

Facility ID: 0666000050 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: 0666000050 Emissions Unit ID: B008 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>
81.1 MMBtu per hour boiler, fired with natural gas and number 2, low sulfur fuel oil	OAC rule 3745-31-05(A)(3) PTI # 06-06708 issued 09/04/2003	Nitrogen oxides (NOx) emissions shall not exceed 0.20 lb/MMBtu actual heat input from low sulfur fuel oil, 0.05 lb/MMBtu actual heat input from natural gas, and 16.2 lbs/hr.  Sulfur dioxide (SO2) emissions shall not exceed 0.051 lb/MMBtu actual heat input from low sulfur fuel oil, and 4.14 lbs/hr.  Carbon monoxide (CO) emissions shall not exceed 0.082 lb/MMBtu actual heat input from natural gas, 0.04 lb/MMBtu actual heat input from low sulfur fuel oil, and 6.7 lbs/hr.  Volatile organic compounds (VOC) emissions shall not exceed 0.01 lb/MMBtu actual heat input from low sulfur fuel oil, and 0.8 lb/hr.  Particulate emissions (PE) emissions shall not exceed 1.62 lbs/hr.
	OAC rule 3745-17-10(B)(1)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-10(B)(1), OAC rule 3745-17-07(A), OAC rule 3745-31-05(D), and 40 CFR 60, Subpart Dc. Particulate emissions shall not exceed 0.020 lb MMBtu actual heat input.
	OAC rule 3745-17-07(A)	The visible particulate emission limitation specified in OAC rule 3745-17-07(A)(1) is less stringent than the visible emission limitation specified in 40 CFR, Part 60, Subpart Dc while burning number 2, low sulfur fuel oil.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule, while burning only natural gas.
	OAC rule 3745-35-07(B) (thru PTI 06-06708)	B007 & B008 together shall not consume more than 4,000,000 gallons of number 2, low sulfur fuel oil, based upon a rolling, 12-month summation.
		Emissions from the use of both natural gas and low sulfur fuel oil, in emissions units B007 and B008 together, shall not exceed the following:  SO2 emissions shall not exceed

14.5 tons per rolling 12-month period;

NOx emissions shall not exceed 77.1 tons per rolling 12-month period;

CO emissions shall not exceed 59.7 tons per rolling 12-month period;

VOC emissions shall not exceed 4.5 tons per rolling 12-month period; and

PE shall not exceed 6.0 tons per rolling 12-month period.

40 CFR 60, Subpart Dc

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity. The SO<sub>2</sub> emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3) while burning number 2, low sulfur fuel oil.

OAC rule 3745-18-06(A)

The emission limitation specified 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) This emissions unit is subject to the applicable provisions of Subpart Dc of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60. The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

**B. Operational Restrictions**

- 1. The total maximum low sulfur, number 2 fuel oil usage in emissions units B007 and B008, combined, shall not exceed 4,000,000 gallons, based upon a rolling, 12-month summation.
- 2. The sulfur content of the fuel oil burned in this emissions unit shall not exceed 0.05 percent by weight. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.1 above.

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

- 1. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)).

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

- 2. The permittee shall maintain daily records of the total quantity of the low sulfur, number 2 fuel oil (in gallons) and/or natural gas (in millions of cubic feet) combusted in this emissions unit.
- 3. The permittee shall record and maintain records of the amount of fuel oil combusted each month and for the rolling, 12-month period.
- 4. For any day during which the permittee burns a fuel other than natural gas and/or low sulfur (0.05%), number 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 quarterly deviation (excursion) reports that identify each record which shows that the sulfur content of the fuel oil exceeded 0.05 percent, by weight, and/or each day during which a fuel other than natural gas and low sulfur (0.05%), number 2 fuel oil was burned. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in the General Term and Conditions.
- 2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month fuel oil usage limitation. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in the General Term and Conditions.

