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January 3, 2013

**CERTIFIED MAIL**  
91 7199 9991 7030 0479 5391

Ms. Sabine Merkle  
Project Management & Law  
Klausner Holding USA Inc.  
1297 Professional Dr., Suite 202  
Myrtle Beach, SC 29577

Re: Construction Permit No. 1860-0128-CA

Dear Ms. Merkle:

Enclosed is Construction Permit No. 1860-0128-CA. This construction permit is being issued in accordance with the plans, specifications and other information submitted in the construction permit application, as amended.

In addition to this permit to construct, a permit to operate is required in accordance with *South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards*. The regulations require a written request for a new or revised operating permit to cover any new or altered source, postmarked no later than fifteen (15) days after the actual date of initial startup of each new or altered source unless a more stringent time frame is required.

Please note the emissions limitations and operational requirements contained within this permit. It is important for you and/or an authorized representative responsible for the overall operation of this facility to read this issued permit carefully and to understand all requirements. If any errors or omissions are discovered, please notify Jo Anna Cunningham of my staff, via e-mail at [cunninja@dhec.sc.gov](mailto:cunninja@dhec.sc.gov), or call (803) 898-3248 immediately.

Pursuant to the South Carolina Administrative Procedures Act, any Department decision involving the issuance, denial, suspension, or revocation of a permit or certification may be appealed by the applicant, permittee, licensee, or affected person. Please see the enclosed "Notice of Appeal Procedure" for guidelines on filing an appeal.

Sincerely,

Elizabeth J. Basil  
Director, Engineering Services Division  
Bureau of Air Quality

EJB:kc:kal  
Enclosure

cc: Permit File: 1860-0128

ec: Tim Pearson, Region 5 Aiken EQC Office  
Michael Ballenger, P.E., Trinity Consultants, [mballenger@trinityconsultants.com](mailto:mballenger@trinityconsultants.com)  
Michael Shroup, Manager, Source Evaluation Section

**Notice of Appeal Procedure**  
Pursuant to S.C. Code Section 44-1-60

1. This decision of the S.C. Department of Health and Environmental Control (Department) becomes the final agency decision 15 calendar days after notice of the decision has been mailed or otherwise sent to the applicant, permittee, licensee and affected persons who have requested in writing to be notified, unless a written request for final review accompanied by a filing fee in the amount of \$100 is filed with the Department by the applicant, permittee, licensee, or affected person.
2. An applicant, permittee, licensee, or affected person who wishes to appeal this decision must file a timely written request for final review with the Clerk of the Board at the following address or by facsimile at 803-898-3393. A filing fee in the amount of \$100 made payable to SC DHEC must also be received by the Clerk within the time allowed for filing a request for final review. However, if a request for final review is filed by facsimile, the filing fee may be mailed to the Clerk of the Board if the envelope is postmarked within the time allowed for filing a request for final review.

Clerk of the Board  
SC DHEC  
2600 Bull Street  
Columbia, SC 29201

3. In order to be timely, a request for final review must be received by the Clerk of the Board within 15 calendar days after notice of the decision has been mailed or otherwise sent to persons entitled to receive notice. If the 15th day occurs on a weekend or State holiday, the request is due to be received by the Clerk of the Board on the next working day. The request for final review must be received by the Clerk of the Board by 5:00 p.m. on the date it is due. A request for final review will be returned to the requestor if the filing fee is not received on time as described above.
4. The request for final review should include the following:
  - a. the grounds on which the Department's decision is challenged and the specific changes sought in the decision
  - b. a statement of any significant issues or factors the Board should consider in deciding whether to conduct a final review conference
  - c. a copy of the Department's decision for which review is requested
5. If a timely request for final review is filed with the Clerk of the Board, the Clerk will provide additional information regarding procedures. If the Board declines in writing to schedule a final review conference, the Department's decision becomes the final agency decision and an applicant, permittee, licensee, or affected person may request a contested case hearing before the Administrative Law Court within 30 calendar days after notice is mailed that the Board declined to hold a final review conference.

**The above information is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.**



# **Office of Environmental Quality Control**

## **Bureau of Air Quality**

### **PSD Construction Permit**

**Klausner Holding USA Inc.**  
**3374 Rowesville Road**  
**Rowesville, SC 29133**

Pursuant to the provisions of the *Pollution Control Act*, Sections 48-1-50(5) and 48-1-110(a), the 1976 *Code of Laws of South Carolina*, as amended, and *South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards*, the Bureau of Air Quality authorizes the construction of this facility and the equipment specified herein in accordance with the plans, specifications, and other information submitted in the construction permit application received on March 2, 2012, as amended.

The construction and subsequent operation of this facility is subject to and conditioned upon the terms, limitations, standards, and schedules contained herein or as specified by this permit and its accompanying attachments.

**Permit Number: 1860-0128-CA**  
**Issue Date: January 3, 2013**

  
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**Director, Engineering Services Division**  
**Bureau of Air Quality**

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**PART 1 - APPLICABILITY** (S.C. Regulation 61-62.1, Section II)

Condition Number	Condition
1.1	Except as allowed under S.C. Regulation 61-62.1, Section II(A)(1) paragraphs (c) and (d), any person who plans to construct, alter or add to a source of air contaminants, including installation of any device for the control of air contaminant discharges, shall first obtain a construction permit from the Department prior to commencement of construction.
1.2	The owner/operator shall obtain Bureau authorization, as required under S.C. Regulation 61-62.1, Section II(A), prior to making modifications not covered under this construction permit.
1.3	No construction permits shall be required for the sources listed as exempt from the requirement to obtain a construction permit in S.C. Regulations 61-62.1, Section II(B); however, modifications at these facilities may trigger the requirement to obtain a construction permit.
1.4	All official correspondence, plans, permit applications, and written statements are an integral part of the permit. Any false information or misrepresentation in the application for a construction permit may be grounds for permit revocation.

**PART 2 - GENERAL REQUIREMENTS**

This part describes conditions and provisions applicable to all sources. Specific source category conditions and requirements are contained in Part 5 of this permit.

**PART 2.A - PERMIT EXPIRATION AND EXTENSION** (S.C. Regulation 61-62.1, Section II(A)(4))

Condition Number	Condition
2.A.1	Approval to construct shall become invalid if construction; a. is not commenced within 18 months after receipt of such approval, b. if discontinued for a period of 18 months or more, or c. if construction is not completed within a reasonable time as considered by the Department.
2.A.2	The Department may extend the construction permit for an additional 18-month period upon a satisfactory showing that an extension is justified. This request must be made prior to the permit expiration.
2.A.3	This provision does not apply to the time period between construction of the approved phases of a phased construction project; each phase must commence construction within 18 months of the projected and approved commencement date.

**PART 2.B - PERMIT TO OPERATE** (S.C. Regulation 61-62.1 Section II (A) & (F))

Condition Number	Condition
2.B.1	Any source that is required to obtain an air quality construction permit issued by the Department must obtain an operating permit when the new or altered source is placed into operation and shall comply with the requirements of S.C. Regulation 61-62.1 Section II(F).
2.B.2	If construction is certified as provided in S.C. Regulation 61-62.1 Section II(F)(2), the permittee may operate the source in compliance with the terms and conditions of the construction permit until the operating permit is issued by the Department.
2.B.3	The owner/operator or professional engineer in charge of the project shall certify that, to the best of his/her knowledge and belief and as a result of periodic observation during construction, the construction under application has been completed in accordance with the specifications agreed upon in the construction permit issued by the Department.
2.B.4	If construction is not built as specified in the permit application and associated construction permit(s), the owner/operator must submit to the Department a complete description of modifications that are at variance with the documentation of the construction permitting determination prior to commencing operation.
2.B.5	Construction variances that would trigger additional requirements that have not been addressed prior to start of operation shall be considered construction without a permit.

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**PART 2.B - PERMIT TO OPERATE** (S.C. Regulation 61-62.1 Section II (A) & (F))

Condition Number	Condition
2.B.6	The owner/operator shall submit written notification to the Director of Engineering Services and the Regional Air Section Manager of the date construction is commenced, postmarked no later than 30 days after such date.
2.B.7	The owner/operator shall submit written notification to the Director of Engineering Services and the Regional Air Section Manager of the actual date of initial startup of each new or altered source, postmarked within 15 days after such date.

**PART 2.C - FEE ASSESSMENT AND PAYMENT** (S.C. Regulation 61-30)

Condition Number	Condition
2.C.1	The permittee shall pay permit fees to the Department in accordance with the requirements of S.C. Regulation 61-30, Environmental Protection Fees.

**PART 2.D - DUTY TO COMPLY** (S.C. Regulation 61-62.1, Section II)

Condition Number	Condition
2.D.1	S.C. Regulation 61-62.1, Section II will not supersede any State or Federal requirements nor special permit conditions, unless this regulation would impose a more restrictive emission limit. The owner or operator shall comply with all terms, conditions, and limitations of any Department-issued permit for sources or activities at its facility. A source's permit status may change upon promulgation of new regulatory requirements.

**PART 2.E - INSPECTION AND ENTRY** (S.C. Regulation 61-62.1, Section II(O))

Condition Number	Condition
2.E.1	<p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Department or an authorized representative to perform the following:</p> <ol style="list-style-type: none"> <li>1. Enter the facility where emissions-related activity is conducted, or where records must be kept under the conditions of the permit.</li> <li>2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit.</li> <li>3. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.</li> <li>4. As authorized by the Federal Clean Air Act and/or the S.C. Pollution Control Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.</li> </ol>

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**PART 3 - FACILITY WIDE GENERAL REQUIREMENTS**

This part describes conditions and provisions applicable facility wide. Specific source category conditions and requirements are contained in Part 5 of this permit.

Condition Number	Condition
3.1	<p>In accordance with SC Regulation 61-62.1, Section II(J), for sources not required to have continuous emissions monitors, any malfunction of air pollution control equipment or system, process upset or other equipment failure which results in discharges of air contaminants lasting for one hour or more and which are greater than those discharges described for normal operation in the permit application shall be reported to the Department's local Environmental Quality Control (EQC) Regional office within twenty-four (24) hours after the beginning of the occurrence. The contact information for the local EQC Regional office can be found at <a href="http://www.scdhec.gov/environment/envserv/regions.htm">http://www.scdhec.gov/environment/envserv/regions.htm</a>.</p> <p>The owner or operator shall also submit a written report within thirty (30) days of the occurrence. This report shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality (BAQ) and shall include as a minimum, the following:</p> <ol style="list-style-type: none"> <li>1. The identity of the stack and/or emission point where the excess emissions occurred;</li> <li>2. The magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions;</li> <li>3. The time and duration of excess emissions;</li> <li>4. The identity of the equipment causing the excess emissions;</li> <li>5. The nature and cause of such excess emissions;</li> <li>6. The steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction;</li> <li>7. The steps taken to limit the excess emissions; and,</li> <li>8. Documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated, to the maximum extent practicable, in a manner consistent with good practice for minimizing emissions.</li> </ol>
3.2	<p>Air dispersion modeling (or other method) has demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in the air dispersion modeling may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. The emission rates used in the determination are listed in Attachment A of this permit. Higher emission rates may be administratively incorporated into Attachment A of this permit provided a demonstration using these higher emission rates shows the attainment and maintenance of any state or federal ambient air quality standard or with any other applicable requirement. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded. This is a State Only enforceable requirement.</p>
3.3	<p>The owner/operator shall maintain this facility at or below the emission rates as listed in Attachment A, not to exceed the pollutant limitations of this construction permit. Should the facility wish to increase the emission rates listed in Attachment A, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified in condition 3.2.</p>
3.4	<p>In accordance with S.C. Regulation 61-62.1, Section II(F)(3), the owner/operator shall submit a written request to the Director of the Engineering Services Division for a new or revised operating permit to cover any new or altered source postmarked no later than fifteen (15) days after the actual date of initial startup of each new or altered source. The written request for a new or revised operating permit must include, as a minimum, the following information:</p> <ol style="list-style-type: none"> <li>i. A list of sources that were placed into operation.</li> <li>ii. The actual date of initial startup of each new or altered source.</li> </ol>

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**PART 3 - FACILITY WIDE GENERAL REQUIREMENTS**

This part describes conditions and provisions applicable facility wide. Specific source category conditions and requirements are contained in Part 5 of this permit.

Condition Number	Condition
3.5	<p>All newly permitted and constructed Title V sources and/or Non-attainment Area (NAA) Sources shall complete and submit an emissions inventory consistent with the schedule approved pursuant to S.C. Regulation 61-62.1, Section III. These Emissions Inventory Reports shall be submitted to the Manager of the Emissions Inventory Section of the Bureau of Air Quality (BAQ).</p> <p style="text-align: center;"><b>SCDHEC - BAQ</b>  <b>Emissions Inventory Section</b>  <b>2600 Bull Street</b>  <b>Columbia, SC 29201</b></p> <p>This requirement notwithstanding, an emissions inventory may be required at any time in order to determine the compliance status of any facility.</p>

**PART 4 - PROJECT DESCRIPTION**

Permission is hereby granted to construct a new (greenfield) lumber production facility. The facility will produce multi-dimensional, dried lumber and byproducts, such as bark, wood chips, sawdust and dry shavings. The facility will operate up to 8,760 hours per year (continuous operation), and at full-scale operations the lumber mill will have a maximum annual production of 700 million board feet per year. The proposed facility will include the following emission units and operations :

- ❖ Log Storage and Processing (i.e. log arrival, debarking, log sorting)
- ❖ Saw Mill Operations
- ❖ Sorter Line Operations
- ❖ Two (2) 120 MM Btu/hr Biomass-fired hot water heaters (dutch oven design boilers)
- ❖ Four (4) 46 MM Btu/hr Natural gas-fired (No. 2 fuel oil, 0.05% max. sulfur content by weight, during natural gas curtailment only) hot water heaters (boilers)
- ❖ Sixty (60) Lumber Drying Kilns (Indirectly heated)
- ❖ Planer Mill Operations
- ❖ Lumber Loadout
- ❖ Coatings (Paints, Lacquers, Inks)
- ❖ Support equipment (i.e. emergency engines)
- ❖ Exempt sources (i.e. diesel fuel storage tanks)

**PART 5 - CONSTRUCTION PERMIT REQUIREMENTS**

**PART 5.A - GENERIC CONDITIONS**

Condition Number	Equipment/Control Device ID	Condition
5.A.1	All Sources	In accordance with S.C. Regulation 61-62.1, Section II(J), a copy of the Department issued construction and/or operating permit must be kept readily available at the facility at all times. A permittee shall maintain such operational records; make reports; install, use, and maintain monitoring equipment or methods; sample and analyze emissions or discharges in accordance with prescribed methods, at locations, intervals, and procedures as the Department shall prescribe; and provide such other information as the Department reasonably may require. All records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least five (5) years and shall be made available to a Department representative upon request.
5.A.2	All Sources	The owner/operator shall maintain on file all measurements including continuous monitoring system or monitoring device performance measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required in a permanent form suitable for inspection by Department personnel.
5.A.3	All Sources	<p>All gauges shall be readily accessible and easily read by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Monitoring parameter readings (i.e., pressure drop readings, etc.) and inspection checks shall be maintained in logs (written or electronic), along with any corrective action taken when deviations occur. Each incidence of operation outside the operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Reports of these incidences shall be submitted semi-annually. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring control device performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in S.C. Regulation 61-62.70.7.</p>
5.A.4	All Sources	Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.

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**PART 5.A - GENERIC CONDITIONS**

Condition Number	Equipment/Control Device ID	Condition
5.A.5	All Sources	<p>For any source test required under an applicable standard or permit condition, the owner or operator shall comply with S.C. Regulation 61-62.5, Section IV - Source Tests.</p> <p>The owner/operator shall ensure that source tests are conducted while the source is operating at the maximum expected production rate or other production rate or operating parameter which would result in the highest emissions for the pollutants being tested. Some sources may have to spike fuels or raw materials to avoid being subjected to a more restrictive feed or process rate. Any source test performed at a production rate less than the rated capacity may result in permit limits on emission rates, including limits on production if necessary.</p> <p>Site-specific test plans and amendments, notifications, and source test reports shall be submitted to the Manager of the Source Evaluation Section, Bureau of Air Quality (BAQ).</p> <p style="text-align: center;">SCDHEC - BAQ  Source Evaluation Section  2600 Bull Street  Columbia, SC 29201</p>
5.A.6	All Sources	<p>Upon start-up of the sources permitted under this construction permit the facility will become subject to S.C. Regulation 62.70 "Title V Operating Permit Program." The facility must either submit a complete Part 70 permit application within 12 months after the source becomes subject to the Part 70 regulation or if the facility wishes to limit its emissions to less than major source thresholds, obtain an effective Conditional Major Operating permit prior to the Part 70 permit application due date. A request for a Conditional Major Operating permit should address the requirements as specified in S.C. Regulation 61-62.1.</p>
5.A.7	All Sources	<p>Where multiple regulations with emission limits are applicable to the same emission unit, the facility shall comply with the most stringent applicable limit for the emission unit.</p>

**PART 5.B - LIMITATIONS, MONITORING AND REPORTING**

**PART 5.B.1 - EQUIPMENT FOR CONSTRUCTION PERMIT 1860-0128-CA**

Equipment ID	Equipment Description	Control Device ID	Emission Point ID
EU001	120 x 10 <sup>6</sup> BTU/hr Biomass Boiler (fuel type: wet bark & wood)	ESP 1 MC1 SNCR1	EP001
EU002	120 x 10 <sup>6</sup> BTU/hr Biomass Boiler (fuel type: wet bark & wood)	ESP2 MC2 SNCR2	EP002
EU003	46 x 10 <sup>6</sup> BTU/hr Natural Gas-fired Boiler (No.2 fuel oil w/ 0.05% maximum sulfur content by weight) as back-up fuel	N/A	EP003
EU004	46 x 10 <sup>6</sup> BTU/hr Natural Gas-fired Boiler (No.2 fuel oil w/ 0.05% maximum sulfur content by weight) as back-up fuel	N/A	EP004
EU005	46 x 10 <sup>6</sup> BTU/hr Natural Gas-fired Boiler (No.2 fuel oil w/ 0.05% maximum sulfur content by weight) as back-up fuel	N/A	EP005
EU006	46 x 10 <sup>6</sup> BTU/hr Natural Gas-fired Boiler (No.2 fuel oil w/ 0.05% maximum sulfur content by weight) as back-up fuel	N/A	EP006

