(b)(3) § 63.867(b)(3)(i) § 63.867(b)(3)(iv)

## 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)(i) § 63.864(k)(3)	the atmosphere be less than or equal to 0.10 g/dscm corrected to 8% oxygen.	§ 63.864(k)(1)(i) § 63.864(k)(2) § 63.864(k)(2)(i) § 63.864(k)(3) § 63.865 [G]§ 63.865(b)	§ 63.866(b) § 63.866(c) § 63.866(c)(1) § 63.866(c)(3) § 63.866(c)(4)	§ 63.867(c) § 63.867(c)(1) § 63.867(c)(2)
P-REVB2V	EP	R1111-1	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)	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
PRO-FCOND	PRO	63S-1	112(B) HAPS	40 CFR Part 63, Subpart S	§ 63.446(c)(3) § 63.446(d) § 63.446(d)(1) [G]§ 63.446(d)(2) § 63.446(e)(2) § 63.446(e)(4) § 63.450(b) § 63.450(c)	The pulping process condensates from equipment systems listed in paragraphs (b)(1) through (b)(5) of this section that in total contain a total HAP mass of 3.6 kilograms or more of total HAP per megagram (7.2 pounds per ton) of ODP for mills that do not perform bleaching or 5.5 kilograms or more of total HAP per megagram (11.1 pounds per ton) of ODP for mills that perform bleaching.	§ 63.453(a) § 63.453(i) § 63.453(j) § 63.453(j)(2) [G]§ 63.453(j)(3) § 63.453(l) [G]§ 63.453(l)(1) § 63.453(l)(2) § 63.453(l)(3) [G]§ 63.453(n) § 63.453(o) § 63.453(p) [G]§ 63.453(p)(1) [G]§ 63.453(p)(2) § 63.457(a) § 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) § 63.457(g) [G]§ 63.457(j) § 63.457(l)	§ 63.453(p) [G]§ 63.453(p)(1) [G]§ 63.453(p)(2) [G]§ 63.454(b) § 63.454(f)	[G]§ 63.453(n) § 63.453(o) § 63.455(a) [G]§ 63.455(b) § 63.455(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)
							§ 63.457(l)(2)		
PRO-HVLC1	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)(i) [G]§ 63.443(e) § 63.447 § 63.447(b) § 63.447(c) [G]§ 63.447(d) [G]§ 63.447(e) § 63.447(f) § 63.450(b) § 63.450(c)	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).	§ 63.447(c) § 63.453(a) § 63.453(m) [G]§ 63.453(n) § 63.457(a) § 63.457(c) [G]§ 63.457(c)(1) § 63.457(c)(2) [G]§ 63.457(c)(3) [G]§ 63.457(c)(5) [G]§ 63.457(c)(6) [G]§ 63.457(d) [G]§ 63.457(e) § 63.457(f) [G]§ 63.457(i)	§ 63.454(a) [G]§ 63.454(b) § 63.454(d)	[G]§ 63.447(g) § 63.447(h) § 63.455(a) [G]§ 63.455(b) § 63.455(d)
PRO-HVLC2	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)(i) [G]§ 63.443(e) § 63.450(b) § 63.450(c) § 63.450(d)(1) § 63.450(d)(2)	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]§ 63.453(k) [G]§ 63.457(d) [G]§ 63.457(e)	§ 63.454(a) [G]§ 63.454(b) § 63.454(e)	§ 63.455(a) [G]§ 63.455(b) § 63.455(d)
PRO-HVLC2	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) § 63.450(d)(2)	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]§ 63.453(k) [G]§ 63.457(d) [G]§ 63.457(e)	§ 63.454(a) [G]§ 63.454(b) § 63.454(e)	§ 63.455(a) [G]§ 63.455(b) § 63.455(d)
PRO-LVHC	PRO	63S-1	112(B) HAPS	40 CFR Part 63, Subpart S	§ 63.443(a) § 63.443(c)	Pulping systems using the kraft process subject to this	[G]§ 63.453(k) [G]§ 63.457(d)	§ 63.454(a) [G]§ 63.454(b)	§ 63.455(a) [G]§ 63.455(b)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.443(d)(4) § 63.443(d)(4)(i) [G]§ 63.443(e) § 63.450(b) § 63.450(c) § 63.450(d)(1) § 63.450(d)(2)	subpart shall control the HAP emissions from the following equipment systems according to §§63.440(c)-(d).	[G]§ 63.457(e)	§ 63.454(e)	§ 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) § 63.450(d)(2)	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]§ 63.453(k) [G]§ 63.457(d) [G]§ 63.457(e)	§ 63.454(a) [G]§ 63.454(b) § 63.454(e)	§ 63.455(a) [G]§ 63.455(b) § 63.455(d)
P-SC	EU	R5131-1	VOC	30 TAC Chapter 115, Water Separation	§ 115.137(a)(2) [G]§ 115.132(a)(4)	Any single or multiple compartment VOC water separator which separates materials having a true vapor pressure of VOC < .5 psia obtained from any equipment is exempt from §115.132(a).	[G]§ 115.135(a) § 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	§ 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	None
P-SCALEGEN	EU	63ZZZZ-1	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	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)
						ignition engines as applicable. No further requirements apply for such engines under this part.			
P-SLAK1	EP	R1111-1	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
P-SLAK1	EP	R5121-612	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
P-SSKIM	EU	R5131-1	VOC	30 TAC Chapter 115, Water Separation	§ 115.137(a)(2) [G]§ 115.132(a)(4)	Any single or multiple compartment VOC water separator which separates materials having a true vapor pressure of VOC < .5 psia obtained from any equipment is exempt from §115.132(a).	[G]§ 115.135(a) § 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	§ 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	None
P-TOLOAD	EU	R5211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
P-TURPLOAD	EU	R5211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.214(a)(1)(B) § 115.214(a)(1)(D) §	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					115.214(a)(1)(D)(i)	true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.			
P-UNLOAD	EU	R5211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
T-1DEFOAM	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-1SET	EU	R5131-1	VOC	30 TAC Chapter 115, Water Separation	§ 115.137(a)(2) [G]§ 115.132(a)(4)	Any single or multiple compartment VOC water separator which separates materials having a true vapor pressure of VOC < .5 psia obtained from any equipment is exempt from §115.132(a).	[G]§ 115.135(a) § 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	§ 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	None
T-1STOR	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

### 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)
T-2DEFOAM	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-2STOR	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-3GLS	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-4WLS	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-5WLS	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

## 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)
T-ABLOW	EU	R251-1	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 H <sub>2</sub> S on a dry basis, corrected to 8% O <sub>2</sub> 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
T-BBLOW	EU	R251-1	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 H <sub>2</sub> S on a dry basis, corrected to 8% O <sub>2</sub> 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
T-BLT1W	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-BLT2C	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-BLT3E	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	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)
						division.			
T-BRINE	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-CLAROIL	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-CWFLT	EU	60BB-1	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)
T-CWFLT	EU	60BB-2	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)
T-DIES	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	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)
						psia is exempt from the requirements of this division.			
T-DIESRAIL1	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-DIESRAIL2	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-EVSOAP	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-FULK1	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-FULK2	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	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)
						psia is exempt from the requirements of this division.			
T-GEARLUBE	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-GLE	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-HYDRAUL	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-LUBEOILM	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-LUBERAIL	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	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)
						psia is exempt from the requirements of this division.			
T-LWSLASH	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
TN-CWCCT	EU	60BB-1	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)
TN-CWCCT	EU	60BB-2	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)
T-PM1BWSR	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-PM2LUBE	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5)	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)
				VOCs		storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.		§ 115.118(a)(7)	
T-PMBULKOL	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-ROSIN	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-TURDE	EU	R5131-1	VOC	30 TAC Chapter 115, Water Separation	§ 115.137(a)(2) [G]§ 115.132(a)(4)	Any single or multiple compartment VOC water separator which separates materials having a true vapor pressure of VOC < .5 psia obtained from any equipment is exempt from §115.132(a).	[G]§ 115.135(a) § 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	§ 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	None
T-TURP	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-ULSD	EU	R5122-1	VOC	30 TAC Chapter	§ 115.111(a)(1)	Except as provided in §	[G]§ 115.117	§ 115.118(a)(1)	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)
				115, Storage of VOCs		115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.		§ 115.118(a)(5) § 115.118(a)(7)	
T-USED OIL	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-WOL RAIL1	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
T-WOL RAIL2	EU	R5122-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

**Additional Monitoring Requirements**

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## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-BARKB	
Control Device ID No.: C-33	Control Device Type: Wet Scrubber
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1111-01
Pollutant: PM	Main Standard: § 111.153(b)
<b>Monitoring Information</b>	
Indicator: [1] Pressure Drop, [2] Liquid Flow Rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours (rolling)	
Deviation Limit: [1] Minimum Pressure Drop = 7.13 in. H <sub>2</sub> O, [2] Minimum Liquid Flow Rate = 1,665 gpm	
<p>CAM Text: Pressure Drop: Measure and record the 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 one of the following:</p> <p>±1 inch water gauge (±250 Pa); or ±2% of span.</p> <p>For each reporting period (e.g., semi-annual), 5% monitor downtime is acceptable (i.e., not considered a deviation) for each parameter monitored, where downtime is calculated as the percent of the total source operating time the monitoring device was down during that reporting period.</p> <p>Liquid Flow Rate: Measure and record the 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 one of the following:</p> <p>±2% of span; or ±5% of design liquid flow rate.</p> <p>For each reporting period (e.g., semi-annual), 5% monitor downtime is acceptable (i.e., not considered a deviation) for each parameter monitored, where downtime is calculated as the percent of the total source operating time the monitoring device was down during that reporting period.</p>	

## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-BARKB	
Control Device ID No.: P-BARKB	Control Device Type: Steam Generating Unit (Boiler)/Process Heater (Design heat input is greater than or equal to 44MW)
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-1
Pollutant: VOC	Main Standard: § 115.121(a)(1)
<b>Monitoring Information</b>	
Indicator: Records demonstrating that the affected streams are introduced with the primary fuel or into the flame zone.	
Minimum Frequency: Continuous	
Averaging Period: N/A	
Deviation Limit: Failure to keep records demonstrating that the affected streams are introduced with the primary fuel or into the flame zone of the Bark Boiler.	
CAM Text: The owner or operator shall keep records demonstrating that the affected stream are introduced with the primary fuel or into the flame zone of the bark boiler.	

## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-BARKB	
Control Device ID No.: C-33	Control Device Type: Wet Scrubber
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart Db	SOP Index No.: 60DB-1
Pollutant: PM	Main Standard: § 60.43b(c)(1)
<b>Monitoring Information</b>	
Indicator: [1] Pressure Drop, [2] Liquid Flow Rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours (rolling)	
Deviation Limit: [1] Minimum Pressure Drop = 7.13 inches H <sub>2</sub> O, [2] Minimum Liquid Flow Rate = 1,665 gallons per minute	
<p>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 one of the following:</p> <p>±1 inch water gauge (±250 Pa); or ±2% of span.</p> <p>For each reporting period (e.g., semi-annual), 5% monitor downtime is acceptable (i.e., not considered a deviation) for each parameter monitored, where downtime is calculated as the percent of the total source operating time the monitoring device was down during that reporting period.</p> <p>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 one of the following:</p> <p>±2% of span; or ±5% of design liquid flow rate.</p> <p>For each reporting period (e.g., semi-annual), 5% monitor downtime is acceptable (i.e., not considered a deviation) for each parameter monitored, where downtime is calculated as the percent of the total source operating time the monitoring device was down during that reporting period.</p>	

## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-BARKB	
Control Device ID No.: C-33	Control Device Type: Wet Scrubber
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart Db	SOP Index No.: 60DB-1
Pollutant: PM (OPACITY)	Main Standard: § 60.43b(f)
<b>Monitoring Information</b>	
Indicator: [1] Pressure Drop, [2] Liquid Flow Rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours (rolling)	
Deviation Limit: [1] Minimum Pressure Drop = 7.13 inches H <sub>2</sub> O, [2] Minimum Liquid Flow Rate = 1,665 gallons per minute	
<p>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 one of the following:</p> <p>±1 inch water gauge (±250 Pa); or ±2% of span.</p> <p>For each reporting period (e.g., semi-annual), 5% monitor downtime is acceptable (i.e., not considered a deviation) for each parameter monitored, where downtime is calculated as the percent of the total source operating time the monitoring device was down during that reporting period.</p> <p>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 one of the following:</p> <p>±2% of span; or ±5% of design liquid flow rate.</p> <p>For each reporting period (e.g., semi-annual), 5% monitor downtime is acceptable (i.e., not considered a deviation) for each parameter monitored, where downtime is calculated as the percent of the total source operating time the monitoring device was down during that reporting period.</p>	

## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-DIS1	
Control Device ID No.: C-11	Control Device Type: Wet Scrubber
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-1
Pollutant: PM	Main Standard: § 111.151(a)
<b>Monitoring Information</b>	
Indicator: [1] Impactor Flow Rate, [2] Absorber Flow Rate	
Minimum Frequency: [1] Every 15 minutes, [2] Every 15 minutes	
Averaging Period: [1] 3 hours, [2] 3 hours	
Deviation Limit: [1] Minimum Impactor Flow Rate = 51.066 gpm [2] Minimum Absorber Fluid Flow Rate = 204.99 gpm	
<p>CAM Text: Impactor and Absorber Flow Rates: 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:</p> <p>± 0.5% error of the manufacturer's flow simulator calibration check.</p> <p>For each reporting period (e.g., semi-annual), 5% monitor downtime is acceptable (i.e., not considered a deviation) for each parameter monitored, where downtime is calculated as the percent of the total source operating time the monitoring device was down during that reporting period.</p>	

## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-DIS2	
Control Device ID No.: C-13	Control Device Type: Wet Scrubber
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-1
Pollutant: PM	Main Standard: § 111.151(a)
<b>Monitoring Information</b>	
Indicator: [1]Impactor Flow Rate, [2] Absorber Flow Rate	
Minimum Frequency: [1]Every 15 minutes, [2] Every 15 minutes	
Averaging Period: [1] 3 hours, [2] 3 hours	
Deviation Limit: [1] Minimum Impactor Flow Rate = 36.815 gpm, [2] Minimum Absorber Fluid Flow Rate = 202.01 gpm	
<p>CAM Text: Impactor and Absorber Flow Rates: 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:</p> <p>± 0.5% error of the manufacturer’s flow simulator calibration check.</p> <p>For each reporting period (e.g., semi-annual), 5% monitor downtime is acceptable (i.e., not considered a deviation) for each parameter monitored, where downtime is calculated as the percent of the total source operating time the monitoring device was down during that reporting period.</p>	

## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-LIMK	
Control Device ID No.: C-29	Control Device Type: Wet Scrubber
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1111-01
Pollutant: PM	Main Standard: § 111.151(a)
<b>Monitoring Information</b>	
Indicator: [1] Pressure Drop, [2] Liquid Flow Rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours (rolling)	
Deviation Limit: [1] Deviation Limit: Minimum Pressure Drop = 21.4 inches H <sub>2</sub> O, [2] Minimum Liquid Flow Rate = 559.2 gallons per minute	
<p>CAM Text: Pressure Drop: Measure and record the 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 one of the following:</p> <p>±1 inch water gauge (±250 Pa); or ±2% of span.</p> <p>For each reporting period (e.g., semi-annual), 5% monitor downtime is acceptable (i.e., not considered a deviation) for each parameter monitored, where downtime is calculated as the percent of the total source operating time the monitoring device was down during that reporting period.</p> <p>Liquid Flow Rate: Measure and record the 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 one of the following:</p> <p>±2% of span; or ±5% of design liquid flow rate.</p> <p>For each reporting period (e.g., semi-annual), 5% monitor downtime is acceptable (i.e., not considered a deviation) for each parameter monitored, where downtime is calculated</p>	

## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-LIMK	
Control Device ID No.: P-LIMK	Control Device Type: Other Control Device Type
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-1
Pollutant: VOC	Main Standard: § 115.121(a)(1)
<b>Monitoring Information</b>	
Indicator: Records demonstrating that the affected streams are introduced with the primary fuel or into the flame zone.	
Minimum Frequency: Continuous	
Averaging Period: N/A	
Deviation Limit: Failure to keep records demonstrating that the affected streams are introduced with the primary fuel or into the flame zone of the Lime Kiln.	
CAM Text: The owner or operator shall keep records demonstrating that the affected streams are introduced with the primary fuel or into the flame zone of the lime kiln.	

## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-REVB1	
Control Device ID No.: C-REVB1	Control Device Type: Wet or Dry Electrostatic Precipitator
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-1
Pollutant: PM	Main Standard: § 111.151(a)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: Six times per minute	
Averaging Period: Six minutes	
Deviation Limit: Maximum Opacity = 20%	
<p>CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13. For each reporting period (e.g., semi-annual), 5% monitor downtime is acceptable (i.e., not considered a deviation), where downtime is calculated as the percent of the total source operating time the monitoring device was down during that reporting period.</p>	

## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-REVB2	
Control Device ID No.: C-REVB2	Control Device Type: Wet or Dry Electrostatic Precipitator
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-1
Pollutant: PM	Main Standard: § 111.151(a)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: Six times per minute	
Averaging Period: Six minutes	
Deviation Limit: Maximum Opacity = 20%	
<p>CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13. For each reporting period (e.g., semi-annual), 5% monitor downtime is acceptable (i.e., not considered a deviation), where downtime is calculated as the percent of the total source operating time the monitoring device was down during that reporting period.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-BARKBV	
Control Device ID No.: C-33	Control Device Type: Wet Scrubber
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(C)
<b>Monitoring Information</b>	
Indicator: [1] Pressure Drop, [2] Liquid Flow Rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours (rolling)	
Deviation Limit: [1] Minimum Pressure Drop = 7.13 in. H <sub>2</sub> O, [2] Minimum Liquid Flow Rate = 1,665 gpm	
<p>Periodic Monitoring Text: Pressure Drop: Measure and record the 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 one of the following:</p> <p>±1 inch water gauge (±250 Pa); or ±2% of span.</p> <p>For each reporting period (e.g., semi-annual), 5% monitor downtime is acceptable (i.e., not considered a deviation) for each parameter monitored, where downtime is calculated as the percent of the total source operating time the monitoring device was down during that reporting period.</p> <p>Liquid Flow Rate: Measure and record the 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 one of the following:</p> <p>±2% of span; or ±5% of design liquid flow rate.</p> <p>For each reporting period (e.g., semi-annual), 5% monitor downtime is acceptable (i.e., not considered a deviation) for each parameter monitored, where downtime is calculated as the percent of the total source operating time the monitoring device was down during that reporting period.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-CTWR1	
Control Device ID No.: N/A	Control Device Type: N/A
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(A)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: Once per calendar quarter	
Averaging Period: Six-minutes	
Deviation Limit: Maximum Opacity = 30%	
<p>Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirements shall be reported as a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-DIS1	
Control Device ID No.: C-11	Control Device Type: Wet Scrubber
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(A)
<b>Monitoring Information</b>	
Indicator: [1] Impactor Flow Rate [2] Absorber Liquid Flow Rate	
Minimum Frequency: [1] once per week [2] once per week	
Averaging Period: n/a*	
Deviation Limit: [1] Minimum Impactor Flow Rate = 51.1 gpm [2] Minimum Absorber Fluid Flow Rate = 205.0 gpm	
<p>Periodic Monitoring Text: Measure and record the impactor and absorber fluid flow rates. The monitoring instrumentation shall be calibrated, maintained, 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.</p>	

\*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-DIS2	
Control Device ID No.: C-13	Control Device Type: Wet Scrubber
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(A)
<b>Monitoring Information</b>	
Indicator: [1] Impactor Flow Rate [2] Absorber Liquid Flow Rate	
Minimum Frequency: [1] once per week [2] once per week	
Averaging Period: n/a*	
Deviation Limit: [1] Minimum Impactor Flow Rate = 36.8 gpm [2] Minimum Absorber Fluid Flow Rate = 202.0 gpm	
<p>Periodic Monitoring Text: Measure and record the impactor and absorber fluid flow rates. The monitoring instrumentation shall be calibrated, maintained, 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.</p>	

\*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-LIMKV	
Control Device ID No.: C-29	Control Device Type: Wet Scrubber
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(A)
<b>Monitoring Information</b>	
Indicator: Pressure Drop	
Minimum Frequency: Once per week	
Averaging Period: n/a*	
Deviation Limit: Minimum Pressure Drop =21.4 in. H2O	
<p>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.</p>	

\*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-LIMKV	
Control Device ID No.: C-29	Control Device Type: Wet Scrubber
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(A)
<b>Monitoring Information</b>	
Indicator: Liquid Flow Rate	
Minimum Frequency: Once per week	
Averaging Period: n/a*	
Deviation Limit: Minimum Liquid Flow Rate = 559.2 gpm	
<p>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.</p>	

\*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-LIMS	
Control Device ID No.: C-24	Control Device Type: Wet Scrubber
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(A)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: Once per calendar quarter	
Averaging Period: Six-minutes	
Deviation Limit: Maximum Opacity = 30%	
<p>Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirements shall be reported as a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-POWB	
Control Device ID No.: N/A	Control Device Type: N/A
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(C)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: Once per calendar quarter	
Averaging Period: Six-minutes	
Deviation Limit: Maximum Opacity = 15%	
<p>Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirements shall be reported as a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-POWB3V	
Control Device ID No.: N/A	Control Device Type: N/A
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(C)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: Once per calendar quarter	
Averaging Period: Six-minutes	
Deviation Limit: Maximum Opacity = 15%	
<p>Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirements shall be reported as a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-SLAK1	
Control Device ID No.: C-26	Control Device Type: Wet Scrubber
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(A)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: Once per calendar quarter	
Averaging Period: Six-minutes	
Deviation Limit: Maximum Opacity = 30%	
<p>Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirements shall be reported as a deviation.</p>	

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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		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-TANK1	T-CWDT, T-FTCOMB, T-MWCPTN, T-MWCPTS, T-NEUTAT, T-FLTCLPM1, T-FLTCLPM2, T-PMDEFOM1, T-PMDEFOM2, T-PMDEFOM3, T-TOACDAID, T-TOSETAID, T-WCCDT	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).
P-BARKB	N/A	40 CFR Part 60, Subpart D	Modified after June 19, 1986 and is subject to requirements of NSPS Db.
P-BARKB	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).
P-BOILERV	N/A	30 TAC Chapter 115, Vent Gas Controls	Located in BPA, DFW, El Paso or HGA; is a combustion unit exhaust stream from a unit which is not being used as a control device for any vent gas stream subject to Chapter 115, Subchapter B, Division 2 and which originates from a non-combustion source
P-BSWA	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to September 24, 1976.
P-BSWB	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to September 24, 1976.
P-CLARENG	N/A	30 TAC Chapter 117, Subchapter B	Engine rating less than 300 hp.
P-CLARENG	N/A	40 CFR Part 60, Subpart IIII	Stationary CI ICE commenced construction/modification/reconstruction prior to July 11, 2005.

## Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
P-DIGA	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to September 24, 1976.
P-DIGB	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to September 24, 1976.
P-DIS1	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to September 24, 1976.
P-DIS2	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to September 24, 1976.
P-FIREPMP	N/A	30 TAC Chapter 117, Subchapter B	Engine rating less than 300 hp.
P-LIMK	N/A	30 TAC Chapter 117, Commercial	Unit is exempt because it is a lime kiln.
P-LIMK	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to September 24, 1976.
P-LKENG	N/A	30 TAC Chapter 117, Subchapter B	Engine rating less than 300 hp.
P-LKENG	N/A	40 CFR Part 60, Subpart JJJJ	Stationary SI ICE that commenced construction/modification/reconstruction prior to June 12, 2006.
P-MEEC	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to 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		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
P-MVDISPNS	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Motor vehicle fuel dispensing facilities, as defined in §101.1.
P-POWB	N/A	40 CFR Part 60, Subpart D	Construction or modification of the steam generating unit commenced before August 17, 1971.
P-POWB	N/A	40 CFR Part 60, Subpart Db	Construction, modification, or reconstruction commenced before June 19, 1984.
P-POWB	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).
P-POWB3	N/A	30 TAC Chapter 117, Commercial	A new unit placed into service after November 15, 1992 that is not qualified as a functionally identical replacement for an existing unit.
P-POWB3	N/A	40 CFR Part 60, Subpart D	Boiler was constructed after June 19, 1986 and is subject to the provisions of 40 CFR 60 Subpart Db.
P-POWB3	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).
P-POWB3V	N/A	30 TAC Chapter 115, Vent Gas Controls	Located in BPA, DFW, El Paso or HGA; is a combustion unit exhaust stream from a unit which is not being used as a control device for any vent gas stream subject to Chapter 115, Subchapter B, Division 2 and which originates from a non-combustion source
P-REVB1	N/A	30 TAC Chapter 117, Commercial	Pulping liquor recovery furnaces are exempt from Chapter 117, Subchapter B, Division 1.

## Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
P-REVB1	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to September 24, 1976.
P-REVB1	N/A	40 CFR Part 60, Subpart D	Construction or modification of the steam generating unit commenced before August 17, 1971.
P-REVB2	N/A	30 TAC Chapter 117, Commercial	Pulping liquor recovery furnaces are exempt from Chapter 117, Subchapter B, Division 1.
P-REVB2	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to September 24, 1976.
P-REVB2	N/A	40 CFR Part 60, Subpart D	Construction or modification of the steam generating unit commenced before August 17, 1971.
P-SCALEGEN	N/A	30 TAC Chapter 117, Subchapter B	Engine rating less than 300 hp.
P-SCALEGEN	N/A	40 CFR Part 60, Subpart JJJJ	Emergency engine with a maximum engine power greater than or equal to 25 hp and manufactured prior to January 1, 2009.
P-VBURNR	N/A	30 TAC Chapter 117, Subchapter B	Industrial, commercial or industrial boiler or process heater with a maximum rated capacity of less than 40 MMBtu/hr.
T-1DEFOAM	N/A	40 CFR Part 60, Subpart Kb	Tank construction, reconstruction, or modification commenced prior to July 23, 1984.

## Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
T-1STOR	N/A	40 CFR Part 60, Subpart Kb	Tank capacity greater than or equal to 151m <sup>3</sup> (39,625 gal) storing a liquid with a maximum true vapor pressure less than 3.5 kPa (0.5 psi).
T-1WBL	N/A	40 CFR Part 63, Subpart S	Unit is not listed as equipment subject to MACT S requirements (i.e., unit is not part of the pulping or bleaching systems).
T-2DEFOAM	N/A	40 CFR Part 60, Subpart Kb	Tank construction, reconstruction, or modification commenced prior to July 23, 1984.
T-2STOR	N/A	40 CFR Part 60, Subpart Kb	Tank construction, reconstruction, or modification commenced prior to July 23, 1984.
T-2WBL	N/A	40 CFR Part 63, Subpart S	Unit is not listed as equipment subject to MACT S requirements (i.e., unit is not part of the pulping or bleaching systems).
T-3GLS	N/A	40 CFR Part 60, Subpart Kb	Tank construction, reconstruction, or modification commenced prior to July 23, 1984.
T-4WLS	N/A	40 CFR Part 60, Subpart Kb	Tank construction, reconstruction, or modification commenced prior to July 23, 1984.
T-5WLS	N/A	40 CFR Part 60, Subpart Kb	Tank construction, reconstruction, or modification commenced prior to July 23, 1984.
T-ABLOW	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to 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		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
T-AFILT	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to September 24, 1976.
T-BBLOW	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to September 24, 1976.
T-BFILT	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to September 24, 1976.
T-BLT1W	N/A	40 CFR Part 60, Subpart Kb	Tank capacity greater than or equal to 151m <sup>3</sup> (39,625 gal) storing a liquid with a maximum true vapor pressure less than 3.5 kPa (0.5 psi).
T-BLT1W	N/A	40 CFR Part 63, Subpart S	Unit is not listed as equipment subject to MACT S requirements.
T-BLT2C	N/A	40 CFR Part 60, Subpart Kb	Tank capacity greater than or equal to 151m <sup>3</sup> (39,625 gal) storing a liquid with a maximum true vapor pressure less than 3.5 kPa (0.5 psi).
T-BLT2C	N/A	40 CFR Part 63, Subpart S	Unit is not listed as equipment subject to MACT S requirements.
T-BLT3E	N/A	40 CFR Part 60, Subpart Kb	Tank capacity greater than or equal to 151m <sup>3</sup> (39,625 gal) storing a liquid with a maximum true vapor pressure less than 3.5 kPa (0.5 psi).
T-BLT3E	N/A	40 CFR Part 63, Subpart S	Unit is not listed as equipment subject to MACT S requirements.

## Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
T-CCOND	N/A	40 CFR Part 60, Subpart BB	Is not defined as part of the MEES and is not an affected facility as defined in NSPS, BB 60.280(a).
T-CLAROIL	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).
T-COMBC	N/A	40 CFR Part 60, Subpart BB	Is not defined as part of the MEES and is not an affected facility as defined in NSPS, BB 60.280(a).
T-DIES	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).
T-DIESRAIL1	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).
T-DIESRAIL2	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).
T-FULK1	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).
T-FULK2	N/A	40 CFR Part 60, Subpart Kb	Tank capacity greater than or equal to 151m3 (39,625 gal) storing a liquid with a maximum true vapor pressure less than 3.5 kPa (0.5 psi).
T-GASOL	N/A	30 TAC Chapter 115, Storage of VOCs	Tank is located in BPA, DFW, El Paso or HGA, in a motor vehicle fuel dispensing service, and has a nominal capacity less than 25,000 gallons.
T-GASOL	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).
T-GASORAIL	N/A	30 TAC Chapter 115, Storage of VOCs	Tank is located in BPA, DFW, El Paso or HGA, in a motor vehicle fuel dispensing service, and has a nominal capacity less than 25,000 gallons.
T-GASORAIL	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).

## Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
T-GEARLUBE	N/A	40 CFR Part 60, Subpart Kb	Tank construction, reconstruction, or modification commenced prior to July 23, 1984.
T-HYDRAUL	N/A	40 CFR Part 60, Subpart Kb	Tank construction, reconstruction, or modification commenced prior to July 23, 1984.
T-LUBEOIL	N/A	30 TAC Chapter 115, Storage of VOCs	Tank has a capacity less than or equal to 1,000 gal.
T-LUBEOIL	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).
T-LUBEOILM	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).
T-LUBERAIL	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).
T-LWSLASH	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).
T-LWSLASHN	N/A	30 TAC Chapter 115, Storage of VOCs	Tank has a capacity less than or equal to 1,000 gal.
T-LWSLASHN	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).
T-LWSLASHS	N/A	30 TAC Chapter 115, Storage of VOCs	Tank has a capacity less than or equal to 1,000 gal.
T-LWSLASHS	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).
T-PM1BWSR	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 m3 (19,812 gal).
T-PM1CLOIL	N/A	30 TAC Chapter 115, Storage of VOCs	Tank has a capacity of less than or equal to 1,000 gal.

## Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
T-PM1CLOIL	N/A	40 CFR Part 60, Subpart Kb	Tank construction, reconstruction, or modification commenced prior to July 23, 1984.
T-PM2HYDR	N/A	30 TAC Chapter 115, Storage of VOCs	Tank has a capacity of less than or equal to 1,000 gal.
T-PM2HYDR	N/A	40 CFR Part 60, Subpart Kb	Tank construction, reconstruction, or modification commenced prior to July 23, 1984.
T-PM2LUBE	N/A	40 CFR Part 60, Subpart Kb	Tank construction, reconstruction, or modification commenced prior to July 23, 1984.
T-PMBULKOL	N/A	40 CFR Part 60, Subpart Kb	Tank construction, reconstruction, or modification commenced prior to July 23, 1984.
T-REJEC	N/A	40 CFR Part 60, Subpart BB	Commenced construction/modification prior to September 24, 1976.
T-ROSIN	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19, 812 gal).
T-SFDIESEL	N/A	30 TAC Chapter 115, Storage of VOCs	Tank has a capacity of less than or equal to 1,000 gal.
T-SFDIESEL	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 m3 (19,812 gal).
T-SWING	N/A	40 CFR Part 63, Subpart S	Unit is not listed as equipment subject to MACT S requirements (i.e., unit is not part of the pulping or bleaching systems).
T-TURBOIL	N/A	30 TAC Chapter 115, Storage of VOCs	Tank has a capacity less than or equal to 1,000 gal.

### Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
T-TURBOIL	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 m3 (19,812 gal).
T-TURP	N/A	40 CFR Part 60, Subpart Kb	Tank construction, reconstruction, or modification commenced prior to July 23, 1984.
T-TURP	N/A	40 CFR Part 63, Subpart S	Remote turpentine recovery storage tanks are not subject to MACT S (EPA Q&A, 9/22/99)
T-ULSD	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19, 812 gal).
T-USED OIL	N/A	40 CFR Part 60, Subpart Kb	Tank construction, reconstruction, or modification commenced prior to July 23, 1984.
T-WOLRAIL1	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).
T-WOLRAIL2	N/A	40 CFR Part 60, Subpart Kb	Tank capacity less than 75 m3 (19,812 gal).

**New Source Review Authorization References**

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**New Source Review Authorization References by Emission Unit..... 99**

## New Source Review Authorization References

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

<b>Prevention of Significant Deterioration (PSD) Permits</b>	
PSD Permit No.: PSDTX833M3	Issuance Date: 09/07/2015
<b>Nonattainment (NA) Permits</b>	
NA Permit No.: N60M2	Issuance Date: 09/07/2015
<b>Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.</b>	
Authorization No.: 9654A	Issuance Date: 09/07/2015
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 09/04/2000
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 09/04/2000
Number: 106.321	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: 106.475	Version No./Date: 09/04/2000
Number: 106.476	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001
Number: 106.532	Version No./Date: 09/04/2000
Number: 106.534	Version No./Date: 09/04/2000
Number: 46	Version No./Date: 05/08/1972

### 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
LF-FUG	LANDFILL FUGITIVES	106.534/09/04/2000
P-1CST	#1 CAUSTICIZER	9654A, N60M2, PSDTX833M3
P-2CST	#2 CAUSTICIZER	9654A, N60M2, PSDTX833M3
P-3CST	#3 CAUSTICIZER	9654A, N60M2, PSDTX833M3
P-4CST	#4 CAUSTICIZER	9654A, N60M2, PSDTX833M3
P-5CST	#5 CAUSTICIZER	9654A, N60M2, PSDTX833M3
P-BARKB	BARK BOILER	9654A, N60M2, PSDTX833M3
P-BARKBV	BARK BOILER VENT	9654A, N60M2, PSDTX833M3
P-BOILERV	P-PKGB AND P-POWB VENT (NOT A CONTROL DEVICE)	9654A, N60M2, PSDTX833M3
P-BSWA	BROWN STOCK WASHER A	9654A, N60M2, PSDTX833M3
P-BSWB	BROWN STOCK WASHER B	9654A, N60M2, PSDTX833M3
P-CLARENG	CLARIFIER DIESEL ENGINE	106.512/06/13/2001
P-CTWR1	COOLING TOWER NO. 1	9654A, N60M2, PSDTX833M3
P-CW	CHEMIWASHER	9654A, N60M2, PSDTX833M3
P-DIGA	A-KAMYR DIGESTER	9654A, N60M2, PSDTX833M3
P-DIGB	B-KAMYR DIGESTER	9654A, N60M2, PSDTX833M3
P-DIS1	DISSOLVING TANK #1	9654A, N60M2, PSDTX833M3
P-DIS2	DISSOLVING TANK #2	9654A, N60M2, PSDTX833M3

### 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
P-DRYB1MT	NO. 1 DRY BOTTOM MIX TANK	9654A, N60M2, PSDTX833M3
P-DRYB2MT	NO. 2 DRY BOTTOM MIX TANK	9654A, N60M2, PSDTX833M3
P-FIREPMP	FIREWATER PUMP DIESEL ENGINE	106.511/09/04/2000
P-GLDREGS	GREEN LIQUOR DREGS FILTER VACUUM PUMP	9654A, N60M2, PSDTX833M3
P-LIMK	LIME KILN	9654A, N60M2, PSDTX833M3
P-LIMKV	LIME KILN VENT	9654A, N60M2, PSDTX833M3
P-LIMS	LIME SILO	9654A, N60M2, PSDTX833M3
P-LIQLOAD	LIQUOR LOADING - ALL LIQUORS	9654A, N60M2, PSDTX833M3
P-LKENG	LIME KILN ENGINE	106.512/06/13/2001
P-LMRT	LIME MUD RECLAIM TANK	106.478/09/04/2000
P-LMWE	LIME MUD WASHER ECOFILTER	9654A, N60M2, PSDTX833M3
PM1-101	PM1 NO. 6 HOOD EXHAUST	9654A, N60M2, PSDTX833M3
PM1-102	PM1 NO. 5 HOOD EXHAUST	9654A, N60M2, PSDTX833M3
PM1-103	PM1 4TH SECTION HOOD EXHAUST	9654A, N60M2, PSDTX833M3
PM1-104	PM1 3RD SECTION HOOD EXHAUST	9654A, N60M2, PSDTX833M3
PM1-105	PM1 NO. 2 HOOD EXHAUST	9654A, N60M2, PSDTX833M3
PM1-106	PM1 1ST SECTION HOOD EXHAUST	9654A, N60M2, PSDTX833M3
PM1-107	PM1 FOURDRINIER FALSE CEILING FAN NO. 1	9654A, N60M2, PSDTX833M3

## 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
PM1-108	PM1 FOURDRINIER FALSE CEILING FAN NO. 2	9654A, N60M2, PSDTX833M3
PM1-109	PM1 FOURDRINIER FALSE CEILING FAN NO. 3	9654A, N60M2, PSDTX833M3
PM1-110	PM1 FOURDRINIER FALSE CEILING FAN NO. 4	9654A, N60M2, PSDTX833M3
PM1-111	PM1 FOURDRINIER FALSE CEILING FAN NO. 5	9654A, N60M2, PSDTX833M3
PM1-112	PM1 FOURDRINIER PIT EXHAUSTFAN	9654A, N60M2, PSDTX833M3
PM1-113	FOURDRINIER PIT EXHAUST FAN	9654A, N60M2, PSDTX833M3
PM1-114	PM1 BREAKER STACK FALSE CEILING EXHAUST	9654A, N60M2, PSDTX833M3
PM1-115	PM1 SAVE-ALL EXHAUST SOUTHEAST	9654A, N60M2, PSDTX833M3
PM1-116	PM1 SAVE-ALL EXHAUST SOUTHWEST	9654A, N60M2, PSDTX833M3
PM1-117	PM1 WET END SIDE CURTAIN EXHAUST	9654A, N60M2, PSDTX833M3
PM1-118	PM1 WET END CROSS MACHINE EXHAUST	9654A, N60M2, PSDTX833M3
PM1-119	PM1 UHLE BOX VACUUM VENT NO. 1	9654A, N60M2, PSDTX833M3
PM1-120	PM1 UHLE BOX VACUUM VENT NO. 2	9654A, N60M2, PSDTX833M3
PM1-121	PM1 VACUUM PUMP EXHAUST EAST	9654A, N60M2, PSDTX833M3
PM1-122	PM1 VACUUM PUMP EXHAUST WEST	9654A, N60M2, PSDTX833M3
PM1-123	PM1 ROOF EXHAUST NO. 1	9654A, N60M2, PSDTX833M3
PM1-124	PM1 ROOF EXHAUST NO. 2	9654A, N60M2, PSDTX833M3
PM1-125	PM1 ROOF EXHAUST NO. 3	9654A, N60M2, PSDTX833M3

