

Facility ID: 0285010098 Issuance type: Final State Permit To Operate

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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: 0285010098 Emissions Unit ID: B011 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>
20.93 mmBtu/hour natural gas or no. 2 fuel oil-fired boiler	OAC rule 3745-31-05(A)(3) (PTI 02-12082)	Sulfur dioxide (SO <sub>2</sub> ) emissions shall not exceed 0.50 lb/mmBtu of actual heat input and 45.8 tpy.  Nitrogen oxides (NO <sub>x</sub> ) emissions shall not exceed 0.20 lb/mmBtu of actual heat input and 18.3 tpy.  Carbon monoxide (CO) emissions shall not exceed 0.09 lb/mmBtu of actual heat input and 8.25 tpy.
	OAC rule 3745-17-10(B)	Visible particulate emissions from this emissions unit shall not exceed 5% opacity as a 6-minute average.
	OAC rule 3745-17-07(A)(1)	Particulate emissions (PE) shall not exceed 0.020 lb/mmBtu of actual heat input. The visible particulate emission limitation required by this applicable rule is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06	The SO <sub>2</sub> emission limitation required by this applicable rule is less stringent than the SO <sub>2</sub> emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR Part 60, Subpart Dc	The sulfur content of the no. 2 fuel oil shall not exceed 0.50 percent, by weight.

2. **Additional Terms and Conditions**
  - (a) The annual emission limitations specified above represent the potential to emit for this emissions unit. Therefore, no monitoring, record keeping or reporting is required to demonstrate compliance with these emission limitations.

**B. Operational Restrictions**

1. The permittee shall only employ natural gas or no. 2 fuel oil as fuel for this emissions unit.
2. The quality of the no. 2 fuel oil burned in this emissions unit shall meet the following specifications on an "as received" basis:
  - a. a sulfur content which is sufficient to comply with the allowable SO<sub>2</sub> emission limitation of 0.50 lb/mmBtu of actual heat input and which is less than the restriction of 0.50 percent sulfur, by weight; and
  - b. greater than 140,000 Btu per gallon of oil.

Compliance with the above-mentioned specifications shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil.

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

1. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of

oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Ohio EPA Northeast District Office.

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.
3. The permittee of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

**D. Reporting Requirements**

1. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
  - a. the total quantity of oil received in each shipment (gallons);
  - b. the weighted\* average SO<sub>2</sub> emission rate (pounds/mmBtu) for the oil received during the calendar month;
  - c. the weighted\* average heat content (Btu/gallon) of the oil received during the calendar month;
  - d. the name of the oil supplier; and
  - e. a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c.

\*In proportion to the quantity of oil received in each shipment during the calendar month.

These quarterly reports shall be submitted by February 15, May 15, August 15 and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

**E. Testing Requirements**

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:  
Emission Limitation:

SO<sub>2</sub> emissions shall not exceed 0.50 lb/mmBtu of actual heat input and 45.8 tpy.

Applicable Compliance Method:

To determine the actual short-term emission rate for SO<sub>2</sub>, the following equation shall be used:

$$E = ( (1 \times 1,000,000) / H ) \times D \times S \times 1.974$$

where:

E = SO<sub>2</sub> emission rate, in lb/mmBtu;

H = heat content of the liquid fuel, in Btu/gal;

D = density of the liquid fuel, in lb/gal; and

S = decimal fraction of sulfur in the liquid fuel.

The annual emission limitation was determined by multiplying the short-term emission limitation (0.50 lb/mmBtu) by the maximum heat input capacity of the boiler (20.93 mmBtu/hr) and by the maximum annual hours of operation (8,760 hrs/yr) and then dividing by 2,000 lbs/ton.

Emission Limitation:

NO<sub>x</sub> emissions shall not exceed 0.20 lb/mmBtu of actual heat input and 18.3 tpy.

Applicable Compliance Method:

Compliance with the short-term NO<sub>x</sub> emission limitation shall be determined using the emission factor specified in AP-42 "Compilation of Air Pollutant Emission Factors," Chapter 1 "External Combustion Sources," Table 1.3-1, dated 9/98.

The annual emission limitation was determined by multiplying the short-term emission limitation (0.20 lb/mmBtu) by the maximum heat input capacity of the boiler (20.93 mmBtu/hr) and by the maximum annual hours of operation (8,760 hrs/yr) and then dividing by 2,000 lbs/ton.

Emission Limitation:

CO emissions shall not exceed 0.09 lb/mmBtu of actual heat input and 8.25 tpy.

Applicable Compliance Method:

Compliance with the short-term CO emission limitation shall be determined using the emission factor specified in AP-42 "Compilation of Air Pollutant Emission Factors," Chapter 1 "External Combustion Sources," Table 1.3-1, dated 9/98.

The annual emission limitation was determined by multiplying the short-term emission limitation (0.09 lb/mmBtu) by the maximum heat input capacity of the boiler (20.93 mmBtu/hr) and by the maximum annual hours of operation (8,760 hrs/yr) and then dividing by 2,000 lbs/ton.

Emission Limitation:

PE shall not exceed 0.020 lb/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance with the above PE limitation shall be determined using the emission factor specified in AP-42 "Compilation of Air Pollutant Emission Factors," Chapter 1 "External Combustion Sources," Table 1.3-1, dated 9/98.

Emission Limitation:

Visible particulate emissions from this emissions unit shall not exceed 5% opacity as a 6-minute average.

Applicable Compliance Method:

Compliance with the visible particulate emission limitation shall be determined using Method 9 of 40 CFR Part 60, Appendix A.

F. **Miscellaneous Requirements**

1. None