

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: B007 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>
8.5 mmBtu/Hr. Kewanee Gas/#2 Fuel Oil Fired Boiler (B007)	OAC Rule 3745-17-07(A) OAC Rule 3745-17-10 OAC Rule 3745-18-04	a. Per OAC Rule 3745-17-10(B)(1), the particulate emissions from this emission unit shall not exceed 0.02 pound per million Btu (mmBtu) of heat input. Annual particulate emissions shall not exceed 0.56 tons per year. b. Sulfur dioxide (SO ₂) emissions from this facility shall not exceed 99.62 tons per year. SO ₂ emissions from this gas/oil fired emissions unit (B007) shall not exceed 0.512 pounds per million Btu of heat input or 8.51 tons per year. (See "Federally Enforceable Emission Requirements for Sulfur Dioxide" below.)

2. Additional Terms and Conditions

- (a) VISIBLE PARTICULATE EMISSION RESTRICTIONS:

This emissions unit shall comply with OAC Rule 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.
 - 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 the source 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 the source for a period of not more than three (3) hours.
 - iii. The malfunction of the source or associated equipment, if the owner of the source or operator of the equipment complies with the requirements of OAC Rule 3745- 15-06.
 This boiler operations log shall clearly document the date, beginning time, and ending time of the exempted operations listed above.
- (b) FEDERALLY ENFORCEABLE EMISSION REQUIREMENTS FOR SULFUR DIOXIDE:

The total annual emissions of SO₂ from all sources at this facility shall be limited to 99.62 tons. Since four (4) other emissions units at this facility (two coal fired boilers, Sources B001and B003, a gas fired boiler, Source B004, and a waste wood fired boiler, Source B008, with maximum heat input rates of 4.3, 1.6, 1.68, and 8.92 million Btu/hour respectively) collectively have maximum annual potential SO₂ emissions of 91.11 tons per year, the annual allowable emissions from this gas/oil fired boiler (B007) shall not exceed 8.51 tons.

This annual sulfur dioxide emissions limitation on source B007 shall be achieved by restricting both the quality and volume of fuel oil burned in this emissions unit as well as the total amount of time that this boiler may operate using fuel oil during any rolling 12 month period in the following manner:

The fuel oil used in this emissions unit shall be restricted to a sulfur dioxide emissions rate of no greater than 0.512 pounds per mmBtu actual heat input. This restriction shall be achieved by limiting the fuel oil to the following specifications:

- i. Sulfur content of no greater than 0.50 percent;
- ii. Heat content of no less than 133,000 Btu per gallon; and
- iii. Average density of no greater than 6.9 pounds per gallon.

Compliance with the above-mentioned fuel specifications for sulfur, heat content, and density shall be determined by using the analytical results provided by the fuel oil supplier for each shipment of oil. Sampling and analysis of the fuel oil shall be done in accordance with 40 CFR, Part 60, Appendix A, Method 19, or the appropriate ASTM methods, or by an equivalent method approved by the Director of the Ohio EPA.

The owner/operator of this source shall notify the Ohio EPA immediately if the fuel quality restrictions above are exceeded. Fuel oil usage in this boiler shall be limited to no more than 250,000 gallons per year as measured on a rolling 12 month basis.

In order to ensure federal enforceability of this restriction, during the first twelve (12) months of operation under this permit, Miller Lumber Company shall not exceed the total cumulative monthly fuel oil usage limits for each specified time period as shown in table below.

Months Cumulative Total Gallons of Oil Burned

1 47548
 2 65953
 3 84358
 4 102763
 5 121168
 6 139573
 7 157978
 8 176383
 9 194788
 10 213193
 11 231598
 12 250000

B. Operational Restrictions

1. The maximum heat input to this source shall not exceed 8.5 mmBtu per hour, the maximum rated capacity of this boiler.
2. Natural gas shall be used as the primary fuel in this boiler.
3. This boiler shall utilize No. 2 fuel oil as a backup fuel only. The date and time that this emissions unit is operated using fuel oil firing shall be clearly documented in the boiler operating log.

C. Monitoring and/or Record Keeping Requirements

1. This facility shall maintain the following records for this source, in addition to those records referred to in A.2.1.b above:
 For each shipment of oil, the volume of oil received and the results of the oil supplier's analyses. Data recorded shall include:
 - i. the total quantity of fuel oil received in each shipment (gallons),
 - ii. the sulfur content (percent) of the oil received in each shipment,
 - iii. the heat content (Btu per gallon) of oil received in each shipment,
 - iv. the density (in pounds per gallon) of the oil received in each shipment,
 - v. the sulfur dioxide emission rate (pounds SO₂ per million Btu actual heat input) from fuel oil received in each shipment.

[NOTE: The sulfur dioxide emission rate shall be calculated using the formula found in OAC Rule 3745-18-04(F) (2).]

- vi. monthly calculations of the weighted average sulfur content, heat content, density, and SO₂ emission rate for the oil received during each calendar month.

Compliance with the applicable SO₂ emission limitations shall be determined based on the weighted arithmetic average of all fuel analyses for each calendar month.

[NOTE: A weighted average fuel quality value is determined by multiplying each fuel analysis value (Btu/gallon, SO₂ emission rate, etc.) by the weight or gallons of the shipment of fuel for which the quality value is representative, adding up all the value-weighted products, and dividing the sum of the value-weighted products by the sum of all the shipment weights or gallons.]

D. Reporting Requirements

1. The owner/operator of this source shall notify the Ohio EPA immediately if any of the restrictions in the "Federally

Enforceable Emission Requirements for Sulfur Dioxide" are exceeded.

2. This facility shall submit semi-annual reports to the Ohio EPA, Northeast District Office, which provide the following information for this source:
 - a. The total quantity of oil received and burned during each calendar month;
 - b. The weighted average heat content (Btu per gallon) of the oil received during each calendar month;
 - c. The weighted average SO₂ emission rate (pounds SO₂ per mmBtu actual heat input) for the fuel oil received during each calendar month;
 - d. The rolling 12 month cumulative total gallons of fuel oil burned (consumed) in this boiler (after the first 12 months of operation under this permit);
 - e. The level of SO₂ emissions (in Tons) for each month as calculated from the monthly amount of oil burned (received) and the weighted average heat content and weighted average SO₂ emissions rate for the oil received; and
 - f. A copy of the oil supplier's analyses for each oil shipment received during the reporting period.

These reports shall be submitted by February 15 and August 15 of each year and shall cover operations for the previous six calendar months (July through December and January through June).

E. Testing Requirements

1. None

F. Miscellaneous Requirements

1. FEDERAL ENFORCEABILITY:

Sections A.1.b, A.2.2.a, A.2.2.b, A.2.2.c, A.2.2.d, C, and D of these Special Terms and Conditions constitute the federally enforceable portions of this Permit to Operate.