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**PART 5.B - LIMITATIONS, MONITORING AND REPORTING**

**PART 5.B.1 - EQUIPMENT FOR CONSTRUCTION PERMIT 1860-0128-CA**

<b>Equipment ID</b>	<b>Equipment Description</b>	<b>Control Device ID</b>	<b>Emission Point ID</b>
EU007	Sixty Drying Kilns; indirectly heated; maximum annual production of 700 MMBF/y <ul style="list-style-type: none"> <li>▪ Block No. 1 – 12 Kilns</li> <li>▪ Block No. 2 – 16 Kilns</li> <li>▪ Block No. 3 – 16 Kilns</li> <li>▪ Block No. 4 – 16 Kilns</li> </ul>	N/A	EP007
EU008	Planer Mill Line No.1 (Dry Wood Planers and Trimmers) Planer Mill Line No. 2 (Dry Wood Planers and Trimmers)	CD-FF9; CD-FF10	EP008
EU009	Shavings/Sawdust (Dry) Storage Silo No.1	CD-FF9	EP009
EU010	Shavings/Sawdust (Dry) Storage Silo No.2	CD-FF10	EP010
EU011	(Green Wood Sorter Line) Trimmers Extraction System - Line No.1 (Green Wood Sorter Line) Trimmers Extraction System - Line No. 2	CD-FF11	EP011
EU012	One (1) Biomass Fly Ash Storage Silo	CD-FF12	EP012
EU013	Coatings (Colors, Inks, Lacquers)	N/A	EP013
EU014	Log Storage, Processing and Saw Mill Operations Debarker No. 1; Debarker No. 2 Sawline No. 1; Sawline No. 2	N/A	EP014
Engine 1	3.22 MM Btu/hr, input , Diesel Powered, Emergency Engine	N/A	Engine 1
Engine 2	3.22 MM Btu/hr, input , Diesel Powered, Emergency Engine	N/A	Engine 2
Engine 3	3.22 MM Btu/hr, input , Diesel Powered, Emergency Engine	N/A	Engine 3
Engine 4	3.22 MM Btu/hr, input , Diesel Powered, Emergency Engine	N/A	Engine 4
Engine 5	3.22 MM Btu/hr, input , Diesel Powered, Emergency Engine	N/A	Engine 5

\*Emissions from the Planar Mill are exhausted to FF9 and FF10 (baghouses)

**PART 5.B.2 - CONTROL DEVICES FOR CONSTRUCTION PERMIT 1860-0128-CA**

<b>Control Device ID</b>	<b>Control Device Description</b>	<b>Pollutants Controlled</b>
CD-MC1	Multiclone	PM, PM <sub>10</sub> , PM <sub>2.5</sub>
CD-MC2	Multiclone	PM, PM <sub>10</sub> , PM <sub>2.5</sub>
CD-ESP1	Electrostatic Precipitator	PM, PM <sub>10</sub> , PM <sub>2.5</sub>
CD-ESP2	Electrostatic Precipitator	PM, PM <sub>10</sub> , PM <sub>2.5</sub>
CD-SNCR1	*Selective Non-Catalytic Reduction	NOx
CD-SNCR2	*Selective Non-Catalytic Reduction	NOx
CD-FF9-FF-10	Baghouse	PM, PM <sub>10</sub> , PM <sub>2.5</sub>
CD-FF11	Baghouse	PM, PM <sub>10</sub> , PM <sub>2.5</sub>
CD-FF12	Baghouse	PM, PM <sub>10</sub> , PM <sub>2.5</sub>

\*Each biomass boiler will be equipped with selective non-catalytic reduction (SCNR)

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
<b>EU001-EU002 - BIOMASS BOILERS</b>			
5.B.1	EU001 EU002	PM/ Standard 1	<p><b>Limits/Standards:</b> In accordance with S.C. Regulation 61-62.5, Standard No. 1 - Emissions from Fuel Burning Operations, Section II - Particulate Matter Emissions, the allowable discharge of particulate matter resulting from the fuel burning operations is 0.6 pounds per million BTU input (each).</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> A source test for particulate matter (PM) emissions shall be conducted within 180 days after startup and every two (2) years thereafter, in accordance with SC Regulation 61-62.1, Section IV.</p> <p>All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b></p> <p><b>Biomass Boiler Startup and Shutdown</b>  Each startup period shall be defined as when the boiler exhaust temperature reaches 275 °F or shall not exceed 10 hours, which ever occurs first. Each shutdown period shall not exceed 6-hours.</p> <p>The number of planned startups shall not exceed three, approximately ten-hour periods in a calendar year. The number of planned shut downs shall not exceed three, approximately six-hour periods in a calendar year. The actual number of startup and shut down periods shall be minimized. Each startup or shutdown shall be recorded in a written log or electronically and maintained on-site.</p> <p>The records shall include the boiler exhaust temperature, heat load, feed rate, hot water heater (boiler) inlet water temperature (°F), outlet water temperature, water flow rate and water pressure (psig), and any additional information in accordance with the manufacturer's specifications to demonstrate boiler operating parameters during startup or shutdown periods</p> <p>The biomass boilers (EU001, EU002) are permitted to combust only clean, untreated wood as fuel. In accordance with SC Regulation 61-62.1 Clean Wood is defined as untreated wood or untreated wood products including clean untreated lumber, tree stumps (whole or chipped), and tree limbs (whole or chipped). Clean wood does not include yard waste, which is defined elsewhere in SC Regulation 61-62.1, or construction, renovation, and demolition waste (including but not limited to railroad ties and telephone poles). The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p>

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.1 (continued)	EU001 EU002	PM/ Standard 1	<p><b>Monitoring/Record Keeping/Reporting/Other:</b> (continued)</p> <p>The owner/operator shall operate the biomass fired hot water heaters (boilers) in accordance with the manufacturer’s specifications. The owner/operator shall install, calibrate, operate and maintain monitoring and recording devices for inlet water temperature (°F), outlet water temperature, flow rate and, water pressure (psig). Records shall be maintained on site and made available to a Department representative upon request. Reports which demonstrate the rated heat input capacity of each biomass fired hot water heater (boiler) including, biomass heating value (as fired), hot water production, inlet and outlet temperature, and any other parameters necessary which demonstrate that the biomass boilers are operating in accordance with manufacturer’s specification shall be submitted semi-annually.</p> <p>The multiclone shall be in place and operational whenever processes controlled by the multiclone are running, except during periods of startup/shutdown, multiclone malfunction or mechanical failure. Operation and maintenance checks will be made on the multiclone, ductwork and dust collection hoppers and conveying systems for proper operation. The following operation and maintenance checks will be made on at least a weekly basis for all multiclones:</p> <p>a) The multiclone and ductwork systems will be checked for damaged or worn sheet metal or other interferences with proper operation.</p> <p>b) Check dust collection hoppers and conveying systems for proper operation.</p> <p>The results from the operation and maintenance checks shall be maintained in logs (written or electronic), along with any corrective action taken.</p> <p>The owner/operator shall install, and maintain primary and secondary voltage meters, for each field. Each parameter shall be recorded each shift during source operation. The ESP(s) shall be in place and operational whenever processes controlled by the ESP(s) are running, except during periods of startup/shutdown, ESP malfunction or mechanical failure.</p> <p>Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. These ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up. The operating ranges may be updated using this procedure, following Bureau approval.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.2	EU001 EU002	Opacity/ Standard 1	<p><b>Limits/Standards:</b> In accordance with S.C. Regulation 61-62.5, Standard No. 1, Section I (B), these sources shall not discharge into the ambient air smoke which exceeds opacity of 20% (each). During times of soot blowing the opacity may be exceeded for a total of 6 minutes in any hour or 24 minutes in any 24-hour period, but shall in no case exceed opacity of 60%. This opacity standard does not apply during startup and shutdown.</p> <p>The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. In addition the owner/operator shall maintain a log on-site, of the time, magnitude, duration and any other pertinent information to determine periods of startup and shutdown and make these records available to a Department representative upon request.</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>            In accordance with SC Regulation 61-62.5 Standard 1, Section IV (A) (2) The owner or operator of any woodwaste boiler, not equipped with a wet scrubber, will be required to install, calibrate, operate, and maintain continuous monitoring system(s) approved by this Department for the measurement of opacity. The continuous opacity monitoring system (COMS) shall be operational at all times, including periods of startup/shutdown, when the emission source is operational.</p> <p>The owner/operator shall submit a report summarizing opacity including periods of startups, shutdowns, malfunctions. If opacity COMS data is excluded from a compliance determination during the quarter due to a malfunction, the owner/operator shall include a description of the malfunction, the actual emissions recorded, and the actions taken to correct the malfunction. The report shall be submitted semi-annually.</p>
5.B.3	EU001 EU002	NSPS Subpart Db	<p>The biomass boilers (EU001, EU002) are subject to New Source Performance Standard (NSPS 40 CFR 60), Subpart A, General Conditions and Subpart Db, Small Industrial - Commercial - Institutional Steam Generating Units.</p> <p>60.40b (a) The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)).</p> <p>The permittee shall comply with all applicable parts of Subparts A and Db.</p> <p><b>40 CFR §60.49b Reporting And Recordkeeping Requirements</b></p> <p>60.49b (a) The owner or operator of each affected facility shall submit notification of the date of initial startup, as provided by §60.7.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.4	EU001 EU002	Opacity/ NSPS Subpart Db	<p><b>Limits/Standards:</b> In accordance with 40 CFR 60.42a(b), these sources shall not discharge into the ambient air smoke which exceeds an opacity of 20% except for one six-minute period per hour of not more than 27% opacity. This opacity standard does not apply during startup, shutdown, and malfunction</p> <p>The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. In addition the owner/operator shall maintain a log on-site, of the time, magnitude, duration and any other pertinent information to determine periods of startup and shutdown and make these records available to a Department representative upon request.</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> In accordance with 60.46b (d) to determine compliance with the Opacity emission limits under §60.43b, the owner or operator of an affected facility shall conduct an initial performance test as required under §60.8. Method 9 shall be used for determining the opacity of stack emissions.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  In accordance with 60.46b (a) the PM emission standards and opacity limits apply at all times except during periods of startup, shutdown, or malfunction.</p> <p>In accordance with 40 CFR 60.48b (a) Except as provided in paragraph (j) of this section, the owner or operator of an affected facility subject to the opacity standard under §60.43b shall install, calibrate, maintain, and operate a continuous opacity monitoring systems (COMS) for measuring the opacity of emissions discharged to the atmosphere and record the output of the system.</p> <p>The owner/operator shall submit a report summarizing opacity including periods of startups, shutdowns, malfunctions. If opacity COMS data is excluded from a compliance determination during the quarter due to a malfunction, the owner/operator shall include a description of the malfunction, the actual emissions recorded, and the actions taken to correct the malfunction. The report shall be submitted quarterly.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.5	EU001 EU002	SO <sub>2</sub> / Standard 1	<p><b>Limits/Standards:</b> In accordance with S.C. Regulation 61-62.5, Standard No. 1 - Emissions from Fuel Burning Operations, Section III - Sulfur Dioxide Emissions, the maximum allowable discharge of sulfur dioxide (SO<sub>2</sub>) resulting from the fuel burning operations is 3.5 pounds per million BTU input.</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard 1, Section VI, the owner or operator shall conduct a fuel sample analysis on a semi-annual basis to demonstrate compliance with the SO<sub>2</sub> limit.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b> Records of the fuel sample analysis and biomass heating value shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to a Department representative upon request. Reports of the fuel sample analysis and heating value which demonstrate compliance with the SO<sub>2</sub> emission limit shall be submitted semi-annually</p>
5.B.6	EU001 EU002	SO <sub>2</sub> / 40 CFR 60 Subpart Db	<p><b>Limits/Standards:</b> In accordance with 40 CFR 60.42b (k)2) Sulfur Dioxide Emissions, shall be less than a potential SO<sub>2</sub> emission rate of 140 ng/J (0.32 lb/MMBtu) heat input.</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b> 40 CFR §60.49b Reporting And Recordkeeping Requirements</p> <p>60.49b (r)(1) The owner or operator of an affected facility who elects to demonstrate that the affected facility combusts only very low sulfur oil, natural gas, wood, a mixture of these fuels, or any of these fuels (or a mixture of these fuels) in combination with other fuels that are known to contain an insignificant amount of sulfur in §60.42b(j) or §60.42b(k) shall obtain and maintain at the affected facility fuel receipts (such as a current, valid purchase contract, tariff sheet, or transportation contract) from the fuel supplier that certify that the oil meets the definition of distillate oil and gaseous fuel meets the definition of natural gas as defined in §60.41b and the applicable sulfur limit. Reports shall be submitted semi-annually to the Administrator certifying that only very low sulfur oil meeting this definition, natural gas, wood, and/or other fuels that are known to contain insignificant amounts of sulfur were combusted in the affected facility during the reporting period. Records of fuel receipts shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to a Department representative upon request.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.7	EU001 EU002	PM/ 40 CFR 60 Subpart Db	<p><b>Limits/Standards:</b> In accordance with 40 CFR 60.43b Standard For Particulate Matter</p> <p>(h)(1) Except as provided in paragraphs (h)(2), (h)(3), (h)(4), (h)(5), and (h)(6) of this section, on and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commenced construction, reconstruction, or modification after February 28, 2005, and that combusts coal, oil, wood, a mixture of these fuels, or a mixture of these fuels with any other fuels shall cause to be discharged into the atmosphere from that affected facility any gases that contain PM in excess of 13 ng/J (0.030 lb/MMBtu) heat input.</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> In accordance with 60.46b (d) to determine compliance with the PM emission limits under §60.43b, the owner or operator of an affected facility shall conduct an initial performance test as required by §60.8.</p>
5.B.7 (continued)	EU001 EU002	PM/ 40 CFR 60 Subpart Db	<p><b>Monitoring/Record Keeping/Reporting/Other: (continued)</b></p> <p>In accordance with 60.46b (a) the PM emission standards and opacity limits apply at all times except during periods of startup, shutdown, or malfunction.</p> <p>60.43b(e), for the purposes of this section, the annual capacity factor is determined by dividing the actual heat input to the steam generating unit during the calendar year from the combustion of coal, wood, or municipal-type solid waste, and other fuels, as applicable, by the potential heat input to the steam generating unit if the steam generating unit had been operated for 8,760 hours at the maximum heat input capacity.</p> <p>60.49b (d)(2) As an alternative to meeting the requirements of paragraph (d)(1) of this section, the owner or operator of an affected facility that is subject to a federally enforceable permit restricting fuel use to a single fuel such that the facility is not required to continuously monitor any emissions (excluding opacity) or parameters indicative of emissions may elect to record and maintain records of the amount of each fuel combusted during each calendar month.</p> <p>60.49b (h) The owner or operator of any affected facility in any category listed in paragraphs (h)(1) or (2) of this section is required to submit excess emission reports for any excess emissions that occurred during the reporting period. Reports shall be submitted quarterly.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions						
5.B.8	EU001 EU002	PM/PM <sub>10</sub> / PM <sub>2.5</sub> PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the biomass boilers for PM/PM<sub>10</sub>/PM<sub>2.5</sub> is determined to be an electrostatic precipitator (ESP) preceded by a multiclone.</p> <p>The BACT PM/PM<sub>10</sub>/PM<sub>2.5</sub> emission limit for each biomass boiler is established as follows:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Emission Unit</th> <th style="text-align: center;">Proposed BACT Limit</th> <th style="text-align: center;">Averaging Period</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Biomass Boilers</td> <td> Total PM = 0.032  lb/MM Btu  Filterable PM = 0.0032  lb/MM Btu   Total PM<sub>10</sub> = 0.032  lb/MM Btu  Filterable PM<sub>10</sub> =  0.0032 lb/MM Btu   Total PM<sub>2.5</sub> = 0.032  lb/MM Btu  Filterable PM<sub>2.5</sub> =  0.0032 lb/MM Btu </td> <td style="text-align: center;">3-hour average per EPA Method 5 for filterable PM and Method 202 for condensable PM</td> </tr> </tbody> </table> <p>Note: The facility shall comply with the (lb/MM Btu) limit based on a 3-hour averaging period at all times (including periods of startup/shutdown).</p> <p><b>State Only:</b> No</p>	Emission Unit	Proposed BACT Limit	Averaging Period	Biomass Boilers	Total PM = 0.032 lb/MM Btu Filterable PM = 0.0032 lb/MM Btu  Total PM <sub>10</sub> = 0.032 lb/MM Btu Filterable PM <sub>10</sub> = 0.0032 lb/MM Btu  Total PM <sub>2.5</sub> = 0.032 lb/MM Btu Filterable PM <sub>2.5</sub> = 0.0032 lb/MM Btu	3-hour average per EPA Method 5 for filterable PM and Method 202 for condensable PM
Emission Unit	Proposed BACT Limit	Averaging Period							
Biomass Boilers	Total PM = 0.032 lb/MM Btu Filterable PM = 0.0032 lb/MM Btu  Total PM <sub>10</sub> = 0.032 lb/MM Btu Filterable PM <sub>10</sub> = 0.0032 lb/MM Btu  Total PM <sub>2.5</sub> = 0.032 lb/MM Btu Filterable PM <sub>2.5</sub> = 0.0032 lb/MM Btu	3-hour average per EPA Method 5 for filterable PM and Method 202 for condensable PM							
5.B.8 (continued)	EU001 EU002	PM/PM <sub>10</sub> / PM <sub>2.5</sub> PSD- BACT	<p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard No. 7, an initial source test of the biomass boilers for PM, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions shall be conducted within 180 days after startup and every two (2) years thereafter at maximum operating capacity. Particulate matter tests shall include filterable and condensable particulate matter. Less frequent source testing for condensable particulate matter may be approved, if at least two (2) consecutive stack tests show that the ratio of condensable particulate matter to total particulate matter is consistent and does not fluctuate. If less frequent condensable testing is approved the next source condensable test must be completed no more than 48 months after the previous source test. Results indicating that the ratio of condensable particulate to filterable particulate is inconsistent and fluctuates will result in reinstating the two year test cycle.</p>						

