

Facility ID: 0125040319 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 B003](#)  
[Go to Part II for Emissions Unit B004](#)  
[Go to Part II for Emissions Unit B005](#)

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Facility ID: 0125040319 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>
Natural gas and fuel oil-fired Murray boiler (115 MMBtu/hr)	OAC Rule 3745-17-07(A)(1)	Visible particulate emissions (PE) shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC Rule 3745-17-10(B)(1)	PE shall not exceed 0.020 lb/MMBTU of actual heat input.
	40 CFR Part 52.1881(b)27(ii)	Sulfur dioxide (SO2) emissions shall not exceed 1.5 lbs/MMBTU of actual heat input.
	OAC Rule 3745-35-07	SO2 emissions from B003, B004 and B005 shall not exceed 99 tons per rolling, 12-month period;
		Nitrogen oxide (NOx) emissions from B003, B004 and B005 shall not exceed 95 tons per rolling, 12-month period.
	OAC Rule 3745-18-06(D)	See section B.1 - 3. The emission limitation in this rule is less stringent than 40 CFR Part 52.1881(b)27(ii).

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

**B. Operational Restrictions**

1. The maximum fuel oil usage shall not exceed either 2,000,000 gallons (containing a sulfur content of 0.5% by weight or less) or 5,500,000 gallons (containing a sulfur content of 0.05% by weight or less), based upon a rolling, 12-month summation of the consumption rates from B003, B004 and B005.
2. For the purpose of demonstrating compliance, the rolling, 12-month natural gas/fuel oil usages, in gallons, and SO2/NOx emissions, in tons, shall be calculated based upon the actual fuel (oil/natural gas) usages and SO2/NOx emissions from this source during the preceding 12-month period.
3. The quality of oil burned in B003 shall meet, on an as-received basis, a sulfur content which is sufficient to comply with the allowable SO2 emission limitation of 1.5 lbs of 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, B004 and B005. 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 Ohio EPA Central District Office(CDO).

2. For each shipment of oil received for burning in B003, B004 and B005, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content. The facility shall maintain the following records:
  - a. the total quantity of fuel oil received in each shipment (gallons);
  - b. the sulfur content (percent) of the oil received in each shipment;
  - c. the heat content (Btu/gallon) of the oil received in each shipment;
  - d. the SO<sub>2</sub> emission rate (pounds SO<sub>2</sub> per million Btu actual heat input) for the fuel oil received in each shipment; and
  - e. monthly calculations of the weighted average sulfur content, heat content, and SO<sub>2</sub> emission rate for the oil received during each calendar month, and the total gallons of fuel oil burned in this boiler during the month.
3. The permittee shall maintain daily records of the following information:
  - a. The fuel oil (containing a sulfur content of 0.5% by weight or less) consumption rate for B003, B004 and B005.
  - b. The rolling, 365-day summation of the consumption rates for fuel oil (containing a sulfur content of 0.5% by weight or less) for B003, B004 and B005.
  - c. The fuel oil (containing a sulfur content of 0.05% by weight or less) consumption rate for B003, B004 and B005.
  - d. The rolling, 12-month summation of the consumption rates for fuel oil (containing a sulfur content of 0.05% by weight or less) for B003, B004 and B005.
  - e. The natural gas consumption rate for B003, B004 and B005.
  - f. The rolling, 12-month summation of the consumption rates for natural gas for B003, B004 and B005.
  - g. The calculated NO<sub>x</sub> emissions for B003, B004 and B005.
  - h. The rolling, 12-month summation of NO<sub>x</sub> emissions for B003, B004 and B005.

**D. Reporting Requirements**

1. In accordance with the General Terms and Conditions of this permit, the permittee shall submit quarterly deviation (excursion) reports that identify any exceedances of the following:
  - a. the rolling, 12-month fuel oil consumption restriction listed in section B.1, and determined by record keeping in section C.3.b - c;
  - b. the rolling, 12-month SO<sub>2</sub> emission limitation listed in section A.1, as determined by the record keeping in section C.3.d - e;
  - c. the rolling, 12-month NO<sub>x</sub> emission limitation listed in section A.1, as determined by the record keeping in section C.3.h; and
  - d. exceedance reports shall include the date of the exceedance, the type and quantity of each exceedance, as well as any corrective actions that were taken to return to compliance.

