

Facility ID: 1431091728 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.

[Go to Part II for Emissions Unit B004](#)
[Go to Part II for Emissions Unit B005](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431091728 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>
19.9 mmBtu natural gas/#2 fuel oil-fired boiler No. 4	OAC rule 3745-31-05 (PTI 14-3582)	Natural Gas: PM/PM10: 0.006 lb/mmBtu SO2: 0.0006 lb/mmBtu NOx: 0.14 lb/mmBtu CO: 0.0035 lb/mmBtu VOC: 0.0058 lb/mmBtu #2 Fuel Oil: PM/PM10: 0.015 lb/mmBtu SO2: 0.31 lb/mmBtu NOx: 0.14 lb/mmBtu CO: 0.036 lb/mmBtu VOC: 0.0014 lb/mmBtu Total combined emissions, in tons per year (TPY): PM/PM10: 0.61 TPY SO2: 1.43 TPY NOx: 12.91 TPY CO: 3.23 TPY VOC: 0.52 TPY See section A.2.b below.
	40 CFR, Part 60, Subpart Dc and OAC rule 3745-18-06	Less stringent than the SO2 limit established pursuant to OAC rule 3745-31-05 for #2 fuel oil.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Less stringent than the limit established pursuant to OAC rule 3745-31-05.
	OAC rule 3745-23-06	Less stringent than the NOx limit established pursuant to OAC rule 3745-31-05.

2. Additional Terms and Conditions

- (a) The sulfur content of the oil burned in this unit shall be less than 0.3% sulfur by weight on an as-received basis.
The lb/mmBtu emission limitations are based on the unit's potential to emit. Therefore, no short term records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The #2 fuel oil usage for this emissions unit shall not exceed 32,400 gallons per year.
2. The oil burned in this emissions unit shall have a heat content greater than 138,000 Btu/gallon of oil.

3. The permittee shall burn only natural gas and/or #2 fuel oil in this emissions unit.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall maintain daily records that list the amount and type of fuel burned.
 2. The permittee shall maintain copies of the oil supplier's analyses for each shipment of oil that is received for burning in this unit and documentation of the total quantity of oil received in each shipment, in gallons. The oil supplier's analyses shall document the sulfur content (percent by weight), the heat content (Btu/gallon) of each shipment of oil, and a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.14c. The following information shall also be included with the copies of the oil supplier's analyses:
 3. 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.
- D. Reporting Requirements**
1. The permittee shall submit deviation (excursion) reports to the Hamilton County Department of Environmental Services that identify the following information:
 - a. each shipment of oil to be burned in this emissions unit that contained a sulfur content in excess of 0.3% by weight;
 - b. each shipment of oil to be burned in this emissions unit that contained a heat content less than 138,000 Btu/gallon of oil; and
 - c. each day when a fuel other than natural gas and/or #2 fuel oil was burned in this emissions unit.

Each report shall be submitted within 30 days after the deviation occurs.
 2. The permittee shall submit annual reports that indicate the total number of gallons of #2 fuel oil burned in this emissions unit during each calendar year. Each report shall be submitted by January 31 for the preceding calendar year.
- E. Testing Requirements**
1. Compliance with the emission limitations for PM/PM10, SO₂, NO_x, CO, and VOC in Section A.1 shall be determined by the emission factors specified in AP-42, Tables 1.3-1, -2, and -3 (revised 9/98) for #2 fuel oil and AP-42, Tables 1.4-1, -2, and -3 (revised 3/98) for natural gas, and by the monitoring and record keeping requirements in Section C.
 2. Compliance with OAC rule 3745-17-07(A)(1) shall be determined by the method specified in OAC rule 3745-17-03 (B)(1).
 3. Compliance with the sulfur content and heat content limitations for the oil burned in this emissions unit shall be determined by the monitoring and record keeping requirements in Section C.
 4. Compliance with the annual usage restriction for #2 fuel oil shall be determined by the monitoring and record keeping requirements in Section C.
- F. Miscellaneous Requirements**
1. None