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.8 (continued)	EU001 EU002	PM/PM <sub>10</sub> / PM <sub>2.5</sub> PSD- BACT	<p><b>Testing: (continued):</b> All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The owner/operator shall operate the biomass fired hot water heaters (boilers) in accordance with the manufacturer's specifications. The permittee shall install, calibrate, operate and maintain monitoring and recording devices for inlet water temperature (°F), outlet water temperature, flow rate and, water pressure (psig). Records shall be maintained on site and made available to a Department representative upon request.</p> <p>Reports which demonstrate the rated heat input capacity of each biomass fired hot water heater (boiler) including, biomass heating value (as fired), hot water production inlet and outlet temperature, and any other parameters necessary which demonstrate that the biomass boilers are operating in accordance with manufacturer's specification shall be submitted semi-annually.</p> <p>The multiclone shall be in place and operational whenever processes controlled by the multiclone are running, except during periods of startup/shutdown, multiclone malfunction or mechanical failure. Operation and maintenance checks will be made on the multiclone, ductwork and dust collection hoppers and conveying systems for proper operation. The following operation and maintenance checks will be made on at least a weekly basis for all multiclones:</p> <ul style="list-style-type: none"> <li>a) The multiclone and ductwork systems will be checked for damaged or worn sheet metal or other interferences with proper operation.</li> <li>b) Check dust collection hoppers and conveying systems for proper operation.</li> </ul> <p>The results from the operation and maintenance checks shall be maintained in logs (written or electronic), along with any corrective action taken.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.8 (continued)	EU001 EU002	PM/PM <sub>10</sub> / PM <sub>2.5</sub> PSD- BACT	<p><b>Monitoring/Record Keeping/Reporting/Other: (continued)</b></p> <p>The owner/operator shall install, and maintain primary and secondary voltage meters for each field. Each parameter shall be recorded each shift during source operation. The ESP(s) shall be in place and operational whenever processes controlled by the ESP(s) are running, except during periods of startup/shutdown, ESP malfunction or mechanical failure.</p> <p>Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. These ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up. The operating ranges may be updated using this procedure, following Bureau approval.</p> <p><b>Biomass Boiler Startup and Shutdown</b></p> <p>Each startup period shall be defined as when the boiler exhaust temperature reaches 275 °F or shall not exceed 10 hours, whichever ever occurs first. Each shutdown period shall not exceed 6-hours.</p> <p>The number of planned startups shall not exceed three, approximately ten-hour periods in a calendar year. The number of planned shut downs shall not exceed three, approximately six-hour periods in a calendar year. The actual number of startup and shut down periods shall be minimized. Each startup or shutdown shall be recorded in a written log or electronically and maintained on-site.</p> <p>The records shall include the boiler exhaust temperature, heat load, feed rate, hot water heater (boiler) inlet water temperature (°F), outlet water temperature, water flow rate and water pressure (psig), and any additional information in accordance with the manufacturer's specifications to demonstrate boiler operating parameters during startup or shutdown periods</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions									
5.B.9	EU001 EU002	NO <sub>x</sub> / PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the Biomass Boilers for NO<sub>x</sub> is determined to be the use of Selective Non-Catalytic Reduction.</p> <p>The BACT NO<sub>x</sub> emission limit for each biomass boiler is established as follows:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Emission Unit</th> <th style="text-align: center;">Proposed BACT Limit</th> <th style="text-align: center;">Averaging Period</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Biomass Boilers</td> <td style="text-align: center;">0.14 lb/MM Btu</td> <td style="text-align: center;">3-hour average per EPA Method 7, 7A-7E for NO<sub>x</sub></td> </tr> <tr> <td style="text-align: center;">Biomass Boilers</td> <td style="text-align: center;">16.8 lb/hr</td> <td style="text-align: center;">1-hour average</td> </tr> </tbody> </table> <p>* The facility shall comply with both the (lb/MM Btu) limit based on a 3-hour averaging period and the (lb/hr) limit based on a 1-hour averaging period at all times except during periods of start-up and shut-down. During periods of start-up and shut down the facility shall comply with the lb/hr limit.</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard No. 7, an initial source test of the Biomass Boilers for NO<sub>x</sub> emissions shall be conducted within 180 days after initial startup and every two (2) years thereafter at maximum operating capacity, to establish monitoring parameters (i.e. SNCR injection rate that ensures compliance with the NO<sub>x</sub> emission limit, SNCR operational range that ensures compliance with the NO<sub>x</sub> emission limit), and to verify emission estimates.</p> <p>All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b></p> <p><b>Biomass Boiler Startup and Shutdown</b>  Each startup period shall be defined as when the boiler exhaust temperature reaches 275 °F or shall not exceed 10 hours, which ever occurs first. Each shutdown period shall not exceed 6-hours.</p> <p>The number of planned startups shall not exceed three, approximately ten-hour periods in a calendar year. The number of planned shut downs shall not exceed three, approximately six-hour periods in a calendar year. The actual number of startup and shut down periods shall be minimized. Each startup or shutdown shall be recorded in a written log or electronically and maintained on-site.</p>	Emission Unit	Proposed BACT Limit	Averaging Period	Biomass Boilers	0.14 lb/MM Btu	3-hour average per EPA Method 7, 7A-7E for NO <sub>x</sub>	Biomass Boilers	16.8 lb/hr	1-hour average
Emission Unit	Proposed BACT Limit	Averaging Period										
Biomass Boilers	0.14 lb/MM Btu	3-hour average per EPA Method 7, 7A-7E for NO <sub>x</sub>										
Biomass Boilers	16.8 lb/hr	1-hour average										

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.9 (continued)	EU001 EU002	NO <sub>x</sub> / PSD- BACT	<p><b>Monitoring/Record Keeping/Reporting/Other: (continued)</b></p> <p>The records shall include the boiler exhaust temperature, heat load, feed rate, hot water heater (boiler) inlet water temperature (°F), outlet water temperature, water flow rate and water pressure (psig), and any additional information in accordance with the manufacturer’s specifications to demonstrate boiler operating parameters during startup or shutdown periods</p> <p>The owner/operator shall operate the biomass fired hot water heaters (boilers) in accordance with the manufacturer’s specifications. The permittee shall install, calibrate, operate and maintain monitoring and recording devices for inlet water temperature (°F), outlet water temperature, flow rate and, water pressure (psig). Records shall be maintained on site and made available to a Department representative upon request.</p> <p>Reports which demonstrate the rated heat input capacity of each biomass fired hot water heater (boiler) including, biomass heating value (as fired), hot water production, inlet and outlet temperature, and any other parameters necessary which demonstrate that the biomass boilers are operating in accordance with manufacturer’s specification shall be submitted semi-annually.</p> <p>The SNCR shall be in place and operational whenever processes controlled by the SNCR are running, except during periods of startup/shutdown, SNCR malfunction or mechanical failure.</p> <p>The owner/operator shall install, calibrate, operate and maintain a flow meter to measure and record the reductant injection rate for the SNCR system for each biomass boiler.</p> <p>The owner/operator shall establish parametric monitoring of the reductant injection rates for the SNCR system for each biomass boiler. The owner/operator shall continuously monitor the injection rate and maintain an injection rate within the established operational range.</p> <p>The owner/operator shall operate at a reductant injection rate that ensures compliance with the NO<sub>x</sub> emissions limit.</p> <p>The reductant injection rate, operational range shall be established during the initial source test of the biomass boilers for NO<sub>x</sub>.</p> <p>Operational ranges for the monitored parameters shall be established initially as recommended by the control device manufacturer to provide a reasonable assurance of compliance. Future operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. These ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up. The operating ranges may be updated using this procedure, following Bureau approval</p>

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions						
5.B.10	EU001 EU002	CO/ PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the Biomass Boilers for CO is determined to be good design and operating practices.</p> <p>The BACT CO emission limit for each biomass boiler is established as follows:</p> <table border="1" data-bbox="560 856 1503 951"> <thead> <tr> <th data-bbox="560 856 813 919">Emission Unit</th> <th data-bbox="813 856 1024 919">Proposed BACT Limit</th> <th data-bbox="1024 856 1503 919">Averaging Period</th> </tr> </thead> <tbody> <tr> <td data-bbox="560 919 813 951">Biomass Boilers</td> <td data-bbox="813 919 1024 951">0.4 lb/MMBtu</td> <td data-bbox="1024 919 1503 951">3-hour average</td> </tr> </tbody> </table> <p>These Good Practices will be developed and maintained in an Operations and Maintenance Manual (O &amp; M Manual) which specifies proper operation and repair of the biomass boilers.</p> <p>As a minimum this O &amp; M Manual shall include:</p> <ol style="list-style-type: none"> <li>(1) The vendor requirements for maintenance and operation and manufacturer updates as applicable to the purchased equipment (i.e. vendor manual with updates). Any deviation from the vendor requirements shall be supported in detail.</li> <li>(2) Facility's response to source test results, visual observations, or change in any process variables such as throughput, raw materials etc.</li> <li>(3) Methods for minimizing emissions during startup, shut-down and malfunctions, while continuing to meet BACT limits.</li> </ol> <p>The original O &amp; M Plan should be submitted within 180 days of startup.</p> <p>Deficiencies or omissions in the O &amp; M Manual will be corrected within six (6) months of notification from this Bureau. This O &amp; M Manual will be updated as required to reflect changes in operations, equipment, and emissions.</p> <p>The facility must have as a minimum the following as good design and combustion practices:</p> <ol style="list-style-type: none"> <li>1. Good air/fuel mixing in the combustion zone;</li> <li>2. Sufficient residence time to complete combustion;</li> <li>3. Proper biomass fuel supply system design and operation;</li> <li>4. Operator and maintenance practices including good furnace maintenance and operation;</li> <li>5. Overall excess oxygen levels high enough to complete combustion while maximizing thermal efficiency.</li> </ol>	Emission Unit	Proposed BACT Limit	Averaging Period	Biomass Boilers	0.4 lb/MMBtu	3-hour average
Emission Unit	Proposed BACT Limit	Averaging Period							
Biomass Boilers	0.4 lb/MMBtu	3-hour average							

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.10 (continued)	EU001 EU002	CO/ PSD- BACT	<p><b>State Only:</b> No</p> <p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard No. 7, an initial source test of the Biomass Boilers for CO emissions shall be conducted within 180 days after startup of and every two (2) years thereafter at maximum operating capacity.</p> <p>All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The owner/operator shall operate the biomass fired hot water heaters (boilers) in accordance with the manufacturer's specifications. The permittee shall install, calibrate, operate and maintain monitoring and recording devices for inlet water temperature (°F), outlet water temperature, flow rate and, water pressure (psig). Records shall be maintained on site and made available to a Department representative upon request.</p> <p>Reports which demonstrate the rated heat input capacity of each biomass fired hot water heater (boiler) including, biomass heating value (as fired), hot water production inlet and outlet temperature, and any other parameters necessary which demonstrate that the biomass boilers are operating in accordance with manufacturer's specification shall be submitted semi-annually.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions						
5.B.11	EU001 EU002	VOCs/ PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the biomass boilers for VOCs is determined to be Good Combustion Practices.</p> <p>The BACT VOC emission limit for each biomass boiler is established as follows:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Emission Unit</th> <th style="text-align: center;">Proposed BACT Limit</th> <th style="text-align: center;">Averaging Period</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Biomass Boilers</td> <td style="text-align: center;">VOC = 0.017 lb/MM Btu</td> <td style="text-align: center;">3-hour average</td> </tr> </tbody> </table> <p>These good combustion practices will be developed and maintained in an Operations and Maintenance Manual (O &amp; M Manual) which specifies proper operation and repair of the biomass boilers.</p> <p>As a minimum this O &amp; M Manual shall include:</p> <ol style="list-style-type: none"> <li>1) The vendor requirements for maintenance and operation and manufacturer updates as applicable to the purchased equipment (i.e. vendor manual with updates). Any deviation from the vendor requirements shall be supported in detail.</li> <li>2) Facility's response to source test results, visual observations, or change in any process variables such as throughput, raw materials etc.</li> <li>3) Methods for minimizing emissions during start-up, shut-down and malfunctions, while continuing to meet BACT limits.</li> </ol> <p>The original O &amp; M Plan should be submitted within 180 days of startup.</p> <p>Deficiencies or omissions in the O &amp; M Manual will be corrected within six (6) months of notification from this Bureau. This O &amp; M Manual will be updated as required to reflect changes in operations, equipment, and emissions.</p> <p>The facility must have as a minimum the following as good design and combustion practices:</p> <ol style="list-style-type: none"> <li>1) Good air/fuel mixing in the combustion zone;</li> <li>2) Sufficient residence time to complete combustion;</li> <li>3) Proper biomass fuel supply system design and operation;</li> <li>4) Operator and maintenance practices including furnace maintenance and operation;</li> <li>5) Overall excess oxygen levels high enough to complete combustion while maximizing thermal efficiency.</li> </ol>	Emission Unit	Proposed BACT Limit	Averaging Period	Biomass Boilers	VOC = 0.017 lb/MM Btu	3-hour average
Emission Unit	Proposed BACT Limit	Averaging Period							
Biomass Boilers	VOC = 0.017 lb/MM Btu	3-hour average							

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions				
5.B.11 (continued)	EU001 EU002	VOCs/ PSD- BACT	<p><b>State Only:</b> No</p> <p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard No. 7, an initial source test of the biomass boilers for VOCs emissions shall be conducted within 180 days after startup of and every two (2) years thereafter at maximum operating capacity.</p> <p>All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The owner/operator shall operate the biomass fired hot water heaters (boilers) in accordance with the manufacturer's specifications. The permittee shall install, calibrate, operate and maintain monitoring and recording devices for inlet water temperature (°F), outlet water temperature, flow rate and, water pressure (psig). Records shall be maintained on site and made available to a Department representative upon request</p> <p>Reports which demonstrate the rated heat input capacity of each biomass fired hot water heater (boiler) including, biomass heating value (as fired), hot water production inlet and outlet temperature, and any other parameters necessary which demonstrate that the biomass boilers are operating in accordance with manufacturer's specification shall be submitted semi-annually.</p>				
5.B.12	EU001 EU002	CH <sub>4</sub> / PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the biomass boilers for CH<sub>4</sub> is determined to be efficient boiler design and Good Combustion Practices.</p> <p>The BACT CH<sub>4</sub> emission limit for each biomass boiler is established as follows:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Emission Unit</th> <th style="text-align: center;">Proposed BACT Limit</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Biomass Boilers</td> <td style="text-align: center;">37.1 tpy (12-month rolling sum)</td> </tr> </tbody> </table>	Emission Unit	Proposed BACT Limit	Biomass Boilers	37.1 tpy (12-month rolling sum)
Emission Unit	Proposed BACT Limit						
Biomass Boilers	37.1 tpy (12-month rolling sum)						

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.12 (continued)	EU001 EU002	CH <sub>4</sub> /PSD- BACT	<p><b>State Only:</b> No</p> <p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard No. 7, an initial thermal efficiency test for each boiler shall be conducted, per the abbreviated version of ASME PTC 4, 1998, or similar test for thermal efficiency, as approved by the Bureau, within 180 days after startup and every two (2) years thereafter, to verify the boiler thermal efficiency is at least 70%, and to verify emission estimates, and to establish the emission factor for the 12-month rolling sum. The CH<sub>4</sub> emissions established by the source testing will be added to the other calculated pollutants to establish the total emissions for CO<sub>2</sub>e.</p> <p>All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The owner/operator shall demonstrate compliance with the CH<sub>4</sub> emission limit on a 12 month rolling sum. Reports of the calculated values and the twelve-month rolling sum shall be submitted semi-annually.</p> <p>The owner/operator shall demonstrate compliance with the CO<sub>2</sub>e emission limit (4,575 tpy, total for both boilers) on a 12 month rolling sum. Reports of the calculated values and the twelve-month rolling sum shall be submitted semi-annually. Note: the CO<sub>2</sub>e emission limit for the biomass boilers includes CH<sub>4</sub> and N<sub>2</sub>O, only ( July 2011, EPA issued a deferral for CO<sub>2</sub> emissions from bioenergy and other biogenic sources).</p> <p>An algorithm, including example calculations and emission factors, explaining the method used to determine CH<sub>4</sub> and CO<sub>2</sub>e emission rates shall be included in the initial report. Subsequent submittals of the algorithm and example calculations are unnecessary, unless the method of calculation is found to be unacceptable by the Bureau or if the facility changes the method of calculating emissions and/or changes emission factors.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions				
5.B.12 (continued)	EU001 EU002	CH <sub>4</sub> /PSD- BACT	<p><b>Monitoring/Record Keeping/Reporting/Other: (continued)</b>            These good design and operating practices will be developed and maintained in an Operations and Maintenance Manual (O &amp; M Manual) which specifies proper operation and repair of the biomass boilers.</p> <p>As a minimum this O &amp; M Manual shall include:</p> <ol style="list-style-type: none"> <li>1. The vendor requirements for maintenance and operation and manufacturer updates as applicable to the purchased equipment (i.e. vendor manual with updates). Any deviation from the vendor requirements shall be supported in detail to not be effective.</li> <li>2. Facility's response to source test results, visual observations, or change in any process variables such as change in fuel supply.</li> <li>3. Methods for minimizing emissions during start-up, shut-down and malfunctions, while continuing to meet BACT limits.</li> </ol> <p>The original O &amp; M Plan should be submitted within 180 days of startup.</p> <p>Deficiencies or omissions in the O &amp; M Manual will be corrected within six (6) months of notification from this Bureau. This O &amp; M Manual will be updated as required to reflect changes in operations, equipment, and emissions.</p> <p>The facility must have as a minimum the following as good combustion practices:</p> <ol style="list-style-type: none"> <li>1. Good air/fuel mixing in the combustion zone;</li> <li>2. Sufficient residence time to complete combustion;</li> <li>3. Proper biomass fuel supply system design and operation</li> <li>4. Operator and maintenance practices including good furnace maintenance and operation;</li> <li>5. Oxygen levels high enough to complete combustion while maximizing thermal efficiency.</li> </ol>				
5.B.13	EU001 EU002	N <sub>2</sub> O/ PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the biomass boilers for N<sub>2</sub>O is determined to efficient boiler design and Good Combustion Practices.</p> <p>The BACT N<sub>2</sub>O emission limit for each biomass boiler is established as follows:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Emission Unit</th> <th style="text-align: center;">Proposed BACT Limit</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Biomass Boilers</td> <td style="text-align: center;">4.9 tpy (12-month rolling sum)</td> </tr> </tbody> </table>	Emission Unit	Proposed BACT Limit	Biomass Boilers	4.9 tpy (12-month rolling sum)
Emission Unit	Proposed BACT Limit						
Biomass Boilers	4.9 tpy (12-month rolling sum)						