If no exceedances occurred, then the report shall state that no exceedances occurred during the preceding 3-month period.
2. The facility shall submit annual reports to the Ohio EPA, which at a minimum specify the total fuel consumption (natural gas and oil), and the SO<sub>2</sub> and NO<sub>x</sub> emissions for B003, B004 and B005, for the previous calendar year (January 1 through December 31). The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

**E. Testing Requirements**

1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:  
PE shall not exceed 0.020 pound per million Btu (MMBtu) of actual heat input.

Applicable Compliance Method:  
For the use of natural gas, compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (112,745 ft<sup>3</sup>/hr) by the AP-42 (Fifth Edition) emission factor for natural gas combustion (5 lbs/MMft<sup>3</sup>), and dividing by the maximum hourly heat input capacity of the emissions unit (115 MMBtu/hr). For the use of number two fuel oil, compliance shall be determined by multiplying the maximum fuel oil capacity of the emissions unit (833 gal/hr) by the AP-42 emission factor for number two fuel oil combustion (2 lb/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (115 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:  
SO<sub>2</sub> emissions shall not exceed 1.5 pounds per million Btu of actual heat input.

Applicable Compliance Method:  
Compliance shall be determined by the recordkeeping requirements in Section C.2.

Emission limitation:  
SO<sub>2</sub> emissions shall not exceed 99 tons per rolling, 12-month period from B003, B004 and B005;

Applicable Compliance Method:

Oil usage restriction in B.1 and associated record keeping and reporting requirements.  
Sulfur dioxide emissions shall be calculated by taking the actual volume-weighted average sulfur content of the fuel oil (in weight percent) and multiplying it by the fuel density (lbs/gallon), volume of oil used (gallons/year), and the molecular weight ratio of SO<sub>2</sub> to S (2:1), and dividing by 2,000 lbs/ton to get sulfur dioxide emissions in tons/year.

Emission limitation:

NOx emissions shall not exceed 95 tons per rolling, 12-month period from B003, B004 and B005.

Applicable Compliance Method for B003:

Multiply the actual natural gas consumption (MMft<sup>3</sup>) with the AP-42 (revised as of February, 1998) emission factor (280 lbs/MMft<sup>3</sup>) and divide by 2000 lbs/ton to get NOx emissions in tons/year.

Applicable Compliance Method for B004 and B005:

Multiply the actual natural gas consumption (MMft<sup>3</sup>) with an emission factor (based on test data) of 100 lbs/MMft<sup>3</sup> and divide by 2000 lbs/ton to get NOx emissions in tons/year.

Applicable Compliance Method for B003, B004 and B005 for fuel oil fired NOx emissions:

Multiply the actual oil consumption (gallons/year) with the AP-42 emission factor (20 lbs/1000 gallons) and divide by 2000 lbs/ton to get NOx emissions in tons/year.

Compliance with the 95 tons per 365-day rolling period shall be determined by adding the NOx emissions for B003, B004 and B005.

Emission Limitation:

Visible PE shall not exceed 20% opacity as a 6-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).

**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: 0125040319 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>
Natural gas and fuel oil-fired Nebraska boiler (98 MMBtu/hr)	OAC Rule 3745-17-07(A)(1)	Visible particulate emissions (PE) shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC Rule 3745-17-10(B)(1)	PE shall not exceed 0.020 lb/MMBTU of actual heat input.
	40 CFR Part 52.1881(b)27(ii)	Sulfur dioxide (SO <sub>2</sub> ) emissions shall not exceed 1.5 lbs/MMBtu of actual heat input.
	OAC Rule 3745-35-07	SO <sub>2</sub> emissions from B003, B004 and B005 shall not exceed 99 tons per rolling, 12-month period;
		Nitrogen oxide (NO <sub>x</sub> ) emissions from B003, B004 and B005 shall not exceed 95 tons per rolling, 12-month period.

OAC Rule 3745-18-06(D)

See section B.1 - 3.

The emission limitation in this rule is less stringent than 40 CFR Part 52.1881(b)27(ii).

