FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
West Fraser Wood Products

AUTHORIZING THE OPERATION OF
New Boston Lumber Mill
Sawmills

LOCATED AT
Bowie County, Texas
Latitude 33° 27′ 57″ Longitude 94° 23′ 6″
Regulated Entity Number: RN102248606

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: O1585 Issuance Date: _____

_____
For the Commission

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General Terms and Conditions

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

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

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

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

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

Special Terms and Conditions:

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

1. Permit holder shall comply with the following requirements:

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

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

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

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

E. Emission units subject to 40 CFR Part 63, Subpart DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1130 which incorporates the 40 CFR Part 63 Subpart by reference.

F. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.

G. Emission units subject to 40 CFR Part 63, Subpart DDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.870 which incorporates the 40 CFR Part 63 Subpart by reference.

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

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

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

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

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

(v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(ii) Title 30 TAC § 111.111(a)(1)(E)

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

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

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

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

(3) Records of all observations shall be maintained.

(4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear

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

(5) Compliance Certification:

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

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

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

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

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

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

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

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

(2) Records of all observations shall be maintained.

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

(4) Compliance Certification:

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

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

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

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

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

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

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

(2) Records of all observations shall be maintained.

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

(4) Compliance Certification:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

Additional Monitoring Requirements

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

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

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

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

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

   E. The permit holder shall comply with 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. 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.

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

instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

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

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

   B. Shall be located with this operating permit

   C. Are not eligible for a permit shield

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

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

Compliance Requirements

11. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.

12. 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

13. 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.

Alternative Requirements

14. 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 TCEQ Executive Director, demonstrating the method or limitation utilized. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.

Permit Location

15. 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)