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.13 (continued)	EU001 EU002	N <sub>2</sub> O /PSD- BACT	<p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard No. 7, an initial thermal efficiency test for each boiler shall be conducted, per the abbreviated version of ASME PTC 4, 1998, or similar test for thermal efficiency, as approved by the Bureau, within 180 days after startup and every two (2) years thereafter, to verify the boiler thermal efficiency is at least 70%, and to verify emission estimates, and to establish the emission factor for the 12-month rolling sum. The N<sub>2</sub>O emissions established by the source testing will be added to the other calculated pollutants to establish the total emissions for CO<sub>2</sub>e.</p> <p>All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The owner/operator shall demonstrate compliance with the N<sub>2</sub>O emission limit on a 12 month rolling sum. Reports of the calculated values and the twelve-month rolling sum shall be submitted semi-annually.</p> <p>The owner/operator shall demonstrate compliance with the CO<sub>2</sub>e emission limit (4,575 tpy, total for both boilers) on a 12 month rolling sum. Reports of the calculated values and the twelve-month rolling sum shall be submitted semi-annually. Note: the CO<sub>2</sub>e emission limit for the biomass boilers includes CH<sub>4</sub> and N<sub>2</sub>O, only ( July 2011, EPA issued a deferral for CO<sub>2</sub> emissions from bioenergy and other biogenic sources).</p> <p>An algorithm, including example calculations and emission factors, explaining the method used to determine N<sub>2</sub>O and CO<sub>2</sub>e emission rates shall be included in the initial report. Subsequent submittals of the algorithm and example calculations are unnecessary, unless the method of calculation is found to be unacceptable by the Bureau or if the facility changes the method of calculating emissions and/or changes emission factors.</p>

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.13 (continued)	EU001 EU002	N <sub>2</sub> O /PSD- BACT	<p><b>Monitoring/Record Keeping/Reporting/Other: (continued)</b></p> <p>The owner/operator shall develop an Operation and Maintenance plan for Good Combustion Practices. These good combustion practices will be developed and maintained in an Operations and Maintenance Manual (O &amp; M Manual) which specifies proper operation and repair of the biomass boilers.</p> <p>These good design and operating practices will be developed and maintained in an Operations and Maintenance Manual (O &amp; M Manual) which specifies proper operation and repair of the biomass boilers.</p> <p>As a minimum this O &amp; M Manual shall include:</p> <ol style="list-style-type: none"> <li>1. The vendor requirements for maintenance and operation and manufacturer updates as applicable to the purchased equipment (i.e. vendor manual with updates). Any deviation from the vendor requirements shall be supported in detail to not be effective.</li> <li>2. Facility's response to source test results, visual observations, or change in any process variables such as change in fuel supply.</li> <li>3. Methods for minimizing emissions during start-up, shut-down and malfunctions, while continuing to meet BACT limits.</li> </ol> <p>The original O &amp; M Plan should be submitted within 180 days of startup.</p> <p>Deficiencies or omissions in the O &amp; M Manual will be corrected within six (6) months of notification from this Bureau. This O &amp; M Manual will be updated as required to reflect changes in operations, equipment, and emissions.</p> <p>The facility must have as a minimum the following as good combustion practices:</p> <ol style="list-style-type: none"> <li>1. Good air/fuel mixing in the combustion zone;</li> <li>2. Sufficient residence time to complete combustion;</li> <li>3. Proper biomass fuel supply system design and operation</li> <li>4. Operator and maintenance practices including good furnace maintenance and operation;</li> <li>5. Oxygen levels high enough to complete combustion while maximizing thermal efficiency.</li> </ol>
<b>EU003 – EU006 – NATURAL GAS FIRED BOILERS</b>			

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.14	EU003 EU004 EU005 EU006	Opacity/ Standard 1	<p><b>Limits/Standards:</b> In accordance with S.C. Regulation 61-62.5, Standard No. 1, Emissions from Fuel Burning Operations, the boilers (EU003, EU004, EU005, EU006) shall not discharge into the ambient air smoke which exceeds an opacity of 20% (each). The twenty (20) percent opacity limit may be exceeded for sootblowing, but may not be exceeded for more than six (6) minutes in a one hour period nor be exceeded for more than a total of twenty-four (24) minutes in a twenty-four (24) hour period. Emissions caused by sootblowing shall not exceed sixty (60) percent opacity.</p> <p>The opacity standards set forth above apply at all times. The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions.</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b> The owner/operator shall perform a visual inspection on a semi-annual, basis. Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. The owner/operator shall submit semi-annual reports.</p>
5.B.15	EU003 EU004 EU005 EU006	PM/ Standard 1	<p><b>Limits/Standards:</b> In accordance with S.C. Regulation 61-62.5, Standard No. 1 - Emissions from Fuel Burning Operations, Section II - Particulate Matter Emissions, the allowable discharge of particulate matter resulting from the fuel burning operations is 0.6 pounds per million BTU input (each).</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b> The owner/operator shall operate the natural gas fired hot water heaters (boilers) in accordance with the manufacturer's specifications. The owner/operator shall install, calibrate, operate and maintain monitoring and recording devices for inlet water temperature (°F), outlet water temperature, water flow rate and water pressure (psig). Records shall be maintained on site and made available upon request. Reports which demonstrate the rated heat input capacity of each natural gas hot water heater (boiler) including, hot water production, inlet and outlet temperature, and any other parameters necessary which demonstrate that the natural gas boilers are operating in accordance with manufacturer's specification shall be submitted semi-annually.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.16	EU003 EU004 EU005 EU006	SO <sub>2</sub> / Standard 1	<p><b>Limits/Standards:</b> In accordance with S.C. Regulation 61-62.5, Standard No. 1 - Emissions from Fuel Burning Operations, Section III - Sulfur Dioxide Emissions, the maximum allowable discharge of sulfur dioxide (SO<sub>2</sub>) resulting from the fuel burning operations is 3.5 pounds per million BTU input (each).</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The boilers (EU003, EU004, EU005, EU006) are permitted to combust natural gas as the primary fuel, and No.2 fuel oil (0.05% maximum sulfur content by weight, as back-up fuel, only during periods of natural gas curtailment, or during periods of natural gas supply emergencies, or for the purpose of conducting periodic testing not to exceed a combined total of 48 hours during any calendar year). The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality</p> <p>The owner/operator must record the date, time, and duration when any periodic testing (utilizing No. 2 fuel oil) occurs. Monthly and yearly total periodic testing hours (utilizing No. 2 fuel oil) shall be calculated. Records of any periods of periodic testing (utilizing No. 2 fuel oil) shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to a Department representative upon request. Reports of the combined total periodic testing hours shall be submitted semi-annually. If there are no periods of periodic testing utilizing No. 2 fuel oil, then the report shall indicate accordingly.</p> <p>Reports of the date, time, duration of any periods of natural gas curtailment or natural gas supply emergencies, each boiler's operating hours while firing on No. 2 fuel oil, fuel oil sulfur content, total number of operating hours, shall be submitted semi-annually. If there are no periods of natural gas curtailment or natural gas emergencies during the period, then the report shall indicate accordingly.</p>
5.B.17	EU003 EU004 EU005 EU006	NSPS Subpart Dc	<p>The natural gas fired boilers (EU003 - EU006) are subject to New Source Performance Standard (NSPS 40 CFR 60), Subpart A, General Conditions and Subpart Dc, Small Industrial - Commercial - Institutional Steam Generating Units, for which Construction, Reconstruction or Modification Commenced after June 9, 1989. The permittee shall comply with all applicable parts of Subparts A and Dc.</p> <p><b>40 CFR §60.48c Reporting And Recordkeeping Requirements.</b>  60.48 c (a) The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction and actual startup, as provided by §60.7</p>

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.18	EU003 EU004 EU005 EU006	SO <sub>2</sub> /NSPS Subpart Dc	<p><b>Limits/Standards:</b> The boilers (EU003, EU004, EU005, EU006) are permitted to combust natural gas as the primary fuel, and No.2 fuel oil (0.05% maximum sulfur content by weight, as back-up fuel, only during periods of natural gas curtailment, or during periods of natural gas supply emergencies, or for the purpose of conducting periodic testing not to exceed a combined total of 48 hours during any calendar year).</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The owner/operator must record the date, time, and duration when any periodic testing (utilizing No. 2 fuel oil) occurs. Monthly and yearly total periodic testing hours (utilizing No. 2 fuel oil) shall be calculated. Records of any periods of periodic testing (utilizing No. 2 fuel oil) shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to a Department representative upon request. Reports of the combined total periodic testing hours shall be submitted semi-annually. If there are no periods of periodic testing utilizing No. 2 fuel oil, then the report shall indicate accordingly.</p> <p>Reports of the date, time, duration of any periods of natural gas curtailment or natural gas supply emergencies, each boiler's operating hours while firing on No. 2 fuel oil, shall be submitted semi-annually. If there are no periods of natural gas curtailment or natural gas emergencies during the period, then the report shall indicate accordingly.</p> <p>40 CFR §60.48c Reporting And Recordkeeping Requirements  Compliance with the fuel sulfur limit shall be determined based on certification from the fuel supplier as specified in 40 CFR 60.48c(f). Records of these certifications shall be kept on site. Reports shall be submitted every six-month period. The reports shall consist of the fuel certification records and a signed statement from the owner/operator that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.</p> <p>60.48 (g)(2) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO<sub>2</sub> standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.</p> <p>All records shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to a Department representative upon request. Reports shall be submitted semi-annually.</p>

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.19	EU003 EU004 EU005 EU006	SO <sub>2</sub> / Operating Hours	<p><b>Limits/Standards:</b> The owner/operator is permitted to utilize No.2 fuel oil (0.05% maximum sulfur content by weight), as a back-up fuel, for boilers EU003, EU004, EU005, and EU006 only during times of natural gas curtailment, or during periods of natural gas supply emergencies, or for the purpose of conducting periodic testing not to exceed a combined total of 48 hours during any calendar year. The boilers are each limited to operating a maximum of 500 hours per year, when utilizing No. 2 fuel oil as back-up fuel.</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other</b>  The owner/operator shall record the date, time, duration of any periods of natural gas curtailment or natural gas supply emergencies, of each boiler's operating hours while firing on No. 2 fuel oil, and fuel oil sulfur content.</p> <p>All records shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to a Department representative upon request.</p> <p>The owner/operator must record the date, time, and duration when any periodic testing (utilizing No. 2 fuel oil) occurs. Monthly and yearly total periodic testing hours (utilizing No. 2 fuel oil) shall be calculated. Records of any periods of periodic testing (utilizing No. 2 fuel oil) shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to a Department representative upon request. Reports of the combined total periodic testing hours shall be submitted semi-annually. If there are no periods of periodic testing utilizing No. 2 fuel oil, then the report shall indicate accordingly.</p> <p>Reports of the date, time, duration of any periods of natural gas curtailment or natural gas supply emergencies, each boiler's operating hours while firing on No. 2 fuel oil shall be submitted semi-annually. If there are no periods of natural gas curtailment or natural gas emergencies during the period, then the report shall indicate accordingly.</p>

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions									
5.B.20	EU003 EU004 EU005 EU006	NOx/ PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the natural gas fired boilers for NO<sub>x</sub> is determined to be a package with Low NO<sub>x</sub> burners (LNB), Flue Gas Recirculation (FGR), and Good Combustion Practices.</p> <p>The BACT NO<sub>x</sub> emission limit for each boiler is established as follows:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Emission Unit</th> <th style="text-align: center;">Proposed BACT Limit</th> <th style="text-align: center;">Averaging Period</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Natural gas-fired boilers</td> <td style="text-align: center;">0.036 lb/MMBtu</td> <td style="text-align: center;">3-hour average</td> </tr> <tr> <td style="text-align: center;">Natural gas-fired boilers</td> <td style="text-align: center;">1.66 lb/hr</td> <td style="text-align: center;">1-hour average</td> </tr> </tbody> </table> <p>* The facility shall comply with both the (lb/MM Btu) limit based on a 3-hour averaging period and the (lb/hr) limit based on a 1-hour averaging period at all times except during periods of start-up and shut-down. During periods of start-up and shut down the facility shall comply with the lb/hr limit. The proposed BACT limits are based on the boilers combusting natural gas fuel. The proposed BACT limits are not applicable when the boilers are combusting No. 2 fuel oil as back-up fuel only, during periods of natural gas curtailment, or during periods of natural gas supply emergencies.</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard No. 7, an initial source test of the Natural gas-fired boilers for NO<sub>x</sub> emissions shall be conducted within 180 days after initial startup of and every two (2) years thereafter at maximum operating capacity.</p> <p>All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The boilers (EU003, EU004, EU005, EU006) are permitted to combust natural gas as the primary fuel, and No.2 fuel oil (0.05% maximum sulfur content by weight, as the back-up fuel only during periods of natural gas curtailment, or during periods of natural gas supply emergencies, or for the purpose of conducting periodic testing not to exceed a combined total of 48 hours during any calendar year). The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p>	Emission Unit	Proposed BACT Limit	Averaging Period	Natural gas-fired boilers	0.036 lb/MMBtu	3-hour average	Natural gas-fired boilers	1.66 lb/hr	1-hour average
Emission Unit	Proposed BACT Limit	Averaging Period										
Natural gas-fired boilers	0.036 lb/MMBtu	3-hour average										
Natural gas-fired boilers	1.66 lb/hr	1-hour average										

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.20 (continued)	EU003 EU004 EU005 EU006	NOx/ PSD- BACT	<p><b>Monitoring/Record Keeping/Reporting/Other: (continued)</b></p> <p>The owner/operator shall operate the natural gas fired hot water heaters (boilers) in accordance with the manufacturer’s specifications. The permittee shall install, calibrate, operate and maintain monitoring and recording devices for inlet water temperature (°F), outlet water temperature, flow rate and, water pressure (psig). Records shall be maintained on site and made available to a Department representative upon request.</p> <p>Reports which demonstrate the rated heat input capacity of each natural gas fired hot water heater (boiler) including, total natural gas fuel consumption, hot water production, inlet and outlet temperature, and any other parameters necessary which demonstrate that the natural gas boilers are operating in accordance with manufacturer’s specification shall be submitted semi-annually.</p> <p>The owner/operator shall develop an Operation and Maintenance plan for Good Combustion Practices. These good combustion practices will be developed and maintained in an Operations and Maintenance Manual (O &amp; M Manual) which specifies proper operation and repair of the natural gas fired boilers.</p> <p>As a minimum this O &amp; M Manual shall include:</p> <ol style="list-style-type: none"> <li>1. The vendor requirements for maintenance and operation and manufacturer updates as applicable to the purchased equipment (i.e. vendor manual with updates). Any deviation from the vendor requirements shall be supported in detail to not be effective.</li> <li>2. Facility’s response to source test results, visual observations, or change in any process variables such as throughput, raw materials etc.</li> <li>3. Methods for minimizing emissions during start-up, shut-down and malfunctions, while continuing to meet BACT limits.</li> </ol> <p>The original O &amp; M Plan should be submitted within 180 days of startup.</p> <p>Deficiencies or omissions in the O &amp; M Manual will be corrected within six (6) months of notification from this Bureau. This O &amp; M Manual will be updated as required to reflect changes in operations, equipment, and emissions.</p> <p>The facility must have as a minimum the following as good design and combustion practices:</p> <ol style="list-style-type: none"> <li>1. Good air/fuel mixing in the combustion zone;</li> <li>2. Sufficient residence time to complete combustion;</li> <li>3. Proper fuel gas supply system design and operation in order to minimize the effect of contaminants and fluctuations in pressure and flow on the fuel gas quality delivered to combustion units;</li> <li>4. Operator and maintenance practices including good burner maintenance and operation;</li> <li>5. High temperatures and low oxygen levels in the primary combustion zone; and</li> <li>6. Overall excess oxygen levels high enough to complete combustion while maximizing thermal efficiency.</li> </ol>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions						
5.B.21	EU003 EU004 EU005 EU006	CO/ PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the natural gas fired boilers for CO is determined to be a package with Low NOx burners (LNB), Flue Gas Recirculation (FGR), and Good Combustion Practices.</p> <p>The BACT CO emission limit for each natural gas fired boiler is established as follows:</p> <table border="1" data-bbox="560 625 1502 751"> <thead> <tr> <th data-bbox="560 625 813 688">Emission Unit</th> <th data-bbox="813 625 1024 688">Proposed BACT Limit</th> <th data-bbox="1024 625 1502 688">Averaging Period</th> </tr> </thead> <tbody> <tr> <td data-bbox="560 688 813 751">Natural Gas Fired Boiler</td> <td data-bbox="813 688 1024 751">0.039 lb/MMBtu</td> <td data-bbox="1024 688 1502 751">3-hour average</td> </tr> </tbody> </table> <p>The proposed BACT limits are based on the boilers combusting natural gas fuel. The proposed BACT limits are not applicable when the boilers are combusting No. 2 fuel oil as back-up fuel only, during periods of natural gas curtailment, or during periods of natural gas supply emergencies.</p> <p>These good design and operating practices will be developed and maintained in an Operations and Maintenance Manual (O &amp; M Manual) which specifies proper operation and repair of the natural gas fired boilers.</p> <p>As a minimum this O &amp; M Manual shall include:</p> <ol style="list-style-type: none"> <li>1. The vendor requirements for maintenance and operation and manufacturer updates as applicable to the purchased equipment (i.e. vendor manual with updates). Any deviation from the vendor requirements shall be supported in detail to not be effective.</li> <li>2. Facility's response to source test results, visual observations, or change in any process variables such as change in fuel supply.</li> <li>3. Methods for minimizing emissions during start-up, shut-down and malfunctions, while continuing to meet BACT limits.</li> </ol> <p>The original O &amp; M Plan should be submitted within 180 days of startup.</p> <p>Deficiencies or omissions in the O &amp; M Manual will be corrected within six (6) months of notification from this Bureau. This O &amp; M Manual will be updated as required to reflect changes in operations, equipment, and emissions.</p> <p>The facility must have as a minimum the following as good combustion practices:</p> <ol style="list-style-type: none"> <li>1. Good air/fuel mixing in the combustion zone;</li> <li>2. Sufficient residence time to complete combustion;</li> <li>3. Proper fuel gas supply system design and operation in order to minimize the effect of contaminants and fluctuations in pressure and flow on the fuel gas quality delivered to combustion units;</li> <li>4. Operator and maintenance practices including good burner maintenance and operation;</li> <li>5. High temperatures and low oxygen levels in the primary combustion zone; and</li> <li>6. Overall excess oxygen levels high enough to complete combustion while maximizing thermal efficiency.</li> </ol>	Emission Unit	Proposed BACT Limit	Averaging Period	Natural Gas Fired Boiler	0.039 lb/MMBtu	3-hour average
Emission Unit	Proposed BACT Limit	Averaging Period							
Natural Gas Fired Boiler	0.039 lb/MMBtu	3-hour average							