**2. Additional Terms and Conditions**

(a) None

**B. Operational Restrictions**

1. The maximum fuel oil usage shall not exceed either 2,000,000 gallons (containing a sulfur content of 0.5% by weight or less) or 5,500,000 gallons (containing a sulfur content of 0.05% by weight or less), based upon a rolling, 12-month summation of the consumption rates from B003, B004 and B005.
2. For the purpose of demonstrating compliance, the rolling, 12-month natural gas/fuel oil usages, in gallons, and SO<sub>2</sub>/NO<sub>x</sub> emissions, in tons, shall be calculated based upon the actual fuel (oil/natural gas) usages and SO<sub>2</sub>/NO<sub>x</sub> emissions from this source during the preceding 12-month period.
3. The quality of oil burned in B003 shall meet, on an as-received basis, a sulfur content which is sufficient to comply with the allowable SO<sub>2</sub> emission limitation of 1.5 lbs of 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, B004 and B005. 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 Ohio EPA Central District Office(CDO).
2. For each shipment of oil received for burning in B003, B004 and B005, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content. The facility shall maintain the following records:
  - a. the total quantity of fuel oil received in each shipment (gallons);
  - b. the sulfur content (percent) of the oil received in each shipment;
  - c. the heat content (Btu/gallon) of the oil received in each shipment;
  - d. the SO<sub>2</sub> emission rate (pounds SO<sub>2</sub> per million Btu actual heat input) for the fuel oil received in each shipment; and
  - e. monthly calculations of the weighted average sulfur content, heat content, and SO<sub>2</sub> emission rate for the oil received during each calendar month, and the total gallons of fuel oil burned in this boiler during the month.
3. The permittee shall maintain daily records of the following information:
  - a. The fuel oil (containing a sulfur content of 0.5% by weight or less) consumption rate for B003, B004 and B005.
  - b. The rolling, 365-day summation of the consumption rates for fuel oil (containing a sulfur content of 0.5% by weight or less) for B003, B004 and B005.
  - c. The fuel oil (containing a sulfur content of 0.05% by weight or less) consumption rate for B003, B004 and B005.
  - d. The rolling, 12-month summation of the consumption rates for fuel oil (containing a sulfur content of 0.05% by weight or less) for B003, B004 and B005.
  - e. The natural gas consumption rate for B003, B004 and B005.
  - f. The rolling, 12-month summation of the consumption rates for natural gas for B003, B004 and B005.
  - g. The calculated NO<sub>x</sub> emissions for B003, B004 and B005.
  - h. The rolling, 12-month summation of NO<sub>x</sub> emissions for B003, B004 and B005.

**D. Reporting Requirements**

1. In accordance with the General Terms and Conditions of this permit, the permittee shall submit quarterly deviation (excursion) reports that identify any exceedances of the following:
  - a. the rolling, 12-month fuel oil consumption restriction listed in section B.1, and determined by record keeping in section C.3.b - c;
  - b. the rolling, 12-month SO<sub>2</sub> emission limitation listed in section A.1, as determined by the record keeping in section C.3.d - e;
  - c. the rolling, 12-month NO<sub>x</sub> emission limitation listed in section A.1, as determined by the record keeping in section C.3.h; and
  - d. exceedance reports shall include the date of the exceedance, the type and quantity of each exceedance, as well as any corrective actions that were taken to return to compliance.

If no exceedances occurred, then the report shall state that no exceedances occurred during the preceding 3-

month period.

2. The facility shall submit annual reports to the Ohio EPA, which at a minimum specify the total fuel consumption (natural gas and oil), and the SO<sub>2</sub> and NO<sub>x</sub> emissions for B003, B004 and B005, for the previous calendar year (January 1 through December 31). The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

**E. Testing Requirements**

1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:

PE shall not exceed 0.020 pound per million Btu (MMBtu) of actual heat input.

Applicable Compliance Method:

For the use of natural gas, compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (112,745 ft<sup>3</sup>/hr) by the AP-42 (Fifth Edition) emission factor for natural gas combustion (5 lbs/MMft<sup>3</sup>), and dividing by the maximum hourly heat input capacity of the emissions unit (115 MMBtu/hr). For the use of number two fuel oil, compliance shall be determined by multiplying the maximum fuel oil capacity of the emissions unit (833 gal/hr) by the AP-42 emission factor for number two fuel oil combustion (2 lb/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (115 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:

SO<sub>2</sub> emissions shall not exceed 1.5 pounds per million Btu of actual heat input.

Applicable Compliance Method:

Compliance shall be determined by the recordkeeping requirements in Section C.2.

Emission limitation:

SO<sub>2</sub> emissions shall not exceed 99 tons per rolling, 12-month period from B003, B004 and B005;

Applicable Compliance Method:

Oil usage restriction in B.1 and associated record keeping and reporting requirements.

Sulfur dioxide emissions shall be calculated by taking the actual volume-weighted average sulfur content of the fuel oil (in weight percent) and multiplying it by the fuel density (lbs/gallon), volume of oil used (gallons/year), and the molecular weight ratio of SO<sub>2</sub> to S (2:1), and dividing by 2,000 lbs/ton to get sulfur dioxide emissions in tons/year.

