

Facility ID: 1431070086 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: 1431070086 Emissions Unit ID: B004 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>
29.6 MMBtu/hr natural gas/ No. 2 fuel oil fired boiler	OAC rule 3745-31-05 (A)(3) (PTI 14-05152)	0.097 lb NOx/MMBtu (when burning gas), 0.14 lb NOx/MMBtu (when burning No. 2 fuel oil), 14.87 TPY NOx*;
		0.081 lb CO/MMBtu (when burning gas), 0.036 lb CO/MMBtu (when burning No. 2 fuel oil), 10.57 TPY CO*;
		0.0017 lb PM-PM10/MMBtu (when burning gas), 0.015 lb PM-PM10/MMBtu (when burning No. 2 fuel oil), 0.85 TPY PM/PM10*;
		0.00068 lb SO2/MMBtu (when burning gas), 0.51 lb SO2/MMBtu (when burning No. 2 fuel oil);
		0.011 lb OC/MMBtu (when burning gas), 0.0041 lb OC/MMBtu (when burning No. 2 fuel oil), 1.38 TPY OC*;
		OAC rule 3745-35-07(B)
	OAC rule 3745-17-07(A)(1)	* Based on a rolling, 12-month summation of the monthly emissions. Visible particulate emissions from the boiler stack shall not exceed 20% 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(D)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of No. 2 fuel oil, No. 2 fuel oil usage limitations and emissions limitations.

B. Operational Restrictions

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit
2. The quality of the No. 2 fuel oil burned in this emissions unit shall have a combination of sulfur content and heat content sufficient to meet the sulfur dioxide emission limitation of 0.51 lb/MMBtu of actual heat input.
3. The maximum annual No. 2 fuel oil usage for this emissions unit shall not exceed 700,000 gallons based upon a rolling, 12-month summation of the No. 2 fuel oil usage figures.

To ensure enforceability during the first 12 calendar months of operation following issuance of this permit, the permittee shall not exceed the No. 2 fuel oil usage limits specified in the following table:

Months	Maximum Allowable	Cumulative
	. Gallons of No. 2 Fuel Oil	
1	58,334	
1-2	116,668	
1-3	175,002	
1-4	233,336	
1-5	291,670	
1-6	350,004	
1-7	408,338	
1-8	466,672	
1-9	525,006	
1-10	583,340	
1-11	641,674	
1-12	700,000	

After the first 12 calendar months of operation following issuance of this permit, compliance with the annual No. 2 fuel oil usage limitation shall be based upon a rolling, 12-month summation of the No. 2 fuel oil usage figures.

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, heat content and the calculated SO₂ emission rate [the SO₂ emission rate shall be calculated as specified in OAC 3745-18-04(F)]. The records shall also include certification from the fuel oil supplier that the oil meets the definition of distillate oil [see 40 CFR 60.49b(r)].

The analyses for sulfur content and heat content shall be performed 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 Hamilton County Department of Environmental Services.

2. The permittee shall maintain monthly records of the quantity of natural gas (in mmft³) used in this emissions unit.
3. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The total No. 2 fuel oil usage for each month; and,
 - b. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the No. 2 fuel oil usage figures.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative No. 2 fuel oil usage for each calendar month.

4. For each day during which the permittee burns a fuel other than natural gas and/or No. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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 content (percent by weight) for the oil received during each calendar month;
- c. the weighted* average heat content (Btu/gallon) of the oil received during each calendar month; and
- d. the weighted* average SO₂ emission rate (lbs/MMBtu of actual heat input) of the oil combusted during each calendar month [the SO₂ emission rate shall be calculated as specified in OAC 3745-18-04(F)].

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

These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall cover the oil shipments received during the previous calendar quarters.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The permittee shall submit annual reports which specify the total NO_x and SO₂, emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
4. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month No. 2 fuel oil usage limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative No.2 fuel oil usage limitation.

5. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the Methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the emission limitations outlined in this permit shall be demonstrated by using the emission factors as outlined in AP-42 Tables 1.3-1 and 1.3-3 for No. 2 fuel oil (9/98) and Tables 1.4-1 and 1.4-2 for natural gas (7/98).
3. Compliance with the sulfur and heat content limitations in term B.2. shall be determined by the fuel oil analysis and recordkeeping in term C.1.
4. Compliance with the No. 2 fuel oil usage limitation in term B.3. will be demonstrated by the recordkeeping in term C.3.

F. Miscellaneous Requirements

1. The terms and conditions in this permit to install shall supersede permit to install 14-616 issued on December 28, 1984.
2. The following terms and conditions of this permit are federally enforceable: A., B., C., D. and E.