

Facility ID: 1431480611 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: 1431480611 Emissions Unit ID: B002 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>
24.6 MMBTU/HR Coal-Fired Boiler (Derated) w/Multiclone	OAC 3745-17-07 (A)(1)  OAC 3745-17-10 OAC 3745-18-37 (II)	Visible particulate emissions from the stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule. See T&C A.2.2.a 2.0 LBS SO2/MMBTU

2. **Additional Terms and Conditions**
  - (a) Pursuant to OAC rule 3745-17-10, the total heat input for B002 is derated from 99.6 mmBtu/hr to 24.6 mmBtu/hr. (The derated total heat input of 24.6 mmBtu/hr corresponds to a steam load of 12,620 pounds per hour.) Using the derated total heat input, the allowable particulate emission rate for B002, from Figure I of OAC rule 3745-17-10, is 0.31 pound per mmBtu of actual heat input.

**B. Operational Restrictions**

1. At no time shall the steam flow rate from B002 exceed 12,620 pounds per hour (as an average over any one-hour period).
2. The quality of the coal burned in this emissions unit shall meet the following specifications on an as-burned wet basis:
  - a. Less than 10 percent ash by weight.
  - b. A sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 2.0 pounds sulfur dioxide/mmBtu actual heat input.
  - c. Greater than 13,000 Btu/pound of coal.

**C. Monitoring and/or Record Keeping Requirements**

1. The permittee shall continuously monitor and record the steam flow rate from B002.
2. The permittee shall collect representative grab samples of the coal burned in this emissions unit on a frequency of once per day. Each sample shall be collected from the coal hopper at the stoker. The coal sampling shall be performed in accordance with ASTM method D2234 (Collection of a Gross Sample of Coal). At the end of each calendar month, all of the grab samples which were collected during that calendar month shall be combined into one composite sample.
3. Recordkeeping Requirements for Coal Usage and Quality
 

The permittee shall maintain monthly records of the total quantity of coal burned, and the results of the analyses for ash content, sulfur content, and heat content.

**D. Reporting Requirements**

1. If for any reason the steam flow rate from B002 exceeds 12,620 pounds per hour, the following information shall be reported within 5 business days after the exceedance:
  - a. the date of the exceedance;
  - b. the time interval over which the exceedance occurred;

- c. the value of the exceedance;
  - d. the cause(s) of the exceedance;
  - e. the corrective action which has been or will be taken to prevent similar exceedances in the future; and
  - f. a copy of the steam chart which shows the exceedance.
2. Quarterly reports shall be submitted concerning the quality and quantity of the coal burned in this emissions unit. These reports shall include the following information for the emissions unit for each calendar month during the calendar quarter:
- a. the total quantity of coal burned (tons);
  - b. the weighted average ash content (percent) of the coal burned;
  - c. the weighted average sulfur content (percent) of the coal burned;
  - d. the weighted average heat content (Btu/pound) of the coal burned; and
  - e. the weighted average sulfur dioxide emissions rate (pounds sulfur dioxide/mmBtu actual heat input) from the coal burned.
- These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the data obtained during the previous calendar quarters.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
- a. Compliance with the visible emission limitation shall be demonstrated by methods outlined in OAC 3745-17-03 (B)(1).
  - b. Compliance with the 2.0 lbs SO<sub>2</sub>/MMBTU emission limit shall be determined by the recordkeeping requirements in C.3 and the following equation:
- $$ER = (1 \times 10^6) / H \times S \times 1.9$$
- where ER = the emission rate in pounds of sulfur dioxide per MM BTU;
- H = the heat content of the coal in BTU per pound (dry basis);
- S = the decimal fraction of sulfur in the coal (dry basis).
2. Each monthly composite sample of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal). The analytical methods for ash content, sulfur content, and heat content shall be: ASTM method D3174, Ash in the Analysis of Coal and Coke; ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isoperibol Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.
3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted annually beginning one(1) year from the issuance of this permit.
  - b. The emission testing shall be conducted to demonstrate compliance with the particulate allowable mass emission rate.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5, 40 CFR Part 60, Appendix A.
  - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time (s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).
- Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

**F. Miscellaneous Requirements**

None