16. 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 **14**

Applicable Requirements Summary **15**

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
BOILER-1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
BOILER-1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
BOILER-1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
CKILN-1	PLYWOOD AND COMPOSITE WOOD PRODUCTS	N/A	63DDDD-01	40 CFR Part 63, Subpart DDDD	No changing attributes.
CKILN-2	PLYWOOD AND COMPOSITE WOOD PRODUCTS	N/A	63DDDD-01	40 CFR Part 63, Subpart DDDD	No changing attributes.
DFKILN-3	PLYWOOD AND COMPOSITE WOOD PRODUCTS	N/A	63DDDD-01	40 CFR Part 63, Subpart DDDD	No changing attributes.
FIRE1	SRIC ENGINES	N/A	63ZZZZ-01	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FIRE2	SRIC ENGINES	N/A	63ZZZZ-01	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
KNUCKLEBM	SRIC ENGINES	N/A	63ZZZZ-01	40 CFR Part 63, Subpart ZZZZ	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER-1	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
BOILER-1	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
BOILER-1	EU	63DDDDD-1	CO	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 2.13.a|1 § 63.7500(a)(1) § 63.7500(a)(1)-Table 3.3 [G]§ 63.7500(a)(1)-Table 3.5 § 63.7500(a)(1)-Table 3.6 § 63.7500(a)(2) § 63.7500(a)(2)-Table 4.7 § 63.7500(a)(2)-Table 4.8 § 63.7500(a)(3) § 63.7500(f) § 63.7505(a) § 63.7505(d) [G]§ 63.7505(d)(1) § 63.7505(e)	Hybrid suspension grate units designed to burn biomass/bio-based solid: 3,500 ppm by volume on a dry basis corrected to 3 percent oxygen, 3-run average; or (900 ppm by volume on a dry basis corrected to 3 percent oxygen, 30-day rolling average).	§ 63.7505(c) § 63.7505(d) [G]§ 63.7505(d)(1) [G]§ 63.7505(d)(2) § 63.7505(d)(3) § 63.7505(d)(4) § 63.7510(a) § 63.7510(a)(1) [G]§ 63.7510(a)(2) § 63.7510(c) § 63.7510(e) § 63.7510(i) § 63.7510(j) § 63.7510(k) § 63.7515(a) § 63.7515(b) § 63.7515(c) § 63.7515(g) § 63.7520(a) § 63.7520(b)	§ 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(c) § 63.7555(d) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7515(f) § 63.7530(e) § 63.7530(f) § 63.7540(b) § 63.7540(d) § 63.7545(a) § 63.7545(b) § 63.7545(c) § 63.7545(d) § 63.7545(e) [G]§ 63.7545(h) § 63.7550(a) § 63.7550(b) § 63.7550(c) [G]§ 63.7550(d) [G]§ 63.7550(e) § 63.7550(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.7530(h) § 63.7540(a) § 63.7540(a)(1) § 63.7540(a)(10) § 63.7540(a)(13) § 63.7540(d)		[G]§ 63.7520(b)-Table 5.5 § 63.7520(c) § 63.7520(d) § 63.7520(f) § 63.7525(a) § 63.7530(a) § 63.7530(b) § 63.7530(b)(4) § 63.7530(b)(4)(viii) § 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7540(a) § 63.7540(a)(1) § 63.7540(a)(10)		
BOILER-1	EU	63DDDDD-1	Hydrogen Chloride	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 2.1.a § 63.7500(a)(1) § 63.7500(a)(1)-Table 3.3 [G]§ 63.7500(a)(1)-Table 3.5 § 63.7500(a)(1)-Table 3.6 § 63.7500(a)(2) § 63.7500(a)(2)-Table 4.7 § 63.7500(a)(3) § 63.7500(f) § 63.7505(a) § 63.7505(d) [G]§ 63.7505(d)(1) § 63.7505(e) § 63.7530(h) § 63.7540(a) § 63.7540(a)(1) § 63.7540(a)(10)	For existing units in all subcategories with heat input capacity of 10 million Btu per hour or greater designed to burn solid fuel, hydrogen chloride shall not exceed 0.022 lb per MMBtu heat input, using specified sampling volume or test run duration.	§ 63.7505(c) § 63.7505(d) [G]§ 63.7505(d)(1) [G]§ 63.7505(d)(2) § 63.7505(d)(3) § 63.7505(d)(4) § 63.7510(a) § 63.7510(a)(1) [G]§ 63.7510(a)(2) § 63.7510(e) § 63.7510(i) § 63.7510(j) § 63.7510(k) § 63.7515(a) § 63.7515(b) § 63.7515(c) § 63.7515(g) § 63.7520(a) § 63.7520(b) [G]§ 63.7520(b)-Table 5.3 § 63.7520(c)	§ 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7540(a)(2) § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) [G]§ 63.7555(b) § 63.7555(c) § 63.7555(d) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7515(f) § 63.7530(e) § 63.7530(f) § 63.7540(b) § 63.7540(d) § 63.7545(a) § 63.7545(b) § 63.7545(c) § 63.7545(d) § 63.7545(e) [G]§ 63.7545(h) § 63.7550(a) § 63.7550(b) § 63.7550(c) [G]§ 63.7550(d) [G]§ 63.7550(e) § 63.7550(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.7540(a)(13) § 63.7540(a)(4) § 63.7540(d)		§ 63.7520(d) § 63.7520(e) § 63.7520(f) § 63.7521(a) § 63.7521(b) § 63.7521(c) [G]§ 63.7521(d) § 63.7521(e) § 63.7530(a) § 63.7530(b) [G]§ 63.7530(b)(1) § 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7540(a) § 63.7540(a)(1) § 63.7540(a)(10) § 63.7540(a)(4)		
BOILER-1	EU	63DDDDD-1	Mercury	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 2.1.b § 63.7500(a)(1) § 63.7500(a)(1)-Table 3.3 [G]§ 63.7500(a)(1)-Table 3.5 § 63.7500(a)(1)-Table 3.6 § 63.7500(a)(2) § 63.7500(a)(2)-Table 4.7 § 63.7500(a)(3) § 63.7500(f) § 63.7505(a) § 63.7505(d) [G]§ 63.7505(d)(1) § 63.7505(e) § 63.7530(h) § 63.7540(a)	For existing units in all subcategories with heat input capacity of 10 million Btu per hour or greater designed to burn solid fuel, mercury shall not exceed 0.0000057 lb per MMBtu heat input, using specified sampling volume or test run duration.	§ 63.7505(c) § 63.7505(d) [G]§ 63.7505(d)(1) [G]§ 63.7505(d)(2) § 63.7505(d)(3) § 63.7505(d)(4) § 63.7510(a) § 63.7510(a)(1) [G]§ 63.7510(a)(2) § 63.7510(e) § 63.7510(i) § 63.7510(j) § 63.7510(k) § 63.7515(a) § 63.7515(b) § 63.7515(c) § 63.7515(g) § 63.7520(a) § 63.7520(b) [G]§ 63.7520(b)-	§ 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7540(a)(2) § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) [G]§ 63.7555(b) § 63.7555(c) § 63.7555(d) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7515(f) § 63.7530(e) § 63.7530(f) § 63.7540(b) § 63.7540(d) § 63.7545(a) § 63.7545(b) § 63.7545(c) § 63.7545(d) § 63.7545(e) [G]§ 63.7545(h) § 63.7550(a) § 63.7550(b) § 63.7550(c) [G]§ 63.7550(d) [G]§ 63.7550(e) § 63.7550(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.7540(a)(1) § 63.7540(a)(10) § 63.7540(a)(13) § 63.7540(a)(6) § 63.7540(d)		Table 5.4 § 63.7520(c) § 63.7520(d) § 63.7520(e) § 63.7520(f) § 63.7521(a) § 63.7521(b) § 63.7521(c) [G]§ 63.7521(d) § 63.7521(e) § 63.7530(a) § 63.7530(b) § 63.7530(b)(2) § 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7540(a) § 63.7540(a)(1) § 63.7540(a)(10) § 63.7540(a)(6)		
BOILER-1	EU	63DDDDD-1	PM	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 2.13.b § 63.7500(a)(1) § 63.7500(a)(1)-Table 3.3 [G]§ 63.7500(a)(1)-Table 3.5 § 63.7500(a)(1)-Table 3.6 § 63.7500(a)(2) § 63.7500(a)(2)-Table 4.1 § 63.7500(a)(2)-Table 4.7 § 63.7500(a)(3) § 63.7500(f) § 63.7505(a) § 63.7505(d)	For existing hybrid suspension grate units with heat input capacity of 10 million Btu per hour or greater designed to burn biomass/bio-based solids, filterable particulate matter shall not exceed 0.44 lb per MMBtu heat input, using specified sampling volume or test run duration.	§ 63.7505(c) § 63.7505(d) [G]§ 63.7505(d)(1) [G]§ 63.7505(d)(2) § 63.7505(d)(3) § 63.7505(d)(4) § 63.7510(a)(1) [G]§ 63.7510(a)(2) § 63.7510(d) § 63.7510(e) § 63.7510(i) § 63.7510(j) § 63.7510(k) § 63.7515(a) § 63.7515(b) § 63.7515(c) § 63.7515(g) § 63.7520(a)	§ 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) [G]§ 63.7555(b) § 63.7555(c) § 63.7555(d) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7515(f) § 63.7530(e) § 63.7530(f) § 63.7540(b) § 63.7540(d) § 63.7545(a) § 63.7545(b) § 63.7545(c) § 63.7545(d) § 63.7545(e) [G]§ 63.7545(h) § 63.7550(a) § 63.7550(b) § 63.7550(c) [G]§ 63.7550(d) [G]§ 63.7550(e) § 63.7550(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 63.7505(d)(1) § 63.7505(e) § 63.7530(h) § 63.7540(a) § 63.7540(a)(1) § 63.7540(a)(10) § 63.7540(a)(13) § 63.7540(d)		§ 63.7520(b) § 63.7520(b)-Table 5.1 § 63.7520(c) § 63.7520(d) § 63.7520(e) § 63.7520(f) § 63.7525(d) § 63.7525(e) § 63.7525(f) § 63.7530(a) § 63.7530(b) § 63.7530(b)(4) § 63.7530(b)(4)(iii) § 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7540(a) § 63.7540(a)(1) § 63.7540(a)(10)		
CKILN-1	EU	63DDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDD	§ 63.2231 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDD
CKILN-2	EU	63DDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDD	§ 63.2231 The permit holder shall comply with the applicable limitation, standard and/or equipment specification	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63,	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDD

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)
					requirements of 40 CFR Part 63, Subpart DDDD		Subpart DDDD		
DFKILN-3	EU	63DDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDD	§ 63.2231 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDD
FIRE1	EU	63ZZZZ-01	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
FIRE2	EU	63ZZZZ-01	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
KNUCKLEBM	EU	63ZZZZ-01	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)	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	§ 63.6625(i) § 63.6655(e) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Additional Monitoring Requirements

Compliance Assurance Monitoring Summary **23**

Periodic Monitoring Summary **25**

CAM Summary

Unit/Group/Process Information	
ID No.: BOILER-1	
Control Device ID No.: STK1	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Pressure Drop	
Minimum Frequency: once per day	
Averaging Period: N/A	
Deviation Limit: Minimum scrubber pressure drop = 5 in. H2O	
CAM Text: 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: ± 1 inch water gauge pressure (± 250 pascals); or ± 2% of span.	

CAM Summary

Unit/Group/Process Information	
ID No.: BOILER-1	
Control Device ID No.: STK1	Control Device Type: Wet scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Liquid Supply Pressure	
Minimum Frequency: once per day	
Averaging Period: N/A	
Deviation Limit: Minimum liquid supply pressure/water pump pressure = 8 psig.	
CAM Text: 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: ± 5% of span; or ± 5% of design liquid supply pressure.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BOILER-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Opacity shall not exceed 20%.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Permit Shield

Permit Shield **27**

Permit Shield

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

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
BOILER-1	N/A	40 CFR Part 60, Subpart Dc	The construction or modification of this boiler was not commenced after June 9, 1989.
DIESEL	N/A	40 CFR Part 60, Subpart Kb	The capacity for this tank is less than 75 m3.
DIESELLOAD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Loading and unloading occurs in Bowie County.
FIRE1	N/A	40 CFR Part 60, Subpart IIII	Engine is a stationary compression ignition internal combustion engine that commenced construction before July 11, 2005 and has not been modified or reconstructed later than July 11, 2005.
FIRE2	N/A	40 CFR Part 60, Subpart IIII	Engine is a stationary compression ignition internal combustion engine that commenced construction before July 11, 2005 and has not been modified or reconstructed later than July 11, 2005.
GASFD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Motor vehicle fuel dispensing facility is in a covered attainment county.
KNUCKLEBM	N/A	40 CFR Part 60, Subpart IIII	Engine is a stationary compression ignition internal combustion engine that commenced construction before July 11, 2005 and has not been modified or reconstructed later than July 11, 2005.
MISCLOAD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Loading and unloading occurs in Bowie County.
OILLOAD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Loading and unloading occurs in Bowie County

New Source Review Authorization References

New Source Review Authorization References 29

New Source Review Authorization References by Emission Unit 30

New Source Review Authorization References

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

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX892M2	Issuance Date: 07/29/2021
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 7286	Issuance Date: 07/29/2021
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 61	Version No./Date: 03/15/1985
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.265	Version No./Date: 03/14/1997
Number: 106.311	Version No./Date: 09/04/2000
Number: 106.392	Version No./Date: 09/04/2000
Number: 106.412	Version No./Date: 03/14/1997
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001
Number: 106.532	Version No./Date: 09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units 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**
BOILER-1	BARK BOILER	7286, PSDTX892M2
BOILER-1	BARK BOILER SCRUBBER STACK	7286, PSDTX892M2
CKILN-1	CONTINUOUS WOOD DRYING KILN NO. 1	7286, PSDTX892M2
CKILN-2	CONTINUOUS WOOD DRYING KILN NO. 2	7286, PSDTX892M2
DFKILN-3	DIRECT FIRED WOOD DRYING KILN NO. 3	7286, PSDTX892M2
DIESEL	DIESEL FUEL STORAGE TANK	106.472/09/04/2000
DIESELLOAD	DIESEL UNLOADING	106.412/03/14/1997
FIRE1	FIREWATER PUMP DIESEL ENGINE 1	106.511/09/04/2000
FIRE2	FIREWATER PUMP DIESEL ENGINE 2	106.511/09/04/2000
GASFD	GASOLINE FUEL DISPENSING	106.412/03/14/1997
KNUCKLEBM	KNUCKLEBOOM ENGINE	106.512/06/13/2001
MISCLOAD	MISCELLANEOUS VOC LOADING	106.472/09/04/2000
OILLOAD	OIL UNLOADING	106.472/09/04/2000

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

Alternative Requirement

Alternative Requirement..... 31

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 8, 2015

MR CHARLES MANESS
PLANT MANAGER
WEST FRASER WOOD PRODUCTS
NEW BOSTON MILL
P.O.BOX 578
NEW BOSTON, TX 75570

Re: Alternate Means of Compliance (AMOC) Project #33
Extension of Compliance Deadline for Boiler-1
Regulated Entity Number: 102248606
Customer Reference Number: 604734327
Affected Permits: 7286, PSDTX892M1, & O-1585

Dear Mr. Maness:

This correspondence is in response to West Fraser Wood Products (WFWP) compliance extension request dated September 21, 2015 for Boiler-1. This boiler is subject to Title 40 Code of Federal Regulations Part 63 (40 CFR 63) Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial/ Commercial/ Institutional Boilers and Process Heaters (commonly known as the Boiler MACT). We understand that WFWP is requesting a 1-year compliance extension for all emission limits, work practices, monitoring, record-keeping, performance testing, and reporting under the Boiler MACT.

The Texas Commission on Environmental Quality (TCEQ) Executive Director has made a final decision to approve your compliance extension request and schedule as represented:

Milestone Description	Date
Purchase, Fabricate, Deliver Equipment and Materials	October 2015 to September 2016
Installation during scheduled boiler outages	March 2016 to October 2016
Troubleshooting and Acceptance Testing	March 2016 to October 2016
Performance Testing	December 2016 to January 2017
Final Compliance	January 31, 2017

We request that WFWP submit written, quarterly updates to the TCEQ Tyler Regional Office regarding the progress of the above actions. These updates should include details on equipment design, delivery, installation, training, initial operation, and performance testing, with the first update due on March 31, 2016.