Emission limitation:

NO<sub>x</sub> emissions shall not exceed 95 tons per rolling, 12-month period from B003, B004 and B005.

Applicable Compliance Method for B003:

Multiply the actual natural gas consumption (MMft<sup>3</sup>) with the AP-42 (revised as of February, 1998) emission factor (280 lbs/MMft<sup>3</sup>) and divide by 2000 lbs/ton to get NO<sub>x</sub> emissions in tons/year.

Applicable Compliance Method for B004 and B005:

Multiply the actual natural gas consumption (MMft<sup>3</sup>) with an emission factor (based on test data) of 100 lbs/MMft<sup>3</sup> and divide by 2000 lbs/ton to get NO<sub>x</sub> emissions in tons/year.

Applicable Compliance Method for B003, B004 and B005 for fuel oil fired NO<sub>x</sub> emissions:

Multiply the actual oil consumption (gallons/year) with the AP-42 emission factor (20 lbs/1000 gallons) and divide by 2000 lbs/ton to get NO<sub>x</sub> emissions in tons/year.

Compliance with the 95 tons per 365-day rolling period shall be determined by adding the NO<sub>x</sub> emissions for B003, B004 and B005.

Emission Limitation:

Visible PE shall not exceed 20% opacity as a 6-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).

**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: 0125040319 Emissions Unit ID: B005 Issuance type: Final State Permit To Operate**

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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>
Natural gas and fuel oil-fired Nebraska boiler (98 MMBtu/hr)	OAC Rule 3745-17-07(A)(1)	Visible particulate emissions (PE) shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC Rule 3745-17-10(B)(1)	PE shall not exceed 0.020 lb/MMBTU of actual heat input.
	40 CFR Part 52.1881(b)27(ii)	Sulfur dioxide (SO <sub>2</sub> ) emissions shall not exceed 1.5 lbs/MMBtu of actual heat input.
	OAC Rule 3745-35-07	SO <sub>2</sub> emissions from B003, B004 and B005 shall not exceed 99 tons per rolling, 12-month period;
		Nitrogen oxide (NO <sub>x</sub> ) emissions from B003, B004 and B005 shall not exceed 95 tons per rolling, 12-month period.
	OAC Rule 3745-18-06(D)	See section B.1 - 3. The emission limitation in this rule is less stringent than 40 CFR Part 52.1881(b)27(ii).

**2. Additional Terms and Conditions**

- (a) None

**B. Operational Restrictions**

- 1. The maximum fuel oil usage shall not exceed either 2,000,000 gallons (containing a sulfur content of 0.5% by weight or less) or 5,500,000 gallons (containing a sulfur content of 0.05% by weight or less), based upon a rolling, 12-month summation of the consumption rates from B003, B004 and B005.
- 2. For the purpose of demonstrating compliance, the rolling, 12-month natural gas/fuel oil usages, in gallons, and SO<sub>2</sub>/NO<sub>x</sub> emissions, in tons, shall be calculated based upon the actual fuel (oil/natural gas) usages and SO<sub>2</sub>/NO<sub>x</sub> emissions from this source during the preceding 12-month period.
- 3. The quality of oil burned in B003 shall meet, on an as-received basis, a sulfur content which is sufficient to comply with the allowable SO<sub>2</sub> emission limitation of 1.5 lbs of 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, B004 and B005. 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 Ohio EPA Central District Office(CDO).
- 2. For each shipment of oil received for burning in B003, B004 and B005, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content. The facility shall maintain the following records:
  - a. the total quantity of fuel oil received in each shipment (gallons);
  - b. the sulfur content (percent) of the oil received in each shipment;
  - c. the heat content (Btu/gallon) of the oil received in each shipment;
  - d. the SO<sub>2</sub> emission rate (pounds SO<sub>2</sub> per million Btu actual heat input) for the fuel oil received in each shipment; and
  - e. monthly calculations of the weighted average sulfur content, heat content, and SO<sub>2</sub> emission rate for the oil received during each calendar month, and the total gallons of fuel oil burned in this boiler during the month.
- 3. The permittee shall maintain daily records of the following information:
  - a. The fuel oil (containing a sulfur content of 0.5% by weight or less) consumption rate for B003, B004 and B005.
  - b. The rolling, 365-day summation of the consumption rates for fuel oil (containing a sulfur content of 0.5% by weight or less) for B003, B004 and B005.
  - c. The fuel oil (containing a sulfur content of 0.05% by weight or less) consumption rate for B003, B004 and

B005.

d. The rolling, 12-month summation of the consumption rates for fuel oil (containing a sulfur content of 0.05% by weight or less) for B003, B004 and B005.

e. The natural gas consumption rate for B003, B004 and B005.

f. The rolling, 12-month summation of the consumption rates for natural gas for B003, B004 and B005.

g. The calculated NOx emissions for B003, B004 and B005.

h. The rolling, 12-month summation of NOx emissions for B003, B004 and B005.