1. Pursuant to 40 CFR Part 60.48c(d) & (e), the permittee shall submit quarterly reports to the Ohio EPA Southeast District Office, which includes the following information:
  - a. calendar dates covered in the reporting period;
  - b. the name of the oil supplier(s);
  - c. a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in Section 60.41c, or records of the fuel supplier(s) certification(s) of the sulfur content for each shipment of oil received during the reporting period; and
  - d. a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

These quarterly reports shall be postmarked by the 30th day following the end of the reporting quarter of each year, and shall cover the fuel oil shipments received during the previous calendar quarters.
4. The permittee shall submit annual reports that specify the total emissions of NOx, SO<sub>2</sub>, CO, VOC and particulates from B007 and B008, combined, during the previous calendar year. Each report shall be submitted by January 31 and shall include the calculations for each pollutant.

**E. Testing Requirements**

1. Compliance with the short term emission limitations contained in this permit shall be determined in accordance with the following methods:

Emission Limitation:

NOx emissions shall not exceed 0.20 lb/MMBTU from low sulfur, number 2 fuel oil.  
NOx emissions shall not exceed 0.05 lb/MMBTU from natural gas.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 7E. Alternative U.S. EPA - approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

Emission Limitation:

NOx emissions shall not exceed 16.2 lbs/hr.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 7E. Alternative U.S. EPA - approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

Emission Limitation:

SO<sub>2</sub> emissions shall not exceed 0.051 lb/MMBtu from low sulfur, number 2 fuel oil.

Applicable Compliance Method:

When burning low sulfur, number 2 fuel oil, compliance shall be demonstrated by the monitoring and record keeping requirements in this permit, and fuel testing requirements and certification for each shipment of low sulfur, No. 2 fuel oil. The sulfur dioxide emission rate (in lbs/MMBtu) shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).

If required, compliance shall be determined in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 6. Alternative U.S. EPA - approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

Emission Limitation:

SO<sub>2</sub> emissions shall not exceed 4.14 lbs/hr.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 6. Alternative U.S. EPA - approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

Emission Limitation:

CO emissions shall not exceed 0.082 lb/MMBtu from natural gas.  
CO emissions shall not exceed 0.04 lb/MMBtu from low sulfur, number 2 fuel oil.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 10. Alternative U.S. EPA - approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

Emission Limitation:

CO emissions shall not exceed 6.7 lbs/hr.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 10. Alternative U.S. EPA - approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

## Emission Limitation:

VOC emissions shall not exceed 0.01 lb/MMBtu from low sulfur, number 2 fuel oil.

## Applicable Compliance Method:

If required, compliance shall be determined in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 25. Alternative U.S. EPA - approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

## Emission Limitation:

VOC emissions shall not exceed 0.8 lb/hr.

## Applicable Compliance Method:

If required, compliance shall be determined in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 25. Alternative U.S. EPA - approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

## Emission Limitation:

Particulate emissions shall not exceed 0.020 lb/MMBtu actual heat input.

If required, compliance shall be determined in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 5. Alternative U.S. EPA - approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

## Emission Limitation:

Particulate emissions shall not exceed 1.62 lbs PE/hour.

## Applicable Compliance Method:

If required, compliance shall be determined in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 5. Alternative U.S. EPA - approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

## Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity, while burning number 2 low sulfur fuel oil.

## Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

## Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule while operating on natural gas.

## Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

2. Compliance with the rolling 12-month emission limitations contained in this permit shall be determined in accordance with the following methods:

## Emission Limitation:

The SO<sub>2</sub> emissions from B007 & B008 combined shall not exceed 14.5 tons per rolling 12-month period.

## Applicable Compliance Method:

Compliance with the rolling 12-month emission limit shall be calculated from the fuel usage records maintained in this permit, for emissions units B007 and B008, and by applying the following calculations to determine the emissions each month:

For fuel oil:  $E = (\text{lb SO}_2/\text{MMBtu}^*) \times (\text{gal}/\text{month}) \times (140,000 \text{ Btu}/\text{gallon}) \times (\text{ton}/2000 \text{ lbs})$

For natural gas:  $E = (0.6 \text{ lb SO}_2/\text{MM ft}^3) \times (\text{ft}^3/\text{month}) \times (\text{ton}/2000 \text{ lbs})$

Twelve-month rolling emissions, from emissions units B007 and B008, shall be calculated by adding the current monthly emissions, for both fuels from both units, to the previous 11 months' emission calculations.

