

Facility ID: 1677090000 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: 1677090000 Emissions Unit ID: B003 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>
boiler #3 - Cleaver Brooks, model DL-52 with a capacity of 50.7 mmBtu/hr	OAC rule 3745-17-07	See A.2.a and A.2.b below.
	OAC rule 3745-17-10	0.020 pound of particulates per mmBtu of actual heat input (when burning only natural gas)
	OAC rule 3745-18-83	0.27 pound of particulates per mmBtu of actual heat input (when burning #6 fuel oil) average heat input for any calendar day shall not exceed 39 mmBtu/hr
	OAC rule 3745-35-07	1.05 pounds of sulfur dioxide per mmBtu of actual heat input annual emissions and annual oil consumption shall not exceed the following as a rolling, 12-month summation: 89.31 tpy of sulfur dioxide 1,134,000 gallons of oil

2. Additional Terms and Conditions

- (a) Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
Visible particulate emissions from any stack may exceed 20% as a 6-minute average for not more than 6 consecutive minutes in any 60-minute period, but shall not exceed 60% opacity at any time.

The visible particulate emission limitation 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 emissions unit for a period of time required to achieve stable combustion conditions, but no more than 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 emissions unit for a period of not more than 3 hours; and
 - iii. the malfunction of the emissions unit or associated equipment, if the permittee complies with the requirements of OAC rule 3745-15-06.

The boiler operations log shall clearly document the date, beginning time, and ending time of the exempted operations listed above.
Compliance with the annual oil consumption limitation and the emission limitation for sulfur dioxide shall be based upon a rolling, 12-month summation of the sulfur dioxide emissions and the oil usage.

B. Operational Restrictions

1. The permittee shall only burn fuel oil in this emissions unit that meets the following specifications:
 - a. a sulfur content which is sufficient to comply with an allowable sulfur dioxide emission limitation of 1.05

pounds of sulfur dioxide per mmBtu actual heat input;

- b. less than 0.05 percent ash; and
- c. greater than 150 mmBtu per gallon of oil.

Compliance with the above-mentioned specifications for ash content, sulfur content, and heat content shall be determined by the fuel supplier certifying that each shipment is in compliance with the specifications. The fuel supplier shall base the certifications on ASTM D4294, ASTM D240, or EPA Method 6010 for sulfur content, ASTM D240 for heat content, and ASTM D482 for ash content.

- 2. The maximum heat input to this emissions unit shall not exceed 50.7 mmBtu/hr--the maximum rated capacity.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain the following information for each shipment of oil received:
 - a. the total quantity of oil received, in gallons;
 - b. the sulfur content of the oil, in weight percent;
 - c. the ash content of the oil, in weight percent;
 - d. the heat content of the oil, in mmBtu/gallon; and
 - e. the calculated SO₂ emission rate, in pounds per mmBtu.
- 2. The permittee shall maintain daily records of the following information:
 - a. the oil consumption, in gallons, and the associated total heat input, in mmBtu;
 - b. the natural gas consumption, in mmcft, and the associated total heat input, in mmBtu; and
 - c. the average hourly heat input, in mmBtu/hr.
- 3. The permittee shall perform monthly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noticed in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.
- 4. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the oil consumption for each month, in gallons;
 - b. the volume-weighted average value for heat content;
 - c. the volume-weighted average value for percent ash;
 - d. the volume-weighted average value for percent sulfur;
 - e. the SO₂ emission rates, in tons and in pounds per mmBtu; and
 - f. the rolling, 12-month summations of the oil consumption figures (gallons) and SO₂ emission rates (tons).

Compliance with the applicable pounds per mmBtu sulfur dioxide emission limitation, as well as the ash and Btu limitations, shall be determined based on the volume-weighted average of all the fuel analyses for each calendar month.

[NOTE: A weighted average fuel quality value is determined by multiplying each fuel analysis value (Btu per gallon, percent ash, or sulfur dioxide emission rate) by the volume of the shipment of fuel for which the quality is representative, adding up all the value-weighted products, and dividing the sum of the value-weighted products by the total volume of all shipments.]

D. Reporting Requirements

- 1. The permittee shall submit semiannual written reports which (a) identify all periods during which any visible particulate emissions were observed from the stack servicing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 of each year and shall cover the previous 6-month period.
- 2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month emission limitation for sulfur dioxide.
- 3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month usage limitation for oil.
- 4. The permittee shall submit deviation (excursion) reports which include an identification of each monthly record during which the calculated average value for sulfur dioxide emissions exceeded 1.05 pounds of sulfur dioxide per mmBtu of actual heat input, and the actual emission rate for each such period.
- 5. The permittee shall submit deviation (excursion) reports which include an identification of each day during which

the average hourly heat input value exceeded 39 mmBtu/hr, and the actual heat input value for each such day.

6. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3 of this permit.
7. The permittee shall submit annual reports which specify the following :
 - a. oil consumption, in gallons; and
 - b. sulfur dioxide emissions, in tons.

These reports shall include all the corresponding calculations and shall be submitted by January 31 of each year and shall cover the previous calendar year.

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:

Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

Emission Limitation:

0.020 pound of particulates per mmBtu of actual heat input (when burning only natural gas)
0.27 pound of particulates per mmBtu of actual heat input (when burning #6 fuel oil)

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by stack testing in accordance with OAC rule 3745-17-03(B)(9).

Emission Limitation:

average heat input for any calendar day shall not exceed 39 mmBtu/hr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limitation based upon the record keeping requirements of section C.2 of this permit.

Emission Limitation:

1.05 pounds of sulfur dioxide per mmBtu of actual heat input

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limitation based upon the record keeping requirements of section C.4 of this permit.

Emission Limitation:

89.31 tpy of sulfur dioxide

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limitation based upon the record keeping requirements of section C.4 of this permit.

Emission Limitation:

1,134,000 gallons of oil

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limitation based upon the record keeping requirements of section C.4 of this permit.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A, B, C, D, E, and F. The applicant has requested that such restrictions be imposed in order to limit the potential to emit, and, therefore avoid Title V applicability.