

Facility ID: 0238000119 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0238000119 Emissions Unit ID: B008 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|--|--------------------------------------|--|
| G&S Mill, 267 HP, 8.92 mmBtu/hr, Wood Waste fired stoker/boiler with Multiclone Particulate Control System. (B008) | OAC 3745-31-05 PTI No. 02-9768 | Particulate emissions from this emissions unit shall not exceed 0.60 pound per million Btu or 5.35 lbs/hr and 23.44 TPY. |
| | OAC 3745-17-07 | See section A.2.2.a and A.2.2.b. |
| | OAC 3745-31-05 PTI No. 02-9768 | Emissions of sulfur dioxide from this emissions unit shall not exceed 0.90 TPY. |

2. Additional Terms and Conditions

- (a) This emissions unit shall comply with OAC 3745-17-07(A), which limits visible particulate emissions as follows:
 - i. except as provided below, visible particulate emissions from the stack shall not exceed an opacity of twenty (20) percent as a six-minute average; and
 - ii. visible particulate emissions from the stack may exceed twenty (20) percent as a six-minute average for not more than six (6) consecutive minutes in any sixty- minute period, but shall not exceed sixty (60) percent opacity at any time.
The visible particulate emission limitations specified above shall not apply to the following operations, provided the operations are documented in a boiler operations log kept at the facility:
 - i. the start-up of this emissions unit for a period of time required to achieve stable combustion conditions, but no more than three (3) hours from the moment of start-up. "Start-up" means the commencement of firing of fuel from a cold non- fired condition;
 - ii. the shutdown of this emissions unit for a period of not more than three (3) hours;
 - iii. the malfunction of this emissions unit or associated equipment, if the permittee complies with the requirements of OAC Rule 3745- 15-06;
 - iv. intermittent soot-blowing operations (the cleaning of heat transfer surfaces with pressurized air or steam);
 - v. intermittent ash removal operations (the dumping or pulling of ash); and
 - vi. the commencement of increased wood waste/saw dust firing from a banked condition for a period not to exceed thirty (30) minutes. "Banked condition" means the condition where the fuel is burned on the grates at rates which are sufficient to maintain ignition only.

The boiler operations log shall clearly document the date, beginning time, and ending time of the exempted operations listed above.

B. Operational Restrictions

1. The maximum heat input to this emissions unit shall not exceed 8.92 mmBtu per hour, the maximum rated capacity of this boiler.
2. The fuel used to fire this stoker/boiler shall be restricted to saw dust or wood waste only.

3. The use of flyash reinjection in this emissions unit is prohibited.
 4. This emissions unit shall employ an overfire air system which is designed, maintained, and operated in accordance with good engineering practices and which minimizes visible emissions.
 5. This wood waste-fired stoker/boiler shall be equipped with a multiclone mechanical collector for the control of particulate emissions. This multiclone particulate collector shall be operated at all times that this emissions unit is in operation (i.e., burning wood waste and generating steam) and shall be cleaned and maintained periodically in accordance with good engineering practices and manufacturer's recommendations.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall maintain the following records related to the operation of this emissions unit:
 - a. On a daily basis, the total number of hours of operation of this emissions unit, the number of hours of banked operation, the times of ash removal and soot blowing, and the time of any equipment malfunction which results in excessive plume opacity from this emissions unit;
 - b. On a weekly basis, the total volume or weight of wood/wood waste burned in this boiler; and
 - c. The dates and details of all cleaning and maintenance performed on the multiclone collector.
 2. Once each year (or more frequently if required by the Director), the permittee shall obtain a representative composite sample of the wood waste being burned in this emissions unit and have that fuel sample analyzed for heat content, ash content, and sulfur content. All analytical values shall be recorded on both an as-burned and dry basis. Sampling and analysis of this fuel shall be in accordance with appropriate ASTM methodology or be other methods acceptable to, and approved by, the Director.
- D. Reporting Requirements**
1. The permittee shall notify the Director (the appropriate District office) in writing of any record which shows an exceedance (deviation) of the terms and conditions listed in sections A.1, A.2, or B above. This notification shall include the date and type of the exceedance and the corrective action taken to avoid such an exceedance in the future; it shall be sent to the Director (the appropriate District office) within 45 days after the exceedance occurs.
- E. Testing Requirements**
1. Compliance with the emission limitations in sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitation: Particulates--0.60 pound per million Btu of actual heat input or 5.35 lbs/hr and 23.44 TPY.

Applicable Compliance Method: Compliance shall be based upon the use of an emission factor as specified in AP-42, Compilation of Air Pollution Emission Factors, section 1.6, table 1.6-1 (7/93) and data recorded pursuant to section C.1 above. If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the particulate emissions limits of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC 3745-17-03(B)(7).

Emissions Limitation: Except as specified below, visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average. Visible particulate emissions from the exhaust stack serving this emissions unit may exceed twenty (20) percent opacity, as a six-minute average, for not more than six (6) consecutive minutes in any sixty-minute period, but shall not exceed sixty (60) percent opacity, as a six-minute average, at any time.

Applicable Compliance Method: Compliance shall be determined through visible emission observations in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03 (B)(1).

Emissions Limitation: Sulfur dioxide emissions not to exceed 0.90 TPY.

Applicable Compliance Method: Compliance shall be based upon the use of an emission factor as specified in AP-42, Compilation of Air Pollution Emission Factors, section 1.6, table 1.6-2 (7/93) and data recorded pursuant to section C.1 above.
- F. Miscellaneous Requirements**
1. None