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.21 (continued)	EU003 EU004 EU005 EU006	CO/ PSD- BACT	<p><b>State Only:</b> No</p> <p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard No. 7, an initial source test of the Natural gas-fired boilers for CO emissions shall be conducted within 180 days after initial startup of and every two (2) years thereafter at maximum operating capacity.</p> <p>All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The boilers (EU003, EU004, EU005, EU006) are permitted to combust natural gas as the primary fuel, and No.2 fuel oil (0.05% maximum sulfur content by weight, as the back-up fuel only during periods of natural gas curtailment, or during periods of natural gas supply emergencies, or for the purpose of conducting periodic testing not to exceed a combined total of 48 hours during any calendar year). The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p> <p>The owner/operator must record the date, time, and duration when any periodic testing (utilizing No. 2 fuel oil) occurs. Monthly and yearly total periodic testing hours (utilizing No. 2 fuel oil) shall be calculated. Records of any periods of periodic testing (utilizing No. 2 fuel oil) shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to a Department representative upon request. Reports of the combined total periodic testing hours shall be submitted semi-annually. If there are no periods of periodic testing utilizing No. 2 fuel oil, then the report shall indicate accordingly.</p> <p>Reports of the date, time, duration of any periods of natural gas curtailment or natural gas supply emergencies, each boiler's operating hours while firing on No. 2 fuel oil, fuel oil sulfur content shall be submitted semi-annually. If there are no periods of natural gas curtailment or natural gas emergencies during the period, then the report shall indicate accordingly.</p>
5.B.21 (continued)	EU003 EU004 EU005 EU006	CO/ PSD- BACT	<p><b>Monitoring/Record Keeping/Reporting/Other: (continued)</b>  The owner/operator shall operate the natural gas fired hot water heaters (boilers) in accordance with the manufacturer's specifications. The permittee shall install, calibrate, operate and maintain monitoring and recording devices for inlet water temperature (°F), outlet water temperature, flow rate and, water pressure (psig). Records shall be maintained on site and made available to a Department representative upon request.</p> <p>Reports which demonstrate the rated heat input capacity of each natural gas fired hot water heater (boiler) including, total natural gas fuel consumption, hot water production, inlet and outlet temperature, and any other parameters necessary which demonstrate that the natural gas boilers are operating in accordance with manufacturer's specification shall be submitted semi-annually.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions						
5.B.22	EU003 EU004 EU005 EU006	VOC/ PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the natural gas fired boilers for VOC is determined to be Good Combustion Practices.</p> <p>The BACT VOC emission limit for each natural gas fired boiler is established as follows:</p> <table border="1" data-bbox="560 598 1502 724" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th data-bbox="560 598 812 661">Emission Unit</th> <th data-bbox="812 598 1023 661">Proposed BACT Limit</th> <th data-bbox="1023 598 1502 661">Averaging Period</th> </tr> </thead> <tbody> <tr> <td data-bbox="560 661 812 724" style="text-align: center;">Natural Gas Fired Boiler</td> <td data-bbox="812 661 1023 724" style="text-align: center;">0.003 lb/MMBtu</td> <td data-bbox="1023 661 1502 724" style="text-align: center;">3-hour average</td> </tr> </tbody> </table> <p>The proposed BACT limits are based on the boilers combusting natural gas fuel. The proposed BACT limits are not applicable when the boilers are combusting No. 2 fuel oil as back-up fuel only, during periods of natural gas curtailment, or during periods of natural gas supply emergencies.</p> <p>The owner/operator shall develop an Operation and Maintenance plan for Good Combustion Practices. These good design and operating practices will be developed and maintained in an Operations and Maintenance Manual (O &amp; M Manual) which specifies proper operation and repair of the natural gas fired boilers.</p> <p>As a minimum this O &amp; M Manual shall include:</p> <ol style="list-style-type: none"> <li>1. The vendor requirements for maintenance and operation and manufacturer updates as applicable to the purchased equipment (i.e. vendor manual with updates). Any deviation from the vendor requirements shall be supported in detail to not be effective.</li> <li>2. Facility's response to source test results, visual observations, or change in any process variables such as change in fuel supply.</li> <li>3. Methods for minimizing emissions during start-up, shut-down and malfunctions, while continuing to meet BACT limits.</li> </ol> <p>The original O &amp; M Plan should be submitted within 180 days of startup.</p> <p>Deficiencies or omissions in the O &amp; M Manual will be corrected within six (6) months of notification from this Bureau. This O &amp; M Manual will be updated as required to reflect changes in operations, equipment, and emissions.</p> <p>The facility must have as a minimum the following as good combustion practices:</p> <ol style="list-style-type: none"> <li>1. Good air/fuel mixing in the combustion zone;</li> <li>2. Sufficient residence time to complete combustion;</li> <li>3. Proper fuel gas supply system design and operation in order to minimize the effect of contaminants and fluctuations in pressure and flow on the fuel gas quality delivered to combustion units;</li> <li>4. Operator and maintenance practices including good burner maintenance and operation;</li> <li>5. High temperatures and low oxygen levels in the primary combustion zone; and</li> <li>6. Overall excess oxygen levels high enough to complete combustion while maximizing thermal efficiency.</li> </ol>	Emission Unit	Proposed BACT Limit	Averaging Period	Natural Gas Fired Boiler	0.003 lb/MMBtu	3-hour average
Emission Unit	Proposed BACT Limit	Averaging Period							
Natural Gas Fired Boiler	0.003 lb/MMBtu	3-hour average							

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.22 (continued)	EU003 EU004 EU005 EU006	VOC/ PSD- BACT	<p><b>State Only:</b> No</p> <p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard No. 7, an initial source test of the Natural gas-fired boilers for VOCs emissions shall be conducted within 180 days after initial startup of and every two (2) years thereafter at maximum operating capacity.</p> <p>All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The boilers (EU003, EU004, EU005, EU006) are permitted to combust natural gas as the primary fuel, and No.2 fuel oil (0.05% maximum sulfur content by weight, as the back-up fuel only during periods of natural gas curtailment, or during periods of natural gas supply emergencies, or for the purpose of conducting periodic testing not to exceed a combined total of 48 hours during any calendar year) as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p> <p>The owner/operator must record the date, time, and duration when any periodic testing (utilizing No. 2 fuel oil) occurs. Monthly and yearly total periodic testing hours (utilizing No. 2 fuel oil) shall be calculated. Records of any periods of periodic testing (utilizing No. 2 fuel oil) shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to a Department representative upon request. Reports of the combined total periodic testing hours shall be submitted semi-annually. If there are no periods of periodic testing utilizing No. 2 fuel oil, then the report shall indicate accordingly.</p> <p>Reports of the date, time, duration of any periods of natural gas curtailment or natural gas supply emergencies, each boiler's operating hours while firing on No. 2 fuel oil, fuel oil sulfur content shall be submitted semi-annually. If there are no periods of natural gas curtailment or natural gas emergencies during the period, then the report shall indicate accordingly.</p>
5.B.22 (continued)	EU003 EU004 EU005 EU006	VOC/ PSD- BACT	<p><b>Monitoring/Record Keeping/Reporting/Other: (continued)</b>  The owner/operator shall operate the natural gas fired hot water heaters (boilers) in accordance with the manufacturer's specifications. The permittee shall install, calibrate, operate and maintain monitoring and recording devices for inlet water temperature (°F), outlet water temperature, flow rate and, water pressure (psig). Records shall be maintained on site and made available to a Department representative upon request.</p> <p>Reports which demonstrate the rated heat input capacity of each natural gas fired hot water heater (boiler) including, total natural gas fuel consumption, hot water production, inlet and outlet temperature, and any other parameters necessary which demonstrate that the natural gas boilers are operating in accordance with manufacturer's specification shall be submitted semi-annually.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions						
5.B.23	EU003 EU004 EU005 EU006	PM/PM <sub>10</sub> / PM <sub>2.5</sub> / PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the natural gas fired boilers for PM/PM<sub>10</sub>/PM<sub>2.5</sub> is determined to be Good Combustion Practices.</p> <p>The BACT PM/PM<sub>10</sub>/PM<sub>2.5</sub> emission limit for each natural gas fired boiler is established as follows:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Emission Unit</th> <th style="text-align: center;">*Proposed BACT Limit</th> <th style="text-align: center;">Averaging Period</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">*Natural Gas Fired Boiler</td> <td> Total PM = 0.005 lb/MMBtu  Filterable PM = 0.002 lb/MMBtu   Total PM<sub>10</sub> = 0.005 lb/MMBtu  Filterable PM<sub>10</sub> = 0.002 lb/MMBtu   Total PM<sub>2.5</sub> = 0.005 lb/MMBtu  Filterable PM<sub>2.5</sub> = 0.002 lb/MMBtu </td> <td style="text-align: center;"> 3-hour average  EPA Method 5 for filterable PM and Method 202 for condensable PM </td> </tr> </tbody> </table> <p>*The proposed BACT limits are based on the boilers combusting natural gas fuel. The proposed BACT limits are not applicable when the boilers are combusting No. 2 fuel oil as back-up fuel only, during periods of natural gas curtailment, or during periods of natural gas supply emergencies.</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard No. 7, an initial source test of the Natural gas-fired boilers for PM, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions shall be conducted within 180 days after initial startup of and every two (2) years thereafter at maximum operating capacity. Particulate matter tests shall include filterable and condensable particulate matter. Less frequent source testing for condensable particulate matter may be approved, if at least two (2) consecutive stack tests show that the ratio of condensable particulate matter to total particulate matter is consistent and does not fluctuate. If less frequent condensable testing is approved the next source condensable test must be completed no more than 48 months after the previous source test. Results indicating that the ratio of condensable particulate to filterable particulate is inconsistent and fluctuates will result in reinstating the two year test cycle.</p> <p>All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p>	Emission Unit	*Proposed BACT Limit	Averaging Period	*Natural Gas Fired Boiler	Total PM = 0.005 lb/MMBtu Filterable PM = 0.002 lb/MMBtu  Total PM <sub>10</sub> = 0.005 lb/MMBtu Filterable PM <sub>10</sub> = 0.002 lb/MMBtu  Total PM <sub>2.5</sub> = 0.005 lb/MMBtu Filterable PM <sub>2.5</sub> = 0.002 lb/MMBtu	3-hour average EPA Method 5 for filterable PM and Method 202 for condensable PM
Emission Unit	*Proposed BACT Limit	Averaging Period							
*Natural Gas Fired Boiler	Total PM = 0.005 lb/MMBtu Filterable PM = 0.002 lb/MMBtu  Total PM <sub>10</sub> = 0.005 lb/MMBtu Filterable PM <sub>10</sub> = 0.002 lb/MMBtu  Total PM <sub>2.5</sub> = 0.005 lb/MMBtu Filterable PM <sub>2.5</sub> = 0.002 lb/MMBtu	3-hour average EPA Method 5 for filterable PM and Method 202 for condensable PM							

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.23 (continued)	EU003 EU004 EU005 EU006	PM/PM <sub>10</sub> / PM <sub>2.5</sub> / PSD- BACT	<p><b>Monitoring/Record Keeping/Reporting/Other:</b></p> <p>The owner/operator shall operate the natural gas fired hot water heaters (boilers) in accordance with the manufacturer's specifications. The permittee shall install, calibrate, operate and maintain monitoring and recording devices for inlet water temperature (°F), outlet water temperature, flow rate and, water pressure (psig). Records shall be maintained on site and made available to a Department representative upon request.</p> <p>Reports which demonstrate the rated heat input capacity of each natural gas fired hot water heater (boiler) including, total natural gas fuel consumption, hot water production, inlet and outlet temperature, and any other parameters necessary which demonstrate that the natural gas boilers are operating in accordance with manufacturer's specification shall be submitted semi-annually.</p> <p>The boilers (EU003, EU004, EU005, EU006) are permitted to combust natural gas as the primary fuel, and No. 2 fuel oil (0.05% maximum sulfur content by weight, as the back-up fuel only during periods of natural gas curtailment, or during periods of natural gas supply emergencies, or for the purpose of conducting periodic testing not to exceed a combined total of 48 hours during any calendar year). The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p> <p>The owner/operator must record the date, time, and duration when any periodic testing (utilizing No. 2 fuel oil) occurs. Monthly and yearly total periodic testing hours (utilizing No. 2 fuel oil) shall be calculated. Records of any periods of periodic testing (utilizing No. 2 fuel oil) shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to a Department representative upon request. Reports of the combined total periodic testing hours shall be submitted semi-annually. If there are no periods of periodic testing utilizing No. 2 fuel oil, then the report shall indicate accordingly.</p> <p>Reports of the date, time, duration of any periods of natural gas curtailment or natural gas supply emergencies, each boiler's operating hours while firing on No. 2 fuel oil, fuel oil sulfur content shall be submitted semi-annually. If there are no periods of natural gas curtailment or natural gas emergencies during the period, then the report shall indicate accordingly.</p>

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions				
5.B.23 (continued)	EU003 EU004 EU005 EU006	PM/PM <sub>10</sub> / PM <sub>2.5</sub> / PSD- BACT	<p><b>Monitoring/Record Keeping/Reporting/Other: (continued)</b></p> <p>The owner/operator shall develop an Operation and Maintenance plan for Good Combustion Practices. These good design and operating practices will be developed and maintained in an Operations and Maintenance Manual (O &amp; M Manual) which specifies proper operation and repair of the natural gas fired boilers.</p> <p>As a minimum this O &amp; M Manual shall include:</p> <ol style="list-style-type: none"> <li>1. The vendor requirements for maintenance and operation and manufacturer updates as applicable to the purchased equipment (i.e. vendor manual with updates). Any deviation from the vendor requirements shall be supported in detail to not be effective.</li> <li>2. Facility's response to source test results, visual observations, or change in any process variables such as change in fuel supply.</li> <li>3. Methods for minimizing emissions during start-up, shut-down and malfunctions, while continuing to meet BACT limits.</li> </ol> <p>The original O &amp; M Plan should be submitted within 180 days of startup.</p> <p>Deficiencies or omissions in the O &amp; M Manual will be corrected within six (6) months of notification from this Bureau. This O &amp; M Manual will be updated as required to reflect changes in operations, equipment, and emissions.</p> <p>The facility must have as a minimum the following as good combustion practices:</p> <ol style="list-style-type: none"> <li>1. Good air/fuel mixing in the combustion zone;</li> <li>2. Sufficient residence time to complete combustion;</li> <li>3. Proper fuel gas supply system design and operation in order to minimize the effect of contaminants and fluctuations in pressure and flow on the fuel gas quality delivered to combustion units;</li> <li>4. Operator and maintenance practices including good burner maintenance and operation;</li> <li>5. High temperatures and low oxygen levels in the primary combustion zone; and</li> <li>6. Overall excess oxygen levels high enough to complete combustion while maximizing thermal efficiency.</li> </ol>				
5.B.24	EU003 EU004 EU005 EU006	CO <sub>2</sub> e /PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the natural gas fired boilers for CO<sub>2</sub>e is determined to be Good Design Combustion Practices.</p> <p>The BACT CO<sub>2</sub>e emission limit for each natural gas fired boiler is established as follows:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Emission Unit</th> <th style="text-align: center;">Proposed BACT Limit</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Natural Gas Fired Boiler</td> <td style="text-align: center;">146 lb CO<sub>2</sub>e/ MM Btu (output)</td> </tr> </tbody> </table> <p><b>State Only:</b> No</p>	Emission Unit	Proposed BACT Limit	Natural Gas Fired Boiler	146 lb CO <sub>2</sub> e/ MM Btu (output)
Emission Unit	Proposed BACT Limit						
Natural Gas Fired Boiler	146 lb CO <sub>2</sub> e/ MM Btu (output)						

