

Facility ID: 1576010407 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.

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

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Facility ID: 1576010407 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>
54.1 MMBtu/hr, natural gas/number two oil-fired boiler; Boiler #2	OAC rule 3745-18-06 (D)	1.6 lbs SO2/MMBtu actual heat input
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu actual heat input
	40 CFR 52.1881(b)(27)(i)	2.63 lbs SO2/MMBtu actual heat input
	OAC rule 3745-18-06(D)	The emission limit in this rule is less stringent than OAC rule 3745-18-06(D).
	OAC rule 3745-35-07	The annual sulfur dioxide emissions from B003 and B004, combined, shall not exceed 80 tons/year, based upon a rolling, 12-month summation of the monthly emissions.
		The annual nitrogen oxides emissions from B003 and B004, combined, shall not exceed 60 tons/year, based upon a rolling, 12-month summation of the monthly emissions.

2. **Additional Terms and Conditions**
  - (a) None

**B. Operational Restrictions**

1. For the purpose of demonstrating compliance during the first 12 calendar months covered by this permit, the rolling, 12-month SO2/NOx emissions shall be calculated based upon the SO2/NOx emissions from emissions units B003 and B004 during the 12-month period prior to issuance of this permit.
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 limitation of 1.6 lbs SO2/MMBtu actual heat input.
 

Compliance with this specification shall be determined using the analytical results provided by the permittee or oil supplier for each shipment of oil.

**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 B003 and/or B004. The permittee shall perform or require the supplier to perform an analysis 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 from the Canton local air agency.

2. For each shipment of oil received for burning in B003 and B004, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analysis for sulfur content and heat content. The permittee shall also maintain the following records for B003 and B004 for each calendar month:
    - a. the total quantity of fuel oil received (gallons);
    - b. the SO<sub>2</sub> emission rate (lbs SO<sub>2</sub>/MMBtu) for the fuel received in each shipment; and
    - c. the volume-weighted average SO<sub>2</sub> emission rate (lbs SO<sub>2</sub>/MMBtu) for all the oil received during the calendar month.
  3. The permittee shall maintain monthly records of the following information:
    - a. the total fuel oil consumption rate for B003 and B004;
    - b. the total natural gas consumption rate for B003 and B004;
    - c. the calculated nitrogen oxides emissions for B003 and B004;
    - d. the rolling, 12-month summation of the nitrogen oxides emissions for B003 and B004;
    - e. the calculated sulfur dioxide emissions for B003 and B004; and
    - f. the rolling, 12-month summation of the sulfur dioxide emissions for B003 and B004.
- D. Reporting Requirements**
1. The permittee shall submit deviation (excursion) reports which identify the following:
    - a. all exceedances of the rolling, 12-month emission limitations for sulfur dioxide and nitrogen oxides; and
    - b. all exceedances of the 1.6 lbs SO<sub>2</sub>/MMBtu allowable emission rate.
  2. The permittee shall also submit annual reports which specify the total fuel consumption (natural gas and oil) and the total SO<sub>2</sub> and NO<sub>x</sub> emissions for B003 and B004. These reports shall be submitted by January 31 of each year.
- E. Testing Requirements**
1. Compliance with the emission limitations found in section A.1 of these terms and conditions shall be maintained using the following method(s):
 

Emission Limitation:  
1.6 lbs SO<sub>2</sub> / MMBtu

Applicable Compliance Method:  
Compliance shall be determined by the record keeping requirements in section C.2.

Emission Limitation:  
0.020 lb PE/MMBtu

Applicable Compliance Method:  
For Natural Gas Usage  
Compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (54,100 CF/hr) by the AP-42 emission factor for natural gas combustion (1.9 lbs/MMCF), and dividing by the maximum hourly heat input capacity of the emissions unit (54.1 MMBtu/hr).

For Fuel Oil Usage  
Compliance shall be determined by multiplying the maximum fuel oil capacity of the emissions unit (460 gal/hr) by the AP-42 emission factor for No. 2 fuel oil combustion (2 lbs/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (54.1 MMBtu/hr).

If required, the permittee shall demonstrate compliance with this limitation in accordance with the method(s) and procedures specified in OAC rule 3745-17-03(B)(9).

Emission Limitation:  
Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:  
Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

Emission Limitation:  
The NO<sub>x</sub> emissions from B003 and B004 shall not exceed 60 tons per rolling, 12-month period.

Applicable Compliance Method:  
Compliance shall be based upon the record keeping in section C.3, calculating the emissions for each calendar month in accordance with the following:

For Emissions From Natural Gas Usage  
Multiply the actual natural gas consumption (MMCF) by the AP-42 (revised as of February, 1998) emission factor (100 lbs/MMCF) and divide by 2000 lbs/ton.

For Emissions From Fuel Oil Usage  
Multiply the actual oil consumption (gallons) by the AP-42 emission factor (20 lbs/1000 gallons) and divide by 2000 lbs/ton.

The total NO<sub>x</sub> emissions for the calendar month equals the sum of the emissions from natural gas and the emissions from fuel oil.

Emission Limitation:  
The SO<sub>2</sub> emissions for B003 and B004 shall not exceed 80 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be based upon the record keeping in section C.3, calculating the emissions for each calendar month in accordance with the following:

Multiply the actual volume-weighted average SO<sub>2</sub> emissions rate for the calendar month (lbs/MMBtu from section C.2) by the volume of oil burned (gallons) and the volume-weighted average heat content of the oil (Btu/gallon), and divide by 2,000 lbs/ton.

The SO<sub>2</sub> emissions from the combustion of natural gas are assumed to be negligible.

**F. Miscellaneous Requirements**

1. Sections A, B, C, D, E and F of these terms and conditions constitute the federally enforceable portions of this permit.

