

Facility ID: 1431380503 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: 1431380503 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>
72.6 mmBtu/hr, natural gas/ #2 fuel oil-fired boiler, with low NOx burners	OAC rule 3745-31-05(A)(3) (PTI 14-2900)	Visible particulate emissions (PE) from this emissions unit shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.
	40 CFR, Part 60, Subpart Dc	See A.2. The emission limitations established by this rule are less stringent than those established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	The opacity limitations established by this rule are the same as or less stringent than the opacity limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-10(B)(1)	The PE limitation established by this rule is the same as, or less stringent than, those established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(D)	The sulfur dioxide (SO2) emission limitation established 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) The emission limits, when burning natural gas as fuel, shall not exceed the following:

Pollutant PE/PM10 NOx CO SO2 OC
 TPY 1.59 38.16 63.6 0.19 3.4
 lb/mmBtu 0.005 0.12 0.2 0.0006 0.011

The emission limits, when burning #2 fuel oil, shall not exceed the following:

Pollutant PE/PM10 NOx CO SO2 OC
 TPY 4.81 38.9 45.8 68.7 0.33
 lb/mmBtu 0.02 0.17 0.20 0.30 0.0014

B. Operational Restrictions

1. Annual usage of #2 fuel oil shall not exceed 3,272,000 gallons per year, based upon a rolling, 365-day summation.
2. The sulfur content of the #2 fuel oil used in this emissions unit shall not exceed 0.3%, by weight.
3. The permittee shall operate and maintain a low NOx burner at all times when the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the name of the oil supplier and a statement from the oil supplier that the oil used in this emissions unit complies with the specifications under the definition of distillate oil in 40 CFR 60.41c.
2. The permittee shall maintain records of the oil supplier's analyses for each shipment of oil that is received for

burning in this emissions unit. The oil supplier's analyses shall document the sulfur content (percent by weight) of each shipment of oil and the total quantity of oil received in each shipment (gallons).

3. The permittee shall record and maintain daily records of the following for this emissions unit :

- a. the total amount of #2 fuel oil employed, in gallons; and
- b. the rolling, 365-day summation of the daily #2 fuel oil usage rates, in gallons.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the sulfur content restriction in section B.2 and any exceedance of the rolling, 365-day #2 fuel oil usage limitation of 3,272,000 gallons. 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.

E. Testing Requirements

1. Compliance with the emission limitations in sections A.1 and A.2 and the operational restrictions in section B of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.

Applicable Compliance Method:

Compliance with the visible PE limitation shall be determined using the method specified in OAC 3745-17-03(B) (1).

b. Operational Restrictions:

maximum fuel oil usage of 3,272,000 gallons/yr, as a rolling, 365-day summation, and sulfur content not to exceed 0.3% sulfur by weight

Applicable Compliance Method:

Compliance with these operational restrictions shall be based upon the record keeping performed pursuant to section C of this permit.

c. Emission Limitations

the emission limitations (TPY) in sections A.2.a and A.2.b

Applicable Compliance Methods:

Compliance with these emission limitations may be determined by multiplying the lb/mmBtu emission factors (from AP-42; Table 1.3-1 and 1.4-2, "Compilation of Air Pollutant Emission Factors," Fifth Edition, for #2 fuel oil and natural gas, respectively) by the boiler capacity (72.6 mmBtu/hr), by 8760 hrs/yr, and by one ton/2000 lbs, to obtain TPY.

d. Emission Limit:

0.12 lb/mmBtu of NO_x (natural gas) and 0.17 lb/mmBtu of NO_x (fuel oil)

Applicable Compliance Method:

Compliance shall be based on either emission testing or the use of emission factors specified in USEPA reference document AP-42, Fifth Edition, Chapter 1, External Combustion Sources.

If testing is required to demonstrate compliance with the allowable emission limitation of 0.12 lb/mmBtu of NO_x or 0.17 lb/mmBtu of NO_x, the testing shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 7E

e. Emission Limit:

0.0006 lb/mmBtu of SO₂ (natural gas) and 0.30 lb/mmBtu of SO₂ (fuel oil)

Applicable Compliance Method:

Compliance shall be based on either emission testing or the use of emission factors specified in USEPA reference document AP-42, Fifth Edition, Chapter 1, External Combustion Sources.

If testing is required to demonstrate compliance with the allowable emission limitation of 0.0006 lb/mmBtu of SO₂ or 0.30 lb/mmBtu of SO₂, the testing shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 6

f. Emission Limit:

0.011 lb/mmBtu of OC (natural gas) and 0.0014 lb/mmBtu of OC (fuel oil)

Applicable Compliance Method:

Compliance shall be based on either emission testing or the use of emission factors specified in USEPA reference document AP-42, Fifth Edition, Chapter 1, External Combustion Sources.

If testing is required to demonstrate compliance with the allowable emission limitation of 0.011 lb/mmBtu of OC or 0.0014 lb/mmBtu of OC, the testing shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 25

g. Emission Limitation:

0.2 lb/mmBtu of CO (natural gas) and 0.20 lb/mmBtu of CO (fuel oil)

Applicable Compliance Method:

Compliance shall be based on either emission testing or the use of emission factors specified in USEPA reference document AP-42, Fifth Edition, Chapter 1, External Combustion Sources.

If testing is required to demonstrate compliance with the allowable emission limitation of 0.2 lb/mmBtu of CO or 0.20 lb/mmBtu of CO, the testing shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 10

h. Emission Limits:

0.005 lb/mmBtu of PE/PM10 (natural gas) and 0.02 lb/mmBtu of PE/PM10 (fuel oil)

Applicable Compliance Method:

Compliance shall be based on either emission testing or the use of emission factors specified in USEPA reference document AP-42, Fifth Edition, Chapter 1, External Combustion Sources.

If testing is required to demonstrate compliance with the allowable emission limitation of 0.005 lb/mmBtu of PE or 0.02 lb/mmBtu of PE, the testing shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 5

If testing is required to demonstrate compliance with the allowable emission limitation of 0.005 lb/mmBtu of PM10 or 0.02 lb/mmBtu of PM10, the testing shall be conducted using the following method:

40 CFR, Part 51, Appendix M, Method 201

F. **Miscellaneous Requirements**

1. None