Facility ID: 1431420875 Issuance type: Draft 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: 1431420875 Emissions Unit ID: B001 Issuance type: Draft 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
48.6 MMBtu/Hr Gas/No. 2 Oil Fired Boiler	OAC 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule.
	OAC 3745-17-10(B)(1)	0.020 pound of particulate emissions per million Btu actual heat input.
	OAC 3745-18-06(C)	1.6 pounds of sulfur dioxide per million Btu actual heat input.
	OAC 3745-35-07	See B.1. - B.3.

2. **Additional Terms and Conditions**

   None

B. **Operational Restrictions**

1. The combined No. 2 fuel oil usage for B001, B002, and B003 shall not exceed 700,000 gallons based on a rolling, 12-month summation.

2. To ensure federal enforceability, the following combined usage rates for B001, B002, and B003 shall not be exceeded for the first twelve months of operations:

   Month(s) Usage Limitation (Gallons)
   1-6 350,000
   1-7 408,000
   1-8 466,666
   1-9 525,000
   1-10 583,333
   1-11 641,666
   1-12 700,000

3. The sulfur content of No. 2 fuel oil employed in emissions units B001, B002, and B003 shall not exceed 0.5 percent sulfur by weight.

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

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

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO2 emission rate (the SO2 emission rate shall be calculated as specified in OAC 3745-18-04 (F)).

2. 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 appropriate Ohio EPA District Office or local air agency.

3. The permittee shall collect and record the following information each month:

   a. the combined amount of No. 2 fuel oil burned in emissions units B001, B002, and B003; and

   b. beginning after the first 12 calendar months of operation, the rolling, 12-month summation of No. 2 oil burned in emissions units B001, B002, and B003.

   Also, during the first 12 calendar months of operation, the permittee shall record the cumulative amount of No. 2 oil burned in emissions units B001, B002, and B003 for each calendar month.

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 sulfur dioxide emission rate (pounds/mmBtu) for the oil received during each calendar month; and

   c. the weighted* average heat content (Btu/gallon) of the oil received during each calendar month.

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

2. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any monthly record which shows a deviation of the rolling, 12-month or cumulative No. 2 oil usage limitations. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.

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 methods(s):

   Emission Limitation:

   0.020 lb particulate emissions/mmBTU actual heat input

   Applicable Compliance Method:

   For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0486 mmcu.ft/hr) by the AP-42 emission factor for natural gas (6.20 lbs particulate/million cubic feet), and dividing by the maximum hourly heat input capacity of the emissions unit (48.6 mmBTU/hr). For the use of No. 2 oil, compliance shall be based upon multiplying the maximum fuel oil capacity of the emissions unit (347 gal/hr) by the AP-42 emission factor for No. 2 oil (2.0 lbs particulate/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (48.6 mmBTU/hr).

   If testing is required to demonstrate compliance with the allowable emission limitation of 0.020 LB/MMBtu of actual heat input, the testing shall be conducted using the following method:

   40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation:

   1.6 lb SO2/mmBTU actual heat input

   Applicable Compliance Method:

   Compliance with the SO2 emission rate of 1.6 lbs/MMBtu of actual heat input shall be determined by information contained in section C of these terms and conditions.

   If testing is required to demonstrate compliance with the allowable emission limitation of 1.6 LBS S02/MMBtu of actual heat input, the testing shall be conducted using the following method:

   40 CFR Part 60, Appendix A, Method 6.

3. Emission Limitation:

   20% Opacity

   Applicable Compliance Method:

   Compliance with OAC 3745-17-07 shall be demonstrated by the methods specified in OAC rule 3745-17-03(B)(1).

F. **Miscellaneous Requirements**

1. In accordance with OAC rule 3745-35-07, all of the terms and conditions contained in this permit are federally enforceable.