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
PM1-126	PM1 ROOF EXHAUST NO. 4	9654A, N6oM2, PSDTX833M3
PM1-127	PM1 WALL PANEL EXHAUST (SOUTH)	9654A, N6oM2, PSDTX833M3
PM1-128	PM1 WINDER WALL EXHAUST	9654A, N6oM2, PSDTX833M3
PM1-129	PM1 POSITIVE VENTILATOR EXHAUST NO. 1	9654A, N6oM2, PSDTX833M3
PM1-130	PM1 POSITIVE VENTILATOR EXHAUST NO. 2	9654A, N6oM2, PSDTX833M3
PM1-131	ROOF EXHAUST	9654A, N6oM2, PSDTX833M3
PM1-167	PM1 FALSE CEILING EXHAUST FAN	9654A, N6oM2, PSDTX833M3
PM1-168	PM1 ROOF EXHAUST	9654A, N6oM2, PSDTX833M3
PM1-174	PM1 CLEANER EXHAUST SOUTHEAST	9654A, N6oM2, PSDTX833M3
PM1-175	PM1 CLEANER EXHAUST SOUTHWEST	9654A, N6oM2, PSDTX833M3
PM2-132	PM2 4TH SECTION HOOD EXHAUST	9654A, N6oM2, PSDTX833M3
PM2-133	PM2 3RD SECTION HOOD EXHAUST	9654A, N6oM2, PSDTX833M3
PM2-134	PM2 3RD SECTION HOOD EXHAUST NO.2	9654A, N6oM2, PSDTX833M3
PM2-135	PM2 2ND SECTION HOOD EXHAUST	9654A, N6oM2, PSDTX833M3
PM2-136	PM2 1ST SECTION HOOD EXHAUST	9654A, N6oM2, PSDTX833M3
PM2-137	PM2 FOURDRINIER FALSE CEILING EXHAUST NO. 1	9654A, N6oM2, PSDTX833M3
PM2-138	PM2 FOURDRINIER FALSE CEILING EXHAUST NO. 2	9654A, N6oM2, PSDTX833M3
PM2-139	PM2 FOURDRINIER FALSE CEILING EXHAUST NO. 3	9654A, N6oM2, PSDTX833M3

## New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
PM2-140	PM2 FOURDRINIER FALSE CEILING EXHAUST NO. 4	9654A, N60M2, PSDTX833M3
PM2-141	PM2 FOURDRINIER PIT EXHAUST NO. 1	9654A, N60M2, PSDTX833M3
PM2-142	PM2 FOURDRINIER PIT EXHAUST NO. 2	9654A, N60M2, PSDTX833M3
PM2-143	PM2 BELBOND EXHAUST	9654A, N60M2, PSDTX833M3
PM2-144	PM2 BREAKER STACK FALSE CEILING EXHAUST	9654A, N60M2, PSDTX833M3
PM2-145	PM2 EAST SAVEALL EXHAUST	9654A, N60M2, PSDTX833M3
PM2-146	PM2 WEST SAVEALL EXHAUST	9654A, N60M2, PSDTX833M3
PM2-147	PM2 VACUUM PUMP EXHAUST EAST	9654A, N60M2, PSDTX833M3
PM2-148	PM2 VACUUM PUMP EXHAUST WEST	9654A, N60M2, PSDTX833M3
PM2-149	PM2 EXHAUST FAN NO. 1	9654A, N60M2, PSDTX833M3
PM2-150	PM2 EXHAUST FAN NO. 2	9654A, N60M2, PSDTX833M3
PM2-151	PM2 EXHAUST FAN NO. 3	9654A, N60M2, PSDTX833M3
PM2-152	PM2 EXHAUST FAN NO. 4	9654A, N60M2, PSDTX833M3
PM2-153	PM2 EXHAUST FAN NO. 5	9654A, N60M2, PSDTX833M3
PM2-154	PM2 EXHAUST FAN NO. 6	9654A, N60M2, PSDTX833M3
PM2-155	PM2 EXHAUST FAN NORTH	9654A, N60M2, PSDTX833M3
PM2-156	PM2 3RD BAY ADDITION EAST FAN	9654A, N60M2, PSDTX833M3
PM2-157	PM2 3RD BAY ADDITION WEST FAN	9654A, N60M2, PSDTX833M3

## New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
PM2-158	PM2 WALL PANEL EXHAUST NORTH	9654A, N60M2, PSDTX833M3
PM2-169	PM2 ROOF EXHAUST	9654A, N60M2, PSDTX833M3
PM2-170	PM2 ROOF EXHAUST	9654A, N60M2, PSDTX833M3
PM2-171	PM2 ROOF EXHAUST	9654A, N60M2, PSDTX833M3
PM2-172	PM2 5TH SECTION HOOD EXHAUST FAN	9654A, N60M2, PSDTX833M3
P-MEEC	MULTI EFFECT EVAPORATOR COND.	9654A, N60M2, PSDTX833M3
P-MVDISPNS	GASOLINE MOTOR VEHICLE DISPENSING	106.412/09/04/2000
P-OREACT	POLYSULFIDE LIQUOR SYSTEM (ORANGE LIQUOR REACTOR)	9654A, N60M2, PSDTX833M3
P-POWB3	POWER BOILER NO. 3	9654A, N60M2, PSDTX833M3
P-POWB3V	POWER BOILER NO. 3 VENT (NOT A CONTROL DEVICE)	9654A, N60M2, PSDTX833M3
P-POWB	PFI BOILER	9654A, N60M2, PSDTX833M3
P-PRECOAT	LIME MUD PRECOAT FILTER	9654A, N60M2, PSDTX833M3
P-PVACEXE	PRECOAT VACUUM FILTER EAST	9654A, N60M2, PSDTX833M3
P-PVACEXW	PRECOAT VACUUM FILTER WEST	9654A, N60M2, PSDTX833M3
P-REVB1	RECOVERY FURNACE #1	9654A, N60M2, PSDTX833M3
P-REVB1V	RECOVERY FURNACE #1 VENT	9654A, N60M2, PSDTX833M3
P-REVB2	RECOVERY FURNACE #2	9654A, N60M2, PSDTX833M3
P-REVB2V	RECOVERY FURNACE #2 VENT	9654A, N60M2, PSDTX833M3

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
PRO-FCOND	PULPING PROCESS CONDENSATE COLLECTION SYSTEM	9654A, N60M2, PSDTX833M3
PRO-HVLC1	HIGH VOLUME LOW CONCENTRATION SYSTEM	9654A, N60M2, PSDTX833M3
PRO-HVLC2	HIGH VOLUME LOW CONCENTRATION SYSTEM	9654A, N60M2, PSDTX833M3
PRO-LVHC	LOW VOLUME HIGH CONCENTRATION SYSTEM	9654A, N60M2, PSDTX833M3, 106.261/09/04/2000, 106.262/09/04/2000
P-SCALEGEN	SCALE BACK-UP GENERATOR	106.511/09/04/2000
P-SC	SOAP CONCENTRATOR	106.472/09/04/2000
P-SF-159	SFS EXHAUST FAN SOUTH	9654A, N60M2, PSDTX833M3
P-SF-160	SFS EXHAUST FAN NORTH	9654A, N60M2, PSDTX833M3
P-SF-161	SFS EXHAUST FAN MIDDLE	9654A, N60M2, PSDTX833M3
P-SF-163	SFS ROOF EXHAUST EAST	9654A, N60M2, PSDTX833M3
P-SF-164	SFS ROOF EXHAUST CENTER NO.1	9654A, N60M2, PSDTX833M3
P-SF-165	SFS ROOF EXHAUST CENTER NO.2	9654A, N60M2, PSDTX833M3
P-SF-166	SFS ROOF EXHAUST WEST	9654A, N60M2, PSDTX833M3
P-SF-173	SFS EXHAUST FAN NORTH	9654A, N60M2, PSDTX833M3
P-SFREPULP	REPULPER HOOD EXHAUST	9654A, N60M2, PSDTX833M3
P-SLAK1	SLAKER #1	9654A, N60M2, PSDTX833M3
P-SPFVP	SPARE PRECOAT FILTER VACUUM PUMP	106.261/09/04/2000, 106.262/09/04/2000

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
P-SPPCFVP	SPARE PRECOAT FILTER VACUUM PUMP	106.261/09/04/2000, 106.262/09/04/2000
P-SSKIM	SOAP SKIMMER TANK	106.472/09/04/2000
P-TOLOAD	TALL OIL LOADING	106.472/09/04/2000
P-TURPLOAD	TURPENTINE LOADING	9654A, N60M2, PSDTX833M3
P-UNLOAD	MILL-WIDE OIL/DIESEL UNLOADING	106.472/09/04/2000
P-VBURNR	PROPANE VAPORIZER BURNER	9654A, N60M2, PSDTX833M3
P-WLE	WHITE LIQUOR ECOFILTER	9654A, N60M2, PSDTX833M3
P-WLSP	WHITE LIQUOR STANDPIPE	9654A, N60M2, PSDTX833M3
P-WWSP	WEAK WASH STANDPIPE	9654A, N60M2, PSDTX833M3
T-1DEFOAM	NO. 1 PM DEFOAMER WEST TANK	106.472/09/04/2000
T-1GLS	NO. 1 GREEN LIQUOR STORAGE TANK	9654A, N60M2, PSDTX833M3
T-1HBL	NO. 1 HEAVY BLACK LIQUOR STORAGE TANK	9654A, N60M2, PSDTX833M3
T-1PMBSBC	NO. 1 PM BS BLEND CHEST	9654A, N60M2, PSDTX833M3
T-1PMPRST	NO. 1 PAPER MACHINE BASE SHEET PRIMARY REJECTS SCR	9654A, N60M2, PSDTX833M3
T-1PMSRST	NO. 1 PAPER MACHINE BASE SHEET SECONDARY REJECTS S	9654A, N60M2, PSDTX833M3
T-1PMTSMC	NO. 1 PM TS MACHINE CHEST	9654A, N60M2, PSDTX833M3
T-1RFSCMT	NO. 1 RECOVERY FURNACE SALT CAKE MIX TANK	9654A, N60M2, PSDTX833M3
T-1SET	NO. 1 TALL OIL SETTLING TANK	9654A, N60M2, PSDTX833M3

## New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
T-1STOR	NO. 1 TALL OIL STORAGE TANK	9654A, N60M2, PSDTX833M3
T-1WBL	WEAK BLACK LIQUOR STORAGE TANK #1	9654A, N60M2, PSDTX833M3
T-1WLS	WHITE LIQUOR STORAGE TANK #1	9654A, N60M2, PSDTX833M3
T-2BROKES	NO. 2 PAPER MACHINE BROKE SURGE CHEST - BASE SHEET	9654A, N60M2, PSDTX833M3
T-2DEFOAM	NO. 2 PM DEFOAMER EAST TANK	106.472/09/04/2000
T-2GLC	NO. 2 GREEN LIQUOR CLARIFIER	9654A, N60M2, PSDTX833M3
T-2HBL	HEAVY BLACK LIQUOR STRAGE TANK #2	9654A, N60M2, PSDTX833M3
T-2PMBASE	NO. 2 PAPER MACHINE BASE MACHINE CHEST	9654A, N60M2, PSDTX833M3
T-2PMBPCR	NO. 2 PM BASE PRIMARY CLEANER REJECTSTANK	9654A, N60M2, PSDTX833M3
T-2PMBSNE	NO. 2 PM BASE SHEET NORTH EAST CHEST	9654A, N60M2, PSDTX833M3
T-2PMBSSB	NO. 2 PM BASE SHEET SEAL BOX CHEST	9654A, N60M2, PSDTX833M3
T-2PMSAVAL	NO. 2 PAPER MACHINE SAVEALL STOCK CHEST	9654A, N60M2, PSDTX833M3
T-2PMSFSBC	NO. 2 PM SAVEALL FILTRATE SEAL BOX CHEST	9654A, N60M2, PSDTX833M3
T-2PMTSMC	NO. 2 PM TOP SHEET MACHINE CHEST	9654A, N60M2, PSDTX833M3
T-2PMTSSP	NO. 2 PM TOP SHEET SEAL PIT	9654A, N60M2, PSDTX833M3
T-2PMUBST	NO. 2 PM UHLE BOX SEAL TANK	9654A, N60M2, PSDTX833M3
T-2PMWPC	NO. 2 PM WIRE PIT CHEST	9654A, N60M2, PSDTX833M3
T-2PMWTNC	NO. 2 PM WHITE TOP NORTH CHEST	9654A, N60M2, PSDTX833M3

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
T-2PMWTWW	NO. 2 PM WHITE TOP WHITE WATER NORTH	9654A, N60M2, PSDTX833M3
T-2PMWWC	NO. 2 PM WHITE WATER CHEST	9654A, N60M2, PSDTX833M3
T-2RFSCMT	NO. 2 RECOVERY FURNACE SALT CAKE MIX TANK	9654A, N60M2, PSDTX833M3
T-2STOR	NO. 2 TALL OIL STORAGE TANK	9654A, N60M2, PSDTX833M3
T-2WBL	WEAK BLACK LIQUOR STORAGE TANK #2	9654A, N60M2, PSDTX833M3
T-2WLS	WHITE LIQUOR STORAGE TANK #2 (WEST)	9654A, N60M2, PSDTX833M3
T-3GLC	NO. 3 GREEN LIQUOR CLARIFIER	9654A, N60M2, PSDTX833M3
T-3GLS	GREEN LIQUOR STORAGE TANK #3	9654A, N60M2, PSDTX833M3
T-4WLS	WHITE LIQUOR STORAGE TANK #4	9654A, N60M2, PSDTX833M3
T-5WLS	WHITE LIQUOR STORAGE TANK #5	9654A, N60M2, PSDTX833M3
T-ABLEN	PULP MILL A BLEND TANK	9654A, N60M2, PSDTX833M3
T-ABLOW	A BLOW TANK	9654A, N60M2, PSDTX833M3
T-AFILT	A FILTRATE TANK	9654A, N60M2, PSDTX833M3
T-AHD	A HIGH DENSITY TANK	9654A, N60M2, PSDTX833M3
T-BBFART	BARK BOILER FLY ASH RETENTION TANK W/MIXING JETS V	106.472/09/04/2000
T-BBLEN	PULP MILL B BLEND TANK	9654A, N60M2, PSDTX833M3
T-BBLOW	B BLOW TANK	9654A, N60M2, PSDTX833M3
T-BFILT	B FILTRATE TANK	9654A, N60M2, PSDTX833M3

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
T-BHD	B HIGH DENSITY TANK	9654A, N60M2, PSDTX833M3
T-BLT1W	BLACK LIQUOR STORAGE #1 (WEST)	9654A, N60M2, PSDTX833M3
T-BLT2C	BLACK LIQUOR STORAGE #2 (CENTER)	9654A, N60M2, PSDTX833M3
T-BLT3E	BLACK LIQUOR STORAGE #3 (EAST)	9654A, N60M2, PSDTX833M3
T-BOIL	BOILOUT TANK	9654A, N60M2, PSDTX833M3
T-BRINE	TALL OIL BRINE STORAGE TANK	9654A, N60M2, PSDTX833M3
T-BROKEST	BROKE SURGE TANK	9654A, N60M2, PSDTX833M3
T-CCOND	CLEAN CONDENSATE TANK	106.261/09/04/2000, 106.262/09/04/2000
T-CLAROIL	CLARIFIER OIL RECLAIM TANK	106.472/09/04/2000
T-CLOUDYWW	CLOUDY WHITE WATER STORAGE TANK	9654A, N60M2, PSDTX833M3
T-COMBC	COMBINED CONDENSATE TANK	9654A, N60M2, PSDTX833M3
T-CWDT	COOLING WATER DISPERSANT TANK	106.478/09/04/2000
T-CWFLT	CHEMIWASHER FILTRATE TANK	9654A, N60M2, PSDTX833M3
T-DIESRAIL1	DIESEL STORAGE TANK 1 (RAILROAD)	106.412/09/04/2000
T-DIESRAIL2	DIESEL STORAGE TANK 2 (RAILROAD)	106.412/09/04/2000
T-DIES	WOODYARD DIESEL STORAGE TANK	9654A, N60M2, PSDTX833M3
T-EFSWT	ECOFILTER SEAL WATER TANK	9654A, N60M2, PSDTX833M3
T-EVSOAP	EVAPORATOR SOAP STORAGE TANK	106.472/09/04/2000

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
T-EXCESSWW	EXCESS WHITE WATER STORAGE CHEST	9654A, N60M2, PSDTX833M3
T-FLTCLPM1	PM1 FELT CLEANER TANK	106.472/09/04/2000
T-FLTCLPM2	PM2 FELT CLEANER TANK	106.472/09/04/2000
T-FTCOMB	FEED TANK FOR COMBISORTER	106.478/09/04/2000
T-FULK1	FUEL OIL DAY TANK	9654A, N60M2, PSDTX833M3
T-FULK2	FUEL OIL STORAGE TANK	9654A, N60M2, PSDTX833M3
T-GASOL	GASOLINE TANK	9654A, N60M2, PSDTX833M3
T-GASORAIL	GASOLINE STORAGE TANK (RAILROAD)	106.412/09/04/2000
T-GEARLUBE	GEAR LUBE OIL STORAGE TANK	106.472/09/04/2000
T-GLE	GREEN LIQUOR EQUALIZATION TANK	9654A, N60M2, PSDTX833M3
T-HDBSC	HIGH DENSITY BROKE STORAGE CHEST	9654A, N60M2, PSDTX833M3
T-HYDRAUL	HYDRAULIC OIL TANK	106.472/09/04/2000
T-LKSC	LIME KILN SCRUBBER WATER CLARIFIER	9654A, N60M2, PSDTX833M3
T-LMD	LIME MUD DILUTION TANK	9654A, N60M2, PSDTX833M3
T-LUBEOIL	LUBE OIL RECLAIM TANK	106.472/09/04/2000
T-LUBEOILM	LUBE OIL MAIN TANK	106.472/09/04/2000
T-LUBERAIL	LUBE OIL TANK (SRN RAILROAD)	106.472/09/04/2000
T-LWSLASH	LONGWOOD SLASHER FEED HYDRAULIC OIL TANK	106.472/09/04/2000

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
T-LWSLASHN	LONGWOOD SLASHER SYSTEM HYDRAULIC OIL TANK (NORTH)	106.472/09/04/2000
T-LWSLASHS	LONGWOOD SLASHER SYSTEM HYDRAULIC OIL TANK (SOUTH)	106.472/09/04/2000
T-MDSTORSF	MD STORAGE CHEST - SECONDARY FIBER	9654A, N60M2, PSDTX833M3
T-MIX	SYNTHETIC WHITE LIQUOR MIX TANK	106.472/09/04/2000
T-MWCPTN	MILL WATER COAGULANT POLYMER (NORTH) TANK	106.478/09/04/2000
T-MWCPTS	MILL WATER COAGULANT POLYMER (SOUTH) TANK	106.478/09/04/2000
T-MWFT	LIME KILN AND CAUSTICIZING MUD WASH FEED TANK	106.472/09/04/2000
TN-CWCCT	CHEMI-WASHER NCG CONDENSATE COLLECTION TANK (NCG)	9654A, N60M2, PSDTX833M3
T-NEUTAT	NEUTRALIZING AMINE TANK	106.478/09/04/2000
TN-KCC	LVHC CONDENSATE COLLECTION	9654A, N60M2, PSDTX833M3
TN-KCS	HVLC CONDENSATE COLLECTION	9654A, N60M2, PSDTX833M3
T-NMUD	NORTH MUD TANK	9654A, N60M2, PSDTX833M3
T-NO1PMBDE	NO. 1 PM BROKE DRY END CHEST	9654A, N60M2, PSDTX833M3
T-NO1PMCP	NO. 1 PM COUCH PIT	9654A, N60M2, PSDTX833M3
T-NO1PMPPP	NO. 1 PM PRESS PULPER PIT	9654A, N60M2, PSDTX833M3
T-NO1PMRS	NO. 1 PM BASE SHEET PRIMARY REJECTS SCREEN TANK	9654A, N60M2, PSDTX833M3
T-NO1PMSP	NO. 1 PM SEAL PIT	9654A, N60M2, PSDTX833M3
T-NO1PMSRS	NO. 1 PM BASE SHEET SECONDARY REJECTS SCREEN TANK	9654A, N60M2, PSDTX833M3