The TCEQ has been delegated authority to enforce the above cited standards in 40 CFR 63. The initial compliance demonstrations are delayed for 1 year beyond the date specified in §63.7495(b) or January 31, 2017. If, before that date, EPA takes final action to revise the Boiler MACT standard as applicable to biomass hybrid suspension grate boilers, WFWP will be required to comply with the revised standards following any and all applicable deadlines. If EPA has not completed their reconsideration of the Boiler MACT by October 3, 2016 (or 120 days prior to the extension deadline approved by this letter), WFWP will need to submit a request for an additional extension.

This action may supersede certain requirements in Permit Nos. 7286 and PSDTX892M1. To ensure effective and consistent enforceability, we request that WFWP incorporate this action into the permits through alterations no later than 90 days after this extension approval.

This action also changes applicable requirements for the site and in accordance with §63.6(i)(4)(i)(A), WFWP must "apply to have the source's [T]itle V permit revised to incorporate the conditions of the extension of compliance ". The TCEQ recommends submittal of a complete SOP Administrative Revision for O-1585 as soon as possible. Changes meeting the criteria for an administrative revision can be operated or are effective before issuance of the revision if a complete revision application is submitted to the TCEQ and this information is maintained with the SOP records at the site.

It is important to note that under §63.7(h)(5), the granting of this extension does "not abrogate the Administrator's authority under the [Clean Air] Act or in any way prohibit the Administrator from later canceling the waiver". By copy of this letter, we are informing the U. S. Environmental Protection Agency (EPA), Region 6 of this decision.

This action is taken under authority delegated by the Executive Director of the TCEQ. If you have any questions, please call Anne Inman, P.E. at (512) 239-1276, 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.

Sincerely,

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

cc: Mr. Phillip House, Environmental Manager, West Fraser New Boston Mill
Mr. Mark Hansen, Acting Associate Director Air Programs, US EPA Region 6 (6PD-A)

Project Nos.: 244131

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

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

September 22, 2016

MR CHARLES MANESS
PLANT MANAGER
WEST FRASER WOOD PRODUCTS
NEW BOSTON MILL
P.O.BOX 578
NEW BOSTON, TX 75570

Re: Alternate Means of Compliance (AMOC) Project #33
Updated Extension of Compliance Deadline for Boiler-1
Regulated Entity Number: 102248606
Customer Reference Number: 604734327
Affected Permits: 7286, PSDTX892M1, and O1585

Dear Mr. Maness:

This correspondence is in response to West Fraser Wood Products (WFWP) compliance extension request dated August 17, 2016 for Boiler-1 at the New Boston Mill. This boiler is subject to Title 40 Code of Federal Regulations Part 63 (40 CFR 63) Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial/ Commercial/ Institutional Boilers and Process Heaters (commonly known as the Boiler MACT). Your correspondence requests an additional 180 days in addition to the previously granted 1-year compliance extension for all emission limits, work practices, monitoring, record-keeping, performance testing, and reporting under the Boiler MACT.

We understand that the instrumentation vendor with whom you contracted went out of business very late in your project timeline, and another vendor is needed. As discussed by EPA in the Boiler MACT preambles, due to the large number of affected sources throughout the country and delays in establishing final requirements, owners and operators have been experiencing difficulties retrofitting certain units, scheduling contractors, or obtaining equipment.

The Texas Commission on Environmental Quality (TCEQ) Executive Director has made a final decision to approve your compliance extension request and revised schedule. We request that WFWP submit written, quarterly updates to the TCEQ Tyler Regional Office regarding the progress of the above actions. These updates should include details on vendor contacts, equipment design, delivery, installation, training, initial operation, and performance testing, with the next update due September 30, 2016.

Milestone Description	Date
Purchase, Fabricate, Deliver Equipment	April 2016 - March 2017
Installation during scheduled boiler outages	September 2016 - April 2017
Troubleshooting and Acceptance Testing	September 2016 - April 2017
Performance Testing	June - July 2017
Final Compliance	July 30, 2017

The TCEQ has been delegated authority to enforce the above cited standards in 40 CFR 63. This action may supersede certain requirements in Permit Nos. 7286 and PSDTX892M1. To ensure effective and consistent enforceability, we request that WFWP incorporate this action into the permits through alterations no later than 90 days after this extension approval.

This action also changes applicable requirements for the site and in accordance with §63.6(i)(4)(i)(A), WFWP must "apply to have the source's title V permit revised to incorporate the conditions of the extension of compliance ". The TCEQ recommends submittal of a complete SOP Administrative Revision for O1585 as soon as possible. Changes meeting the criteria for an administrative revision can be operated or are effective before issuance of the revision if a complete revision application is submitted to the TCEQ and this information is maintained with the SOP records at the site.

It is important to note that the granting of this extension does not abrogate the Administrator's authority under Section 114 of the Clean Air Act. By copy of this letter, we are informing the U. S. Environmental Protection Agency (EPA), Region 6 of this decision.

This action is taken under authority delegated by the Executive Director of the TCEQ. If you have any questions, please call Anne Inman, P.E. at (512) 239-1276, 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.

