

Facility ID: 0857040180 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: 0857040180 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>
8.46 MMBTU/hour natural gas/No. 2 fuel oil boiler	OAC rule 3745-17-10(B)(1) PTI 08-3544	0.020 lb particulate/MMBTU 0.75 TPY particulate; 2.06 lbs/hour nitrogen oxides (NOx), 4.60 TPY NOx; 0.47 lb/hour carbon monoxide (CO), 1.07 TPY CO; 0.10 lb/hour organic compounds (OC), 0.20 TPY OC 4.26 lbs/hour sulfur dioxide (SO2), 10.50 TPY SO2, as a rolling, 12-month summation Opacity shall not exceed 20 percent, as a six-minute average, except as provided by rule
	OAC rule 3745-17-07(A)	

2. **Additional Terms and Conditions**
 - (a) The lbs/hour allowable emission rates for each pollutant were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

B. Operational Restrictions

1. The maximum annual No. 2 fuel oil usage for this emissions unit shall not exceed 295,200 gallons, based upon a rolling, 12-month summation of the fuel oil usage figures.
2. The maximum sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.5%, by weight.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. The number of gallons of fuel oil burned for the month.
 - b. The number of mm cu. ft of natural gas burned for the month.
 - c. The rolling 12-month summation of the No. 2 fuel oil usage figures, i.e., (the preceding 11 months + a)/ 12 (beginning the 13th calendar month after the final issuance of the permit to install, No. 08-3544, issued 9/25/96).
 - d. The calculated sulfur dioxide emissions rate (see calculation methodology in section E.1.j.).
 - e. The rolling, 12-month summation of the sulfur dioxide emissions rates, i.e., (the preceding 11 months + a)/ 12 (beginning the 13th calendar month after the final issuance of the permit to install, No. 08-3544, issued 9/25/96).

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 oil supplier's analysis for sulfur content. The record keeping shall document that the fuel was sampled and analyzed in accordance with approved ASTM procedures.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify any exceedances of the rolling, 12-month No. 2 fuel oil usage limitation and/or the fuel oil sulfur content. These reports shall be submitted in accordance with paragraph 3 of the General Terms and Conditions.

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):
Emission Limitation -
0.020 pound particulates/MMBTU

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 (8057 cu. ft/hour) by the AP-42 emission factor for natural gas (4.5 pounds particulate/MMcu ft.) and dividing by the maximum hourly heat input capacity of the emissions unit (8.46 MMBTU/hour). For the use of No. 2 fuel oil, compliance shall be based upon multiplying the maximum fuel oil capacity of the emissions unit (60 gallons/hour) by the AP-42 emission factor for No. 2 fuel oil (2 pounds particulate/1000 gallons), and dividing by the maximum hourly heat input capacity of the emissions unit (8.46 MMBTU/hour). If required, compliance with this emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(9).

Emission Limitation -
0.74 TPY particulate

Applicable Compliance Method -

Compliance shall be based upon record keeping and shall be determined by:

- (i) multiplying the total natural gas burned for the month by the emission factor of 4.5 pounds/mm cu. ft. as specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, section 1.4, Table 1.4-1;
- (ii) multiplying the total No. 2 oil burned for the month by the emission factor of 2 pounds/1000 gallons, as specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, section 1.3, Table 1.3-1; and
- (iii) Summing of the 12 monthly particulate emissions rates determined in (i) and (ii) for the calendar year, and dividing by 2,000 pounds per ton.

Emission Limitation -
2.06 lbs/hour nitrogen oxides

Applicable Compliance Method -

Compliance shall be determined by multiplying the AP-42 emission factor for fuel oil (20 pounds NO_x/1000 gallons of fuel oil) by the maximum hourly fuel burning capacity (60 gallons/hour) of the emissions unit.

Emission Limitation -
4.60 TPY nitrogen oxides

Applicable Compliance Method -

Compliance shall be based upon record keeping and shall be determined by:

- (i) multiplying the total natural gas burned for the month by the emission factor of 100 pounds/mm cu. ft. as specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, section 1.4, Table 1.4-1;
- (ii) multiplying the total No. 2 oil burned for the month by the emission factor of 20 pounds/1000 gallons, as specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, section 1.3, Table 1.3-1; and
- (iii) Summing of the 12 monthly nitrogen oxide emissions rates determined in (i) and (ii) for the calendar year, and dividing by 2,000 pounds per ton.

Emission Limitation -
0.47 lb/hour carbon monoxide

Applicable Compliance Method -

Compliance shall be determined by multiplying the AP-42 emission factor for fuel oil (5 pounds CO/1000 gallons of fuel oil) by the maximum hourly fuel oil burning capacity (60 gallons/hour) of the emissions unit.

Emission Limitation -
1.07 TPY carbon monoxide

Applicable Compliance Method -

Compliance shall be based upon record keeping and shall be determined by:

- (i) multiplying the total natural gas burned for the month by the emission factor of 21 pounds/mm cu. ft. as specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, section 1.4, Table 1.4-1;
- (ii) multiplying the total No. 2 oil burned for the month by the emission factor of 5 pounds/1000 gallons, as specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, section 1.3, Table 1.3-1; and

- (iii) Summing of the 12 monthly carbon monoxide emissions rates determined in (i) and (ii) for the calendar year, and dividing by 2,000 pounds per ton.

Emission Limitation -
0.10 lb/hour organic compounds

Applicable Compliance Method -

Compliance shall be determined by multiplying the AP-42 emission factor for fuel oil (0.556 pound organic compounds/1000 gallons of fuel oil) by the maximum hourly fuel burning capacity (60 gallons/hour) of the emissions unit.

Emission Limitation -
0.20 TPY organic compounds

Applicable Compliance Method -

Compliance shall be based upon record keeping and shall be determined by:

- (i) multiplying the total natural gas burned for the month by the emission factor of 5.8 pounds/mm cu. ft, as specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, section 1.4, Table 1.4-1;
- (ii) multiplying the total No. 2 oil burned for the month by the emission factor of 0.556 pound/1000 gallons, as specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, section 1.3, Table 1.3-1; and
- (iii) Summing of the 12 monthly organic compound emissions rates determined in (i) and (ii) for the calendar year, and dividing by 2,000 pounds per ton.

Emission Limitation -
4.26 lbs/hour sulfur dioxide

Applicable Compliance Method -

Compliance shall be determined by multiplying the AP-42 emission factor for fuel oil (71 pounds sulfur dioxide/1000 gallons of fuel oil) by the maximum hourly fuel burning capacity (60 gallons/hour) of the emissions unit.

Emission Limitation -
10.50 TPY sulfur dioxide, as a rolling, 12-month summation

Applicable Compliance Method -

Compliance shall be based upon record keeping and shall be determined by:

- (i) multiplying the total natural gas burned for the month by the emission factor of 0.6 pound/mm cu. ft, as specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, section 1.4, Table 1.4-1;
- (ii) multiplying the total No. 2 oil burned for the month by the emission factor of 71 pounds/1000 gallons, as specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, section 1.3, Table 1.3-1; and
- (iii) Summing of the monthly sulfur dioxide emissions rates of the 12 most recent months determined in (i) and (ii) for the rolling, 12-month period, and dividing by 2,000 pounds per ton.

Emission Limitation -
20 percent opacity visible emissions limit, as a six-minute average

Applicable Compliance Method -

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Reference Method 9.

F. Miscellaneous Requirements

1. The permittee is hereby notified that this permit, and all agency records concerning the operation of this permitted emissions unit are subject to public disclosure in accordance with OAC rule 3745-49-03.