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
T-NO1PMWP	NO. 1 PM WIRE PIT	9654A, N60M2, PSDTX833M3
T-NO1PMWWC	NO. 1 PM WHITE WATER CHEST	9654A, N60M2, PSDTX833M3
T-NO1PMWWS	NO. 1 PM WHITE WATER SOUTHEAST	9654A, N60M2, PSDTX833M3
T-NO2PMBDE	NO. 2 PM BROKE DRY ENDCHEST	9654A, N60M2, PSDTX833M3
T-NO2PMBS	NO. 2 PM BASE SHEET SECONDARY SCREEN REJECT TANK	9654A, N60M2, PSDTX833M3
T-NO2PMCP	NO. 2 PM COUCH PIT	9654A, N60M2, PSDTX833M3
T-NO2PMS	NO. 2 PM TOP SILO	9654A, N60M2, PSDTX833M3
T-NO2PMTCR	NO. 2 PM TOP CLEANER REJECT TANK	9654A, N60M2, PSDTX833M3
T-NO2PMTS	NO. 2 PM TOP SHEET BLEND CHEST	9654A, N60M2, PSDTX833M3
T-NO2PMTSS	NO. 2 PM TOP SHEET STUFFBOX	9654A, N60M2, PSDTX833M3
T-NO2PVRT	NO. 2 PRECOAT VACUUM RECEIVER TANK	106.478/09/04/2000
T-NO2TSCM	NO. 2 PM TOP SHEET CHEST MACHINE	9654A, N60M2, PSDTX833M3
T-NO2WTRC	NO. 2 PAPER MACHINE WHITE TOP REPULPER CHEST	9654A, N60M2, PSDTX833M3
T-PM1BWSR	#1 PAPER MACHINE BOWSER LUBE OIL TANK	106.472/09/04/2000
T-PM1CLOIL	#1 PAPER MACHINE CALENDAR LUBE OIL TANK	106.472/09/04/2000
T-PM2HYDR	#2 PAPER MACHINE HYDRAULIC OIL TANK	106.472/09/04/2000
T-PM2LUBE	#2 PAPER MACHINE LUBE OIL TANK	106.472/09/04/2000
T-PMBSLD	PM BASE SHEET LOW DENSITY TANK	9654A, N60M2, PSDTX833M3

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
T-PMBSSFSC	NO. 1 AND NO. 2 PAPER MACHINE BASE SHEET SECONDARY	9654A, N60M2, PSDTX833M3
T-PMBULKOL	PAPER MACHINE BULK OIL STORAGE TANK	106.472/09/04/2000
T-PMDEFOM1	PULP MILL DEFOAMER STORAGE TANK NO. 1	106.478/09/04/2000
T-PMDEFOM2	PULP MILL DEFOAMER STORAGE TANK NO. 2	106.472/09/04/2000
T-PMDEFOM3	PULP MILL DEFOAMER STORAGE TANK NO. 3	106.472/09/04/2000
T-PMLVST	NO.2PAPER MACHINE FOURDRINIER LOW VACUUM SEAL TANK	9654A, N60M2, PSDTX833M3
T-PMTSLD	PM TS LOW DENSITY CHEST	9654A, N60M2, PSDTX833M3
T-REJEC	PULP MILL REJECT TANK	9654A, N60M2, PSDTX833M3
T-ROSLN	NO. 1 & 2 PM EMULSIFIED ROSIN STORAGE TANK	106.472/09/04/2000
T-SFDIESEL	OCC DIESEL TANK	106.412/09/04/2000
T-SFR	SECONDARY FIBER REJECTS TANK	9654A, N60M2, PSDTX833M3
T-SFRTE	SECONDARY FIBER REJECTS TANK EAST	9654A, N60M2, PSDTX833M3
T-SFSC	SECONDARY FIBER SURGE CHEST	9654A, N60M2, PSDTX833M3
T-SFSST	SECONDARY FIBER SCREEN STOCK TANK	9654A, N60M2, PSDTX833M3
T-SFWWN	SECONDARY FIBER WHITE WATER CHEST NORTH	9654A, N60M2, PSDTX833M3
T-SMUD	SOUTH MUD TANK	9654A, N60M2, PSDTX833M3
T-SOAP	SOAP STORAGE TANK	106.472/09/04/2000
T-STRAINWW	STRAINED WHITE WATER CHEST STRAINERS	9654A, N60M2, PSDTX833M3

### 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
T-SWING	BLACK LIQUOR SWING TANK	9654A, N60M2, PSDTX833M3
T-TOACDAID	TALL OIL ACIDULATION AID TANK	106.478/09/04/2000
T-TOSETAID	TALL OIL SETTING AID STORAGE	106.472/09/04/2000
T-TURBOIL	TURBINE OIL CONDITIONER TANK	106.472/09/04/2000
T-TURDE	TURPENTINE DECANTER (NCG)	9654A, N60M2, PSDTX833M3
T-TURP	TURPENTINE STORAGE TANK	9654A, N60M2, PSDTX833M3
T-ULSD	ULTRA LOW DIESEL TANK	106.472/09/04/2000
T-USED OIL	USED OIL TANK	106.472/09/04/2000
T-WCCDT	JOY WELL AIR COMPRESSOR COOLER DISPERSANT TANK	106.478/09/04/2000
T-WKWASH	WEAK WASH STORAGE TANK	9654A, N60M2, PSDTX833M3
T-WLEF	WHITE LIQUOR ECOFILTER FEED TANK	9654A, N60M2, PSDTX833M3
T-WOLRAIL1	WASTE OIL STORAGE TANK 1 (SRN RAILROAD)	106.472/09/04/2000
T-WOLRAIL2	WASTE OIL STORAGE TANK 2 (SRN RAILROAD)	106.472/09/04/2000
T-WTHDSC	WHITE TOP HIGH DENSITY STORAGE CHEST	9654A, N60M2, PSDTX833M3

**Alternative Requirement**

**Alternative Requirement ..... 116**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6  
1445 ROSS AVENUE, SUITE 1200  
DALLAS, TX 75202-2733

MAY 11 2005

David P. Farris  
Environmental Manager  
Corrugated Packaging Division  
TIN, Inc. dba Temple-Inland  
1750 Inland Road  
Orange, Texas 77632

RE: COMS Alternate Monitoring Request for Bark Boiler

Dear Mr. Farris:

This is in response to a letter addressed to Mr. Jeff Greif of the Texas Department of Environmental Quality (TCEQ), dated November 30, 2004, which discusses an alternate monitoring request for the bark boiler at the Orange, Texas facility. The Environmental Protection Agency (EPA) Region 6 received a faxed copy of your letter on January 26, 2005, and is the appropriate agency to respond to your request.

According to the information that was provided, Temple-Inland operates a linerboard mill in Orange, TX. The mill recently received a PSD/NNSR air permit amendment for several changes, including upgrades to the bark boiler. Because of these upgrades, the bark boiler is now subject to NSPS Subpart Db. One requirement in Subpart Db, located at 40 CFR § 60.48(b), is that the boiler should have a Continuous Opacity Monitoring System (COMS). The bark boiler, however, has a wet venturi scrubber for particulate control. According to your letter, a COMS would not produce meaningful data from the stack emissions due to liquid water in the flue gas. Therefore, Temple-Inland is requesting a written exemption from the COMS requirement and approval to monitor scrubber pressure drop as an indicator of opacity/particulate emissions.

After subsequent discussions and additional information requests, it was determined that Temple-Inland would monitor the following parameters on the wet venturi scrubber during the bark boiler performance test:

1. Liquid supply flow rate
2. Pressure drop

In addition, the performance test, which is scheduled for the week of May 16, 2005, will be conducted at the maximum bark firing rate.

Internet Address (URL) • <http://www.epa.gov>

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In your letter, you also stated that this boiler has historically demonstrated compliance with the particulate emissions limit in the air permit through the use of a wet scrubber. The upgraded boiler features an improved, wet scrubber designed to accommodate increased bark burning that is authorized in the latest PSD/NNSR permit. Therefore, based upon the information that we have reviewed, we hereby grant provisional approval for the alternate monitoring plan that you have proposed for the bark boiler.

Upon completion of the performance test, we request that you forward the results to our office and the appropriate TCEQ office within 30 days. Provided that the alternative monitoring plan is shown to be adequate in demonstrating compliance with the opacity standard, EPA will then waive the COMS requirement under NSPS Subpart Db.

If you have any questions, please feel free to contact Ms. Michelle Kelly, of my staff, at (214) 665-7580.

Sincerely

A handwritten signature in black ink, appearing to read "Michael Michaud". To the right of the signature, the word "FOR" is written in a stylized, bold font.

Michael Michaud  
Acting Chief  
Air Toxic and Inspection  
Coordination Branch

cc: Jeffrey P. Greif, TCEQ  
Robert Mann, TCEQ



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

MAY 01 2006

David P. Farris  
Environmental Manager  
TIN, Inc. dba Temple-Inland  
Orange Linerboard Mill  
1750 Inland Road  
Orange, Texas 77632

RE: Results of Supplemental Emissions Performance  
And COMS Alternate Monitoring Testing of Bark Boiler

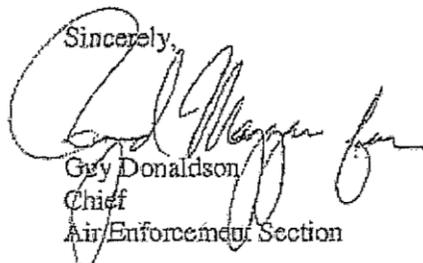
Dear Mr. Farris:

This is in response to your letter dated August 31, 2005, regarding the results of the supplemental emissions performance and COMS alternate monitoring testing of the bark boiler, conducted on July 19-20 and August 23, 2005, at the Temple-Inland Linerboard Mill in Orange, Texas. In the letter, you requested EPA to consider the results of the August test, which was conducted after boiler experts recommended adjustments to be made to the bark boiler to improve performance.

Based upon the information that you provided, it appears that even with the reduced scrubber differential pressure and liquid supply flow rate, particulate emissions were well below the permit limit. Therefore, you may use the new parametric data points (pressure drop of 7.13 inches and a liquid flow rate of 1665 gpm) in place of the earlier figures (10.3 inches of pressure drop and 2351 gpm of liquid flow rate) that were determined from the July 2005 performance test. Please make sure that the permitting agency is aware of these new parameters and that they are included in the facility's Title V permit.

If you have any questions, please do not hesitate to contact Michelle Kelly, of my staff, at (214) 665-7580.

Sincerely,



Guy Donaldson  
Chief  
Air/Enforcement Section

Internet Address (URL) • <http://www.epa.gov>

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cc: Mr. Stuart Mueller, Air Program  
TCEQ, Region 10  
Beaumont, TX

Mr. Richard Hyde  
Air Permits Division  
TCEQ  
Austin, TX



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6  
1445 ROSS AVENUE, SUITE 1200  
DALLAS, TX 75202-2733

SEP 16 2004

Mr. David P. Farris  
Environmental Manager  
Inland Paperboard and Packaging, Inc.  
1750 Inland Road  
Orange, Texas 77632

RE: Request for MACT II Surrogate Compliance Parameter for Smelt Dissolving Tanks  
Inland Paperboard and Packaging, Inc.  
Orange Linerboard Mill  
Orange, Orange County, Texas

Dear Mr. Farris:

This is in response to your letter dated April 26, 2004, in which you requested an alternate way to measure compliance with the Pulp and Paper MACT II rule for the smelt dissolving tank scrubbers at your Linerboard Mill in Orange, Texas.

The Orange Linerboard Mill is subject to 40 CFR 63, Subpart MM and has five sources (two recovery furnaces, two smelt dissolving tanks and one lime kiln) which are regulated under this subpart. Section 63.864(e)(10) of Subpart MM requires a facility to install, calibrate, maintain, and operate a continuous parameter monitoring system on the smelt dissolving tank scrubber to monitor and record the pressure drop across the scrubber and the scrubbing liquid flow rate. At the Orange Linerboard mill, Smelt Dissolving Tanks No. 1 and No. 2 are controlled by two AirPol Venturi Impactor Scrubbers, which were installed in 1987. In your letter, you state that both pressure drop and scrubbing liquid flow rate are currently monitored. However, you have observed wide fluctuations in the pressure drop readings and have not been able to ascertain the cause of these fluctuations. Therefore, you have some concern that pressure drop will not be a reliable indicator of scrubber performance and have requested to monitor the venturi scrubber impactor flow rate in lieu of the scrubber pressure drop.

You then went on to explain that the AirPol Venturi Impactor Scrubbers are somewhat different in design from the typical wet venturi scrubber. A conventional venturi scrubber would have a single venturi section to remove particulate. The AirPol scrubbers have two mechanisms

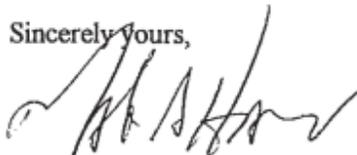
to remove both particulate and total reduced sulfur (TRS) emissions. The impactor section has a fixed-throat venturi, and the impactor flow rate represents that amount of scrubbing liquid sprayed into the throat from above the venturi section. The absorber section is essentially a packed column, containing plastic packing pieces arranged in a specific pattern, in order to expose the flue gas to the greatest surface area possible before exiting the stack. Although originally designed for the removal of sulfur compounds, this section also coincidentally removes the particulate matter, which is entrained on the packing material. The absorber flow represents the recirculation flow of scrubbing liquid through the packed column.

In your letter, you further state that since these two flows are independent of each other, and each clearly provides particulate removal, they can be considered independent indications of compliance. According to an AirPol scrubber technical representative, impactor flow rate should be a very reliable indicator of particulate removal and should also be correlated with pressure drop. Therefore, Inland proposes to use both of these flows (impactor flow and absorber flow) as continuous measurement of particulate removal, rather than the published measurements of differential pressure and total recirculation flow

As required by § 63.864(j), operating ranges for the scrubber absorber and impactor flow rates have been established during sources tests. According to the source test summaries that you provided, particulate emissions are well below the new MACT II standard of 0.2 lbs PM/ton of Black Liquor Solids (BLS) for the smelt dissolving tanks. In addition, you stated that during the recent tests, you even operated the smelt dissolving tank scrubbers at lower than typical flow rates, and the results still showed that both tanks had emissions less than half the MACT II particulate limit.

We have recently discussed your proposal with Vincent Meiller of the Texas Commission on Environmental Quality (TCEQ), who had also reviewed your request. We are in agreement with your proposal and therefore, we approve your request for alternate monitoring parameters to measure compliance with the particulate emission standard in Part 63, Subpart MM for your smelt dissolving tank scrubbers. If you have any questions regarding this approval letter, please contact Michelle Kelly, of my staff at (214) 665-7580.

Sincerely yours,



Mark Hansen  
Acting Chief  
Air Toxic and Inspection  
Coordination Branch

cc: Vincent Meiller, TCEQ

Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Zak Covar, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



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

October 24, 2014

MS ANITRA COLLINS  
MILL MANAGER  
INTERNATIONAL PAPER COMPANY  
1750 INLAND ROAD  
ORANGE, TX 77632-0590

Re: Title 40 Code of Federal Regulations Part 63, Subpart DDDDD Compliance Extension  
Title V Operating Permit Number: O1408  
New Source Review Permit Numbers: 9654A, N60M2, and PSDTX 833M3  
Renewal Date: April 15, 2023  
International Paper Company  
Kraft Pulp And Paper Mill  
Orange, Orange County  
Regulated Entity Number: RN100214428  
Customer Reference Number: CN601047830  
Account Number: OC-0019-C

RECEIVED  
OCT 27 2014  
TCEQ  
CENTRAL FILE ROOM

Dear Ms. Collins:

This is in response to your letter received August 11, 2014, requesting an extension of one year to enable you to comply with the requirements in Title 40 Code of Federal Regulations (40 CFR) Part 63, Subpart DDDDD for your Bark Boiler (Emission Point Number [EPN] 2), No. 1 PFI Boiler (EPN 2A), and Power Boiler No. 3 (EPN 99). In your letter, you indicated that the requested one-year extension is necessary to enable your facility to develop the correct compliance approach and develop the monitoring system for the affected unit(s) based on the requirements and standards of the Boiler MACT rule. Based on the information provided, you are hereby granted a one-year extension from January 31, 2016 to January 31, 2017 to comply with the requirements in 40 CFR Part 63, Subpart DDDDD.

You are reminded that these facilities must be in compliance with all rules and regulations of the Texas Commission on Environmental Quality (TCEQ) and of the U.S. Environmental Protection Agency at all times.

In addition, item numbers 1 through 4 below are conditions of the compliance extension approval.

**Affected Facilities**

1. The Bark Boiler (Emission Point Number [EPN] 2), No. 1 PFI Boiler (EPN 2A), and Power Boiler No. 3 (EPN 99) are the sources affected by this extension. The extension request applies to all emission limits, work practices, standards, initial performance testing, site-specific monitoring plans, record keeping and reporting and all other requirements specified by 40 CFR

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Ms. Anitra Collins  
Page 2  
October 24, 2014

Re: Permit Numbers: 9654A, N60M2, and PSDTX 833M3

Part 63, Subpart DDDDD as referenced in 30 TAC Chapter 113.1130.

**Support for Compliance Schedule**

2. International Paper will propose an alternate compliance schedule based upon receiving a one-year extension. The compliance schedule takes into consideration the construction schedule to install additional pollution controls on EPN 2, EPN 2A, and EPN 99.

**Notification and Other Requirements**

3. International Paper shall submit a notification to the TCEQ and the U.S. Environmental Protection Agency (EPA) Region 6, postmarked within 30 days of the date compliance was achieved, specifying the new compliance date and detailing the affected site and equipment. All monitoring, performance testing, recordkeeping, and reporting required by the applicable standards in Subpart DDDDD must begin on the new compliance date, or where time frames in the standards are established from the compliance date, must be based on the new compliance date.

The notification required in this condition should be directed to:

Air Section Manager  
TCEQ Region 10  
3870 Eastex Fwy  
Beaumont, Texas 77703-1830

With Copies To:

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

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

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

Ms. Anitra Collins  
Page 3  
October 24, 2014

Re: Permit Numbers: 9654A, N60M2, and PSDTX 833M3

Pursuant to 40 CFR § 63.6(i)(4)(i)(A), you are required to apply for a revision of the affected source's Title V permit (Permit Number O1408) to incorporate the conditions of this compliance extension.

These changes have been reviewed and the permit file has been updated. Please attach this letter to your permit.