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
			<p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard No. 7, an initial thermal efficiency test for each boiler shall be conducted, per the abbreviated version of ASME PTC 4, 1998, or similar test for thermal efficiency, as approved by the Bureau, within 180 days after startup and every two (2) years thereafter, to verify the boiler thermal efficiency is at least 80%.</p> <p>In accordance with SC Regulation 61-62.5, Standard No. 7 an initial source test to verify emission estimates, and to establish the emission factor for the CO<sub>2</sub>e, 12-month rolling sum, shall be conducted within 180 days after startup. The CO<sub>2</sub> emissions established by the source testing will be added to the other calculated pollutants to establish the total emissions for the CO<sub>2</sub>e emission limit on a 12 month rolling sum.</p> <p>All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The boilers (EU003, EU004, EU005, EU006) are permitted to combust natural gas as the primary fuel, and No.2 fuel oil (0.05% maximum sulfur content by weight, as the back-up fuel only during periods of natural gas curtailment, or during periods of natural gas supply emergencies, or for the purpose of conducting periodic testing not to exceed a combined total of 48 hours during any calendar year). The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p>
5.B.24 (continued)	EU003 EU004 EU005 EU006	CO <sub>2</sub> e /PSD- BACT	<p><b>Monitoring/Record Keeping/Reporting/Other: (continued)</b>  The owner/operator shall operate the natural gas fired hot water heaters (boilers) in accordance with the manufacturer's specifications. The permittee shall install, calibrate, operate and maintain monitoring and recording devices for inlet water temperature (°F), outlet water temperature, flow rate and, water pressure (psig). Records shall be maintained on site and made available to a Department representative upon request.</p> <p>Reports which demonstrate the rated heat input capacity of each natural gas fired hot water heater (boiler) including, total natural gas fuel consumption, hot water production, inlet and outlet temperature, and any other parameters necessary which demonstrate that the natural gas boilers are operating in accordance with manufacturer's specification shall be submitted semi-annually.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.24 (continued)	EU003 EU004 EU005 EU006	CO <sub>2</sub> e /PSD- BACT	<p><b>Monitoring/Record Keeping/Reporting/Other: (continued)</b></p> <p>The owner/operator shall demonstrate compliance with the CO<sub>2</sub>e emission limit on a 12 month rolling sum. Reports of the calculated values and the twelve-month rolling sum shall be submitted semi-annually.</p> <p>An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall be included in the initial report. Subsequent submittals of the algorithm and example calculations are unnecessary, unless the method of calculation is found to be unacceptable by the Bureau or if the facility changes the method of calculating emissions and/or changes emission factors.</p> <p>The owner/operator shall develop an Operation and Maintenance plan for Good Combustion Practices. These good combustion practices will be developed and maintained in an Operations and Maintenance Manual (O &amp; M Manual) which specifies proper operation and repair of the natural gas fired boilers.</p> <p>As a minimum this O &amp; M Manual shall include:</p> <ol style="list-style-type: none"> <li>1. The vendor requirements for maintenance and operation and manufacturer updates as applicable to the purchased equipment (i.e. vendor manual with updates). Any deviation from the vendor requirements shall be supported in detail to not be effective.</li> <li>2. Facility's response to source test results, visual observations, or change in any process variables such as throughput, raw materials etc.</li> <li>3. Methods for minimizing emissions during start-up, shut-down and malfunctions, while continuing to meet BACT limits.</li> </ol> <p>The original O &amp; M Plan should be submitted within 180 days of startup.</p> <p>Deficiencies or omissions in the O &amp; M Manual will be corrected within six (6) months of notification from this Bureau. This O &amp; M Manual will be updated as required to reflect changes in operations, equipment, and emissions.</p> <p>The facility must have as a minimum the following as good design and combustion practices:</p> <ol style="list-style-type: none"> <li>1. Good air/fuel mixing in the combustion zone;</li> <li>2. Sufficient residence time to complete combustion;</li> <li>3. Proper fuel gas supply system design and operation in order to minimize the effect of contaminants and fluctuations in pressure and flow on the fuel gas quality delivered to combustion units;</li> <li>4. Operator and maintenance practices including good burner maintenance and operation;</li> <li>5. High temperatures and low oxygen levels in the primary combustion zone; and</li> <li>6. Overall excess oxygen levels high enough to complete combustion while maximizing thermal efficiency.</li> </ol>
			<b>EU007 – DRYING KILNS</b>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.25	EU007	Opacity/ Standard 4	<p><b>Limits/Standards:</b> In accordance with S.C. Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20% (each).</p> <p><b>State Only: No</b></p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The permittee shall perform a visual inspection on a monthly basis. Visual inspections for the kilns can be conducted by a single ground level observation of the overall visible emissions from all 60 kilns arranged in 4 blocks. Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. The owner/operator shall submit semi-annually reports of these logs. If there are no incidences, a letter should be submitted semi-annually stating such.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions				
5.B.26	EU007	VOC/PSD-BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the sixty (60) drying kilns for VOC is determined to be proper design and operation and good work practices.</p> <p>At a minimum the good work practices should include:</p> <ol style="list-style-type: none"> <li>a. The lumber kiln drying operation target final moisture contents will be between 8% - 20% or greater.</li> <li>b. The lumber kiln will be operated following a wet bulb temperature set-point drying schedule of 300<sup>0</sup>F or lower.</li> <li>c. An Operation and Maintenance plan shall be submitted to the Department within 180 days of initial startup.</li> </ol> <p>The plan shall include a schedule and logs containing repair requests and performed maintenance for the proper calibration of monitoring, recording, computer controllers, and associated devices to insure accurate control and reporting.</p> <p>The BACT VOC for each drying kiln is established as follows:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Emission Unit</th> <th style="text-align: center;">Proposed BACT Limit</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Drying Kilns</td> <td style="text-align: center;">3.50 lb/MBF</td> </tr> </tbody> </table> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p>	Emission Unit	Proposed BACT Limit	Drying Kilns	3.50 lb/MBF
Emission Unit	Proposed BACT Limit						
Drying Kilns	3.50 lb/MBF						
5.B.26 (continued)	EU007	VOC/PSD-BACT	<p><b>Monitoring/Record Keeping/Reporting/Other:</b></p> <p><u>Before Each Kiln Cycle Routine</u></p> <ul style="list-style-type: none"> <li>- Ensure all thermocouples are pointed toward lumber and in the air flow.</li> <li>- Ensure kiln computer controller, including external alarm (if so equipped) is functioning properly.</li> </ul> <p><u>Monthly Routine</u></p> <ul style="list-style-type: none"> <li>- Check bearing bolts on fans.</li> <li>- Inspect linkage for security at all joints.</li> <li>- Inspect air venting motors for proper attachment to the mounting bases, ensure that arms are functioning properly.</li> </ul> <p><u>Semi-Annually</u></p> <ul style="list-style-type: none"> <li>- Check connection on all thermocouples.</li> </ul>				

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.26 (continued)	EU007	VOC/PSD-BACT	<p><b>Monitoring/Record Keeping/Reporting/Other:</b> (continued)</p> <ul style="list-style-type: none"> <li>i. Reports generated by the kiln computer for each batch (or charge) processed will contain as a minimum the date, wet-bulb actual and set-point temperature, dry-bulb actual and set-point temperature over the lumber drying time range. These reports will be maintained and kept on-site.</li> <li>ii. For each visual inspection, the log book will contain the date, the initials of the personnel conducting the inspection, results of the visual inspection, documentation of any maintenance performed and any calibration performed on the kiln operation control equipment. The log book will be maintained and kept on-site.</li> <li>iii. A log book or electronic file shall be maintained documenting any maintenance performed and any calibration performed on the kiln operation control equipment. Each entry shall record the date of the activity and the employee's name performing the task. The documentation will be maintained and kept on-site for a period of five (5) years and shall be made available to a Department representative upon request.</li> <li>iv. A semi-annual report will be submitted. This report will document any exceedances of the work practice standards and corrective actions taken to prevent any future exceedances.</li> </ul>
5.B.27	EU007	Production	<p><b>Limits/Standards:</b> In accordance with in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD) and SC 61-62.5, Standard No. 5.1 - Best Available Control Technology (BACT) / Lowest Achievable Emission Rate ("LAER"), the maximum (total) throughput of these indirectly heated drying kilns is limited to 700 million board feet per year of lumber.</p> <p><b>State Only:</b> Yes</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b> The owner/operator must record actual production (board feet) monthly and calculate a twelve-month rolling sum. Reports of the twelve-month rolling sum shall be submitted semi-annually.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions						
5.B.28	EU007	PM/PM <sub>10</sub> / PM <sub>2.5</sub> /PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the sixty (60) drying kilns for PM/PM<sub>10</sub>/PM<sub>2.5</sub> is determined to be Work Practices.</p> <p>At a minimum the good work practices should include:</p> <ol style="list-style-type: none"> <li>a. The lumber kiln drying operation target final moisture contents will be between 8% - 20% or greater.</li> <li>b. The lumber kiln will be operated following a wet bulb temperature set-point drying schedule of 300<sup>0</sup>F or lower.</li> <li>c. An Operation and Maintenance plan shall be submitted to the Department within 180 days of initial startup.</li> </ol> <p>The plan shall include a schedule and logs containing repair requests and performed maintenance for the proper calibration of monitoring, recording, computer controllers, and associated devices to insure accurate control and reporting.</p> <p>The plan shall include a maintenance schedule and logs containing repair requests and performed maintenance for equipment associated with the kiln operation such as air flow, combustion, and product movement through the kiln.</p> <p>The BACT PM/PM<sub>10</sub>/PM<sub>2.5</sub> emission limit for each drying kiln is established as follows:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Emission Unit</th> <th style="text-align: center;">Proposed BACT Limit</th> </tr> </thead> <tbody> <tr> <td rowspan="3" style="text-align: center; vertical-align: middle;">Drying Kilns</td> <td style="text-align: center;">Total PM = 0.022 lb/MBF</td> </tr> <tr> <td style="text-align: center;">Total PM<sub>10</sub> = 0.013 lb/MBF</td> </tr> <tr> <td style="text-align: center;">Total PM<sub>2.5</sub> = 0.004 lb/MBF</td> </tr> </tbody> </table> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>            These sources are permitted to utilize heat generated indirectly by the biomass and natural gas boilers, only. A record of this shall be maintained on-site</p>	Emission Unit	Proposed BACT Limit	Drying Kilns	Total PM = 0.022 lb/MBF	Total PM <sub>10</sub> = 0.013 lb/MBF	Total PM <sub>2.5</sub> = 0.004 lb/MBF
Emission Unit	Proposed BACT Limit								
Drying Kilns	Total PM = 0.022 lb/MBF								
	Total PM <sub>10</sub> = 0.013 lb/MBF								
	Total PM <sub>2.5</sub> = 0.004 lb/MBF								
<p><b>EU008 – PLANER MILL</b>  <b>EU009-EU010 – SILOS FOR SAWDUST (DRY SHAVINGS) STORAGE</b></p>									

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.29	EU008 EU009 EU010	Opacity/ Standard 4	<p><b>Limits/Standards:</b> In accordance with S.C. Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20% (each).</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The permittee shall perform a visual inspection on a weekly basis. Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. The owner/operator shall submit semi-annually reports of these logs. If there are no incidences, a letter should be submitted on a semi-annual basis stating such.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions						
5.B.30	EU008 EU009 EU010	Standard 4/PM	<p><b>Limits/Standards:</b> In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section VIII - Other Manufacturing, particulate matter emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour (<math>E = 4.10P^{0.67}</math>) and for process weight rates greater than 30 tons per hour (<math>E = 55.0P^{0.11} - 40</math>) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, each process's allowable particulate matter emission limit is limited to the amount shown in the table below at its nominal production rating:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Processes</th> <th style="text-align: center;">Emission Limit (lbs/hr)</th> <th style="text-align: center;">Process Weight Rate (tons/hr)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">EU008 – EU012</td> <td style="text-align: center;">64.52 (process total)</td> <td style="text-align: center;">342.8 (process total)</td> </tr> </tbody> </table> <p>*Emissions from the Planer Mill are exhausted to FF9 and FF10 (baghouses)</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b> The owner/operator shall continue to operate and maintain pressure drop gauge(s) on each module of the baghouse. Pressure drop readings shall be recorded each shift during source operation. The baghouse shall be in place and operational whenever processes controlled by the baghouse are running, except during periods of baghouse malfunction or mechanical failure.</p> <p>Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. These ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up. The operating ranges may be updated using this procedure, following Bureau approval.</p>	Processes	Emission Limit (lbs/hr)	Process Weight Rate (tons/hr)	EU008 – EU012	64.52 (process total)	342.8 (process total)
Processes	Emission Limit (lbs/hr)	Process Weight Rate (tons/hr)							
EU008 – EU012	64.52 (process total)	342.8 (process total)							

**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions									
5.B.31	EU008 EU009 EU010	PM/PM <sub>10</sub> / PM <sub>2.5</sub> / PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the Planer Mill for PM/PM<sub>10</sub>/PM<sub>2.5</sub> is determined to be installation and operation of baghouses.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Emission Unit</th> <th style="text-align: center;">Proposed BACT Limit</th> <th style="text-align: center;">Averaging Period</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">EU008 – Planer Mill</td> <td>           PM = 0.004 gr/dscf (filterable)            PM<sub>10</sub> = 0.004 gr/dscf (filterable)            PM<sub>2.5</sub> = 0.004 gr/dscf (filterable)         </td> <td style="text-align: center;">3-hour average (Method 5 for filterable PM)</td> </tr> <tr> <td style="text-align: center;">EU009-EU010 Silos for Storage of Dry Shavings</td> <td>           PM = 0.004 gr/dscf (filterable)            PM<sub>10</sub> = 0.004 gr/dscf (filterable)            PM<sub>2.5</sub> = 0.004 gr/dscf (filterable)         </td> <td style="text-align: center;">3-hour average (Method 5 for filterable PM)</td> </tr> </tbody> </table> <p>*Emissions from the Planer Mill are exhausted to FF9 and FF10 (baghouses)</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard No. 7, an initial source test on one (1) representative (worse case) baghouse for EU008 or EU009 or EU010 or EU011 or EU012 for PM, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions shall be conducted within 180 days after initial startup. Future source test may be required if the owner/operator does not use the same type of bags (as the type of bag used in the representative baghouse for the initial performance test) when replacements are made or if there are other design and operating parameters which change.</p> <p>All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality’s Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b> The owner/operator shall continue to operate and maintain pressure drop gauge(s) on each module of the baghouses. Pressure drop readings shall be recorded each shift during source operation. The baghouses shall be in place and operational whenever processes controlled by the baghouses are running, except during periods of baghouse malfunction or mechanical failure.</p>	Emission Unit	Proposed BACT Limit	Averaging Period	EU008 – Planer Mill	PM = 0.004 gr/dscf (filterable) PM <sub>10</sub> = 0.004 gr/dscf (filterable) PM <sub>2.5</sub> = 0.004 gr/dscf (filterable)	3-hour average (Method 5 for filterable PM)	EU009-EU010 Silos for Storage of Dry Shavings	PM = 0.004 gr/dscf (filterable) PM <sub>10</sub> = 0.004 gr/dscf (filterable) PM <sub>2.5</sub> = 0.004 gr/dscf (filterable)	3-hour average (Method 5 for filterable PM)
Emission Unit	Proposed BACT Limit	Averaging Period										
EU008 – Planer Mill	PM = 0.004 gr/dscf (filterable) PM <sub>10</sub> = 0.004 gr/dscf (filterable) PM <sub>2.5</sub> = 0.004 gr/dscf (filterable)	3-hour average (Method 5 for filterable PM)										
EU009-EU010 Silos for Storage of Dry Shavings	PM = 0.004 gr/dscf (filterable) PM <sub>10</sub> = 0.004 gr/dscf (filterable) PM <sub>2.5</sub> = 0.004 gr/dscf (filterable)	3-hour average (Method 5 for filterable PM)										

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.31 (continued)	EU008 EU009 EU010	PM/PM <sub>10</sub> / PM <sub>2.5</sub> / PSD- BACT	<p><b>Monitoring/Record Keeping/Reporting/Other: (continued)</b></p> <p>Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. These ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up. The operating ranges may be updated using this procedure, following Bureau approval.</p>
<b>EU011 – GREEN WOOD SORTER LINE TRIMMERS EXTRACTION SYSTEM</b>			
5.B.32	EU011	Opacity/ Standard 4	<p><b>Limits/Standards:</b> In accordance with S.C. Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20% (each).</p> <p><b>State Only: No</b></p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The permittee shall perform a visual inspection of the green wood sorter line trimmers extraction system baghouse on a weekly basis. Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. The owner/operator shall submit semi-annually reports of these logs. If there are no incidences, a letter should be submitted on a semi-annual basis stating such.</p>

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Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions						
5.B.33	EU011	Standard 4/PM	<p><b>Limits/Standards:</b> In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section VIII - Other Manufacturing, particulate matter emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour (<math>E = 4.10P^{0.67}</math>) and for process weight rates greater than 30 tons per hour (<math>E = 55.0P^{0.11} - 40</math>) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, each process's allowable particulate matter emission limit is limited to the amount shown in the table below at its nominal production rating:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Processes</th> <th style="text-align: center;">Emission Limit (lbs/hr)</th> <th style="text-align: center;">Process Weight Rate (tons/hr)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">EU008 – EU012</td> <td style="text-align: center;">64.52 (process total)</td> <td style="text-align: center;">342.8 (process total)</td> </tr> </tbody> </table> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b> The owner/operator shall continue to operate and maintain pressure drop gauge(s) on each module of the baghouse. Pressure drop readings shall be recorded each shift during source operation. The baghouse shall be in place and operational whenever processes controlled by the baghouse are running, except during periods of baghouse malfunction or mechanical failure.</p> <p>Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. These ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up. The operating ranges may be updated using this procedure, following Bureau approval.</p>	Processes	Emission Limit (lbs/hr)	Process Weight Rate (tons/hr)	EU008 – EU012	64.52 (process total)	342.8 (process total)
Processes	Emission Limit (lbs/hr)	Process Weight Rate (tons/hr)							
EU008 – EU012	64.52 (process total)	342.8 (process total)							

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions						
5.B.34	EU011	PM/PM <sub>10</sub> / PM <sub>2.5</sub> / PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the Green Wood Sorter Line Trimmers for PM/PM<sub>10</sub>/PM<sub>2.5</sub> is determined to be installation and operation of baghouses.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Emission Unit</th> <th style="text-align: center;">Proposed BACT Limit</th> <th style="text-align: center;">Averaging Period</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">EU011 – Sorter Line Trimmers</td> <td>           PM = 0.005 gr/dscf (filterable)            PM<sub>10</sub> = 0.005 gr/dscf (filterable)            PM<sub>2.5</sub> = 0.005 gr/dscf (filterable)         </td> <td style="text-align: center;">           3-hour average            (Method 5 for filterable PM)         </td> </tr> </tbody> </table> <p><b>State Only:</b> No</p> <p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard No. 7, an initial source test on one (1) representative (worse case) baghouse for EU008 or EU009 or EU010 or EU011 or EU012 for PM, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions shall be conducted within 180 days after initial startup. Future source test may be required if the owner/operator does not use the same type of bags (as the type of bag used in the representative baghouse for the initial performance test) when replacements are made or if there are other design and operating parameters which change.</p> <p>All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b> The owner/operator shall continue to operate and maintain pressure drop gauge(s) on each module of the baghouses. Pressure drop readings shall be recorded each shift during source operation. The baghouses shall be in place and operational whenever processes controlled by the baghouses are running, except during periods of baghouse malfunction or mechanical failure.</p> <p>Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. These ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up. The operating ranges may be updated using this procedure, following Bureau approval.</p>	Emission Unit	Proposed BACT Limit	Averaging Period	EU011 – Sorter Line Trimmers	PM = 0.005 gr/dscf (filterable) PM <sub>10</sub> = 0.005 gr/dscf (filterable) PM <sub>2.5</sub> = 0.005 gr/dscf (filterable)	3-hour average (Method 5 for filterable PM)
Emission Unit	Proposed BACT Limit	Averaging Period							
EU011 – Sorter Line Trimmers	PM = 0.005 gr/dscf (filterable) PM <sub>10</sub> = 0.005 gr/dscf (filterable) PM <sub>2.5</sub> = 0.005 gr/dscf (filterable)	3-hour average (Method 5 for filterable PM)							