Sincerely,

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

cc: Mr. Phillip House, Environmental Manager, West Fraser New Boston Mill
Mr. Mark Hansen, Acting Associate Director Air Programs, US EPA Region 6 (6PD-A)

Project Nos.: 256914

Appendix A

Acronym List 37

Acronym List

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

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

Appendix B

Major NSR Summary Table 39

Major NSR Summary Table

Permit Numbers: 7286 and PSDTX892M2					Issuance Date: July 29, 2021		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Spec. Cond./Appl. Info.**	**Spec. Cond./Appl. Info.**	**Spec. Cond./Appl. Info.**
BOILER -1	Wood-fired Boiler Venturi Scrubber	VOC#	3.26	14.30	3, 4, 18, 19, 20, 21, 23	3, 4, 19, 20, 23	3
		NOx	18.00	78.84			
		SO2	2.40	10.51			
		PM	9.47	41.47			
		PM10	9.47	41.47			
		PM2.5	9.35	40.97			
		CO	100.78	441.40			
		HAP*	0.27	1.20			
PLANER-1	Planer Mill Cyclone Filter 1 Stack	PM	2.14	9.38	5, 10, 18, 21, 22	5, 22, 23	5, 22
		PM10	2.14	9.38			
		PM2.5	1.35	5.91			
PLANER-2	Planer Mill Cyclone Filter 2 Stack	PM	0.61	2.68	5, 10, 18, 21, 22	5, 22, 23	5, 22
		PM10	0.61	2.68			
		PM2.5	0.39	1.69			
CKILN-1	Continuous Wood Drying Kiln No. 1 Vents (7)	VOC##	72.37	--	3, 18	3, 7, 23	3
		PM	1.00	--			
		PM10	1.00	--			
		PM2.5	0.99	--			
		HCHO**	0.16	--			

Major NSR Summary Table

Permit Numbers: 7286 and PSDTX892M2					Issuance Date: July 29, 2021		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Spec. Cond./Appl. Info.**	**Spec. Cond./Appl. Info.**	**Spec. Cond./Appl. Info.**
		MeOH**	3.30	--			
		HAP*	4.47	--			
CKILN-2	Continuous Wood Drying Kiln No. 2 Vents (7)	VOC##	72.37	--	3, 18	3, 7, 23	3
		PM	1.00	--			
		PM10	1.00	--			
		PM2.5	0.99	--			
		HCHO**	0.16	--			
		MeOH**	3.30	--			
		HAP*	4.47	--			
CKILN-1 and CKILN-2	Total Annual Emissions from both Kilns (7)	VOC##	-	552.67	3, 18	3, 7, 23	3
		PM	-	7.64			
		PM10	-	7.64			
		PM2.5	-	7.59			
		HCHO**	-	1.22			
		MeOH**	-	25.20			
		HAP*	-	34.11			
DFKILN-3	Direct-Fired Wood Drying Kiln No. 3 Vents	VOC##	63.03	264.74	3, 18	3, 7, 23	3
		PM	2.31	9.68			
		PM10	2.31	9.68			

Major NSR Summary Table

Permit Numbers: 7286 and PSDTX892M2					Issuance Date: July 29, 2021		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Spec. Cond./Appl. Info.**	**Spec. Cond./Appl. Info.**	**Spec. Cond./Appl. Info.**
		PM2.5	1.87	7.86			
		CO	10.35	43.47			
		NOx	4.10	17.23			
		SO2	0.37	1.62			
		HCHO**	0.80	3.34			
		MeOH**	2.87	12.10			
		HAPs*	4.90	20.56			
DEBARK-1	Log Debarker No. 1 (8) (5)	PM	0.16	--	6, 21	6, 7, 21, 23	
		PM10	0.05	--			
DEBARK-2	Log Debarker No. 2 (8) (5)	PM	0.79	--	6, 21	6, 7, 21, 23	
		PM10	0.24	--			
DEBARK-1 and DEBARK-2	Total Annual Emissions from both Debarkers (8) (5)	PM	-	1.58	6, 21	6, 7, 21, 23	
		PM10	-	0.47			
SAW-1	Cutup Saw Line No. 1 (5)	PM	0.45	0.89	6, 21	6, 7, 21, 23	
		PM10	0.16	0.32			
CHIP-BIN-1	Truck Loadout No. 1 (5)	PM	0.06	0.04	6, 18, 21	7, 21, 23	

Major NSR Summary Table

Permit Numbers: 7286 and PSDTX892M2					Issuance Date: July 29, 2021		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Spec. Cond./Appl. Info.**	**Spec. Cond./Appl. Info.**	**Spec. Cond./Appl. Info.**
		PM10	0.03	0.02			
		PM2.5	<0.01	<0.01			
CHIP-BIN-2	Truck Loadout No. 2 (5)	PM	0.10	0.10	6, 18, 21	7, 21, 23	
		PM10	0.05	0.05			
		PM2.5	<0.01	<0.01			
CHIP-BIN--3	Truck Loadout No. 3 (5)	PM	0.07	0.04	6, 18, 21	7, 21, 23	
		PM10	0.03	0.02			
		PM2.5	<0.01	<0.01			
CHIP-BIN-4	Truck Loadout No. 4 (5)	PM	0.06	0.04	6, 18, 21	7, 21, 23	
		PM10	0.03	0.02			
		PM2.5	<0.01	<0.01			
CHIP-BIN-5	Truck Loadout No. 5 (5)	PM	0.10	0.10	6, 18, 21	7, 21, 23	
		PM10	0.05	0.05			
		PM2.5	0.01	0.01			
TP-FUG	Transfer Point Fugitives	PM	2.91	2.15	6, 21	23	

Major NSR Summary Table

Permit Numbers: 7286 and PSDTX892M2					Issuance Date: July 29, 2021		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Spec. Cond./Appl. Info.**	**Spec. Cond./Appl. Info.**	**Spec. Cond./Appl. Info.**
	(5)	PM10	1.38	1.02			
		PM2.5	0.21	0.15			

(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 (TAC) Chapter 101.1.
VOC emission estimates are based on VOC measured as carbon.
VOC emissions from the kilns are estimated using Wood Products Protocol 1 (WPP1).
* Also included in total VOC or PM, as appropriate
** Also included in total HAP
NOx - total oxides of nitrogen
SO2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM10 and PM2.5, as represented
PM10 - total particulate matter equal to or less than 10 microns in diameter, including PM2.5, as represented
PM2.5 - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HCHO - Formaldehyde
MeOH - Methanol
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C, including methanol and formaldehyde totals. The numbers reflected include the emissions of methanol and formaldehyde.

(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) Planned startup and shutdown emissions are included as well as maintenance identified as part of the permit alteration request authorized on April 5, 2013.

(7) Annual compliance will be maintained on the sum of the emissions from the two lumber kilns. West Fraser will maintain records of production for each kiln to verify that the annual total limit is not exceeded.
(8) Annual compliance will be maintained on the sum of the emissions from the two debarkers. West Fraser will maintain records of total tons of logs processed through both debarkers (aggregate) to verify that the annual total limit is not exceeded.