The TCEQ appreciates your attention to the changing applicable rule requirements. If you need further information or have any questions, please contact Mr. Patrick Agumadu, P.E. at (512) 239-1271 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

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

Sincerely,



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

MPW/pna

Enclosure

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

Project Number: 217379

**Appendix A**

**Acronym List .....126**

## Acronym List

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

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

**Appendix B**

**Major NSR Summary Table..... 128**

### Major NSR Summary Table

Permit Number: 9654A, PSDTX833M3, and N60M2		Issuance Date: 09/07/2015					
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
1A*	No. 1 Recovery Furnace ESP Stack	VOC(6)	19.60	85.84	11, 12, 28, 29, 30, 32, 45	11, 12, 28, 29, 30, 32, 45, 52	11, 30, 42, 43, 47, 49, 53
		NO <sub>x</sub>	88.71	337.53			
		SO <sub>2</sub>	408.58	1566.62			
		PM(7)	59.62	261.15			
		PM <sub>10</sub> (8)	43.03	188.46			
		PM <sub>2.5</sub> (8)	39.42	172.68			
		CO	266.61	1167.76			
		TRS(6)	16.78	73.49			
		HAPS	19.23	82.88			
		H <sub>2</sub> SO <sub>4</sub>	0.67	2.93			
1B*	No. 2 Recovery Furnace ESP Stack	VOC(6)	19.60	85.84	11, 12, 28, 29, 30, 32, 45	11, 12, 28, 29, 30, 32, 45, 52	11, 30, 42, 43, 47, 49, 53
		NO <sub>x</sub>	88.71	337.53			
		SO <sub>2</sub>	408.58	1566.62			
		PM(7)	59.62	261.15			
		PM <sub>10</sub> (8)	43.03	188.46			
		PM <sub>2.5</sub> (8)	39.42	172.68			
		CO	266.61	1167.76			
		TRS(6)	16.78	73.49			
		HAPS	19.23	82.88			
		H <sub>2</sub> SO <sub>4</sub>	0.67	2.93			

### Major NSR Summary Table

Permit Number: 9654A, PSDTX833M3, and N60M2		Issuance Date: 09/07/2015					
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
2**	Bark Boiler Scrubber Stack	VOC(6)	11.15	41.70	9, 10, 26, 28, 30, 33, 34, 36, 37, 38, 39, 45	3, 9, 10, 23, 25, 26, 28, 30, 31, 33, 34, 36, 37, 38, 39, 45, 52	9, 10, 23, 30, 42, 43, 47, 49, 53
		NO <sub>x</sub>	108.62	406.12			
		SO <sub>2</sub>	7.44	32.22			
		PM(7)	55.76	208.49			
		PM <sub>10</sub> (9)	55.76	208.49			
		PM <sub>2.5</sub> (9)	55.76	208.49			
		CO	262.40	981.12			
		TRS(6)	0.06	0.23			
		H <sub>2</sub> SO <sub>4</sub>	0.53	1.93			
		NH <sub>3</sub>	16.19	70.93			
2A	No. 1 PFI Boiler Stack	VOC(6)	1.63	7.13	13, 28, 33, 45	13, 28, 31, 33, 45, 48, 52	13, 42, 43, 47, 49, 53
		NO <sub>x</sub>	45.30	198.41			
		SO <sub>2</sub>	0.79	0.93			
		PM	2.25	10.06			
		PM <sub>10</sub>	2.25	10.06			
		PM <sub>2.5</sub>	2.25	10.06			
		CO	70.00	306.60			

### Major NSR Summary Table

Permit Number: 9654A, PSDTX833M3, and N60M2		Issuance Date: 09/07/2015					
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
3#	No. 1 Dissolving Tank Scrubber Stack	VOC(6)	0.83	3.64	19, 21, 34, 36, 37, 38, 39	19, 34, 36, 37, 38, 39	53
		NO <sub>x</sub>	1.15	5.06			
		SO <sub>2</sub>	0.29	1.26			
		PM(7)	11.54	50.55			
		PM <sub>10</sub> (9)	10.36	45.40			
		PM <sub>2.5</sub> (9)	10.36	45.40			
		CO	0.46	2.02			
		TRS(6)	0.35	1.52			
4#	No. 2 Dissolving Tank Scrubber Stack	VOC(6)	0.83	3.64	19, 21, 34, 36, 37, 38, 39	19, 34, 36, 37, 38, 39	53
		NO <sub>x</sub>	1.15	5.06			
		SO <sub>2</sub>	0.29	1.26			
		PM(7)	11.54	50.55			
		PM <sub>10</sub> (9)	10.36	45.40			
		PM <sub>2.5</sub> (9)	10.36	45.40			
		CO	0.46	2.02			
		TRS(6)	0.35	1.52			
9	Lime Silo Scrubber Stack	PM	0.53	0.68			
		PM <sub>10</sub>	0.53	0.68			
		PM <sub>2.5</sub>	0.53	0.68			

### Major NSR Summary Table

Permit Number: 9654A, PSDTX833M3, and N60M2		Issuance Date: 09/07/2015					
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
10	No. 1 Slaker Scrubber Stack <sup>A1</sup>	VOC(6)	0.01	0.01			
		PM(7)	0.34	1.49			
		PM <sub>10</sub> (9)	0.34	1.49			
		PM <sub>2.5</sub> (9)	0.34	1.49			
		TRS(6)	0.01	0.01			
		NH <sub>3</sub>	7.53	12.19			
11****	Lime Kiln Scrubber Stack	VOC(6)	1.01	3.36	13, 23, 28, 29, 30, 31, 32, 34, 36, 37, 38, 39, 45	13, 23, 28, 29, 30, 32, 34, 36, 37, 38, 39, 45, 52	13, 30, 42, 43, 47, 49, 53
		NO <sub>x</sub>	43.09	147.77			
		SO <sub>2</sub>	7.00	24.24			
		PM(7)	31.58	104.78			
		PM <sub>10</sub> (9)	27.28	90.53			
		PM <sub>2.5</sub> (9)	27.28	90.53			
		CO	2.99	9.92			
		TRS(6)	6.11	20.28			
13	No. 2 Slaker Scrubber Stack <sup>A1</sup>	VOC(6)	0.01	0.01			
		PM(7)	0.34	1.49			
		PM <sub>10</sub> (9)	0.34	1.49			
		PM <sub>2.5</sub> (9)	0.34	1.49			
		TRS(6)	0.01	0.01			
		NH <sub>3</sub>	7.35	12.19			
16/17	Brown Stock Washers A and B <sup>B1</sup>	VOC(6)	19.66	7.86	18, 28, 45	18, 28, 45	42, 43, 47, 49
		TRS(6)	0.39	0.16			
27	Brine Storage Tank	VOC(6)	<0.01	<0.01			
		TRS(6)	<0.01	<0.01			
30	No. 1 Tall Oil Storage	VOC(6)	0.21	0.05			

### Major NSR Summary Table

Permit Number: 9654A, PSDTX833M3, and N60M2		Issuance Date: 09/07/2015			Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)				
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
	Tank <sup>A2</sup>	TRS(6)	0.02	0.01			
31	No. 2 Tall Oil Storage Tank <sup>A2</sup>	VOC(6)	0.21	0.05			
		TRS(6)	0.02	0.01			
32	Turpentine Storage Tank <sup>B2</sup>	VOC(6)	0.03	0.12			
36	No. 5 White Liquor Tank Vent <sup>A3</sup>	VOC(6)	0.25	1.10			
		TRS(6)	0.59	2.60			
39##	South Mud Tank	---	---	---			
40##	North Mud Tank	---	---	---			
41	No. 3 Green Liquor Clarifier	VOC(6)	<0.01	0.01			
		TRS(6)	0.02	0.06			
43##	Weak Wash Storage Tank	---	---	---			
44##	Scrubber Water Clarifier	---	---	---			
45	No. 1 White Liquor Storage Tank <sup>A3</sup>	VOC(6)	0.25	1.10			
		TRS(6)	0.59	2.60			
46	No. 2 White Liquor Storage Tank <sup>A3</sup>	VOC(6)	0.25	1.10			
		TRS(6)	0.59	2.60			
47	No. 1 Green Liquor Storage Tank <sup>A5</sup>	VOC(6)	0.02	0.08			
		TRS(6)	0.09	0.40			
49	No. 2 Green Liquor Clarifier	VOC(6)	<0.01	0.01	28, 45	28, 45	42, 43, 47, 49
		TRS(6)	0.02	0.06			
50	Green Liquor Equalization Tank	VOC(6)	<0.01	<0.01			
		TRS(6)	<0.01	<0.01			
51	No. 3 Green Liquor	VOC(6)	0.02	0.08			

### Major NSR Summary Table

Permit Number: 9654A, PSDTX833M3, and N60M2		Issuance Date: 09/07/2015			Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)		Spec. Cond.	Spec. Cond.	Spec. Cond.
			lb/hr	TPY (4)			
	Storage Tank <sup>A5</sup>	TRS(6)	0.09	0.40			
56	"A" Blend Tank <sup>A4,B3</sup>	VOC(6)	0.08	0.28			
		TRS(6)	0.01	0.03			
57	"B" Blend Tank <sup>A4,B3</sup>	VOC(6)	0.03	0.12			
		TRS(6)	<0.01	0.01			
58	Reject Tank <sup>B3</sup>	VOC(6)	0.10	0.11	13	13, 52	13
		TRS(6)	<0.01	<0.01			
61	"A" High Density Storage Tank <sup>A6</sup>	VOC(6)	0.33	1.43			
		TRS(6)	0.21	0.93			
62	"B" High Density Storage Tank <sup>A6</sup>	VOC(6)	0.33	1.43			
		TRS(6)	0.21	0.93			
63	No. 1 Weak Black Liquor Storage Tank	VOC(6)	0.35	1.55			
		TRS(6)	0.10	0.44			
64	No. 2 Weak Black Liquor Storage Tank	VOC(6)	0.35	1.55			
		TRS(6)	0.10	0.44			
65	Black Liquor Swing Tank	VOC(6)	0.35	1.55			
		TRS(6)	0.24	1.04			
66	No. 1 Heavy Black Liquor Storage Tank	VOC(6)	0.04	0.16			
		TRS(6)	0.17	0.74			
67	No. 2 Heavy Black Liquor Storage Tank	VOC(6)	0.04	0.16			
		TRS(6)	0.17	0.74			
68	Boilout Tank	VOC(6)	0.35	1.55			
		TRS(6)	0.24	1.03			
72	Gasoline Tank	VOC	---	0.30			

### Major NSR Summary Table

Permit Number: 9654A, PSDTX833M3, and N60M2		Issuance Date: 09/07/2015					
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
80	Wood Yard (5)	PM	7.17	16.33			
		PM <sub>10</sub>	2.89	6.69			
		PM <sub>2.5</sub>	<0.01	0.02			
81	Truck Traffic Fugitives (5)	PM	---	123.69			
		PM <sub>10</sub>	---	34.37			
		PM <sub>2.5</sub>	---	3.44			
88	No. 1 Causticizer	TRS(6)	1.30	4.31			
		NH <sub>3</sub>	4.47	14.82			
89	No. 2 Causticizer	TRS(6)	1.30	4.31			
		NH <sub>3</sub>	4.47	14.82			
90	No. 3 Causticizer	TRS(6)	1.30	4.31			
		NH <sub>3</sub>	4.47	14.82			
91	No. 4 Causticizer	TRS(6)	1.30	4.31			
		NH <sub>3</sub>	4.47	14.82			
92	No. 5 Causticizer	TRS(6)	1.30	4.31			
		NH <sub>3</sub>	4.47	14.82			
93 - 98	Wastewater Collection and Treatment (5)	VOC(6)	26.45	96.54	13	13, 52	13
		TRS(6)	3.64	13.30			
99**	Power Boiler No. 3 Stack	VOC(10)	2.54	9.95	9, 12, 13, 28, 30, 33, 34, 35, 45	9,12, 13, 28, 30, 31, 33, 34, 35, 45, 48, 52	9, 12, 13, 22, 30, 42, 43, 47, 49, 53
		NO <sub>x</sub>	21.00	91.98			
		SO <sub>2</sub>	1.59	1.44			
		PM	3.13	13.71			
		PM <sub>10</sub>	3.13	13.71			
		PM <sub>2.5</sub>	3.13	13.71			
		CO	37.80	165.56			

### Major NSR Summary Table

Permit Number: 9654A, PSDTX833M3, and N60M2		Issuance Date: 09/07/2015			Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)				
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
100	Chemi-Washer (5) <sup>B5</sup>	VOC(6)	0.01	0.04	8, 9	8, 9	8, 9
		TRS(6)	<0.01	0.02			
101 – 130, 132 - 158 167 - 172, 174 – 175 (11)	Nos. 1 & 2 Linerboard Machines <sup>B5</sup>	VOC(6)	27.66	88.84			
		TRS(6)	0.42	1.55			
159 – 166, 173 (12)	Secondary Fiber System	VOC(6)	0.34	1.24			
192##	Lime Kiln Precoat Filter	---	---	---			
193##	Precoat Mud Filter Vacuum Pump West	---	---	---			
194##	Precoat Mud Filter Vacuum Pump East	---	---	---			
205	No. 4 White Liquor Storage Tank <sup>A3</sup>	VOC(6)	0.25	1.10			
		TRS(6)	0.59	2.60			
210	West Black Liquor Storage Tank	VOC(6)	0.35	1.55			
		TRS(6)	0.24	1.03			
211	Center Black Liquor Storage Tank	VOC(6)	0.35	1.55			
		TRS(6)	0.24	1.03			
212	East Black Liquor Storage Tank	VOC(6)	0.35	1.55			
		TRS(6)	0.24	1.03			
213##	Eco-Filter White Liquor Feed tank	---	---	---			
214##	White Liquor Eco-Filter	---	---	---			
215##	Eco-Filter White Liquor Standpipe	---	---	---			

### Major NSR Summary Table

Permit Number: 9654A, PSDTX833M3, and N60M2		Issuance Date: 09/07/2015					
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
216##	Eco-Filter Lime Mud Dilution Tank	---	---	---			
217##	Eco-Filter Mud Washer	---	---	---			
218##	Eco-Filter Weak Wash Standpipe	---	---	---			
221	No. 2 Dry Bottom Mix Tank	VOC(6)	0.46	2.00			
		SO <sub>2</sub>	0.07	0.32			
		TRS(6)	0.61	2.68			
222	No. 1 Dry Bottom Mix Tank	VOC(6)	0.46	2.00			
		SO <sub>2</sub>	0.07	0.32			
		TRS(6)	0.61	2.68			
224	Lime Mud Reclaim System (5)	PM	0.02	0.05			
		PM <sub>10</sub>	0.01	0.03			
		PM <sub>2.5</sub>	<0.01	<0.01			
225	No. 2 Fuel Oil Tank	VOC	----	0.01			
232##	Green Liquor Dregs Filter and Vacuum Pump	---	---	---	13	13, 52	13
235	Liquor Loading (5)	VOC(6)	1.04	3.64	13	13, 52	13
275	Clean Condensate Collection Tank	VOC(6)	0.01	<0.01	9	9	9, 53
278	Turpentine Loading (5)	VOC(6)	0.27	0.10			
279	Fuel Oil Day Tank	VOC	0.07	0.01			
280	Fuel Oil Storage Tank	VOC	0.07	0.04			

### Major NSR Summary Table

Permit Number: 9654A, PSDTX833M3, and N60M2		Issuance Date: 09/07/2015					
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
281	Pet Coke Silo Stack	PM	0.26	1.13			
		PM <sub>10</sub>	0.26	1.13			
		PM <sub>2.5</sub>	0.26	1.13			
282	Bark Boiler Ash Bin	PM	0.26	1.13			
		PM <sub>10</sub>	0.26	1.13			
		PM <sub>2.5</sub>	0.26	1.13			
283	Cooling Tower No. 1	VOC(6)	0.98	4.30			
284	Cooling Tower No. 2	VOC(6)	0.09	0.38			
286	Caustic Solution Tank	NaSH/Na <sub>2</sub> S###	0.04	0.04			
NCG-FUG1	Switching LVHC and HVLC NCG Venting For Bypass and Preventative Maintenance (5)(13)	VOC	145.00	0.25	23	23	54
		TRS	0.06	<0.01			
		Acetone	2.40	0.02			
P-VBURNER	Propane Vaporizer Burner	VOC(6)	0.16	0.04	13	13, 52	13
		NO <sub>x</sub>	2.56	0.67			
		SO <sub>2</sub>	0.10	0.03			
		PM	0.14	0.04			
		PM <sub>10</sub>	0.14	0.04			
		PM <sub>2.5</sub>	0.14	0.04			
		CO	1.47	0.38			

Footnotes:

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide

PM-	total particulate matter, suspended in the atmosphere, including PM <sub>10</sub> and PM <sub>2.5</sub> , as represented
PM <sub>10</sub>	- total particulate matter equal to or less than 10 microns in diameter, including PM <sub>2.5</sub> , as represented
PM <sub>2.5</sub>	- particulate matter equal to or less than 2.5 microns in diameter
CO	- carbon monoxide
H <sub>2</sub> SO <sub>4</sub>	- sulfuric acid
TRS	- total reduced sulfide
HAP	- hazardous air pollutants as listed in § 112(b) of the Federal Clean Act or Title 40 Code of Federal regulations Part 63, Subpart C
NH <sub>3</sub>	- ammonia
NaSH	- sodium hydrosulfide
Na <sub>2</sub> S	- sodium sulfide

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) VOC and TRS are represented as carbon and H<sub>2</sub>S, respectively, unless otherwise indicated.
- (7) PM includes filterable and condensable PM, and compliance will be determined based on the sum of Method 5 and Method 202 (revised 12/1/2010).
- (8) PM<sub>10</sub> and PM<sub>2.5</sub> include filterable and condensable PM<sub>10</sub> and PM<sub>2.5</sub>, respectively, and compliance will be determined based on the sum of Method 201A (revised 12/1/2010) and Method 202 (revised 12/1/2010).
- (9) PM<sub>10</sub> and PM<sub>2.5</sub> include filterable and condensable PM<sub>10</sub> and PM<sub>2.5</sub>, respectively, and compliance will be determined based on the sum of Method 5 and Method 202 (Revised 12/1/2010) until such time that the EPA methods are revised to account for particle size distribution data for wet sources.
- (10) VOC is represented as carbon
- (11) Includes PM1 False Ceiling Exhaust Fan (EPN 167), PM1 Roof Exhaust (EPN 168), PM1 Cleaner Exhaust Southeast (EPN 174), PM1 Cleaner Exhaust Southwest (EPN 175), PM2 Roof Exhausts (EPNs 169, 171, and 175), PM2 5<sup>th</sup> Section Hood Exhaust Fan (EPN 172), PM Base Sheet Low Density Tank, No. 1 and No. 2 Paper Machine Base Sheet Secondary, PM TS Low Density Chest, Strained White Water Chest Strainers, White Top High Density Storage Chest, Excess White Water Storage Chest, and No. 2 Paper Machine Fourdrinier Low Vacuum Seal Tank.
- (12) Includes SFS Exhaust Fan North (EPN 173), Secondary Fiber Surge Chest, Secondary Fiber Screen Stock Tank, Secondary Fiber Rejects Tank, Secondary Fiber Rejects Tank East, Secondary Fiber White Water Chest North, MD Storage Chest Secondary Fiber, Secondary Fiber Wax Tank, and Feed Tank for Combisorter.
- (13) Emissions resulting from re-routing non-condensable gases between combustion sources [Lime Kiln (EPN 11) and Bark Boiler (EPN 2)].
- (14) Planned startup and shutdown emissions are included, as well as planned maintenance activities identified as part of the permit alteration issued on April 25, 2013.

- A1 = For determination of compliance, the annual emissions should be summed for the No. 1 Slaker (EPN 10) and No. 2 Slaker (EPN 13).
- B1-B6 = Hourly emission rates based on 24-hour averaging time.
- A2 = For determination of compliance, the annual emissions should be summed for the No. 1 Tall Oil Storage Tank (EPN 30) and the No. 2 Tall Oil Storage Tank (EPN 31).
- A3 = For determination of compliance, the annual emissions should be summed for the Nos. 1, 2, 4, and 5 White Liquor Storage Tanks (EPNs 36, 45, 46, and 205).
- A4 = For determination of compliance, the annual emissions should be summed for the “A” Blend Tank (EPN 56) and the “B” Blend Tank (EPN 57).
- A5 = For determination of compliance, the annual emissions should be summed for the No. 1 Green Liquor Storage Tank (EPN 47) and the No. 2 Green Liquor Storage Tank (EPN 51).
- A6 = For determination of compliance, the annual emissions should be summed for the “A” High Density Storage Tank (EPN 61) and the “B” High Density Storage Tank (EPN 62).
- \* Compliance with TRS and SO<sub>2</sub> short-term emission rates is based on a 12-hour block average. Short-term emission rates for all other pollutants are based on a 24-hour rolling average.
- \*\* Compliance with CO and NO<sub>x</sub> short-term emission rates is based on a 30-day rolling average. Compliance with NH<sub>3</sub> short-term emission rate is based on a 3-hour average. Short-term emission rates for all other pollutants are based on a 24-hour rolling average.
- \*\*\* Compliance with CO and NO<sub>x</sub> short-term emission rate is based on a 30-day rolling average. Compliance with TRS short-term emission rate is based on a 12-hour block average. Short-term emission rates for all other pollutants are based on a 24-hour rolling average.
- # Compliance with PM, PM<sub>10</sub>, and PM<sub>2.5</sub> short-term emission rate is based on a 3-hour average.
- ## This piece of equipment is authorized by the permit and is no longer considered a source of emissions.
- ### Emissions conservatively assumed to be 100 percent NaSH or 100 percent Na<sub>2</sub>S.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
AIR QUALITY PERMIT



A Permit Is Hereby Issued To  
**International Paper Company**  
Authorizing the Construction and Operation of  
**Linerboard Mill**  
Located at **Orange, Orange County, Texas**  
Latitude 30° 13' 35" Longitude -93° 44' 29"

Permits: 9654A, N60M2 and PSDTX833M3

Revision Date : September 7, 2015

Expiration Date: April 15, 2023

For the Commission

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

also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction; comply with any additional recordkeeping requirements specified in special conditions attached to the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC 116.115(b)(2)(F)]<sup>1</sup>
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with 30 TAC 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to a condition of "air pollution" as defined in Texas Health and Safety Code (THSC) 382.003(3) or violate THSC 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.<sup>1</sup>

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

## Special Conditions

Permit Numbers 9654A, N60M2 and PSDTX833M3

### Emission Limitations

1. The sources listed in the attached table entitled “Emission Sources - Maximum Allowable Emission Rates,” (MAERT) are limited to the emission limits and other conditions specified in that attached table.