\* This number shall be based upon the fuel testing results and the calculation required in OAC 3745-18-04(F).

## Emission Limitation:

The NO<sub>x</sub> emissions from B007 & B008 combined shall not exceed 77.1 tons per rolling 12-month period.

## Applicable Compliance Method:

Compliance with the rolling 12-month emission limit shall be calculated from the fuel usage records maintained in this permit, for emissions units B007 and B008, and by applying the following calculations to determine the emissions each month:

For fuel oil:  $E = (\text{lb NO}_x/\text{MMBtu}^*) \times (\text{gal}/\text{month}) \times (140,000 \text{ Btu}/\text{gallon}) \times (\text{ton}/2000 \text{ lbs})$

For natural gas:  $E = (\text{lb NOx/MMBtu}^*) \times (\text{ft}^3/\text{month}) \times (1,000 \text{ Btu/ft}^3) \times (\text{ton}/2000 \text{ lbs})$

Twelve-month rolling emissions, from emissions units B007 and B008, shall be calculated by adding the current monthly emissions, for both fuels from both units, to the previous 11 months' emission calculations.

\* This number shall be based upon the results from the most recent emission testing.  
Emission Limitation:

The CO emissions from B007 & B008 combined shall not exceed 59.7 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limit shall be calculated from the fuel usage records maintained in this permit, for emissions units B007 and B008, and by applying the following calculations to determine the emissions each month:

For fuel oil:  $E = (\text{lb CO/MMBtu}^*) \times (\text{gal}/\text{month}) \times (140,000 \text{ Btu/gallon}) \times (\text{ton}/2000 \text{ lbs})$

For natural gas:  $E = (\text{lbs CO/MM ft}^3) \times (\text{ft}^3/\text{month}) \times (\text{ton}/2000 \text{ lbs})$

Twelve-month rolling emissions, from emissions units B007 and B008, shall be calculated by adding the current monthly emissions, for both fuels from both units, to the previous 11 months' emission calculations.

\* This number shall be based upon the results from the most recent emission testing.  
Emission Limitation:

The VOC emissions from B007 & B008 combined shall not exceed 4.5 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limit shall be calculated from the fuel usage records maintained in this permit, for emissions units B007 and B008, and by applying the following calculations to determine the emissions each month:

For fuel oil:  $E = (0.01 \text{ lb VOC/MMBtu}) \times (\text{gal}/\text{month}) \times (140,000 \text{ Btu/gallon}) \times (\text{ton}/2000 \text{ lbs})$

For natural gas:  $E = (0.004 \text{ lb VOC/MMBtu}) \times (\text{ft}^3/\text{month}) \times (1,000 \text{ Btu/ft}^3) \times (\text{ton}/2000 \text{ lbs})$

Twelve-month rolling emissions, from emissions units B007 and B008, shall be calculated by adding the current monthly emissions, for both fuels from both units, to the previous 11 months' emission calculations.  
Emission Limitation:

The particulate emissions from B007 & B008 combined shall not exceed 6.0 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limit shall be calculated from the fuel usage records maintained in this permit, for emissions units B007 and B008, and by applying the following calculations to determine the emissions each month:

For fuel oil:  $E = (0.02 \text{ lb PE/MMBtu}) \times (\text{gal}/\text{month}) \times (140,000 \text{ Btu/gallon}) \times (\text{ton}/2000 \text{ lbs})$

For natural gas:  $E = (0.001 \text{ lb PE/MMBtu}) \times (\text{ft}^3/\text{month}) \times (1,000 \text{ Btu/ft}^3) \times (\text{ton}/2000 \text{ lbs})$

Twelve-month rolling emissions, from emissions units B007 and B008, shall be calculated by adding the current monthly emissions, for both fuels from both units, to the previous 11 months' emission calculations.

**F. Miscellaneous Requirements**

1. None