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Facility ID: 1431091728 Emissions Unit ID: B005 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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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>
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19.9 mmBtu natural gas/#2 fuel oil-fired boiler No. 5

OAC rule 3745-31-05 (PTI 14-3582)

Natural Gas:
PM/PM10: 0.006 lb/mmBtu
SO2: 0.0006 lb/mmBtu
NOx: 0.14 lb/mmBtu
CO: 0.0035 lb/mmBtu
VOC: 0.0058 lb/mmBtu

#2 Fuel Oil:
PM/PM10: 0.015 lb/mmBtu
SO2: 0.31 lb/mmBtu
NOx: 0.14 lb/mmBtu
CO: 0.036 lb/mmBtu
VOC: 0.0014 lb/mmBtu

Total combined emissions, in tons per year (TPY):

PM/PM10: 0.61 TPY
SO2: 1.43 TPY
NOx: 12.91 TPY
CO: 3.23 TPY
VOC: 0.52 TPY

See section A.2.b below.

40 CFR, Part 60, Subpart Dc and OAC rule 3745-18-06
OAC rule 3745-17-07(A)(1)

Less stringent than the SO2 limit established pursuant to OAC rule 3745-31-05 for #2 fuel oil.
Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

OAC rule 3745-17-10(B)(1)

Less stringent than the limit established pursuant to OAC rule 3745-31-05.

OAC rule 3745-23-06

Less stringent than the NOx limit established pursuant to OAC rule 3745-31-05.

2. Additional Terms and Conditions

- (a) The sulfur content of the oil burned in this unit shall be less than 0.3% sulfur by weight on an as-received basis.
The lb/mmBtu emission limitations are based on the unit's potential to emit. Therefore, no short term records are required to demonstrate compliance with these limits.

B. Operational Restrictions

- 1. The #2 fuel oil usage for this emissions unit shall not exceed 32,400 gallons per year.
- 2. The oil burned in this emissions unit shall have a heat content greater than 138,000 Btu/gallon of oil.
- 3. The permittee shall burn only natural gas and/or #2 fuel oil in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain daily records that list the amount and type of fuel burned.
- 2. The permittee shall maintain copies of the oil supplier's analyses for each shipment of oil that is received for burning in this unit and documentation of the total quantity of oil received in each shipment, in gallons. The oil supplier's analyses shall document the sulfur content (percent by weight), the heat content (Btu/gallon) of each shipment of oil, and a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.14c. The following information shall also be included with the copies of the oil supplier's analyses:
- 3. 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.

D. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports to the Hamilton County Department of Environmental Services that identify the following information:
 - a. each shipment of oil to be burned in this emissions unit that contained a sulfur content in excess of 0.3% by weight;
 - b. each shipment of oil to be burned in this emissions unit that contained a heat content less than 138,000 Btu/gallon of oil; and
 - c. each day when a fuel other than natural gas and/or #2 fuel oil was burned in this emissions unit.

Each report shall be submitted within 30 days after the deviation occurs.
- 2. The permittee shall submit annual reports that indicate the total number of gallons of #2 fuel oil burned in this emissions unit during each calendar year. Each report shall be submitted by January 31 for the preceding calendar year.

E. Testing Requirements

- 1. Compliance with the emission limitations for PM/PM10, SO2, NOx, CO, and VOC in Section A.1 shall be determined by the emission factors specified in AP-42, Tables 1.3-1, -2, and -3 (revised 9/98) for #2 fuel oil and AP-42, Tables 1.4-1, -2, and -3 (revised 3/98) for natural gas, and by the monitoring and record keeping

requirements in Section C.

2. Compliance with OAC rule 3745-17-07(A)(1) shall be determined by the method specified in OAC rule 3745-17-03 (B)(1).
 3. Compliance with the sulfur content and heat content limitations for the oil burned in this emissions unit shall be determined by the monitoring and record keeping requirements in Section C.
 4. Compliance with the annual usage restriction for #2 fuel oil shall be determined by the monitoring and record keeping requirements in Section C.
- F. **Miscellaneous Requirements**
1. None