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
West Fraser Wood Products
Authorizing the Construction and Operation of
New Boston Lumber Mill
Located at **New Boston, Bowie County, Texas**
Latitude 33° 27′ 57″ Longitude −94° 23′ 6″

Permits: 7286 and PSDTX892M2

Revision Date: July 29, 2021

Expiration Date: April 26, 2026

For the Commission

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

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

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

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

Common Acronyms in Air Permits

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

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

Special Conditions

Permit Numbers 7286 and PSDTX892M2

Emission Standards

1. This permit authorizes only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission limits and other conditions specified in the attached table. In addition, this permit authorizes all emissions from planned startup and shutdown activities associated with facilities or groups of facilities that are authorized by this permit.

Fuel Specification

2. Primary fuel for the Wood-Fired Boiler (Emission Point No. [EPN] BOILER-1), Continuous Wood Drying Kiln Nos. 1 and 2 (EPNs CKILN-1 and CKILN-2), and Direct-Fired Wood Drying Kiln No. 3 (EPN DFKILN-3) shall be limited to raw wood biomass (wood, sawdust, and bark). The use of any other types of fuel will require prior approval of the Executive Director of the Texas Commission on Environmental Quality (TCEQ). **(3/19)**

Federal Applicability

3. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) Regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in Title 40 Code of Federal Regulations (40 CFR) Part 63, specifically the following:

   A. Subpart A - General Provisions;

   B. Subpart DDDD - Plywood and Composite Wood Products; and

   C. Subpart DDDDD - Industrial, Commercial, and Institutional Boilers and Process Heaters.

Opacity/Visible Emissions Limitations

4. Opacity of particulate matter emissions from the Wood-Fired Boiler Venturi Scrubber Stack (EPN BOILER-1) shall not exceed 10 percent, averaged over a six-minute period, except during scheduled or planned maintenance, startup, or shutdown (MSS) activities (such as those times described in 30 Texas Administrative Code (30 TAC) § 101.211).

5. Opacity of particulate matter emissions from the Planer Mill Cyclone Filter Stacks (EPNs PLANER-1 and PLANER-2) shall not exceed 5 percent, averaged over a six-minute period, except during scheduled or planned MSS activities (such as those times described in 30 TAC § 101.211). **(3/19)**

6. Visible fugitive emissions shall not leave the property from the debarkers, the cut-up saw line, the railcar loading, the boiler fuel house, the planer mill, or the conveying, handling, storing, or loadout of shavings, chips, and sawdust for more than 30 cumulative seconds in any six-minute period.

Operational Limitations, Work Practices, and Plant Design

7. The facility shall be limited to the following hourly and annual throughput rates: **(3/19)**

   Table 1: Hourly and Annual Throughput Limits

Process	Hourly throughput	Annual throughput
Continuous Wood Drying Kiln Nos. 1 and 2	32.8 (thousand board feet (MBF)) (both kilns)	250,000 MBF (total)
Direct-Fired Wood Drying Kiln No. 3	14.88 MBF	125,000 MBF
Log Debarker Nos. 1 and 2	330 tons (each debarker)	1,317,542 tons (total)
Cut-up Saw No. 1	330 tons	1,317,542 tons
Chip Bin No. 1 Loadouts	50 tons	64,875 tons
Chip Bin No. 2 Loadouts	86 tons	169,963 tons
Chip Bin No. 3 Loadouts	57 tons	72,591 tons
Chip Bin No. 4 Loadouts	50 tons	64,875 tons
Chip Bin No. 5 Loadouts	86 tons	169,963 tons

8. The facilities are authorized to operate up to 8,760 hours per year.

9. Material collected in the control devices shall be collected and disposed of in a manner that will minimize the material from becoming airborne. No outdoor storage of ash shall occur unless it is controlled by sprinkling with water and/or dust suppressants or incorporated into composting operations.

10. High-efficiency combination cyclone / filter units with an outlet grain loading of not more than 0.0036 grains per dry standard cubic foot of exhaust, properly installed and in good working order, shall control particulate matter emissions from the Planer Mill (EPNs PLANER-1 and PLANER-2) when this equipment is in operation. **(3/19)**

11. Log Debarker No. 1 (EPN DEBARK-1) shall be equipped with an enclosure that covers the top and sides of the length of the unit. **(3/19)**

12. The Cut-up Saw No. 1 (EPN SAW-1) shall be partially enclosed. **(3/19)**

13. Material handling equipment such as chain conveyors, screens, chippers, hogs, and/or drop/transfer points shall be operated with covers in place; enclosed, shrouded, or covered; or controlled in a manner to minimize fugitive emissions.

14. All truck loading and unloading areas, parking areas, and other traffic areas other than haul roads shall be sprinkled with water, and/or be treated with effective dust suppressant(s), and/or be paved (with a cohesive hard surface) and cleaned as necessary to maintain compliance with all TCEQ rules and regulations. **(3/19)**

15. All haul roads shall be paved with an asphalt emulsion. The haul roads shall be swept and cleaned, and additional asphalt emulsion shall be applied as necessary, to maintain compliance with all TCEQ rules and regulations. **(3/19)**

16. All stockpiles (saw dust, bark, fractionated lumber, fuel wood, and ash) shall be sprinkled with water and/or dust suppressants, as necessary, to minimize fugitive emissions.

17. The sawdust on the boiler grates shall be cleaned and the residue blown into the boiler while it is operational. Hard clinkers are removed from the boiler as part of this maintenance activity but are not authorized by this permit.

18. Upon commencing Operating Scenario 2, which involves changes authorized by TCEQ Project No. 287216, the operator shall comply with the portion of the Maximum Allowable Emissions Rate Table under the Operating Scenario 2 heading and request a permit alteration to adjust the permit as necessary to remove emission rates associated with Operating Scenario 1. **(07/21)**

Demonstration of Continuous Compliance

19. 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 *Guidelines for Stack Sampling Facilities* 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.

