

Facility ID: 0684010003 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: 0684010003 Emissions Unit ID: B001 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>
B001 - 9.9 MMBtu/hr Thermal Fluid Heater Number 1	OAC rule 3745-31-05(A)(3) PTI # 06-06935	Emissions of sulfur dioxide shall not exceed 0.5 lb/hr and 2.2 TPY. Emissions of nitrogen dioxide shall not exceed 1.5 lbs/hr and 6.6 TPY. Emissions of carbon monoxide shall not exceed 0.9 lb/hr and 4.0 TPY. Emissions of volatile organic compounds shall not exceed 0.2 lb/hr and 0.9 TPY. Particulate emissions shall not exceed 0.2 lb/hr and 0.9 TPY. There shall be no visible particulate emissions from the stack of this emissions unit. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), OAC rule 3745-17-10, OAC rule 3745-23-06 and OAC rule 3745-17-07.
	OAC rule 3745-17-10(C)(1)	See Section A.I.2.a below 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 3745-17-07(A)	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	None
	OAC rule 3745-23-06	See A.2.a None
		See A.2.a
		See A.2.a

2. Additional Terms and Conditions

- (a) The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

1. The permittee shall burn only natural gas, number two fuel oil and/or co-product in this emissions unit.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. The color of the emissions;
 - b. The total duration of any visible emission incident; and
 - c. Any corrective actions taken to eliminate the visible emissions.
 2. For each day during which the permittee burns a fuel other than natural gas number two fuel oil and/or co-product, 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 semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
 2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, number two fuel oil and/or co-product was burned in this 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.I. of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitation

Emissions of sulfur dioxide shall not exceed 0.5 lb/hr

Applicable Compliance Method

Compliance shall be demonstrated using the following equation for potential to emit:

$$E = 7.1 \text{ lbs}/103 \text{ gal} * 71 \text{ gals/hr} = 0.50 \text{ lb/hr}$$
where

7.1 lbs/103 gal is the emission factor for combustion of #2 fuel oil from AP-42 chapter 1.3, table 1.3-1 (9/98).
Emission Limitation

Emissions of sulfur dioxide shall not exceed 2.2 TPY.

Applicable Compliance Method
This emission limitation was developed by multiplying the allowable hourly emission rate (0.50 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitation

Emissions of nitrogen dioxide shall not exceed 1.5 lbs/hr.

Applicable Compliance Method

Compliance shall be demonstrated using the following equation for potential to emit:

$$E = 20 \text{ lbs}/103 \text{ gal} * 71 \text{ gals/hr} = 1.4 \text{ lbs/hr}$$
where

20 lbs/103 gal is the emission factor for combustion of #2 fuel oil from AP-42 chapter 1.3, (9/98).
Emission Limitation

Emissions of nitrogen dioxide shall not exceed 6.6 TPY.

Applicable Compliance Method

Compliance shall be determined by the following equation:
This emission limitation was developed by multiplying the allowable hourly emission rate (1.5 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.
Emissions Limitation

Emissions of carbon monoxide shall not exceed 0.9 lb/hr.

Applicable Compliance Method

Compliance shall be demonstrated using the following equation for potential to emit:

$$E = 84 \text{ lbs}/106 \text{ ft}^3 * 9,900 \text{ ft}^3/\text{hr} = 0.84 \text{ lb}/\text{hr}$$

where

84 lbs/106 ft³ is the emission factor for combustion of natural gas from AP-42 chapter 1.4, table 1.3-1 (7/98).
Emission Limitation

Emissions of carbon monoxide shall not exceed 4.0 TPY.

Applicable Compliance Method

This emission limitation was developed by multiplying the allowable hourly emission rate (0.9 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation

Particulate emissions shall not exceed 0.2 lb/hr.

Applicable Compliance Method

Compliance shall be demonstrated using the following equation for potential to emit:

$$E = (0.92 \text{ lb}/103 \text{ gal} + 1.08 \text{ lbs}/103 \text{ gal}) * 71 \text{ gals}/\text{hr} = 0.14 \text{ lb}/\text{hr}$$

where

0.92 lb/103 gal is the PM > 10 micrometers emission factor for combustion of #2 fuel oil from AP-42 chapter 1.3, (9/98), and

1.08 lbs/103 gal is the PM < 10 micrometers emission factor for combustion of #2 fuel oil from AP-42 chapter 1.3, (9/98).

Emission Limitation

Particulate emissions shall not exceed 0.9 TPY.

Applicable Compliance Method

This emission limitation was developed by multiplying the allowable hourly emission rate (0.2 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation

Emissions of volatile organic compounds shall not exceed 0.2 lb/hr.

Applicable Compliance Method

Compliance shall be demonstrated based on the following calculation of potential to emit

$$E = 78 \text{ gals}/\text{hr} * 7.48 \text{ lbs}/\text{gal} * (1-0.9997) = 0.18 \text{ lb}/\text{hr}$$

Emission Limitation

Emissions of volatile organic compounds shall not exceed 0.9 TPY.

Applicable Compliance Method

This emission limitation was developed by multiplying the allowable hourly emission rate (0.2 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation

Visible particulate emissions from any stack shall not exceed twenty per cent opacity, as a six-minute average, except by rule.

Applicable Compliance Method

Compliance shall be demonstrated based upon the monitoring and record keeping in section C.1. above.

F. Miscellaneous Requirements

- Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.