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
<b>EU012 – SILO FOR ASH STORAGE</b>			
5.B.35	EU012	Opacity/ Standard 4	<p><b>Limits/Standards:</b> In accordance with S.C. Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The permittee shall perform a visual inspection on a weekly basis. Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. The owner/operator shall submit semi-annually reports of these logs. If there are no incidences, a letter should be submitted on a semi-annual basis stating such.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions						
5.B.36	EU012	Standard 4/PM	<p><b>Limits/Standards:</b> In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section VIII - Other Manufacturing, particulate matter emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour (<math>E = 4.10P^{0.67}</math>) and for process weight rates greater than 30 tons per hour (<math>E = 55.0P^{0.11} - 40</math>) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, each process's allowable particulate matter emission limit is limited to the amount shown in the table below at its nominal production rating:</p> <table border="1" data-bbox="636 646 1425 768"> <thead> <tr> <th data-bbox="636 646 943 709">Processes</th> <th data-bbox="943 646 1151 709">Emission Limit (lbs/hr)</th> <th data-bbox="1151 646 1425 709">Process Weight Rate (tons/hr)</th> </tr> </thead> <tbody> <tr> <td data-bbox="636 709 943 768">EU008 – EU012</td> <td data-bbox="943 709 1151 768">64.52 (process total)</td> <td data-bbox="1151 709 1425 768">342.8 (process total)</td> </tr> </tbody> </table> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b> The owner/operator shall continue to operate and maintain pressure drop gauge(s) on each module of the baghouse. Pressure drop readings shall be recorded each shift during source operation. The baghouse shall be in place and operational whenever processes controlled by the baghouse are running, except during periods of baghouse malfunction or mechanical failure.</p> <p>Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. These ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up. The operating ranges may be updated using this procedure, following Bureau approval.</p> <p>Operation and maintenance checks shall be made monthly for the Ash Collection System, (i.e. collection hoppers, ash conveying and handling system) for proper operation. The operation and maintenance checks shall be recorded and kept on-site and made available to the Department upon request. Semi-annual reports of any corrective action, including the date, cause shall be documented. If there are no incidences, a letter should be submitted on a semi-annual basis stating such.</p>	Processes	Emission Limit (lbs/hr)	Process Weight Rate (tons/hr)	EU008 – EU012	64.52 (process total)	342.8 (process total)
Processes	Emission Limit (lbs/hr)	Process Weight Rate (tons/hr)							
EU008 – EU012	64.52 (process total)	342.8 (process total)							
5.B.37	EU012	PM/PM <sub>10</sub> / PM <sub>2.5</sub> / PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the Ash Storage Silo for PM/PM<sub>10</sub>/PM<sub>2.5</sub> is determined to be installation and operation of baghouse.</p>						

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions						
			<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="width: 25%;">Emission Unit</th> <th style="width: 35%;">Proposed BACT Limit</th> <th style="width: 40%;">Averaging Period</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">EU012 – Silo for Ash Storage</td> <td>           PM = 0.005 gr/dscf (filterable)            PM<sub>10</sub> = 0.005 gr/dscf (filterable)            PM<sub>2.5</sub> = 0.005 gr/dscf (filterable)         </td> <td style="text-align: center;">3-hour average (Method 5 for filterable PM)</td> </tr> </tbody> </table> <p><b>State Only:</b> No</p> <p><b>Testing:</b> In accordance with SC Regulation 61-62.5, Standard No. 7, an initial source test on one (1) representative (worse case) baghouse for EU008 or EU009 or EU010 or EU011 or EU012 for PM, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions shall be conducted within 180 days after initial startup. Future source test may be required if the owner/operator does not use the same type of bags (as the type of bag used in the representative baghouse for the initial performance test) when replacements are made or if there are other design and operating parameters which change.</p> <p>All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to S.C. Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b> The owner/operator shall continue to operate and maintain pressure drop gauge(s) on each module of the baghouses. Pressure drop readings shall be recorded each shift during source operation. The baghouses shall be in place and operational whenever processes controlled by the baghouses are running, except during periods of baghouse malfunction or mechanical failure.</p> <p>Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. These ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up. The operating ranges may be updated using this procedure, following Bureau approval.</p> <p>Operation and maintenance checks shall be made monthly for the Ash Collection System, (i.e. collection hoppers, ash conveying and handling system) for proper operation. The operation and maintenance checks shall be recorded and kept on-site and made available to the Department upon request. Semi-annually reports of any corrective action, including the date, cause shall be documented. If there are no incidences, a letter should be submitted semi-annually stating such.</p>	Emission Unit	Proposed BACT Limit	Averaging Period	EU012 – Silo for Ash Storage	PM = 0.005 gr/dscf (filterable) PM <sub>10</sub> = 0.005 gr/dscf (filterable) PM <sub>2.5</sub> = 0.005 gr/dscf (filterable)	3-hour average (Method 5 for filterable PM)
Emission Unit	Proposed BACT Limit	Averaging Period							
EU012 – Silo for Ash Storage	PM = 0.005 gr/dscf (filterable) PM <sub>10</sub> = 0.005 gr/dscf (filterable) PM <sub>2.5</sub> = 0.005 gr/dscf (filterable)	3-hour average (Method 5 for filterable PM)							

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
<b>EU013 – COATINGS (COLORS, INKS, LACQUERS)</b>			
5.B.38	EU013	Opacity/ Standard 4	<p><b>Limits/Standards:</b> In accordance with S.C. Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b> None Required.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions						
5.B.39	EU013	VOC/ PSD- BACT	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the Coatings (Colors, Inks, Lacquers) for VOC is determined to be utilization of high efficiency application techniques and good work practice standards.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Emission Unit</th> <th style="text-align: center;">Proposed BACT Limit</th> <th style="text-align: center;">Averaging Period</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">EU013 – Coatings (Colors, Inks, Lacquers)</td> <td style="text-align: center;">VOC = 0.03 lb VOC /MBF</td> <td style="text-align: center;">12-month rolling average</td> </tr> </tbody> </table> <p><b>WORK PRACTICE STANDARDS</b>  Store all material, including waste material, containing volatile organic compounds in containers covered with a tightly fitting lid that is free of cracks, holes, or other defect, when not in use</p> <ul style="list-style-type: none"> <li>• Store all material, including waste material, containing volatile organic compounds in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects when not in use</li> <li>• Clean up spills as soon as possible following proper safety procedures</li> <li>• Store wipe rags in closed containers</li> <li>• Drain solvents used to clean supply lines and other coating equipment into closable containers and close containers immediately after use.</li> <li>• Clean mixing, blending, and manufacturing vats and containers by adding cleaning solvent, closing the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be poured into a closed container.</li> </ul> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The owner/operator shall maintain records of all colors, inks, and lacquers which contain volatile organic compounds (VOC). These records shall include the total amount of each color, ink, and lacquer used, the VOC content in percent by weight of each color, ink, and lacquer, and any other records necessary to determine VOC emissions from the coatings (paints, inks, lacquers) process. VOC emissions shall be calculated on a monthly basis and a twelve-month rolling average shall be calculated for total VOC emissions. The twelve-month rolling average of VOC emissions from the use of colors, inks, and lacquers shall not exceed 0.03 lb /MBF and 11.5 tons per year (tpy). Reports of the calculated values and the twelve-month rolling average shall be submitted semiannually.</p> <p>An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality, postmarked no later than 180 calendar days after the effective date of this permit. Subsequent submittals of the algorithm and example calculations are unnecessary, unless the method of calculation is found to be unacceptable by the Bureau or if the facility changes the method of calculating emissions and/or changes emission factors.</p>	Emission Unit	Proposed BACT Limit	Averaging Period	EU013 – Coatings (Colors, Inks, Lacquers)	VOC = 0.03 lb VOC /MBF	12-month rolling average
Emission Unit	Proposed BACT Limit	Averaging Period							
EU013 – Coatings (Colors, Inks, Lacquers)	VOC = 0.03 lb VOC /MBF	12-month rolling average							

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
<b>EU014 – LOG STORAGE, PROCESSING AND SAWMILL</b>			
5.B.40	EU014	Opacity/ Standard 4	<p><b>Limits/Standards:</b> In accordance with S.C. Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The permittee shall perform a visual inspection on a weekly basis. Visual inspections for the log storage, processing, and sawmill can be conducted by a single ground level observation of the overall visible emissions from the log storage, processing, and sawmill operations. Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. The owner/operator shall submit semi-annual reports of these logs. If there are no incidences, a letter should be submitted on a semi-annual basis stating such.</p>

**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.41	EU014	Fugitive Particulate Matter  (Standard 4 & S.C. 61-62.6)	<p><b>Limits/Standards:</b>            In accordance with S.C. Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section X - Non-Enclosed Operations:</p> <p>(a) All non-enclosed operations shall be conducted in such a manner that a minimum of particulate matter becomes airborne. In no case shall established ambient air quality standards be exceeded at or beyond the property line.</p> <p>(b) The owner/operator of all such operations shall maintain dust control of the premises and any roadway owned or controlled by the owner/operator by paving, or other suitable measures. Oil treatment is prohibited.</p> <p>(c) All crushing, drying, classification and like operations shall employ a suitable control device acceptable to the Department, and shall discharge no more particulate matter than that specified in Section VIII of this Standard.</p> <p>In accordance with S.C. Regulation 61-62.6 - Control of Fugitive Particulate Matter, Section III - Control of Fugitive Particulate Matter Statewide:</p> <p>(a) Emissions of fugitive particulate matter shall be controlled in such a manner and to the degree that it does not create an undesirable level of air pollution.</p> <p>(b) Restrictions and requirements may be contained in operating permits on a case-by-case basis that are deemed appropriate and necessary to control fugitive particulate matter in accordance with reasonably available control technology.</p>
<b>EMERGENCY ENGINES</b>			
5.B.42	Engine 1 – 5	NSPS/ Subpart III	<p><b>Limits/Standards:</b> The emergency engines are subject to New Source Performance Standards (NSPS) 40 CFR 60 Subparts A (General Provisions) and IIII (Stationary Compression Ignition Internal Combustion Engines).</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>            The emergency engines shall be certified by the manufacturer to meet the requirements of NSPS Subpart IIII. The owner/operator shall maintain records required to show compliance with NSPS Subpart IIII.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.43	Engine 1-5	Opacity/ Standard 4	<p><b>Limits/Standards:</b> In accordance with S.C. Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20% (each).</p> <p><b>State Only: No</b></p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  The permittee shall perform a visual inspection on a semi-annual basis during source operation. Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. Entries should be made to the log to indicate the dates when the source is not in operation. The owner/operator shall submit semi-annual reports of the visual inspections. If there are no incidences, a letter should be submitted on a semi-annual basis stating such.</p> <p>The emergency engines are permitted to burn only diesel fuel (maximum fuel sulfur content 15 ppm) as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.44	Engine 1 – 5	NOx, PSD- BACT	<p><b>Limits/Standards:</b>  The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT for the emergency engines has been determined to be compliance with NSPS, subpart IIII, 40 CFR60.4202 and 40 CFR60.4205. This control technology will include combustion of ultra low sulfur diesel (maximum sulfur content of 0.0015 weight percent (15 ppmw)) for a maximum of 100 hours per year for maintenance and testing.</p> <p>The BACT Emission limits for NOx plus non-methane hydrocarbons (NMHC) are:  ❖ Engine 1 – 5 = 3.0 g/bhp-hr (each engine)</p> <p>Operation of the engines are limited to 100 hours per year for maintenance and testing</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  Diesel fuel sulfur content shall be less than or equal to 15 ppm by weight. Diesel fuel supplier certification shall be obtained for each batch of diesel fuel received and stored on site. Reports of the recorded sulfur content shall be maintained on site for a period of five years and submitted semi-annually.</p> <p>Klausner will purchase engines certified by the manufacturer to meet the requirements of NSPS subpart IIII. Facility shall maintain records required to show compliance with NSPS Subpart IIII.</p> <p>Each emergency engine shall have a method to record the actual hours of use such as a non-resettable hour meter.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.45	Engine 1 – 5	CO/ PSD- BACT	<p><b>Limits/Standards:</b>  The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT for the emergency engines has been determined to be compliance with NSPS, subpart IIII, 40 CFR60.4202 and 40 CFR60.4205. This control technology will include combustion of ultra low sulfur diesel (maximum sulfur content of 0.0015 weight percent (15 ppmw)) for a maximum of 100 hours per year for maintenance and testing.</p> <p>The BACT Emission limit for CO is:  ❖ Engine 1 – 5 = 2.6 g/bhp-hr (each engine)</p> <p>Operation of the engines are limited to 100 hours per year for maintenance and testing</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  Diesel fuel sulfur content shall be less than or equal to 15 ppm by weight. Diesel fuel supplier certification shall be obtained for each batch of diesel fuel received and stored on site. Reports of the recorded sulfur content shall be maintained on site for a period of five years and submitted semi-annually.</p> <p>Klausner will purchase engines certified by the manufacturer to meet the requirements of NSPS subpart IIII. Facility shall maintain records required to show compliance with NSPS Subpart IIII.</p> <p>Each emergency engine shall have a method to record the actual hours of use such as a non-resettable hour meter.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.46	Engine 1 – 5	PM/PM <sub>10</sub> /PM <sub>2.5</sub> / PSD- BACT	<p><b>Limits/Standards:</b>  The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT for the emergency engines has been determined to be compliance with NSPS, subpart IIII, 40 CFR60.4202 and 40 CFR60.4205. This control technology will include combustion of ultra low sulfur diesel (maximum sulfur content of 0.0015 weight percent (15 ppmw)) for a maximum of 100 hours per year for maintenance and testing.</p> <p>The BACT Emission limit for PM/PM<sub>10</sub>/PM<sub>2.5</sub> are:</p> <ul style="list-style-type: none"> <li>❖ Engine 1 – 5 PM = 0.15 g/bhp-hr (each engine)</li> <li>❖ Engine 1 – 5 PM<sub>10</sub> = 0.15 g/bhp-hr (each engine)</li> <li>❖ Engine 1 – 5 PM<sub>2.5</sub> = 0.15 g/bhp-hr (each engine)</li> </ul> <p>Operation of the engines are limited to 100 hours per year for maintenance and testing</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  Diesel fuel sulfur content shall be less than or equal to 15 ppm by weight. Diesel fuel supplier certification shall be obtained for each batch of diesel fuel received and stored on site. Reports of the recorded sulfur content shall be maintained on site for a period of five years and submitted semi-annually.</p> <p>Klausner will purchase engines certified by the manufacturer to meet the requirements of NSPS subpart IIII. Facility shall maintain records required to show compliance with NSPS Subpart IIII.</p> <p>Each emergency engine shall have a method to record the actual hours of use such as a non-resettable hour meter.</p>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
5.B.47	Engine 1 – 5	VOC/ PSD- BACT	<p><b>Limits/Standards:</b>  The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT for the emergency engines has been determined to be compliance with NSPS, Subpart IIII, 40 CFR60.4202 and 40 CFR60.4205. This control technology will include combustion of ultra low sulfur diesel (maximum sulfur content of 0.0015 weight percent (15 ppmw)) for a maximum of 100 hours per year for maintenance and testing.</p> <p>Operation of the engines are limited to 100 hours per year for maintenance and testing</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>  Diesel fuel sulfur content shall be less than or equal to 15 ppm by weight. Diesel fuel supplier certification shall be obtained for each batch of diesel fuel received and stored on site. Reports of the recorded sulfur content shall be maintained on site for a period of five years and submitted semi-annually.</p> <p>Klausner will purchase engines certified by the manufacturer to meet the requirements of NSPS subpart IIII. Facility shall maintain records required to show compliance with NSPS Subpart IIII.</p> <p>Each emergency engine shall have a method to record the actual hours of use such as a non-resettable hour meter.</p>
5.B.48	Engine 1 – 5	CO <sub>2</sub> e	<p><b>Limits/Standards:</b> The facility is a major source as defined in SC Regulation 61-62.5, Standard No. 7, Prevention of Significant Deterioration (PSD).</p> <p>The Best Available Control Technology (BACT) for the five (5) emergency engines for CO<sub>2</sub>e is determined to be the NSPS IIII standards.</p> <ol style="list-style-type: none"> <li>1. GHG emissions will be limited by restricting the use of the NSPS-compliant engines to maintenance, readiness testing and emergency use only.</li> <li>2. Other than for use during emergency service, the emergency engines are limited to a maximum of 100 hours per year of operation for maintenance and readiness testing under the NSPS standards of Subpart IIII.</li> <li>3. GHG emissions shall be reduced by selection of fuel-efficient engines, which minimizes CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O emissions.</li> <li>4. Each emergency engine shall have a method to record the actual hours of use such as a non-resettable hour meter.</li> </ol>

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**PART 5.B.3 - CONDITIONS FOR CONSTRUCTION PERMIT 1860-0128-CA**

Condition Number	Equipment /Control Device ID	Regulated Pollutant/ Standard	Conditions
<b>PAVED AND UNPAVED ROADS</b>			
5.B.49	All Sources	Fugitive Particulate Matter  (Standard 4 & S.C. 61-62.6)	<p><b>Limits/Standards:</b>            In accordance with S.C. Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section X - Non-Enclosed Operations:</p> <ul style="list-style-type: none"> <li>(a) All non-enclosed operations shall be conducted in such a manner that a minimum of particulate matter becomes airborne. In no case shall established ambient air quality standards be exceeded at or beyond the property line.</li> <li>(b) The owner/operator of all such operations shall maintain dust control of the premises and any roadway owned or controlled by the owner/operator by paving, or other suitable measures. Oil treatment is prohibited.</li> <li>(c) All crushing, drying, classification and like operations shall employ a suitable control device acceptable to the Department, and shall discharge no more particulate matter than that specified in Section VIII of this Standard.</li> </ul> <p>In accordance with S.C. Regulation 61-62.6 - Control of Fugitive Particulate Matter, Section III - Control of Fugitive Particulate Matter Statewide:</p> <ul style="list-style-type: none"> <li>(a) Emissions of fugitive particulate matter shall be controlled in such a manner and to the degree that it does not create an undesirable level of air pollution.</li> <li>(b) Restrictions and requirements may be contained in operating permits on a case-by-case basis that are deemed appropriate and necessary to control fugitive particulate matter in accordance with reasonably available control technology.</li> <li>(c) No source/plant shall use any method of materials handling which will generate fugitive particulate matter that is not fully described in the permit application.</li> <li>(d) Volatile organic compounds shall not be used for dust control purposes. Oil treatment is also prohibited</li> </ul> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b>            The owner/operator shall prepare a plan to minimize fugitive particulate matter emissions within 180 days of initial startup. The plan shall:</p> <ul style="list-style-type: none"> <li>(a) identify sources that reasonably have the potential to emit fugitive particulate matter. These sources shall include but are not limited to roadways, storage piles, etc.</li> <li>(b) include steps that the owner/operator takes to minimize fugitive emissions from the identified sources</li> <li>(c) record episodes of excess fugitive particulate matter emissions</li> <li>(d) record the corrective actions taken to mitigate emissions during the episode</li> </ul> <p>The plan shall be maintained at the facility, kept up-to-date, and made available to the Department upon request.</p>

