

Facility ID: 0247020935 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: 0247020935 Emissions Unit ID: B002 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> |
|--|--|--|
| Scotch Marine, No. 2 fuel oil-fired boiler (5.2 mmBtu/hr) (B002) | 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 0.020 pound per million Btu (mmBtu) of heat input. b. Sulfur dioxide emissions from this oil-fired emissions unit (B002) shall not exceed 0.3 pounds per million Btu of heat input and 6.83 tons per year. |

2. Additional Terms and Conditions

- (a) **VISIBLE 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. Operational Restrictions

1. The maximum heat input to this emissions unit shall not exceed 5.2 mmBtu per hour, the maximum rated capacity of this boiler.
2. Primary fuel used in this boiler shall be No. 2 fuel oil.

C. Monitoring and/or Record Keeping Requirements

1. This facility shall maintain the following records for this emissions unit, in addition to those records referred to in Section A.2.1.b. above:
Daily records of the hours of operation of this boiler.
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.

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

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.]

Monthly calculations of the weighted average sulfur content, heat content, density, SO₂ emission rate for the oil received during each calendar month, and the total gallons of fuel oil burned in this boiler during the month.

D. Reporting Requirements

- 1. The permittee shall submit annual reports to the Ohio EPA, Northeast District Office, which provide the following information for this emissions unit:
The total quantity of oil received and burned during the year;
The weighted average heat content (Btu per gallon) of the oil received during the year;
The weighted average SO₂ emission rate (pounds SO₂ per mmBtu actual heat input) for the fuel oil received during the year;
The number of hours of boiler operation during the year;
The level of SO₂ emissions (in tons) for the year as calculated from the annual amount of oil burned (received) and the weighted average heat content and weighted average SO₂ emissions rate for the oil received; and
A copy of the oil supplier's analyses for each oil shipment received during the reporting period.

Each report shall be submitted by February 15 of each year and shall cover operations for the previous year.

- 2. The permittee shall notify the Ohio EPA immediately if the weighted-average sulfur dioxide emission rate for any calendar month exceeds 0.3 pound per million Btu.

E. Testing Requirements

- 1. For the purpose of determining compliance with OAC Rule 3745-17-07(A), visible particulate emissions shall be determined according to U.S. EPA test method nine (9), "Visible Determination of the Opacity of Emissions from Stationary Sources", as set forth in Chapter 40, Code of Federal Regulations (CFR), Part 60, "Standards of Performance for New Stationary Sources", "Appendix on Test Methods".

F. Miscellaneous Requirements

- 1. None