20. The holder of this permit shall install, calibrate, and maintain a device to monitor pressure drop in the Wood-Fired Boiler Venturi Scrubber (EPN BOILER-1). The monitoring device shall be calibrated in accordance with the manufacturer's specifications and shall be calibrated at least annually and shall be accurate to within a range of ± 1 inch water gauge pressure (± 250 Pascals). The minimum pressure drop shall be maintained at (or above) the minimum inches of water gauge pressure established during the most recent stack testing. The actual pressure drop shall be recorded at least once per day. **(3/19)**

21. The holder of this permit shall install, calibrate, and maintain a device to monitor and record the water pump pressure in Wood-Fired Boiler Venturi Scrubber (EPN BOILER-1). The monitoring device shall be calibrated in accordance with the manufacturer's specifications and shall be calibrated at least annually and shall be accurate within a range of ± 5% of span. The minimum scrubber water pump pressure shall be maintained at (or above) the minimum pounds per square inch gauge (psig) established during the most recent stack testing. The actual water pump pressure shall be recorded at least once per day. **(3/19)**

22. The holder of this permit shall conduct a quarterly visible emissions determination to demonstrate compliance with the visible emissions limitation specified in this permit from the debarkers, the cut-up saw line, the railcar loading, the boiler fuel house, the planer mill, and the conveying, handling, storing, and loadout of shavings, chips, and sawdust. This visible emissions determination shall be performed: 1) during normal plant operations, 2) for a minimum of six minutes, 3) approximately perpendicular to plume direction, 4) with the sun behind the observer (to the extent practicable), 5) at least 15 feet, but not more than 0.25 mile, from the plume, and 6) in accordance with EPA 40 CFR Part 60, Appendix A, Test Method 22, except where stated otherwise in this condition. If visible emissions leaving the property exceed 30 cumulative seconds in any six-minute period, the owner or operator shall take immediate action (as appropriate) to eliminate the excessive visible emissions. The corrective action shall be documented within 24 business hours of completion. **(3/19)**

23. The holder of this permit shall conduct a quarterly visible emissions determination to demonstrate compliance with the opacity limitations specified in this permit for the Planer Mill Cyclone Filter Stacks (EPNs PLANER-1 and PLANER-2). This visible emissions determination shall be performed: 1) during normal plant operations, 2) for a minimum of six minutes, 3) approximately perpendicular to plume direction, 4) with the sun behind the observer (to the extent practicable), and 5) at least two stack heights, but not more than five stack heights, from the emission point. If visible emissions are observed from the emission point, the owner or operator shall: **(3/19)**

    A. Take immediate action to eliminate visible emissions, record the corrective action within 24 hours, and comply with any applicable requirements in 30 TAC § 101.201, Emissions Event Reporting and Recordkeeping Requirements; or

    B. Determine opacity using 40 CFR Part 60, Appendix A, Test Method 9. If the opacity limit is exceeded, take immediate action (as appropriate) to reduce opacity to within the permitted limit, record the corrective action within 24 hours, and comply with applicable requirements in 30 TAC § 101.201, Emissions Event Reporting and Recordkeeping Requirements.

Recordkeeping Requirements

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

    A. Average daily production throughput in terms of kiln-dried board feet calculated monthly for each kiln; **(3/19)**

    B. Average daily tons of logs processed through both debarkers (aggregate);

    C. Average daily tons of logs processed for the saw line;

    D. Annual tons loaded from each chip bin loadout; **(3/19)**

    E. Wood fuel burned in the wood-fired boiler in tons per hour (30-day-average);

    F. Quarterly observations for visible emissions and/or opacity determinations from the Planer Mill Cyclone Filter Stacks (EPNs PLANER-1 and PLANER-2), the debarkers, the cut-up saw line, the railcar loading, the boiler fuel house, the planer mill, and the conveying, handling, storing, and loadout of shavings, chips, and sawdust; **(3/19)**

    G. All malfunctions, repairs, and maintenance of abatement systems, and the manufacturer's suggested cleaning and maintenance schedule;

    H. Records of road cleaning, application of road dust control, or road maintenance for dust control; **(3/19)**

    I. All monitoring data and support information as specified in 30 TAC Chapter 122.144; and

    J. Inspections of capture systems and abatement devices shall be recorded as they occur.

Date: July 29, 2021

Emission Sources - Maximum Allowable Emission Rates

Permit Number 7286 and PSDTX892M2

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

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
Operating Scenario 1				
BOILER-1	Wood-Fired Boiler Venturi Scrubber Stack	VOC#	3.26	14.30
		NO_x	18.00	78.84
		SO_2	2.40	10.51
		PM	9.47	41.47
		PM_{10}	9.47	41.47
		$PM_{2.5}$	9.35	40.97
		CO	100.78	441.40
		HAP*	0.41	1.80
PLANER-1	Planer Mill Cyclone Filter 1 Stack	PM	9.00	39.42
		PM_{10}	6.27	27.46
		$PM_{2.5}$	2.49	10.90
CKILN-1	Continuous Wood Drying Kiln No. 1 Vents (7)	VOC##	57.29	---
		PM	1.00	---
		PM_{10}	1.00	---
		$PM_{2.5}$	0.99	---
		HCHO**	0.17	---
		MeOH**	3.93	---
		HAP*	4.30	---
CKILN-2	Continuous Wood Drying Kiln No. 2 Vents (7)	VOC##	57.29	---
		PM	1.00	---
		PM_{10}	1.00	---
		$PM_{2.5}$	0.99	---

