

Facility ID: 0857040231 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: 0857040231 Emissions Unit ID: B003 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>	
11.2 mmBtu/hr natural gas and #2 fuel oil-fired boiler (boiler #2)	OAC rule 3745-31-05 PTI 08-2907	The requirements established pursuant to this rule include the requirements of OAC rule 3745-17-10(B) and 3745-17-07	
		0.22 lb of particulate emissions (PE)/hour and 0.96 TPY PE	
		0.20 lb of sulfur dioxide (SO <sub>2</sub> )/ mmBtu of actual heat input (when firing #2 fuel oil)	
		2.24 lb of SO <sub>2</sub> /hour and 9.8 TPY SO <sub>2</sub>	
		1.6 lbs of nitrogen oxides (NO <sub>x</sub> )/hour and 7.01 TPY NO <sub>x</sub>	
		0.92 lb of carbon monoxide (CO)/hour and 4.05 TPY CO	
		0.06 lb of volatile organic compounds (VOC)/hour and 0.3 TPY VOC	
		OAC rule 3745-17-10(B)(1) OAC rule 3745-17-07(A)	0.020 lb of (PE)/mmBtu of actual heat input Opacity shall not exceed 20% as a six-minute average except as provided by rule.
		40 CFR, Part 60, Subpart Dc OAC rule 3745-18-06	See A.2.b. See A.2.c.

**2. Additional Terms and Conditions**

- (a) Should the permittee decide to change fuels on a permanent basis, a permit to install application shall be submitted to the Director of the District Office of local air agencies for review and approval ninety days prior to the change.  
The sulfur content of the fuel oil required by 40 CFR, Part 60, Subpart Dc is less stringent than the sulfur content limit of fuel oil established by the best available technology requirement in OAC rule 3745-31-05.  
The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).

**B. Operational Restrictions**

1. The permittee shall burn only natural gas and/or #2 fuel oil in this emissions unit.
2. The quality of oil burned in this emissions unit shall meet, on an as-received basis, a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.2 lb/mmBtu of actual heat input.

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

1. For each day during which the permittee burns a fuel other than natural gas and/or #2 fuel oil, the permittee shall

maintain a record of the type and quantity of fuel burned in this emissions unit.

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, 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 analyses from the supplier. Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

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 40 CFR Part 60, Appendix A, Method 19, or appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

**D. Reporting Requirements**

1. The permittee shall notify the Director (Ohio EPA District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide limitation specified in Section A.1. The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or #2 fuel was burned in the emissions unit. Each report shall be submitted within 30 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 method(s):  
Emission Limitations -  
0.020lb PE/mmBtu of actual heat input  
0.2 lb SO<sub>2</sub>/mmBtu of actual heat input (when firing #2 fuel oil)

Applicable Compliance Method -

When firing natural gas, the permittee shall determine compliance with the above limits by multiplying the appropriate emission factor from the USEPA AP-42, Table 1.4-2 (revised 7/98) by the maximum hourly natural gas consumption rate, and then dividing by the emissions unit's maximum heat capacity (11.2 mmBtu/hr).

Based on AP-42 5th Edition (revised 7/98), the emissions factors are as follows:

- i. PE (filterable) - 1.9 lbs/mmcu.ft; and
- ii. SO<sub>2</sub> - 0.6 lb/mmcu.ft.

When firing #2 fuel oil, compliance shall be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the appropriate emission factor for #2 fuel oil from AP-42, Chapter 1.3 (revised 9/98), and dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

Based on AP-42, 5th Edition (revised 9/98), the emission factors are as follows:

- i. PE (filterable) - 2.0 lbs/1000 gallons
- ii. SO<sub>2</sub> - 142S\* lb/1000 gallons

\*sulfur content of the fuel oil in % by weight

If required, the permittee shall demonstrate compliance with the above emission limits based upon the following:

- a. PE: Method 1-5, 40 CFR, Part 60, Appendix A; and
- b. SO<sub>2</sub> Method 6, 40 CFR, Part 60, Appendix A.

Emission Limitations -

0.22 lb PE/hr  
2.24 lbs SO<sub>2</sub>/hr  
1.6 lbs NO<sub>x</sub>/hr  
0.92 lbs CO/hr  
0.06 lbs VOC/hr

Applicable Compliance Method -

When firing natural gas, the permittee shall determine compliance with the above limits by multiplying the maximum hourly gas burning capacity of the emissions unit (0.011 mm cubic feet/hr) by the AP-42 chapter 1.4-1 (revised 2/98) emission factor for natural gas.

Based on AP-42, 5th Edition (revised 9/98), the emission factors are as follows:

- i. PE: (filterable) - 1.9 lbs/mmcu.ft;
- ii. SO<sub>2</sub> - 0.6 lb/mmcu.ft;
- iii. NO<sub>x</sub> - 100 lbs/mmcu.ft;
- iv. CO - 84 lbs/mmcu.ft; and
- v. VOC - 5.5 lbs/mmcu.ft.

When firing #2 fuel oil, compliance shall be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the appropriate emission factor for #2 fuel oil from AP-42 Chapter 1.3 (revised 9/98).

Based on AP-42, 5th Edition (revised 9/98), the emissions factors are as follows:

- i. PE (filterable) - 2.0 lbs/1000 gallons;
- ii. SO<sub>2</sub> - 142S\* lbs/1000 gallons;
- iii. NO<sub>x</sub> - 20 lbs/1000 gallons;
- iv. CO - 5 lbs/1000 gallons; and
- v. VOC - 0.34 lbs/1000 gallons.

\*sulfur content of the fuel oil in % by weight

If required, the permittee shall demonstrate compliance with the above emission limits based upon the following:

- a. PE: Method 1-5, 40 CFR, Part 60, Appendix A;
- b. SO<sub>2</sub>: Method 6, 40 CFR, Part 60, Appendix A;
- c. NO<sub>x</sub>: Method 7, 40 CFR, Part 60, Appendix A;
- d. CO: Method 10, 40 CFR, Part 60 Appendix A; and
- e. VOC: Method 18, 40 CFR, Part 60 Appendix A.

When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation of 0.20 lb/mmBtu of actual heat input shall be demonstrated by documenting that the sulfur content of each shipment of oil received or each sample collected during a calendar month meets the limitation.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis or if the sulfur content of each sample collected during a calendar month does not comply with the allowable emission limitation on an "as-burned" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments or samples of oil during the calendar month.

Emissions Limitations-

0.96 TPY PE  
 9.8 TPY SO<sub>2</sub>  
 7.01 TPY NO<sub>x</sub>  
 4.05 TPY CO  
 0.3 TPY VOC

Compliance with the annual limitations shall be assumed as long as compliance with the hourly limitations is maintained (the annual limitations were calculated by multiplying the hourly limitations by 8760, and then dividing by 2,000)

Emission Limitation-

20% opacity, as a six-minute average

Applicable Compliance Method:

Compliance with the above visible emissions limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 (Standards of Performance for New Stationary Sources").

**F. Miscellaneous Requirements**

- 1. None