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. **(05/13)**

### Fuel Specifications

2. Fuel used in the Recovery Furnaces [Emission Point Nos. (EPNs) 1A and 1B], shall be limited to black liquor solids. Auxiliary fuel for the recovery furnaces shall be limited to pipeline-quality sweet natural gas. Use of any other auxiliary fuel will require prior written approval of the Texas Commission on Environmental Quality (TCEQ) Executive Director. **(10/04)**

Each recovery furnace shall be limited to firing 2.77 million pounds per day (lb/day) of black liquor solids, measured on an “as-fired” basis. **(12/05)**

3. Fuel used in the Bark Boiler (EPN 2) shall be limited to bark/wood biomass, waxed cardboard boxes, pipeline-quality sweet natural gas, low volume high concentration non-condensable gases (NCG), high volume low concentration NCGs, old corrugated container (OCC) rejects, creosote-treated wood, wastewater treatment (WWT) residuals, bagasse, rice hulls, oriented strandboard (OSB) residuals, presswood pallets, and tire-derived fuel (TDF). The combined firing rate of bark/wood biomass, waxed cardboard boxes, and bark shall not exceed a maximum firing rate of 1,831 tons per day (tpd). Compliance with the 1,831 tpd limit shall be based upon a 30-day rolling average. Use of any other auxiliary fuel, other than those specified in this condition, shall require prior written approval of the TCEQ Executive Director. **(04/13)**
4. The following restrictions shall apply to the firing of boiler fuels:

**Table 1: Bark Boiler Short-Term And Annual Firing Rates**

Fuel Type	Short-Term Firing Rate (tph)	Short-Term Firing Rate (tpd)*	Annual Firing Rate (tpy)
Creosote-Treated Wood	--	480	175,200
WWT Residuals	--	90	32,850

Fuel Type	Short-Term Firing Rate (tph)	Short-Term Firing Rate (tpd)*	Annual Firing Rate (tpy)
Rice Hulls	--	120	43,800
Bagasse	--	120	43,800
OSB Residuals	--	12	4,380
Presswood Pallets	--	12	4,380
Waxed Cardboard Boxes	4	--	--
OCC Rejects	3.5	--	--
TDF	1.04	--	--

\* 30-day rolling average firing rates

- i. Only one of the following fuels shall be co-fired at any one time: TDF, bagasse, or rice hulls.
  - ii. Other solid fuels shall always be co-fired with bark/wood biomass.
  - iii. Natural gas shall be limited to 111.7 MMBtu/hr (30-day rolling average) while TDF, bagasse, or rice hulls are burned during production operations. **(02/11)**
5. Fuel used in the No. 1 PFI Boiler (EPN 2A) shall be limited to pipeline-quality sweet natural gas. Use of any other auxiliary fuel will require prior written approval of the TCEQ Executive Director. **(10/04)**
  6. Fuel used in the Power Boiler No. 3 (EPN 99) shall be limited to pipeline-quality sweet natural gas. Use of any other fuel will require an amendment to the permit. **(10/04)**
  7. Fuel for the Lime Kiln (EPN 11) shall be limited to pipeline-quality sweet natural gas, No. 6 fuel oil, and petroleum coke. Use of any other fuel will require prior written approval of the TCEQ Executive Director. **(03/09)**
  8. In the event that there are interruptions in the natural gas supply, the holder of this permit shall utilize propane as an auxiliary fuel in the three power boilers and two recovery furnaces for as long as the interruptions last but not to exceed 21 days. Once the natural gas supply is restored, the holder of this permit shall immediately cease using propane as fuel. Further use of propane after natural gas supply has been restored shall require approval from the Executive Director of TCEQ. **(03/09)**

### Federal Applicability

9. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on New Source Performance Standards (NSPS)

promulgated for Kraft Pulp Mills in Title 40 Code of Federal Regulations Part 60 (40 CFR 60) for the following:

- A. Subpart A - General Provisions;
- B. Subpart BB for the Chemiwasher, Chemiwasher Filtrate Tank, and Chemiwasher NCG Condensate Collection Tank; and
- C. Subpart Db for the Bark Boiler (EPN 2) and Power Boiler No. 3 (EPN 99), for Industrial-Commercial-Institutional Steam Generating Units.

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

- 10. The Bark Boiler shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants emissions promulgated in 40 CFR Part 61 for the following: **(01/13)**
  - A. Subpart A - General Provisions;
  - B. Subpart E for New Stationary Sources promulgated for mercury at the commencement of burning wastewater treatment residuals.
- 11. These facilities shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants emissions promulgated in 40 CFR Part 63 for the following: **(03/09)**
  - A. Subpart A - General Provisions;
  - B. Subpart S for Pulp and Paper Industry;
  - C. Subpart MM for Combustion Sources at Kraft, Soda, and Sulfite Pulp and Paper Mills; and
  - D. Subpart DDDDD for Industrial, Commercial, and Institutional Boilers and Process Heaters. **(06/14)**

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

### **Opacity/Visible Emission Limitations**

- 12. In accordance with the U.S. EPA Test Method 9 or equivalent, and except for those periods described in Title 30 Texas Administrative Code (30 TAC) §§101.201 and 101.211, opacity from the Recovery Furnaces (EPNs 1A and 1B) shall not exceed 20 percent averaged over a six-minute period. **(10/04)**

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13. Opacity of emissions from the No. 1 PFI Boiler (EPN 2A); Reject Tank (EPN 58); Liquor Loading (EPN 235); Primary Sludge Pond (EPN 93); Primary Sludge Landfill (EPN 94); Primary Clarifier (EPN 95); Strong Waste Pond (EPN 96); Aeration Pond (EPN 97); Holding Pond (EPN 98); the Power Boiler No. 3 (EPN 99) ; Green Liquor Dregs Filter and Vacuum Pump (EPN 232); and Propane Vaporizer (EPN P-VBURNER) shall not exceed 5 percent averaged over a six-minute period. Opacity shall not exceed the limits set forth in 30TAC Chapter 111, Control of Air Pollution from Visible Emissions and Particulate Matter, during planned maintenance, startup, and shutdown (MSS). In addition, once quarterly that the plant is in operation, the permit holder shall determine during normal operation whether any emissions are visible from EPNs above and the results recorded. Observations shall be made at least 15 feet and no more than 0.25 mile from the emission point. If emissions are visible, the owner or operator shall perform one of the following: **(05/13)**
  - A. Take immediate action to eliminate emissions that are visible from the emission point, and, by the end of the next operating day, document the corrective actions taken. In addition, comply with any applicable requirements in 30 Texas Administrative Code (30 TAC) §101.201, Emissions Event Reporting and Record Keeping Requirements; or
  - B. Conduct an opacity evaluation using 40 CFR Part 60, Appendix A, TM 9 within 24 hours after first observing emissions that are visible from the EPNs in Special Condition No. 13. If opacity is determined to exceed 5 percent averaged over a six-minute period, the permit holder shall take immediate action to reduce opacity to 5 percent averaged over a six-minute period, and, by the end of the next operating day, document the corrective actions taken. In addition, the permit holder shall comply with applicable requirements in 30 TAC §101.201, Emissions Event Reporting and Record Keeping Requirements. Requests for additional time to accomplish the opacity evaluation shall be submitted to the TCEQ Regional Office with jurisdiction.

## Operational Limitations, Work Practices, And Plant Design

14. Emissions from the Lime Kiln shall not exceed: **(03/09)**
  - A. The nitrogen oxide (NO<sub>x</sub>) emissions: 2.02 lb NO<sub>x</sub>/tons calcium oxide (TCaO) for good combustion/process controls and with the addition of pet coke firing, advanced technology burners. Compliance with the NO<sub>x</sub> limitation will be based on a 30-day rolling average.
  - B. The carbon monoxide (CO) emissions: 0.136 lb CO/TCaO for good combustion practices. Compliance with the CO limitation will be based on a 30-day rolling average.
  - C. The sulfur dioxide (SO<sub>2</sub>) emissions: 0.332 lb SO<sub>2</sub>/TCaO from the Lime Kiln Wet Scrubber and inherent lime scrubbing for worst case firing scenario (pet coke/natural gas - 80/20 annual substitution).

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- D. The volatile organic compound [(VOC) (as carbon)] emissions: 0.05 lb VOC/TCaO for good combustion practices. **(04/13)**
- E. The particulate matter and particulate matter of 10 microns or less (PM/PM<sub>10</sub>) emissions: 0.064 gr/dscf at 10% oxygen (O<sub>2</sub>) from the Wet Scrubber. **(04/13)**
- 15. On a maximum rolling 12-month average basis, the Mill Production shall be limited to 2,700 machine dry tons of pulp per day (MDTPD) for linerboard; 2,153 air dry tons of pulp per day (ADTPD) for virgin pulp, and 689 ADTPD [at the Old Corrugated Container (OCC) Plant] for recycle fiber. **(02/11)**
- 16. The facilities are authorized to operate up to 24 hours per day; 7 days per week; 52 weeks per year ; or 8,760 hours per year.
- 17. Digester A and/or B pulp washing/chemical recovery operations may be performed in the Chemi-Washer, Brown Stock Washer A, or Brown Stock Washer B, either singularly or in any combination (series or parallel) as required to wash pulp and recover pulping chemicals from Digester A and/or B. **(06/14)**
- 18. The exhaust gases from Digester A and/or B pulp washing/chemical recovery operations shall be collected and conveyed to either the Bark Boiler (EPN 2) or the Lime Kiln (EPN 11) for control of TRS and VOC emissions. Brown Stock Washers A and B may also vent uncontrolled exhaust gases to the atmosphere while washing up to a total of 38,752 oven-dried tons (ODT) of pulp per year for both washers if operating in series or up to 38,752 ODT per year per washer if operating in parallel, with emissions represented by EPNs 16 and 17. **(06/14)**
- 19. Only fresh water, non-contact cooling water, or paper mill white water shall be used to make up the scrubber solutions for the Lime Kiln and Bark Boiler. **(04/13)**
- 20. The Tall Oil Reactor scrubber shall be vented to the Lime Kiln. The scrubber may be used in the process but shall not vent directly to the atmosphere. **(10/04)**
- 21. The Dissolving Tank caustic scrubbing solution shall be maintained at a minimum pH of 10. Hourly pH records shall be maintained at the plant site and be made available to the TCEQ or local air pollution agency personnel upon request. **(04/13)**
- 22. Emissions from the Filtrate Tank condenser shall be vented to the Non-condensable Gases (NCG) system and incinerated in the Lime Kiln or Bark Boiler. **(12/01)**
- 23. Total vent times for switching between combustion sources (Lime Kiln and Bark Boiler) of NCG for HVLC system venting shall be limited to 84 hours in a year of the annual operating hours of the NCG system. Total vent times for switching between combustion sources of the NCG Low Volume High Concentration (LVHC) system venting shall be limited to 84 hours in a year of the annual operating hours of the NCG system. If HVLC and LVHC are vented simultaneously, then the total combined vent times for both HVLC

and LVHC shall not exceed 84 hours per year of the annual operating hours of the NCG system.

If these vent times and/or the associated emissions rates in the MAERT (EPN NCG-FUG 1) are exceeded, the holder of this permit shall take immediate corrective actions to comply with the applicable standards. These actions may include (but are not limited to) reducing operating temperature, reducing throughput, and the installation of additional control equipment. These corrective actions shall not be considered complete until compliance with the allowable emission rates and other standards have been demonstrated. Additional testing may be required. **(10/04)**

24. Emissions from the Power Boiler No. 3 stack, when firing pipeline-quality sweet natural gas, shall not exceed: **(05/07)**

- A. The NO<sub>x</sub>: 0.05 pound (lb) per million British thermal units (MMBtu) when firing natural gas and 41 parts per million by volume on a dry basis (ppmvd).  
B. CO: 0.09 lb/MMBtu and 122 ppmvd.

The NO<sub>x</sub> concentration limits (in ppmvd) are expressed on a dry basis at 3 percent (by volume) stack gas O<sub>2</sub> averaged over a one-hour period. Measured concentrations shall be expressed accordingly. The heat input-based limit is based upon fuel higher heating value, and compliance with the (lb/MMBtu) limitation will be demonstrated on a 30-day rolling average, corrected as specified in 40 CFR Part 60, Appendix A, Method 19. **(08/03)**

The 41 ppmvd standards for NO<sub>x</sub> from the Power Boiler No. 3 shall not apply during boiler operation at less than 220,000 pounds per hour (lbs/hr) steam production. The 0.05 lb/MMBtu standard for NO<sub>x</sub> from the Power Boiler No. 3 shall not apply when the 30-day rolling average boiler operation is less than 220,000 lbs/hr steam production. During steam production of less than 220,000 lbs/hr, fuel consumption shall also be used to demonstrate compliance with the Power Boiler No. 3 emission limits. All other standards for the Power Boiler No. 3 shall apply for any load condition excluding start-up and shutdown. **(08/03)**

The CO concentration limit (in ppmvd) is expressed on a dry basis at 3 percent (by volume) stack gas O<sub>2</sub> averaged over a one-hour period. Compliance with the CO standards has been demonstrated by stack testing. The results of this stack testing will be provided at the request of the TCEQ Executive Director. **(08/03)**

25. Emissions from the Bark Boiler stack shall not exceed: **(09/02)**

- A. The NO<sub>x</sub>: 0.166 lb/MMBtu. A Selective Non-Catalytic Reduction ammonia or urea injection system shall be installed and operated, as needed, for the control of NO<sub>x</sub>. Compliance with the NO<sub>x</sub> limitation will be based on a 30-day rolling average. **(04/13)**  
B. The CO: 0.4 lb/MMBtu. Compliance with the CO limitation will be based on a 30-day rolling average. **(10/04)**

- C. VOC: 0.017 lb/MMBtu. **(10/04)**
  - D. The PM emissions from the Bark Boiler scrubber shall not exceed 0.07 lb/MMBtu for all fuels except TDF. **(03/09)**
  - E. The PM emissions from the Bark Boiler scrubber shall not exceed 0.085 lb/MMBtu when firing TDF in combination with any other fuel. **(03/09)**
26. The Bark Boiler scrubber shall be operated at all times except when using only pipeline-quality sweet natural gas.

In the event that the Bark Boiler is used to incinerate the High Volume Low Concentration (HVLC) gases, without the addition of bark/wood biomass firing, the holder of this permit shall maintain a minimum scrubber solution pH of 7.3 in order to ensure that the SO<sub>2</sub> emissions do not exceed 7.44 lb/hr. When incinerating HVLC gases while firing bark/wood biomass, the maintaining of a minimum scrubber solution pH is not required. HVLC gases are required to be collected under Phase II of the Cluster Rule (Maximum Allowable Control Technology, Subpart S). Should subsequent testing demonstrate compliance at a lower pH, the Mill may reset the minimum pH by providing written notification to the TCEQ. Hourly pH records shall be maintained at the plant site and be made available to the TCEQ or local air pollution agency personnel upon request. **(09/15)**

27. The New Source Review Permit Numbers 9654A, PSDTX684M2, PSDTX833M2, and N60M1 amendment and modification is based on the permanent retirement of the following Emission Reduction Credit Certificates (ERCCs):

**Table 2: Emission Reduction Credit Certificates**

ERCC No.	Tons Per Year (tpy)	Pollutant
1678	68.0	NO <sub>x</sub>
1752	22.6	NO <sub>x</sub>

These ERCCs provide offsets at the ratio of 1.3 to 1.0 for the 43.80 tpy of increased NO<sub>x</sub> emissions authorized under this permit amendment/modification. In addition, 33.7 tons of surplus NO<sub>x</sub> offsets are permanently retired for Port Arthur LNG, a subsidiary of Sempra Energy. **(09/05)**

For the 2008 Major Modification/Non-Attainment Review, implementation of Phase 1 will require a total of 45.80 tpy of NO<sub>x</sub> emissions to be offset, 22.25 tpy for changes to the Bark Boiler and 23.55 tpy for increases in virgin pulp. Implementation of all remaining modifications will require 152.11 tpy of NO<sub>x</sub> to be offset. Since Orange County is classified a serious ozone non-attainment area under the 1-hour standard for the issuance of Permit No. N60M2, the NO<sub>x</sub> emission increases associated with the project must be offset at a

ratio of 1.2:1. Prior to start of operation of each modification, the permit holder must identify and submit the intent to use emission reduction credits of 237.49 tpy  $[(22.25 + 23.55 + 152.11) * 1.2]$  of NO<sub>x</sub>. **(04/13)**

For the 2008 Major Modification/Non-Attainment phased construction project, the determination of best available control technology and lowest achievable emission rate shall be reviewed and modified as appropriate prior to commencement of construction for each independent phase of the project that occurs after 18 months following permit issuance. At such time, the holder of this permit may be required to demonstrate the adequacy of any previous determinations for the applicable stationary source. **(03/09)**

### **Demonstration Of Continuous Compliance**

28. Upon request by the TCEQ Executive Director or the TCEQ Regional Director having jurisdiction, the holder of this permit shall perform stack sampling and/or other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere to demonstrate compliance with the Maximum Allowable Emission Rates Table and with emission performance levels as specified in the special conditions and/or otherwise prove satisfactory equipment performance. Sampling must be conducted in accordance with the TCEQ Sampling Procedures Manual or in accordance with the applicable EPA 40 CFR procedures. Any deviations from those procedures must be approved by the TCEQ Executive Director or the appropriate TCEQ Regional Director prior to conducting sampling.
- A. Air contaminants emitted from the Recovery Furnaces (EPNs 1A and 1B) and Lime Kiln (EPN 11) to be tested for include (but are not limited to) PM with a nominal aerodynamic diameter of 10 microns or less (PM<sub>10</sub>), VOC, NO<sub>x</sub>, SO<sub>2</sub>, CO, and TRS.
- Air contaminants emitted from the "A" and "B" Brown Stock Washers (EPN 16/17), and No. 2 Green Liquor Clarifier (EPN 49) to be tested for include (but are not limited to) VOC, methanol, dimethyl sulfur, acetaldehyde, H<sub>2</sub>S, and TRS. **(12/05)**
- Air contaminants emitted from the Bark Boiler (EPN 2) to be tested for include (but are not limited to) PM<sub>10</sub>, VOC, NO<sub>x</sub>, SO<sub>2</sub>, and CO.
- Air contaminants emitted from the No. 1 PFI Boiler (EPN 2A) and Power Boiler No. 3 (EPN 99) to be tested for at full load include (but are not limited to) NO<sub>x</sub>, CO, SO<sub>2</sub>, O<sub>2</sub>, and opacity. During the initial compliance test of the Power Boiler No. 3, it is the responsibility of the holder of this permit to establish an emissions-complying Flue Gas Recirculation (FGR) operating range to be induced into the burner as specified by the Power Boiler No. 3 manufacturer. The boiler will be deemed to be in compliance with the NO<sub>x</sub> limit if it is operating within the established FGR range during temporary periods of NO<sub>x</sub> Continuous Emission Monitoring System (CEMS) downtime specified in Special Condition No. 52(F). If the Power Boiler No. 3 is unable to comply with the emission limits of this permit for any or all of the pollutants of this permit while operating at full load during the test, then future operating loads may be limited to the lower emissions-complying load tested.

Additional stack testing may be required to authorize higher loads outside the emissions-complying load achieved during the test. **(05/06)**

The holder of this permit shall conduct the performance test, as required under 40 CFR § 60.8, using the NO<sub>x</sub> CEMS. Emissions of NO<sub>x</sub> shall be monitored to demonstrate compliance with the NO<sub>x</sub> limits of Special Condition No. 24.

The following applies to the Power Boiler No. 3 (EPN 99): The testing required by this special condition for NO<sub>x</sub> and CO shall be used to determine initial compliance with the lbs/MMBtu limits of Special Condition No. 24.

