

Facility ID: 1409030215 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: 1409030215 Emissions Unit ID: B001 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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>
B001 - 12.55 mmBtu/hr Natural Gas/No. 2 Oil-Fired Boiler	OAC 3745-31-05(A)(3) (PTI 14-04212)	<p>When burning natural gas:</p> <p>Particulate emissions (PE) shall not exceed 0.007 pound per mmBtu.*</p> <p>Particulate matter less than 10 microns in diameter (PM10) shall not exceed 0.007 pound per mmBtu.*</p> <p>Sulfur dioxide (SO2) emissions shall not exceed 0.0006 pound per mmBtu.*</p> <p>Nitrogen oxides (NOx) emissions shall not exceed 0.098 pound per mmBtu.*</p> <p>Carbon monoxide (CO) emissions shall not exceed 0.082 pound per mmBtu.*</p> <p>Volatile organic compounds (VOC) emissions shall not exceed 0.005 pound per mmBtu.*</p> <p>When burning No. 2 fuel oil:</p> <p>Particulate emissions (PE) shall not exceed 0.014 pound per mmBtu.*</p> <p>Particulate matter less than 10 microns in diameter (PM10) shall not exceed 0.0071 pound per mmBtu.*</p> <p>Sulfur dioxide (SO2) emissions shall not exceed 0.51 pound per mmBtu.*</p> <p>Nitrogen oxides (NOx) emissions shall not exceed 0.14 pound per mmBtu.*</p> <p>Carbon monoxide (CO) emissions shall not exceed 0.036 pound per mmBtu.*</p> <p>Volatile organic compounds (VOC) emissions shall not exceed 0.0014 pound per mmBtu.*</p>

*The emission limitations outlined above are based upon the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

When burning any combination of natural gas and No. 2 fuel oil:

Particulate emissions (PE) shall not exceed 0.63 tons per year (TPY).

Particulate matter less than 10 microns in diameter (PM10) shall not exceed 0.41 tons per year (TPY).

Sulfur dioxide (SO2) emissions shall not exceed 16.73 tons per year (TPY).

Nitrogen oxides (NOx) emissions shall not exceed 6.86 tons per year (TPY).

Carbon monoxide (CO) emissions shall not exceed 4.51 tons per year (TPY).

Volatile organic compounds (VOC) emissions shall not exceed 0.59 tons per year (TPY).

See term and condition B.1.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and 40 CFR Part 60, Subpart Dc.

40 CFR Part 60, Subpart Dc
OAC rule 3745-17-07(A)(1)

See term and condition B.2.

Visible particulate emissions from any stack associated with this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

OAC rule 3745-17-10(B)(1)

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-18-06

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-21-08

See term and condition A.2.b.

2. Additional Terms and Conditions

(a) The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

The permittee shall satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. This rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

B. Operational Restrictions

1. The maximum No. 2 fuel oil usage for this emissions unit shall not exceed 471,000 gallons per year.
2. The quality of the fuel oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.1 above, not to exceed 0.5 percent by weight.

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 name of the supplier, the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).] A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM

methods D240 and D4294), or equivalent methods as approved by the Director.

The permittee shall maintain a record of certification from each oil supplier that the fuel oil complies with the definition of distillate oil in accordance with 40 CFR Part 60.41c.

The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and 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 sulfur dioxide emission rate (in lbs/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).] A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).]

2. The permittee shall maintain monthly records of the following information:

- a. the total amount of natural gas burned in this emissions unit, in cubic feet;
- b. the total amount of No. 2 fuel oil burned in this emissions unit, in gallons;

D. Reporting Requirements

- 1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section C.1. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.
- 2. The permittee shall submit annual reports of the total amount of natural gas used, in cubic feet, and total amount of No. 2 fuel oil used, in gallons. These reports shall be submitted to the Director (the appropriate District Office or local air agency) by February 15 of each year and shall contain the information for the previous twelve calendar months (January through December).

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:
Emissions Limitations:

When burning natural gas:

Particulate emissions (PE) shall not exceed 0.007 pound per mmBtu.
Particulate matter less than 10 microns in diameter (PM10) shall not exceed 0.007 pound per mmBtu.
Sulfur dioxide (SO₂) emissions shall not exceed 0.0006 pound per mmBtu.
Nitrogen oxides (NO_x) emissions shall not exceed 0.098 pound per mmBtu.
Carbon monoxide (CO) emissions shall not exceed 0.082 pound per mmBtu.
Volatile organic compounds (VOC) emissions shall not exceed 0.005 pound per mmBtu.

When burning fuel oil:

Particulate emissions (PE) shall not exceed 0.014 pound per mmBtu.
Particulate matter less than 10 microns in diameter (PM10) shall not exceed 0.0071 pound per mmBtu.
Nitrogen oxides (NO_x) emissions shall not exceed 0.14 pound per mmBtu.
Carbon monoxide (CO) emissions shall not exceed 0.036 pound per mmBtu.
Volatile organic compounds (VOC) emissions shall not exceed 0.0014 pound per mmBtu.

Applicable Compliance Method:

The emissions limitations outlined above are based upon the emissions unit's potential to emit (PTE). Compliance with these emissions limitations shall be determined by the emissions factors in AP-42 Fifth Edition, Chapter 1, Tables 1.3-1 & 1.3-3 revised 9/98 for fuel oil combustion, and AP-42, Tables 1.4-1 & 1.4-2 revised 7/98 for natural gas combustion.

Emissions Limitation:

Sulfur dioxide (SO₂) emissions shall not exceed 0.51 pound per mmBtu, when burning No. 2 fuel oil.

Applicable Compliance Method:

When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation shall be determined by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation as set forth in Section B.2 and Section C.1.

Emissions Limitations:

Particulate emissions (PE) shall not exceed 0.63 tons per year (TPY).
Particulate matter less than 10 microns in diameter (PM10) shall not exceed 0.41 tons per year (TPY).

Sulfur dioxide (SO₂) emissions shall not exceed 16.73 tons per year (TPY).
Nitrogen oxides (NO_x) emissions shall not exceed 6.86 tons per year (TPY).
Carbon monoxide (CO) emissions shall not exceed 4.51 tons per year (TPY).
Volatile organic compounds (VOC) emissions shall not exceed 0.59 tons per year (TPY).

Applicable Compliance Method:

Compliance with these emissions limitations shall be determined by the emissions factors in AP-42 Fifth Edition, Chapter 1, Tables 1.3-1 & 1.3-3 revised 9/98 for fuel oil combustion, and AP-42, Tables 1.4-1 & 1.4-2 revised 7/98 for natural gas combustion, and the records of natural gas and No. 2 fuel oil usage required in Section C.2. Emissions Limitation:

Visible particulate emissions from any stack associated with this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. None