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Facility ID: 1576010407 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>
54.1 MMBtu/hr, natural gas/number two oil-fired boiler; Boiler #1	OAC rule 3745-18-06 (D)	1.6 lbs SO <sub>2</sub> /MMBtu actual heat input
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu actual heat input
	40 CFR 52.1881(b)(27)(i)	2.63 lbs SO <sub>2</sub> /MMBtu actual heat input
	OAC rule 3745-18-06(D).	The emission limit in this rule is less stringent than OAC rule 3745-18-06(D).
	OAC rule 3745-35-07	The annual sulfur dioxide emissions from B003 and B004, combined, shall not exceed 80 tons/year, based upon a rolling, 12-month summation of the monthly emissions.
		The annual nitrogen oxides emissions from B003 and B004, combined, shall not exceed 60 tons/year, based upon a rolling, 12-month summation of the monthly emissions.

2. **Additional Terms and Conditions**
  - (a) None

**B. Operational Restrictions**

1. For the purpose of demonstrating compliance during the first 12 calendar months covered by this permit, the rolling, 12-month SO<sub>2</sub>/NO<sub>x</sub> emissions shall be calculated based upon the SO<sub>2</sub>/NO<sub>x</sub> emissions from emissions units B003 and B004 during the 12-month period prior to issuance of this permit.
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 limitation of 1.6 lbs SO<sub>2</sub>/MMBtu actual heat input.

Compliance with this specification shall be determined using the analytical results provided by the permittee or

oil supplier for each shipment of oil.

**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 B003 and/or B004. The permittee shall perform or require the supplier to perform an analysis 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 from the Canton local air agency.
2. For each shipment of oil received for burning in B003 and B004, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analysis for sulfur content and heat content. The permittee shall maintain the following records for B003 and B004 for each calendar month:
  - a. the total quantity of fuel oil received (gallons);
  - b. the SO<sub>2</sub> emission rate (lbs SO<sub>2</sub>/MMBtu) for the fuel received in each shipment; and
  - c. the volume-weighted average SO<sub>2</sub> emission rate (lbs SO<sub>2</sub>/MMBtu) for all the oil received during the calendar month.
3. The permittee shall maintain monthly records of the following information:
  - a. the total fuel oil consumption rate for B003 and B004;
  - b. the total natural gas consumption rate for B003 and B004;
  - c. the calculated nitrogen oxides emissions for B003 and B004;
  - d. the rolling, 12-month summation of the nitrogen oxides emissions for B003 and B004;
  - e. the calculated sulfur dioxide emissions for B003 and B004; and
  - f. the rolling, 12-month summation of the sulfur dioxide emissions for B003 and B004.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. all exceedances of the rolling, 12-month emission limitations for sulfur dioxide and nitrogen oxides; and
  - b. all exceedances of the 1.6 lbs SO<sub>2</sub>/MMBtu allowable emission rate.
2. The permittee shall also submit annual reports which specify the total fuel consumption (natural gas and oil) and the total SO<sub>2</sub> and NO<sub>x</sub> emissions for B003 and B004. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. Compliance with the emission limitations found in section A.1 of these terms and conditions shall be maintained using the following method(s):
 

Emission Limitation:  
1.6 lbs SO<sub>2</sub> / MMBtu

Applicable Compliance Method:  
Compliance shall be determined by the record keeping requirements in section C.2.

Emission Limitation:  
0.020 lb PE/MMBtu

Applicable Compliance Method:

**For Natural Gas Usage**  
Compliance shall be determined by multiplying the maximum hourly gas-burning capacity of the emissions unit (54,100 CF/hr) by the AP-42 emission factor for natural gas combustion (1.9 lbs/MMCF), and dividing by the maximum hourly heat input capacity of the emissions unit (54.1 MMBtu/hr).

**Fuel Oil Usage**  
Compliance shall be determined by multiplying the maximum fuel oil capacity of the emissions unit (460 gal/hr) by the AP-42 emission factor for No. 2 fuel oil combustion (2 lbs/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (54.1 MMBtu/hr).

If required, the permittee shall demonstrate compliance with this limitation in accordance with the method(s) and procedures specified in OAC rule 3745-17-03(B)(9).

Emission Limitation:  
Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:  
Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

Emission Limitation:  
The NO<sub>x</sub> emissions from B003 and B004 shall not exceed 60 tons per rolling, 12-month period.

Applicable Compliance Method:  
Compliance shall be based upon the record keeping in section C.3, calculating the emissions for each calendar month in accordance with the following:

For Emissions From Natural Gas Usage

Multiply the actual natural gas consumption (MMCF) by the AP-42 (revised as of February, 1998) emission factor (100 lbs/MMCF) and divide by 2000 lbs/ton.

**For Emissions From Fuel Oil Usage**

Multiply the actual oil consumption (gallons) by the AP-42 emission factor (20 lbs/1000 gallons) and divide by 2000 lbs/ton.

The total NOx emissions for the calendar month equals the sum of the emissions from natural gas and the emissions from fuel oil.

**Emission Limitation:**

The SO2 emissions for B003 and B004 shall not exceed 80 tons per rolling, 12-month period.

**Applicable Compliance Method:**

Compliance shall be based upon the record keeping in section C.3, calculating the emissions for each calendar month in accordance with the following:

Multiply the actual volume-weighted average SO2 emissions rate for the calendar month (lbs/MMBtu from section C.2) by the volume of oil burned (gallons) and the volume-weighted average heat content, and divide by 2,000 lbs/ton.

The SO2 emissions from the combustion of natural gas are assumed to be negligible.

**F. Miscellaneous Requirements**

1. Sections A, B, C, D, E and F of these terms and conditions constitute the federally enforceable portions of this permit.