Facility ID: 1431370699 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: 1431370699 Emissions Unit ID: B004 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
24.5 mmBtu/hr natural gas/no. 2 fuel oil-fired fluid heater	OAC rule 3745-31-05 (PTI 14-3179)	for the burning of natural gas: 0.020 lb of particulate matter (PM)/mmBTU of actual heat input 0.0006 lb of sulfur dioxide (SO2)/mmBTU of actual heat input 0.13 lb of nitrogen oxides (NOx)/mmBtu of actual heat input 0.035 lb of carbon monoxide (CO)/mmBtu of actual heat input 0.0028 lb of organic compounds (OC)/mmBtu of actual heat input for the burning of no. 2 fuel oil: 0.020 lb of PM/mmBtu of actual heat input 0.30 lb of SO2/mmBtu of actual heat input 0.17 lb of NOx/mmBtu of actual heat input 0.035 lb of CO/mmBtu of actual heat input 0.0028 lb of OC/mmBtu of actual heat input See A.2.
	40 CFR, Part 60, Subpart Dc	The PM and SO2 emission limitations established by this rule are less stringent than those established pursuant to OAC rules 3745-17-10 and 3745-31-05, respectively.
	OAC rule 3745-17-07(A)	The visible emission limitation established by this rule is less stringent than that established pursuant to OAC rule 3745-31-05.
	OAC rule 3745-17-10	0.020 lb of PM/mmBTU of actual heat input
	OAC rule 3745-18-06(D)	The SO2 emission limitation established by this rule is less stringent than that established pursuant to OAC rule 3745-31-05.

2. **Additional Terms and Conditions**

   (a) Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity, as a six-minute average, except for one six-minute period per hour of not more than 27% opacity.

B. **Operational Restrictions**

1. The sulfur content of the no. 2 fuel oil in each shipment of oil received shall not exceed 0.3% by weight.

2. The annual no. 2 fuel oil usage shall not exceed 17,700 gallons per year based upon a rolling, 365-day summation.

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

1. 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 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 record the following each day for this emissions unit:

a. the total quantity of no. 2 fuel oil used; and

b. the rolling, 365-day summation of the no. 2 fuel oil usage.

D. **Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record showing an exceedance of the sulfur content restriction for no. 2 fuel oil. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

2. The permittee shall submit deviation (excursion) reports that identify any exceedances of the usage restriction specified in section B.2. of these terms and conditions. These deviation reports shall be submitted in accordance with the requirements specified in the General Terms and Conditions of this permit.

E. **Testing Requirements**

1. Compliance with the emission limitations specified in sections A.1. and A.2.a. and the usage restriction specified in section B of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation -
for the burning of natural gas:
0.020 lb of PM/mmBtu of actual heat input
0.0006 lb of SO2/mmBtu of actual heat input
0.13 lb of NOx/mmBtu of actual heat input
0.035 lb of CO/mmBtu of actual heat input
0.0028 lb of OC/mmBtu of actual heat input

Applicable Compliance Method -
Compliance with the above natural gas combustion emission limitations shall be determined using the emission factors from AP-42, 5th Edition, Chapter 1.4 (Natural Gas Combustion), dated 10/96, or, if required, by stack testing using the following methods:

for PM, USEPA Reference Methods 1 through 5;
for SO2, USEPA Reference Method 6;
for NOx, USEPA Reference Method 7;
for CO, USEPA Reference Method 10; and
for OC, USEPA Reference Method 25.
Emission Limitation -
for the burning of no. 2 fuel oil:
0.020 lb of PM/mmBtu of actual heat input
0.30 lb of SO2/mmBtu of actual heat input
0.17 lb of NOx/mmBtu of actual heat input
0.035 lb of CO/mmBtu of actual heat input
0.0028 lb of OC/mmBtu of actual heat input

Applicable Compliance Method -
Compliance with above the no. 2 fuel oil combustion emission limitations shall be determined using the emission factors from AP-42, 5th Edition, Chapter 1.3 (Fuel Oil Combustion), dated 10/96, or, if required, by stack testing using the following methods:

for PM, USEPA Reference Methods 1 through 5;
for SO2, USEPA Reference Method 6;
for NOx, USEPA Reference Method 7;
for CO, USEPA Reference Method 10; and
for OC, USEPA Reference Method 25.
Emission Limitation -
Visible emissions shall not exceed 20 % opacity, as a six-minute average, except for one six-minute period per hour of not more than 27% opacity.

Applicable Compliance Method -
Compliance with the above visible emission limitation shall be determined by visible emission evaluations performed using the methods and procedures specified in USEPA Reference Method 9.
Emission Limitation -
0.020 lb of PM/mmBtu of actual heat input

Applicable Compliance Method -
Compliance with the above PM emission limitation shall be determined using the emission factors from AP-42, 5th Edition, Chapter 1.3 (Fuel Oil Combustion), dated 10/96, and Chapter 1.4 (Natural Gas Combustion), dated 10/96. If required, the permittee shall determine compliance with the above emission limitation pursuant to OAC rule 3745-17-03(B)(9).
Usage Restriction -
17,700 gallons of no. 2 fuel oil/year based upon a 365-day rolling average

Applicable Compliance Method -
Compliance with the above annual no. 2 fuel oil usage restriction shall be determined by the record keeping in section C.2. of the terms and conditions of this permit.
Content Limitation -
The sulfur content of the no. 2 fuel oil shall not exceed 0.3% by weight.

Applicable Compliance Method -

Compliance with the above content limitation shall be determined by the record keeping in section C.1. of the terms and conditions of this permit.

F. **Miscellaneous Requirements**

1. None