- B. Sampling shall occur within 60 days after request from the Executive Director of the TCEQ.
- C. Within 180 days after the initial use of pet coke as fuel for the Lime Kiln, the holder of this permit shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the Lime Kiln. Once the CEMs are in place and running, the sampling for the affected pollutants shall be discontinued. **(03/09)**

### **Continuous Opacity Monitoring System (COMS) Requirements**

- 29. Continuous monitoring and recordkeeping of opacity shall be performed at the Recovery Furnaces (EPNs 1A and 1B). The holder of this permit shall install, calibrate, and maintain a COMS for monitoring opacity.
  - A. The COMS shall meet the design and performance specification, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in Performance Specification No. 1, 40 CFR Part 60, Appendix B.
  - B. The COMS shall be zeroed and spanned daily and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in 40 CFR Part 60, Appendix B or as specified by the TCEQ if not specified in Appendix B.
  - C. The opacity monitor shall complete a minimum of one cycle of data recording for each successive ten-second period. Six-minute averages shall be computed from at least 36 data points over a six-minute period. Data recorded during periods of COMS breakdowns, repairs, calibration checks, and zero span adjustments shall not be included in the computed data averages. **(04/13)**

### **Requirement For CEMS**

- 30. The holder of this permit shall install, calibrate, operate, and maintain CEMS to measure and record emissions of SO<sub>2</sub>, TRS, and O<sub>2</sub> from the two Recovery Furnaces (EPNs 1A and 1B), NO<sub>x</sub> and O<sub>2</sub> for Bark Boiler (EPN 2), TRS and O<sub>2</sub> from the Lime Kiln (EPN 11), NO<sub>x</sub> and O<sub>2</sub> for Power Boiler No. 3 (EPN 99). If and when the Lime Kiln uses pet coke as fuel, the permit holder shall install, calibrate, and maintain a CEMS to measure and record the in-stack concentration of NO<sub>x</sub> from Lime Kiln (EPN 11).

- 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 Specifications Nos. 1 through 5, 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 Air, Air Permits Division for requirements to be met.
- B. The CEMS shall be zeroed and spanned daily and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in 40 CFR Part 60, Appendix B or as specified by the TCEQ if not specified in Appendix B.

Each CEMS shall be quality-assured at least quarterly in accordance with 40 CFR Part 60, Appendix F, Procedure 1, Section 5.1.2. All cylinder gas audit exceedances of  $\pm 15$  percent accuracy and any CEMS downtime shall be reported to the appropriate TCEQ Regional Director in the "Excess Emissions and CEMS Downtime" quarterly report that is used to comply with 40 CFR § 60.7(c), and necessary corrective action shall be taken. Failure to complete any corrective action as directed by the TCEQ Regional Office may be deemed a violation of the permit. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director.

- C. Each (SO<sub>2</sub>, TRS, and NO<sub>x</sub>) CEMS shall comply with the applicable requirements of 40 CFR § 60.13. Data recorded during periods of CEMS breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the computed data averages. **(04/13)**

The monitoring data shall be reduced to hourly average concentrations at least once per day, 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 emission rate at least once per day and cumulative tons per year on a 12-month rolling average at least once per month. **(04/13)**

- D. The TCEQ Regional Director with jurisdiction shall be notified as soon as possible after the discovery of any CEMS malfunction that is expected to result in more than 24 hours of lost data. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director in case of extended CEMS downtime.
- E. The TCEQ Regional Office with jurisdiction shall be notified in writing at least 30 days prior to any relative accuracy test audit required by 40 CFR Part 60, Appendix F in order to provide the TCEQ staff the opportunity to observe the testing. **(04/13)**
- F. All monitoring data and quality-assurance data shall be maintained by the source for a rolling 60-month period and made available at the request of the TCEQ Executive Director or designated representative. **(04/13)**

- 31. To demonstrate compliance with particulate matter/particulate matter less than 10 microns in diameter (PM<sub>10</sub>) in Lime Kiln, the standards in 40 CFR Part 63 Subpart MM shall be used in place of CEMs/PEMs for monitoring. **(03/09)**

32. The recovery furnace and kiln process operating parameters shall be monitored and adjusted to keep SO<sub>2</sub> and TRS exhaust stack concentrations, in ppmv, at or below the following levels, measured on a dry basis and corrected to the appropriate O<sub>2</sub> content. **(04/13)**

**Table 3: Recovery Furnace Process Operating Parameters**

Emission Unit	SO <sub>2</sub>			TRS		
	1-hour	12-hour	O <sub>2</sub> Level	1-hour	12-hour	O <sub>2</sub> Level
Recovery Furnace No. 1	1,008	336	8%	50	20	8%
Recovery Furnace No. 2	1,008	336	8%	50	20	8%
Lime Kiln	---	---	---	50	20	10%

33. The permit holder shall comply with the following:
- A. Compliance with the SO<sub>2</sub> limits of the No. 1 PFI Boiler (EPN 2A), Bark Boiler (EPN 2), and Power Boiler No. 3 (EPN 99) shall be demonstrated on the basis of a certification from the fuel supplier to comply with Special Condition Nos. 3, 4, 5, and 6. If the fuel supplier analysis yields significantly different results in future tests, the supplier will provide the permit holder with updated results. **(04/13)**
  - B. If a certification is not available from the fuel supplier, the following fuel monitoring schedule shall be used to demonstrate compliance: **(08/03)**
    - (1) Analysis for hydrogen sulfide (H<sub>2</sub>S) and total sulfur content of the natural gas fuel shall be conducted using one of the following: approved EPA Test Method (TM) PS-7 56 FR 05488 of February 11, 1991, or approved EPA TM 11 43 FR01494 of January 10, 1978, or an alternative method approved by the TCEQ Beaumont Regional Office and/or the TCEQ Director of the Compliance Support Division.
    - (2) The H<sub>2</sub>S and total sulfur monitoring shall be conducted twice monthly for six months beginning two weeks from the start of operation of the Power Boiler No. 3. If this monitoring does not show substantial change in variability (10 percent above the H<sub>2</sub>S and total sulfur limits for pipeline-quality, sweet, natural gas) in the fuel H<sub>2</sub>S and total sulfur contents, the natural gas fuel will be

deemed as being in compliance with Special Condition Nos. 3, 4, 5, and 6; then H<sub>2</sub>S and total sulfur monitoring shall be conducted once per quarter for six quarters. **(04/13)**

- (3) If after the monitoring required in 2 above, or herein, the H<sub>2</sub>S and total sulfur contents of the natural gas show compliance with the H<sub>2</sub>S and total sulfur limits for sweet natural gas, sample analysis of the natural gas shall be conducted twice per annum. This monitoring shall be conducted during the first and third quarters of each calendar year. **(04/13)**
- (4) Should the natural gas H<sub>2</sub>S and total sulfur analysis as required in 2 or 3 above indicate noncompliance with H<sub>2</sub>S and total sulfur limits for sweet natural gas of Special Condition Nos. 3, 4, 5, and 6, or should there be a change in fuel supply, the holder of this permit shall notify the TCEQ and the fuel monitoring schedule shall be reexamined by the TCEQ. **(04/13)**

A substantial change in natural gas fuel quality (10 percent above the H<sub>2</sub>S and total sulfur limits of the previously analyzed pipeline-quality, sweet natural gas of Special Condition Nos. 3, 4, 5, and 6) shall be considered as a change in natural gas fuel supply. The H<sub>2</sub>S and total sulfur monitoring shall be conducted weekly during the interim period when the schedule is being reexamined. **(10/04)**

34. During periods in which the NO<sub>x</sub> CEMS is unable to produce or predict a valid average concentration, hourly emissions will be calculated from monitoring of operational parameters including the boiler firing rate, fuel flow, or other appropriate method as approved by the TCEQ Beaumont Regional Office. **(05/06)**
35. Fuel fired in the Power Boiler No. 3 (EPN 99) shall be limited to 420 MMBtu/hr. Records of fuel consumption using the fuel higher heating value shall be kept and maintained to demonstrate compliance with this condition. During periods of boiler CEMS downtime, fuel consumption shall also be used to demonstrate compliance with the boiler emission limits of Special Condition No. 24. **(05/06)**

### **Compliance Assurance Monitoring (CAM)**

36. With regard to the monitoring specified in Special Condition No. 39, the holder of this permit may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging times specified, 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). **(04/13)**
37. With regard to the capture systems associated with the units specified in Special Condition No. 39, the holder of this permit shall perform monthly inspections to verify proper operation of the capture system to verify there are no holes, cracks, and/or other conditions that would reduce the collection efficiency of the emission capture system as

represented. If the results of the inspections indicate that the capture system is not operating properly, the permit holder shall promptly take necessary corrective actions. **(04/13)**

38. For a bypass associated with the control device specified for the units in Special Condition No. 39, the holder of this permit shall comply with one of the following requirements: **(04/13)**
- A. Install a flow indicator that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or
  - B. Once a month, inspect the valves, verifying the position of the valves and the condition of the car seals/lock-out tags that prevent flow out of the bypass and maintain records of each inspection. If the inspection is not satisfactory, the holder of this permit shall take necessary corrective action within 24 hours; or
  - C. Install a limit switch or similar device on the bypass valve that if opened would allow a vent stream to bypass the control device, either directly or indirectly, to the atmosphere. Monitor the valve position limit switch and record and verify zero flow at least every 15 minutes.
39. 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. When calibrated, the monitoring devices shall be accurate to within the following parameters, as applicable:

Pressure Drop + 1 in. H<sub>2</sub>O gauge (+ 250 Pa) or + 2% of span

Liquid Flow Rate (EPNs 2 and 11)+ 2% of span or + 5% of design liquid flow rate.

Liquid Flow Rate (EPNs 3 and 4) + 0.5% error of manufacturer's flow simulator calibration check

The following monitoring parameters must be measured and recorded at the frequency indicated in the table below. Immediate corrective action should be taken if the monitoring parameters fall outside of the range specified in this condition. **(04/13)**

**Table 4: CAM Monitoring Parameters**

<b>Control Device</b>	<b>Monitoring Parameter</b>	<b>Minimum Monitoring Frequency</b>	<b>Averaging Time</b>	<b>Deviation Limit(s)</b>
Bark Boiler Scrubber (EPN 2)	Pressure Drop	Four times per hour	Three hours (rolling)	Min. Pressure Drop: 7.13 in. H <sub>2</sub> O
	Liquid Flow Rate	Four times per hour	Three hours (rolling)	Min Scrubber Liquid Flow Rate: 1,665 gpm*
No. 1 Dissolving Tank Scrubber (EPN 3)	Impactor Flow Rate	Every 15 minutes	Three hours (rolling)	Min. Impactor Flow Rate: 51.1 gpm
	Absorber Fluid Rate	Every 15 minutes	Three hours (rolling)	Min Absorber Fluid Flow Rate: 205.0 gpm
No. 2 Dissolving Tank Scrubber (EPN 4)	Impactor Flow Rate	Every 15 minutes	Three hours (rolling)	Min. Impactor Flow Rate: 36.8 gpm
	Absorber Fluid Rate	Every 15 minutes	Three hours (rolling)	Min Absorber Fluid Flow Rate: 202.0 gpm
Lime Kiln Scrubber (EPN 11)	Pressure Drop	Four times per hour	Three hours (rolling)	Min. Pressure Drop: 21.4 in. H <sub>2</sub> O
	Liquid Flow Rate	Four times per hour	Three hours (rolling)	Min Scrubber Liquid Flow Rate: 559.2 gpm*
Bark Boiler and/or Lime Kiln (for incineration of LVHC and HVLC gases)	Records demonstrating that the affected streams are introduced with the primary fuel or into the flame zone	N/A	N/A	Failure to keep records demonstrating that the affected streams are introduced with the primary fuel or into the flame zone of the Bark Boiler and/or Lime Kiln, as appropriate.

\* Representative of total flow rate (i.e., sum of flow meters)

H<sub>2</sub>O = water

gpm = gallons per minute

### **Sampling Requirements (04/13)**

40. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at their own expense. Sampling ports and platforms shall be incorporated into the design of the stacks according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities" prior to stack sampling. Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Office with jurisdiction.
41. Sampling shall be conducted in accordance with the TCEQ Sampling Procedures Manual and EPA Test Methods in 40 CFR Part 60, Appendix A, and 40 CFR Part 51, Appendix M, as follows:
  - A. Test Method 5 or 17, modified with a controlled condensate method subject to approval from the TCEQ prior to sampling, for the concentration of total PM;
  - B. Test Method 5 or 17 for the filterable concentration of PM (front-half catch);
  - C. Test Method 5 or 201A, for the filterable concentration of PM<sub>10</sub> (front-half catch);
  - D. Test Methods 201A and 202 (or Test Method 5), modified with a controlled condensate method subject to approval from the TCEQ prior to sampling, for the concentration of PM<sub>10</sub> including back-half condensibles;
  - E. Test Method 6, 6a, 6c, or 8 for the concentration of SO<sub>2</sub>;
  - F. Test Method 7E, or equivalent methods, for the concentrations of NO<sub>x</sub> and O<sub>2</sub>;
  - G. Test Method 10 for the concentration of CO;
  - H. Test Method 25A, modified to exclude methane and ethane, for the concentration of VOC (to measure total carbon as carbon); and
  - I. Test Method 9 for opacity;
42. A pretest meeting shall be held with personnel from the TCEQ before the required tests are performed. The TCEQ Regional Office with jurisdiction shall be notified not less than 45 days prior to sampling to schedule a pretest meeting. The notice shall include:
  - A. Date for pretest meeting;
  - B. Date sampling will occur;
  - C. Points or sources to be sampled;
  - D. Name of firm conducting sampling;

- E. Type of sampling equipment to be used; and
- F. Method or procedure to be used in sampling.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports.

- 43. Alternate sampling methods and representative unit testing may be proposed by the permit holder. A written proposed description of any deviation from sampling procedures or emission sources specified in permit conditions or TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. Such a proposal must be approved, in writing, by the TCEQ Executive Director or the appropriate TCEQ Regional Director at least two weeks prior to sampling.
- 44. Requests to waive testing for any pollutant specified shall be submitted, in writing, for approval to the TCEQ Office of Air, Air Permits Division in Austin.
- 45. During stack sampling emission testing, the facilities shall operate at maximum represented production/throughput rates. Primary operating parameters that enable determination of production rates shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting.

If the plant is unable to operate at the maximum represented production/throughput rates during testing, then additional stack testing shall be required when the production rate exceeds the previous stack test production rate by +10 percent unless otherwise determined, in writing, by the TCEQ Executive Director.

- 46. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office with jurisdiction. Additional time to comply with the applicable federal requirements requires EPA approval, and requests shall be submitted to the TCEQ Regional Office with jurisdiction.
- 47. Copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:
  - One hard copy and 2 electronic copies to the TCEQ Beaumont Regional Office.
  - One copy to EPA Region 6 Office in Dallas.
- 48. If, as a result of stack sampling, compliance with the permitted emission rates cannot be demonstrated, the holder of this permit shall adjust any operating parameters so as to comply with Special Condition No. 1 and the permitted emission rates.
- 49. If the holder of this permit is required to adjust any operating parameters for compliance, then beginning no later than 60 days after the date of the test conducted, the holder of this

permit shall submit to the TCEQ, on a monthly basis, a record of adjusted operating parameters and daily records of production sufficient to demonstrate compliance with the permitted emission rates. Daily records of production and operating parameters shall be distributed as follows:

One copy to the TCEQ Beaumont Regional Office.

One copy to EPA Region 6 Office in Dallas.

### **Netting Conditions**

50. For any future expansion or modification using the excess steam capacity afforded to this facility by the installation of the Power Boiler No. 3, the permit holder or the operator of this facility shall add any emissions increase from the future expansion to the actual emissions increase from the excess steam generation using the Power Boiler No. 3 to determine if Prevention of Significant Deterioration (PSD) and/or Nonattainment review is/are applicable for any regulated pollutant.

The Package Boiler (EPN 2B) shall be shut down upon completion of the Bark Boiler modifications. **(10/04)**

### **Recordkeeping Requirements**

51. The holder of this permit shall identify all equipment covered by this permit at the property that has the potential of emitting air contaminants. Permitted emission points shall be identified corresponding to the emission point numbering on the MAERT or exempt facilities shall be identified corresponding to the emission point numbering used in the most recent emissions inventory submitted to the TCEQ. **(08/08)**
52. The following monitoring data shall be maintained by the source on a rolling 60-month retention basis and shall be made available to the TCEQ Executive Director or designated representative upon request: **(02/11)**
  - A. Average hourly NO<sub>x</sub> concentration in ppmvd, average hourly emissions in lb/hr, and 30-day rolling average NO<sub>x</sub> emissions in lbs/MMBtu of heat input.
  - B. Hourly records of the fuel usage rate and hours of operation for the Power Boiler No. 3.
  - C. Calculations of predicted hourly NO<sub>x</sub> emissions when the CEMS is inoperative as required by Special Condition No. 34. **(05/06)**
  - D. Records of initial performance tests.
  - E. After the initial determination of compliance, the holder of this permit shall maintain a raw data file of all CEMS measurements, including CEMS performance testing measurements, all CEMS calibration checks and adjustments and maintenance performed on these systems, and measurements of operating conditions monitored.

This data shall be maintained in a permanent form, either hard copy or electronically, so long as it is suitable for inspection. **(05/06)**

- F. Records of range of FGR values determined pursuant to Special Condition No. 28(A) for use in verifying compliance with the NO<sub>x</sub> limits of this permit during periods of NO<sub>x</sub> CEMS downtime. **(05/06)**
- G. Records of the SO<sub>2</sub> monitoring data of the fuel fired as specified in Special Condition No. 33. **(10/04)**
- H. Records of the amount of bark, wood biomass, waxed cardboard boxes, pipeline-quality sweet natural gas, OCC rejects, TDF, creosote-treated wood, WWT residuals, rice hulls, bagasse, OSB residuals, and presswood pallets used in the Bark Boiler (EPN 2), as listed in Special Condition Nos. 3 and 4, shall be recorded and maintained on-site for 30-day rolling period. **(04/13)**
- I. The total sulfur content for each bulk shipment of propane (associated with interruptions in supply of natural gas) from the supplier; total number of hours associated with the propane firing authorized during natural gas interruptions; and total daily propane usage rates of each boiler affected during interruptions in supply of natural gas. **(05/07)**
- J. Quarterly observations for visible emissions and/or opacity determinations as specific in Special Condition No. 13. **(04/13)**

### Reporting Requirements

- 53. Unless otherwise specified, the holder of this permit shall submit to the TCEQ Beaumont Regional Office and the Air Enforcement Branch of the EPA in Dallas reports referenced in the table below within 30 days after the end of the reporting period: **(04/13)**

**Table 5: Emission Source Reporting Requirements**

<b>Emissions Source</b>	<b>Reporting Requirement</b>	<b>Frequency</b>
Recovery Furnace No. 1 (EPN 1A)	Special Condition No. 30B	Quarterly*
	MACT MM	Quarterly
Recovery Furnace No. 2 (EPN 1B)	Special Condition No. 30B	Quarterly*
	MACT MM	Quarterly
Lime Kiln (EPN 11)	NSPS BB**/Special Condition No. 30B	Quarterly*
	MACT MM	Quarterly
Power Boiler No. 3 (EPN 99)	Special Condition No. 53/ NSPS Db	Quarterly/ Semi-annually†
No. 1 Dissolving Tank (EPN 3)	MACT MM	Quarterly
No. 2 Dissolving Tank	MACT MM	Quarterly

Emissions Source	Reporting Requirement	Frequency
(EPN 4)		
Bark Boiler (EPN 2)	Chapter 117/ NSPS Db/NSPS BB**/ Special Condition No. 53	Semi-annually <sup>†</sup> / Quarterly
No. 1 PFI Boiler Stack (EPN 2A)	Chapter 117/ Special Condition No. 53	Semi-annually <sup>†</sup> / Quarterly
LVHC System, HVLC System, Condensate Collection and Treatment Systems	MACT S	Semi-annually

\*This quarterly report is only required to be submitted to the TCEQ Beaumont Regional Office.

<sup>†</sup>The Mill may elect to report on a more frequent basis.

\*\*For control of TRS emissions from the Chemi-Washer, Chemi-Washer Filtrate Tank, Chemi-Washer NCG Condensate Collection Tank.