**PART 5.C. - CONDITIONS FOR FACILITY WIDE - LIMITATIONS, MONITORING AND REPORTING**

Condition Number	Regulated Pollutant/ Standard	Conditions
5.C.1	112 (r) pollutants / SC Regulation 61-62.68	<p>S.C. Regulation 61-62.68, Chemical Accident Prevention Provisions</p> <p>Storage or use of a regulated substance in quantities above the specified threshold of SC Regulation 61-62.68 ; the following must be completed:</p> <ol style="list-style-type: none"> <li>1. Submittal of a Risk Management Plan (RMP) to the Environmental Protection Agency (EPA) prior to the date the regulated substance is first present above the threshold quantity in a process.</li> <li>2. Compliance with the Risk Management Program prior to the date the regulated substance is first present above the threshold quantity in a process.</li> <li>3. Submittal of subsequent revisions/corrections/updates of the RMP in accordance with S.C. Regulation 61-62.68.190 and 68.195.</li> <li>4. For Program 1 processes, the owner or operator shall submit along with the RMP the certification statement provided in Section 68.12(b)(4). For all other covered processes, the owner or operator shall submit along with the RMP a single certification that, to the best of the signer’s knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete.</li> <li>5. If it is determined by the implementing agency (or other delegated authority) that additional relevant information is needed, this facility will be required to submit the information in a timely manner.</li> </ol>
5.C.2	SO <sub>2</sub> PSD Avoidance	<p><b>Limits/Standards:</b> S.C. Regulation 61-62.1, Section II(E) This facility is a potential PSD major source for SO<sub>2</sub>. The facility has agreed to federally enforceable limitations to limit future net SO<sub>2</sub> increases to less than 40 tons to avoid S.C. Regulation 61-62.5, Standard 7, Prevention of Significant Deterioration (PSD).</p> <p><b>State Only:</b> No</p> <p><b>Testing:</b> None Required</p> <p><b>Monitoring/Record Keeping/Reporting/Other:</b> The owner/operator shall maintain fuel usage records and any other records necessary to determine facility wide SO<sub>2</sub> emissions. SO<sub>2</sub> emissions shall be calculated on a monthly basis, and a twelve month rolling sum shall be calculated for total SO<sub>2</sub> emissions. The twelve month rolling sum shall be less than 40 tons. Reports of the calculated values and the twelve-month rolling sum shall be submitted semiannually.</p> <p>An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall be included in the initial report. Subsequent submittals of the algorithm and example calculations are unnecessary, unless the method of calculation is found to be unacceptable by the Bureau or if the facility changes the method of calculating emissions and/or changes emission factors.</p>

**PART 6 - ADDITIONAL CONDITIONS**

**PART 6.A - OPERATIONAL FLEXIBILITY**

Condition Number	Conditions
N/A	N/A

N/A = Not Applicable

**PART 6.B - OTHER**

Condition Number	Conditions
N/A	N/A

N/A = Not Applicable

**PART 7 - NESHAP REQUIREMENTS**

**PART 7.A - NESHAP PERIODIC REPORTING SCHEDULE SUMMARY**

NESHAP Part	NESHAP Subpart	Compliance Monitoring Report Submittal Frequency	Reporting Period	Report Due Date
63	DDDDD	Semi-Annual	January 1 through June 30 July 1 through December 31	Postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period
63	DDDD	N/A	N/A	N/A
63	ZZZZ	N/A	N/A	N/A

Note:

1. This table summarizes only the periodic compliance reporting schedule. Additional reports may be required. See specific NESHAP Subpart for additional reporting requirements and associated schedule.
2. This reporting schedule does not supersede any other reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, and/or 40 CFR Part 63.

**PART 7.B - NESHAP - GENERAL REQUIREMENTS**

Condition Number	Condition
7.B.1	All NESHAP notifications and reports shall be sent to the South Carolina Department of Health and Environmental Control - Bureau of Air Quality (SCDHEC - BAQ) at the following address: <b>SCDHEC - BAQ</b> <b>Air Toxics Section</b> <b>2600 Bull Street</b> <b>Columbia, SC 29201</b>

**PART 7.B - NESHAP - GENERAL REQUIREMENTS**

Condition Number	Condition
7.B.2	All NESHAP notifications and the cover letter to periodic reports shall be sent to the United States Environmental Protection Agency (US EPA) at the following address: <div style="text-align: center;"> <b>US EPA, Region 4</b>  <b>Air, Pesticides and Toxics Management Division</b>  <b>61 Forsyth Street</b>  <b>Atlanta, GA 30303</b> </div>
7.B.3	Additional general requirements as necessary.

**PART 7.C - NESHAP PART 63 SUBPART DDDDD - AFFECTED SOURCES**

**SUBPART DDDDD - National Emission Standards For Hazardous Air Pollutants For Industrial, Commercial, And Institutional Boilers And Process Heaters**

Equipment ID	Affected Source Description	MACT Control Device	Non-MACT Control Device
EU001-EU002	Biomass Boilers	N/A	N/A
EU003-EU006	Natural Gas Fired Boilers	N/A	N/A

Part 7.C lists the affected sources as identified in the facility's Notice of Compliance Status and the permit application.  
N/A = Not Applicable

**PART 7.C - NESHAP PART 63 SUBPART DDDDD - CONDITIONS**

**SUBPART DDDDD - National Emission Standards For Hazardous Air Pollutants For Industrial, Commercial, And Institutional Boilers And Process Heaters**

Condition Number	Equipment /Control Device ID	Condition										
7.C.1	EU001-EU002  EU003-EU006	This facility is subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and Subpart DDDDD. Existing affected sources shall comply with the applicable provisions by the compliance date specified in Subpart DDDDD. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.										
7.C.2	EU001-EU002	<p>In accordance with 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and Subpart DDDDD, as stated in 63.7500 you must comply with the following applicable emission limits:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Filterable PM (or total selected metals) (lb per MM Btu of heat input)<sup>a</sup></th> <th style="text-align: center;">HCL (lb per MM Btu of heat input)<sup>a</sup></th> <th style="text-align: center;">Mercury (lb per MM Btu of heat input)<sup>a</sup></th> <th style="text-align: center;">CO (ppm @ 3% oxygen)<sup>a</sup></th> <th style="text-align: center;">Alternate CO CEMS limit, (ppm @ 3% oxygen)<sup>b</sup></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0.0032 (3.9E-05) (each boiler)</td> <td style="text-align: center;">0.022 (each boiler)</td> <td style="text-align: center;">8.0E-07 (each boiler)</td> <td style="text-align: center;">330 (each boiler)</td> <td style="text-align: center;">520<sup>c</sup> (each boiler)</td> </tr> </tbody> </table> <p>a – 3-run average, unless otherwise noted  b – 30-day rolling average, unless otherwise noted  c – 10-day rolling average</p>	Filterable PM (or total selected metals) (lb per MM Btu of heat input) <sup>a</sup>	HCL (lb per MM Btu of heat input) <sup>a</sup>	Mercury (lb per MM Btu of heat input) <sup>a</sup>	CO (ppm @ 3% oxygen) <sup>a</sup>	Alternate CO CEMS limit, (ppm @ 3% oxygen) <sup>b</sup>	0.0032 (3.9E-05) (each boiler)	0.022 (each boiler)	8.0E-07 (each boiler)	330 (each boiler)	520 <sup>c</sup> (each boiler)
Filterable PM (or total selected metals) (lb per MM Btu of heat input) <sup>a</sup>	HCL (lb per MM Btu of heat input) <sup>a</sup>	Mercury (lb per MM Btu of heat input) <sup>a</sup>	CO (ppm @ 3% oxygen) <sup>a</sup>	Alternate CO CEMS limit, (ppm @ 3% oxygen) <sup>b</sup>								
0.0032 (3.9E-05) (each boiler)	0.022 (each boiler)	8.0E-07 (each boiler)	330 (each boiler)	520 <sup>c</sup> (each boiler)								

**PART 7.C - NESHAP PART 63 SUBPART DDDDD - CONDITIONS**

**SUBPART DDDDD - National Emission Standards For Hazardous Air Pollutants For Industrial, Commercial, And Institutional Boilers And Process Heaters**

Condition Number	Equipment /Control Device ID	Condition
7.C.3	EU001- EU002	In accordance with 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and Subpart DDDDD, as stated in 63.7500 you must comply with the following applicable emission limit: each boiler must maintain opacity to less than or equal to 10 percent opacity (daily block average); .

**PART 7.D - NESHAP PART 63 SUBPART DDDD - AFFECTED SOURCES**

**SUBPART DDDD - Plywood and Composite Wood Products**

Equipment ID	Affected Source Description	MACT Control Device	Non-MACT Control Device
EU007	Sixty Lumber Drying Kilns	N/A	N/A

Part 7.D lists the affected sources as identified in the facility's Notice of Compliance Status and the permit application.  
N/A = Not Applicable

**PART 7.D - NESHAP PART 63 SUBPART DDDD - CONDITIONS**

**SUBPART DDDD - Plywood and Composite Wood Products**

Condition Number	Equipment /Control Device ID	Condition
7.D.1	EU007	This facility is subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and Subpart DDDD - Plywood And Composite Wood Products. Existing affected sources shall comply with the applicable provisions by the compliance date specified in Subpart DDDD. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.
7.D.2	EU007	40 CFR §63.2252 What Are The Requirements For Process Units That Have No Control Or Work Practice Requirements?  For process units not subject to the compliance options or work practice requirements specified in §63.2240 (including, but not limited to, lumber kilns), you are not required to comply with the compliance options, work practice requirements, performance testing, monitoring, SSM plans, and recordkeeping or reporting requirements of this subpart, or any other requirements in subpart A of this part, except for the initial notification requirements in §63.9(b).

**PART 7.E - NESHAP PART 63 SUBPART ZZZZ - AFFECTED SOURCES**

**SUBPART ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines**

Equipment ID	Affected Source Description	MACT Control Device	Non-MACT Control Device
Engine 1	3.22 MM Btu/hr, input Emergency Engine 1	N/A	N/A
Engine 2	3.22 MM Btu/hr, input Emergency Engine 2	N/A	N/A
Engine 3	3.22 MM Btu/hr, input Emergency Engine 3	N/A	N/A
Engine 4	3.22 MM Btu/hr, input Emergency Engine 4	N/A	N/A
Engine 5	3.22 MM Btu/hr, input Emergency Engine 5	N/A	N/A

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Part 7.E lists the affected sources as identified in the facility's Notice of Compliance Status and the permit application.  
 N/A = Not Applicable

**PART 7.E - NESHAP PART 63 SUBPART ZZZZ - CONDITIONS**

**SUBPART ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines**

Condition Number	Equipment /Control Device ID	Condition
7.E.1	Engine 1 -5	The engines have been defined as affected source, in accordance with 40 CFR 63 Subpart ZZZZ. In accordance with 40 CFR 63.6590(c), an affected source that is a new or reconstructed stationary RICE located at a major source of HAP emissions and is a compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP, must meet the requirements of this part by meeting the requirements of 40 CFR 60 Subpart IIII, for compression ignition engines. No further requirements apply for such engines under this part.

**PART 8 - REPORTING REQUIREMENTS**

**PART 8.A - PERIODIC REPORTING SCHEDULE**

Compliance Monitoring Report Submittal Frequency	Reporting Period (Begins on the startup date of the source.)	Report Due Date
Quarterly	January-March April-June July-September October-December	April 30 July 30 October 30 January 30
Semi Annual	January-June April-September July-December October-March	July 30 October 30 January 30 April 30
Annual	January-December April-March July-June October-September	January 30 April 30 July 30 October 30

Note: This reporting schedule does not supersede any federal reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, and 40 CFR Part 63. All federal reports must meet the reporting time frames specified in the federal standard unless the Department or EPA approves a change.

**PART 8.B - REPORTING CONDITIONS**

Condition Number	Condition
8.B.1	Reporting required in this permit, shall be submitted in a timely manner as directed in Part 8.A of this permit.
8.B.2	Unless elsewhere specified within this permit, all reports required under this permit shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality, at the address listed below. <b>SCDHEC - BAQ</b> <b>Technical Management Section</b> <b>2600 Bull Street</b> <b>Columbia, SC 29201</b>

# ATTACHMENT A

## Modeled Emission Rates

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The emission rates listed herein are not considered enforceable limitations but are used to evaluate ambient air quality impact. Until the Department makes a determination that a facility is causing or contributing to an exceedance of a state or federal ambient air quality standard, increases to these emission rates are not in themselves considered violations of these ambient air quality standards (see conditions 3.2 and 3.3).

<b>AMBIENT AIR QUALITY STANDARDS - STANDARD NO. 2</b>							
<b>Modeled Emission Rates (lbs/hr)</b>							
<b>Emission Point ID</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub> *</b>	<b>CO</b>	<b>Lead</b>	<b>HF</b>
B1	4.44	4.44	3.00	16.8	48.0	5.76E-03	1.15E-02
B2	4.44	4.44	3.00	16.8	48.0	5.76E-03	1.15E-02
B3	1.51	1.02	4.67	13.1	3.59	9.93E-04	---
B4	1.51	1.02	4.67	13.1	3.59	9.93E-04	---
BH1	0.82	0.41	---	---	---	---	---
BH2	0.82	0.41	---	---	---	---	---
BH3	0.50	0.25	---	---	---	---	---
BH4	0.01	0.01	---	---	---	---	---
V1-V120 **	1.02	0.33	---	---	---	---	---
<b>FACILITY TOTAL</b>	<b>15.07</b>	<b>12.33</b>	<b>15.34</b>	<b>59.8</b>	<b>103.18</b>	<b>1.35E-02</b>	<b>2.30E-02</b>
* Total NO <sub>x</sub> listed in table but modeled using ARM of 0.8 (NO <sub>x</sub> x 0.8 = NO <sub>2</sub> )							
** Combined rates of all vent sources.							

<b>CLASS II PREVENTION OF SIGNIFICANT DETERIORATION - STANDARD NO. 7</b>				
<b>Emission Point ID</b>	<b>Modeled Emission Rates (lbs/hr)</b>			
	<b>PM<sub>2.5</sub></b>	<b>PM<sub>10</sub></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub></b>
B1	4.44	4.44	3.00	16.8
B2	4.44	4.44	3.00	16.8
B3	1.02	1.51	4.67	13.1
B4	1.02	1.51	4.67	13.1
BH1	0.41	0.82	---	---
BH2	0.41	0.82	---	---
BH3	0.25	0.50	---	---
BH4	0.01	0.01	---	---
V1-V120	0.33	1.02	---	---
<b>FACILITY TOTALS</b>	<b>12.33</b>	<b>15.07</b>	<b>15.34</b>	<b>59.8</b>
* Total NO <sub>x</sub> listed in table but modeled using ARM of 0.8 (NO <sub>x</sub> x 0.8 = NO <sub>2</sub> )				

# ATTACHMENT A

## Modeled Emission Rates

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<b>TOXIC AIR POLLUTANTS MODELED - STANDARD NO. 8</b>				
<b>STACK ID</b>	<b>Cobalt Compound</b>	<b>Diocetyl Phthalate</b>	<b>Formaldehyde</b>	<b>Methyl-Isobutyl Ketone</b>
	----	<b>117-84-0</b>	<b>50-00-0</b>	<b>108-10-1</b>
SL	3.23E-03	2.19E-01	2.94E-02	1.25
FACILITY TOTAL	3.23E-03	2.19E-01	2.94E-02	1.25

<b>TOXIC AIR POLLUTANTS - STANDARD NO. 8</b>				
<b>Facility-wide Level I De Minimis Analysis</b>				
<b>POLLUTANT</b>	<b>CAS NUMBER</b>	<b>EMISSION RATE (LBS/DAY)</b>	<b>DE MINIMIS (LBS/DAY)</b>	<b>FACILITY TOTAL EMISSION RATE (LBS/HR)</b>
Ethyl Benzene	100-41-4	3.71E-02	52.200	1.55E-03
Glycol Ethers *	---	6.151	+	0.256
Methanol	67-56-1	4.93	15.720	0.205
Methyl Ethyl Ketone	78-93-3	24.9	177.000	1.04
Phenol	108-95-2	0.706	2.280	2.94E-02
Toluene	108-88-3	1.18	24.000	4.90E-02
Triethylamine	121-44-8	0.254	2.484	1.06E-02
Xylene	1330-20-7	8.09	52.200	0.337
* includes 2-(2-butoxyethoxy)-ethanol and Diethylene glycol monobutyl ether + no current value				

## ATTACHMENT B

### Exempt Sources

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The following table contains a list of sources which are considered exempt from the requirements to obtain a construction permit pursuant to South Carolina Regulation 61-62.1, Section II(B). Sources listed below are not exempt from any otherwise applicable state or federal requirements including, but not limited to, opacity standards, ambient air quality standards, and air toxic standards.

<b>EXEMPT SOURCES</b>			
<b>Equipment ID</b>	<b>Source Description</b>	<b>Installation Date</b>	<b>Basis</b>
EX-A	Three (3) 265 gallon emergency engine diesel storage tanks	Proposed	SC Regulation 61-62.1 Section II (B)(2)(h)
EX-B	Two (2) 10,000 gallon emergency engine diesel storage tanks	Proposed	SC Regulation 61-62.1 Section II (B)(2)(h)
EX-C	Two (2) 14,000 gallon boiler No. 2 fuel oil storage tanks	Proposed	SC Regulation 61-62.1 Section II (B)(2)(h)
EX-D	One (1) 10,000 gallon reductant storage tank	Proposed	SC Regulation 61-62.1 Section II (B)(2)(h)
EX-E	One (1) 26,400 gallon mold protection / blue stain protection storage tank	Proposed	SC Regulation 61-62.1 Section II (B)(2)(h)
EX-F	One (1) 27 gallon mold protection storage tank	Proposed	SC Regulation 61-62.1 Section II (B)(2)(h)
EX-G	On-site vehicle diesel refueling station and one (1) 16,000 gallon storage tank	Proposed	SC Regulation 61-62.1 Section II (B)(2)(h)
EX-H	Space heaters	Proposed	SC Regulation 61-62.1 Section II (B)(2)(b)
EX-I	Laboratory equipment	Proposed	SC Regulation 61-62.1 Section II (B)(2)(e)
EX-J	Maintenance brazing, soldering, and welding equipment	Proposed	SC Regulation 61-62.1 Section II (B)(2)(h)
EX-K	Fire suppression systems and fire extinguishers	Proposed	SC Regulation 61-62.1 Section II (B)(2)(g)
EX-L	Three (3) Site-Wide Electric Powered Hogs	Proposed	SC Regulation 61-62.1 Section II (B)(2)(h)