**D. Reporting Requirements**

1. In accordance with the General Terms and Conditions of this permit, the permittee shall submit quarterly deviation (excursion) reports that identify any exceedances of the following:
  - a. the rolling, 12-month fuel oil consumption restriction listed in section B.1, and determined by record keeping in section C.3.b - c;
  - b. the rolling, 12-month SO<sub>2</sub> emission limitation listed in section A.1, as determined by the record keeping in section C.3.d - e;
  - c. the rolling, 12-month NO<sub>x</sub> emission limitation listed in section A.1, as determined by the record keeping in section C.3.h; and
  - d. exceedance reports shall include the date of the exceedance, the type and quantity of each exceedance, as well as any corrective actions that were taken to return to compliance.

If no exceedances occurred, then the report shall state that no exceedances occurred during the preceding 3-month period.
2. The facility shall submit annual reports to the Ohio EPA, which at a minimum specify the total fuel consumption (natural gas and oil), and the SO<sub>2</sub> and NO<sub>x</sub> emissions for B003, B004 and B005, for the previous calendar year (January 1 through December 31). The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

**E. Testing Requirements**

1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 

Emission Limitation:  
PE shall not exceed 0.020 pound per million Btu (MMBtu) of actual heat input.

Applicable Compliance Method:  
For the use of natural gas, compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (112,745 ft<sup>3</sup>/hr) by the AP-42 (Fifth Edition) emission factor for natural gas combustion (5 lbs/MMft<sup>3</sup>), and dividing by the maximum hourly heat input capacity of the emissions unit (115 MMBtu/hr). For the use of number two fuel oil, compliance shall be determined by multiplying the maximum fuel oil capacity of the emissions unit (833 gal/hr) by the AP-42 emission factor for number two fuel oil combustion (2 lb/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (115 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:  
SO<sub>2</sub> emissions shall not exceed 1.5 pounds per million Btu of actual heat input.

Applicable Compliance Method:  
Compliance shall be determined by the recordkeeping requirements in Section C.2.

Emission limitation:  
SO<sub>2</sub> emissions shall not exceed 99 tons per rolling, 12-month period from B003, B004 and B005;

Applicable Compliance Method:  
Oil usage restriction in B.1 and associated record keeping and reporting requirements.  
Sulfur dioxide emissions shall be calculated by taking the actual volume-weighted average sulfur content of the fuel oil (in weight percent) and multiplying it by the fuel density (lbs/gallon), volume of oil used (gallons/year), and the molecular weight ratio of SO<sub>2</sub> to S (2:1), and dividing by 2,000 lbs/ton to get sulfur dioxide emissions in tons/year.

Emission limitation:  
NO<sub>x</sub> emissions shall not exceed 95 tons per rolling, 12-month period from B003, B004 and B005.

Applicable Compliance Method for B003:  
Multiply the actual natural gas consumption (MMft<sup>3</sup>) with the AP-42 (revised as of February, 1998) emission factor (280 lbs/MMft<sup>3</sup>) and divide by 2000 lbs/ton to get NO<sub>x</sub> emissions in tons/year.

Applicable Compliance Method for B004 and B005:  
Multiply the actual natural gas consumption (MMft<sup>3</sup>) with an emission factor (based on test data) of 100 lbs/MMft<sup>3</sup> and divide by 2000 lbs/ton to get NO<sub>x</sub> emissions in tons/year.

Applicable Compliance Method for B003, B004 and B005 for fuel oil fired NO<sub>x</sub> emissions:  
Multiply the actual oil consumption (gallons/year) with the AP-42 emission factor (20 lbs/1000 gallons) and divide by 2000 lbs/ton to get NO<sub>x</sub> emissions in tons/year.

Compliance with the 95 tons per 365-day rolling period shall be determined by adding the NO<sub>x</sub> emissions for B003, B004 and B005.

Emission Limitation:

Visible PE shall not exceed 20% opacity as a 6-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).

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.