For purposes of quarterly reporting required for this permit, excess emissions and conditions shall be: **(04/13)**

- A. Each rolling 30-day period, as recorded by the CEMS during which the average NO<sub>x</sub> emissions for Power Boiler No. 3 (EPN 99) exceed the 0.05 lb/MMBtu limit specified in Special Condition No. 24. **(04/13)**
- B. Each one-hour period during which the average NO<sub>x</sub> emissions for Power Boiler No. 3 (EPN 99), as recorded by the CEMS, exceeds the 41 ppmvd concentration limit stated in Special Condition No. 24 and each one-hour period during which the calculated hourly emissions (lbs/hr) exceed the permit allowables stated in the MAERT. When the CEMS is unable to provide valid hourly emissions, excess emissions are any predicted emissions calculated in Special Condition No. 34 that exceed Special Condition No. 24. **(04/13)**
- C. Any FGR value recorded during CEMS downtime for Power Boiler No. 3 (EPN 99) for a one-hour period that falls outside the range determined during the initial compliance test pursuant to Special Condition No. 28A. **(04/13)**
- D. Any fuel monitoring, mandated by Special Condition No. 33 for the No. 1 PFI Boiler (EPN 2A), Bark Boiler (EPN 2), and Power Boiler No. 3 (EPN 99) with fuel sulfur content exceeding the sulfur and/or the H<sub>2</sub>S limits specified in Special Condition Nos. 3, 4, 5, and 6. **(10/04)**
- E. Each rolling 30-day period, as recorded by the CEMS of the Bark Boiler (EPN 2), during which the average NO<sub>x</sub> emissions exceed the 0.166 lb/MMBtu limit specified in Special Condition No. 25. **(04/13)**

54. Records shall be maintained on the monthly venting times for both the Switching and Non-Switching NCG system for a rolling 60-month period. These records shall be made available upon request from TCEQ Beaumont Regional Office personnel, or any air pollution control agency having jurisdiction. **(02/11)**

55. Any unauthorized emissions release shall comply with the reporting and recordkeeping requirements included in 30 TAC 101.201 and 101.211.

As long as excess emissions and conditions have not occurred, reporting shall consist only of an annual letter to the TCEQ Beaumont Regional Office stating that no such conditions have occurred. **(05/06)**

56. Failure to comply with any testing, monitoring, recordkeeping, and reporting requirements of this permit shall constitute a violation of this permit. **(04/13)**

Date: September 7, 2015

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 9654A, PSDTX833M3, and N60M2

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 (14)	
			lbs/hour	TPY (4)
1A*	No. 1 Recovery Furnace ESP Stack	VOC(6)	19.60	85.84
		NO <sub>x</sub>	88.71	337.53
		SO <sub>2</sub>	408.58	1566.62
		PM(7)	59.62	261.15
		PM <sub>10</sub> (8)	43.03	188.46
		PM <sub>2.5</sub> (8)	39.42	172.68
		CO	266.61	1167.76
		TRS(6)	16.78	73.49
		HAPS	19.23	82.88
		H <sub>2</sub> SO <sub>4</sub>	0.67	2.93
1B*	No. 2 Recovery Furnace ESP Stack	VOC(6)	19.60	85.84
		NO <sub>x</sub>	88.71	337.53
		SO <sub>2</sub>	408.58	1566.62
		PM(7)	59.62	261.15
		PM <sub>10</sub> (8)	43.03	188.46
		PM <sub>2.5</sub> (8)	39.42	172.68
		CO	266.61	1167.76
		TRS(6)	16.78	73.49
		HAPS	19.23	82.88
		H <sub>2</sub> SO <sub>4</sub>	0.67	2.93

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
2**	Bark Boiler Scrubber Stack	VOC(6)	11.15	41.70
		NO <sub>x</sub>	108.62	406.12
		SO <sub>2</sub>	7.44	32.22
		PM(7)	55.76	208.49
		PM <sub>10</sub> (9)	55.76	208.49
		PM <sub>2.5</sub> (9)	55.76	208.49
		CO	262.40	981.12
		TRS(6)	0.06	0.23
		H <sub>2</sub> SO <sub>4</sub>	0.53	1.93
		NH <sub>3</sub>	16.19	70.93
2A	No. 1 PFI Boiler Stack	VOC(6)	1.63	7.13
		NO <sub>x</sub>	45.30	198.41
		SO <sub>2</sub>	0.79	0.93
		PM	2.25	10.06
		PM <sub>10</sub>	2.25	10.06
		PM <sub>2.5</sub>	2.25	10.06
		CO	70.00	306.60
3#	No. 1 Dissolving Tank Scrubber Stack	VOC(6)	0.83	3.64
		NO <sub>x</sub>	1.15	5.06
		SO <sub>2</sub>	0.29	1.26
		PM(7)	11.54	50.55
		PM <sub>10</sub> (9)	10.36	45.40
		PM <sub>2.5</sub> (9)	10.36	45.40

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
		CO	0.46	2.02
		TRS(6)	0.35	1.52
		NH <sub>3</sub>	0.82	3.59
4#	No. 2 Dissolving Tank Scrubber Stack	VOC(6)	0.83	3.64
		NO <sub>x</sub>	1.15	5.06
		SO <sub>2</sub>	0.29	1.26
		PM(7)	11.54	50.55
		PM <sub>10</sub> (9)	10.36	45.40
		PM <sub>2.5</sub> (9)	10.36	45.40
		CO	0.46	2.02
		TRS(6)	0.35	1.52
		NH <sub>3</sub>	0.82	3.59
9	Lime Silo Scrubber Stack	PM	0.53	0.68
		PM <sub>10</sub>	0.53	0.68
		PM <sub>2.5</sub>	0.53	0.68
10	No. 1 Slaker Scrubber Stack <sup>A1</sup>	VOC(6)	0.01	0.01
		PM(7)	0.34	1.49
		PM <sub>10</sub> (9)	0.34	1.49
		PM <sub>2.5</sub> (9)	0.34	1.49
		TRS(6)	0.01	0.01
		NH <sub>3</sub>	7.53	12.19
11***	Lime Kiln Scrubber Stack	VOC(6)	1.01	3.36
		NO <sub>x</sub>	43.09	147.77

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
		SO <sub>2</sub>	7.00	24.24
		PM(7)	31.58	104.78
		PM <sub>10</sub> (9)	27.28	90.53
		PM <sub>2.5</sub> (9)	27.28	90.53
		CO	2.99	9.92
		TRS(6)	6.11	20.28
		H <sub>2</sub> SO <sub>4</sub>	0.46	1.53
13	No. 2 Slaker Scrubber Stack <sup>A1</sup>	VOC(6)	0.01	0.01
		PM(7)	0.34	1.49
		PM <sub>10</sub> (9)	0.34	1.49
		PM <sub>2.5</sub> (9)	0.34	1.49
		TRS(6)	0.01	0.01
		NH <sub>3</sub>	7.35	12.19
16/17	Brown Stock Washers A and B <sup>B1</sup>	VOC(6)	19.66	7.86
		TRS(6)	0.39	0.16
27	Brine Storage Tank	VOC(6)	<0.01	<0.01
		TRS(6)	<0.01	<0.01
30	No. 1 Tall Oil Storage Tank <sup>A2</sup>	VOC(6)	0.21	0.05
		TRS(6)	0.02	0.01
31	No. 2 Tall Oil Storage Tank <sup>A2</sup>	VOC(6)	0.21	0.05
		TRS(6)	0.02	0.01
32	Turpentine Storage Tank <sup>B2</sup>	VOC(6)	0.03	0.12

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
36	No. 5 White Liquor Tank Vent <sup>A3</sup>	VOC(6)	0.25	1.10
		TRS(6)	0.59	2.60
39##	South Mud Tank	---	---	---
40##	North Mud Tank	---	---	---
41	No. 3 Green Liquor Clarifier	VOC(6)	<0.01	0.01
		TRS(6)	0.02	0.06
43##	Weak Wash Storage Tank	---	---	---
44##	Scrubber Water Clarifier	---	---	---
45	No. 1 White Liquor Storage Tank <sup>A3</sup>	VOC(6)	0.25	1.10
		TRS(6)	0.59	2.60
46	No. 2 White Liquor Storage Tank <sup>A3</sup>	VOC(6)	0.25	1.10
		TRS(6)	0.59	2.60
47	No. 1 Green Liquor Storage Tank <sup>A5</sup>	VOC(6)	0.02	0.08
		TRS(6)	0.09	0.40
49	No. 2 Green Liquor Clarifier	VOC(6)	<0.01	0.01
		TRS(6)	0.02	0.06
50	Green Liquor Equalization Tank	VOC(6)	<0.01	<0.01
		TRS(6)	<0.01	<0.01
51	No. 3 Green Liquor Storage Tank <sup>A5</sup>	VOC(6)	0.02	0.08
		TRS(6)	0.09	0.40
56	"A" Blend Tank <sup>A4,B3</sup>	VOC(6)	0.08	0.28
		TRS(6)	0.01	0.03
57	"B" Blend Tank <sup>A4,B3</sup>	VOC(6)	0.03	0.12

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
		TRS(6)	<0.01	0.01
58	Reject Tank <sup>B3</sup>	VOC(6)	0.10	0.11
		TRS(6)	<0.01	<0.01
61	"A" High Density Storage Tank <sup>A6</sup>	VOC(6)	0.33	1.43
		TRS(6)	0.21	0.93
62	"B" High Density Storage Tank <sup>A6</sup>	VOC(6)	0.33	1.43
		TRS(6)	0.21	0.93
63	No. 1 Weak Black Liquor Storage Tank	VOC(6)	0.35	1.55
		TRS(6)	0.10	0.44
64	No. 2 Weak Black Liquor Storage Tank	VOC(6)	0.35	1.55
		TRS(6)	0.10	0.44
65	Black Liquor Swing Tank	VOC(6)	0.35	1.55
		TRS(6)	0.24	1.04
66	No. 1 Heavy Black Liquor Storage Tank	VOC(6)	0.04	0.16
		TRS(6)	0.17	0.74
67	No. 2 Heavy Black Liquor Storage Tank	VOC(6)	0.04	0.16
		TRS(6)	0.17	0.74
68	Boilout Tank	VOC(6)	0.35	1.55
		TRS(6)	0.24	1.03
72	Gasoline Tank	VOC	---	0.30
80	Wood Yard (5)	PM	7.17	16.33
		PM <sub>10</sub>	2.89	6.69
		PM <sub>2.5</sub>	<0.01	0.02

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
81	Truck Traffic Fugitives (5)	PM	---	123.69
		PM <sub>10</sub>	---	34.37
		PM <sub>2.5</sub>	---	3.44
88	No. 1 Causticizer	TRS(6)	1.30	4.31
		NH <sub>3</sub>	4.47	14.82
89	No. 2 Causticizer	TRS(6)	1.30	4.31
		NH <sub>3</sub>	4.47	14.82
90	No. 3 Causticizer	TRS(6)	1.30	4.31
		NH <sub>3</sub>	4.47	14.82
91	No. 4 Causticizer	TRS(6)	1.30	4.31
		NH <sub>3</sub>	4.47	14.82
92	No. 5 Causticizer	TRS(6)	1.30	4.31
		NH <sub>3</sub>	4.47	14.82
93 - 98	Wastewater Collection and Treatment (5)	VOC(6)	26.45	96.54
		TRS(6)	3.64	13.30
99**	Power Boiler No. 3 Stack	VOC(10)	2.54	9.95
		NO <sub>x</sub>	21.00	91.98
		SO <sub>2</sub>	1.59	1.44
		PM	3.13	13.71
		PM <sub>10</sub>	3.13	13.71
		PM <sub>2.5</sub>	3.13	13.71
		CO	37.80	165.56
100	Chemi-Washer (5) <sup>B5</sup>	VOC(6)	0.01	0.04

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
		TRS(6)	<0.01	0.02
101 – 130, 132 - 158 167 - 172, 174 – 175 (11)	Nos. 1 & 2 Linerboard Machines <sup>B5</sup>	VOC(6)	27.66	88.84
		TRS(6)	0.42	1.55
159 – 166, 173 (12)	Secondary Fiber System	VOC(6)	0.34	1.24
192##	Lime Kiln Precoat Filter	---	---	---
193##	Precoat Mud Filter Vacuum Pump West	---	---	---
194##	Precoat Mud Filter Vacuum Pump East	---	---	---
205	No. 4 White Liquor Storage Tank <sup>A3</sup>	VOC(6)	0.25	1.10
		TRS(6)	0.59	2.60
210	West Black Liquor Storage Tank	VOC(6)	0.35	1.55
		TRS(6)	0.24	1.03
211	Center Black Liquor Storage Tank	VOC(6)	0.35	1.55
		TRS(6)	0.24	1.03
212	East Black Liquor Storage Tank	VOC(6)	0.35	1.55
		TRS(6)	0.24	1.03
213##	Eco-Filter White Liquor Feed tank	---	---	---
214##	White Liquor Eco- Filter	---	---	---
215##	Eco-Filter White Liquor Standpipe	---	---	---
216##	Eco-Filter Lime Mud Dilution Tank	---	---	---
217##	Eco-Filter Mud Washer	---	---	---

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
218##	Eco-Filter Weak Wash Standpipe	---	---	---
221	No. 2 Dry Bottom Mix Tank	VOC(6)	0.46	2.00
		SO <sub>2</sub>	0.07	0.32
		TRS(6)	0.61	2.68
222	No. 1 Dry Bottom Mix Tank	VOC(6)	0.46	2.00
		SO <sub>2</sub>	0.07	0.32
		TRS(6)	0.61	2.68
224	Lime Mud Reclaim System (5)	PM	0.02	0.05
		PM <sub>10</sub>	0.01	0.03
		PM <sub>2.5</sub>	<0.01	<0.01
225	No. 2 Fuel Oil Tank	VOC	----	0.01
232##	Green Liquor Dregs Filter and Vacuum Pump	---	---	---
235	Liquor Loading (5)	VOC(6)	1.04	3.64
275	Clean Condensate Collection Tank	VOC(6)	0.01	<0.01
278	Turpentine Loading (5)	VOC(6)	0.27	0.10
279	Fuel Oil Day Tank	VOC	0.07	0.01
280	Fuel Oil Storage Tank	VOC	0.07	0.04
281	Pet Coke Silo Stack	PM	0.26	1.13
		PM <sub>10</sub>	0.26	1.13
		PM <sub>2.5</sub>	0.26	1.13
282	Bark Boiler Ash Bin	PM	0.26	1.13
		PM <sub>10</sub>	0.26	1.13

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (14)	
			lbs/hour	TPY (4)
		PM <sub>2.5</sub>	0.26	1.13
283	Cooling Tower No. 1	VOC(6)	0.98	4.30
284	Cooling Tower No. 2	VOC(6)	0.09	0.38
286	Caustic Solution Tank			
		NaSH/Na <sub>2</sub> S###	0.04	0.04
NCG-FUG1	Switching LVHC and HVLC NCG Venting For Bypass and Preventative Maintenance (5)(13)	VOC	145.00	0.25
		TRS	0.06	<0.01
		Acetone	2.40	0.02
P-VBURNER	Propane Vaporizer Burner	VOC(6)	0.16	0.04
		NO <sub>x</sub>	2.56	0.67
		SO <sub>2</sub>	0.10	0.03
		PM	0.14	0.04
		PM <sub>10</sub>	0.14	0.04
		PM <sub>2.5</sub>	0.14	0.04
		CO	1.47	0.38

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
 PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
 PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
 CO - carbon monoxide  
 H<sub>2</sub>SO<sub>4</sub> - sulfuric acid  
 TRS - total reduced sulfide  
 HAP - hazardous air pollutants as listed in § 112(b) of the Federal Clean Act or Title 40 Code of Federal regulations Part 63, Subpart C

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- NH<sub>3</sub> - ammonia
- NaSH - sodium hydrosulfide
- Na<sub>2</sub>S - sodium sulfide

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) VOC and TRS are represented as carbon and H<sub>2</sub>S, respectively, unless otherwise indicated.
- (7) PM includes filterable and condensable PM, and compliance will be determined based on the sum of Method 5 and Method 202 (revised 12/1/2010).
- (8) PM<sub>10</sub> and PM<sub>2.5</sub> include filterable and condensable PM<sub>10</sub> and PM<sub>2.5</sub>, respectively, and compliance will be determined based on the sum of Method 201A (revised 12/1/2010) and Method 202 (revised 12/1/2010).
- (9) PM<sub>10</sub> and PM<sub>2.5</sub> include filterable and condensable PM<sub>10</sub> and PM<sub>2.5</sub>, respectively, and compliance will be determined based on the sum of Method 5 and Method 202 (Revised 12/1/2010) until such time that the EPA methods are revised to account for particle size distribution data for wet sources.
- (10) VOC is represented as carbon
- (11) Includes PM1 False Ceiling Exhaust Fan (EPN 167), PM1 Roof Exhaust (EPN 168), PM1 Cleaner Exhaust Southeast (EPN 174), PM1 Cleaner Exhaust Southwest (EPN 175), PM2 Roof Exhausts (EPNs 169, 171, and 175), PM2 5<sup>th</sup> Section Hood Exhaust Fan (EPN 172), PM Base Sheet Low Density Tank, No. 1 and No. 2 Paper Machine Base Sheet Secondary, PM TS Low Density Chest, Strained White Water Chest Strainers, White Top High Density Storage Chest, Excess White Water Storage Chest, and No. 2 Paper Machine Fourdrinier Low Vacuum Seal Tank.
- (12) Includes SFS Exhaust Fan North (EPN 173), Secondary Fiber Surge Chest, Secondary Fiber Screen Stock Tank, Secondary Fiber Rejects Tank, Secondary Fiber Rejects Tank East, Secondary Fiber White Water Chest North, MD Storage Chest Secondary Fiber, Secondary Fiber Wax Tank, and Feed Tank for Combisorter.
- (13) Emissions resulting from re-routing non-condensable gases between combustion sources [Lime Kiln (EPN 11) and Bark Boiler (EPN 2)].
- (14) Planned startup and shutdown emissions are included, as well as planned maintenance activities identified as part of the permit alteration issued on April 25, 2013.
- A1 = For determination of compliance, the annual emissions should be summed for the No. 1 Slaker (EPN 10) and No. 2 Slaker (EPN 13).
- B1-B6 = Hourly emission rates based on 24-hour averaging time.
- A2 = For determination of compliance, the annual emissions should be summed for the No. 1 Tall Oil Storage Tank (EPN 30) and the No. 2 Tall Oil Storage Tank (EPN 31).
- A3 = For determination of compliance, the annual emissions should be summed for the Nos. 1, 2, 4, and 5 White Liquor Storage Tanks (EPNs 36, 45, 46, and 205).
- A4 = For determination of compliance, the annual emissions should be summed for the "A" Blend Tank (EPN 56) and the "B" Blend Tank (EPN 57).
- A5 = For determination of compliance, the annual emissions should be summed for the No. 1 Green Liquor Storage Tank (EPN 47) and the No. 2 Green Liquor Storage Tank (EPN 51).
- A6 = For determination of compliance, the annual emissions should be summed for the "A" High Density Storage Tank (EPN 61) and the "B" High Density Storage Tank (EPN 62).
- \* Compliance with TRS and SO<sub>2</sub> short-term emission rates is based on a 12-hour block average. Short-term emission rates for all other pollutants are based on a 24-hour rolling average.
- \*\* Compliance with CO and NO<sub>x</sub> short-term emission rates is based on a 30-day rolling average. Compliance with NH<sub>3</sub> short-term emission rate is based on a 3-hour average. Short-term emission rates for all other pollutants are based on a 24-hour rolling average.
- \*\*\* Compliance with CO and NO<sub>x</sub> short-term emission rate is based on a 30-day rolling average. Compliance

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

with TRS short-term emission rate is based on a 12-hour block average. Short-term emission rates for all other pollutants are based on a 24-hour rolling average.

# Compliance with PM, PM<sub>10</sub>, and PM<sub>2.5</sub> short-term emission rate is based on a 3-hour average.

## This piece of equipment is authorized by the permit and is no longer considered a source of emissions.

### Emissions conservatively assumed to be 100 percent NaSH or 100 percent Na<sub>2</sub>S.

Date: May 6, 2013