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
		HCHO**	0.17	---
		MeOH**	3.93	---
		HAP*	4.30	---
CKILN-1 and CKILN-2	Total Annual Emissions from both Kilns (7)	VOC##	-	481.25
		PM	-	7.64
		PM_{10}	-	7.64
		$PM_{2.5}$	-	7.59
		HCHO**	-	1.38
		MeOH**	-	33.00
		HAP*	-	36.08
DEBARK-1	Log Debarker No. 1 (8) (5)	PM	0.15	---
		PM_{10}	0.04	---
DEBARK-2	Log Debarker No. 2 (8) (5)	PM	0.73	---
		PM_{10}	0.22	---
DEBARK-1 and DEBARK-2	Total Annual Emissions from both Debarkers (8) (5)	PM	-	1.32
		PM_{10}	-	0.40
SAW-1	Cutup Saw Line No. 1 (5)	PM	0.47	0.43
		PM_{10}	0.17	0.16
CHIPBIN-1	Truck Loadout No. 1 (5)	PM	0.07	0.04
		PM_{10}	0.03	0.02
		$PM_{2.5}$	<0.01	<0.01
CHIPBIN-2	Truck Loadout No. 2 (5)	PM	0.09	0.10
		PM_{10}	0.04	0.05
		$PM_{2.5}$	<0.01	<0.01
CHIPBIN-3	Truck Loadout No. 3 (5)	PM	0.03	0.02
		PM_{10}	0.02	0.01
		$PM_{2.5}$	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
TP-FUG	Transfer Point Fugitives (5)	PM	2.91	2.15
		PM_{10}	1.38	1.02
		$PM_{2.5}$	0.21	0.15
Operating Scenario 2* **				
BOILER-1	Wood-Fired Boiler Venturi Scrubber Stack	VOC#	3.26	14.30
		NO_x	18.00	78.84
		SO_2	2.40	10.51
		PM	9.47	41.47
		PM_{10}	9.47	41.47
		$PM_{2.5}$	9.35	40.97
		CO	100.78	441.40
		HAP*	0.27	1.20
PLANER-1	Planer Mill Cyclone Filter 1 Stack	PM	2.14	9.38
		PM_{10}	2.14	9.38
		$PM_{2.5}$	1.35	5.91
PLANER-2	Planer Mill Cyclone Filter 2 Stack	PM	0.61	2.68
		PM_{10}	0.61	2.68
		$PM_{2.5}$	0.39	1.69
CKILN-1	Continuous Wood Drying Kiln No. 1 Vents (7)	VOC##	72.37	---
		PM	1.00	---
		PM_{10}	1.00	---
		$PM_{2.5}$	0.99	---
		HCHO**	0.16	---
		MeOH**	3.30	---
		HAP*	4.47	---
CKILN-2	Continuous Wood Drying Kiln No. 2 Vents (7)	VOC##	72.37	---
		PM	1.00	---

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
		PM_{10}	1.00	---
		$PM_{2.5}$	0.99	---
		HCHO**	0.16	---
		MeOH**	3.30	---
		HAP*	4.47	---
CKILN-1 and CKILN-2	Total Annual Emissions from both Kilns (7)	VOC##	-	552.67
		PM	-	7.64
		PM_{10}	-	7.64
		$PM_{2.5}$	-	7.59
		HCHO**	-	1.22
		MeOH**	-	25.20
		HAP*	-	34.11
DFKILN-3	Direct-Fired Wood Drying Kiln No. 3 Vents	VOC##	63.03	264.74
		PM	2.31	9.68
		PM_{10}	2.31	9.68
		$PM_{2.5}$	1.87	7.86
		CO	10.35	43.47
		NO_x	4.10	17.23
		SO_2	0.37	1.62
		HCHO**	0.80	3.34
		MeOH**	2.87	12.10
		HAPs*	4.90	20.56
DEBARK-1	Log Debarker No. 1 (8) (5)	PM	0.16	---
		PM_{10}	0.05	---
DEBARK-2	Log Debarker No. 2 (8) (5)	PM	0.79	---
		PM_{10}	0.24	---
		PM	-	1.58

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
DEBARK-1 and DEBARK-2	Total Annual Emissions from both Debarkers (8) (5)	PM_{10}	-	0.47
SAW-1	Cutup Saw Line No. 1 (5)	PM	0.45	0.89
		PM_{10}	0.16	0.32
CHIPBIN-1	Truck Loadout No. 1 (5)	PM	0.06	0.04
		PM_{10}	0.03	0.02
		$PM_{2.5}$	<0.01	<0.01
CHIPBIN-2	Truck Loadout No. 2 (5)	PM	0.10	0.10
		PM_{10}	0.05	0.05
		$PM_{2.5}$	<0.01	<0.01
CHIPBIN-3	Truck Loadout No. 3 (5)	PM	0.07	0.04
		PM_{10}	0.03	0.02
		$PM_{2.5}$	<0.01	<0.01
CHIPBIN-4	Truck Loadout No. 4 (5)	PM	0.06	0.04
		PM_{10}	0.03	0.02
		$PM_{2.5}$	<0.01	<0.01
CHIPBIN-5	Truck Loadout No. 5 (5)	PM	0.10	0.10
		PM_{10}	0.05	0.05
		$PM_{2.5}$	0.01	0.01
TP-FUG	Transfer Point Fugitives (5)	PM	2.91	2.15
		PM_{10}	1.38	1.02
		$PM_{2.5}$	0.21	0.15

(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 (TAC) Chapter 101.1.
VOC emissions estimates from the boiler are based on VOC measured as carbon.
VOC emissions from the kilns are estimated using Wood Products Protocol 1 (WPP1).
* Also included in total VOC or PM, as appropriate
** Also included in total HAP

Emission Sources - Maximum Allowable Emission Rates

NO_x	- total oxides of nitrogen
SO_2	- sulfur dioxide
PM	- total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10}	- total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$	- particulate matter equal to or less than 2.5 microns in diameter
CO	- carbon monoxide
HCHO	- Formaldehyde
MeOH	- Methanol
HAP	- hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C, including methanol and formaldehyde totals. The numbers reflected include the emissions of methanol and formaldehyde.

(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) Planned startup and shutdown emissions are included as well as maintenance identified as part of the permit alteration request authorized on April 5, 2013.
(7) Annual compliance will be maintained on the sum of the emissions from the two lumber kilns. West Fraser will maintain records of production for each kiln to verify that the annual total limit is not exceeded.
(8) Annual compliance will be maintained on the sum of the emissions from the two debarkers. West Fraser will maintain records of total tons of logs processed through both debarkers (aggregate) to verify that the annual total limit is not exceeded.

*** Operating Scenario 2 will result from the changes authorized by TCEQ Project No. 287216.

Date: July 29, 2021