

Facility ID: 1431074118 Issuance type: Final State Permit To Operate

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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: 1431074118 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>
B008- 35 MMBtu/hr natural gas-fired boiler	OAC rule 3745-31-05(A)(3) (PTI 14-4063)	The following emission limitations shall not be exceeded: Particulate emissions and particulate emissions 10 microns and less shall not exceed 0.0019 lb/mmBtu and 0.29 TPY. Organic Compound emissions shall not exceed 0.0066 lb/mmBtu and 1.01 TPY. Nitrogen Oxide emissions shall not exceed 0.10 lb/mmBtu and 15.33 TPY. Carbon Monoxide emissions shall not exceed 0.11 lb/mmBtu and 16.86 TPY. Sulfur Dioxide emissions shall not exceed 0.0006 lb/mmBtu and 0.092 TPY. * The lb/mmBtu emission limitations established in PTI 14-4063 are based upon the emissions unit's potentials to emit. Therefore, no record keeping, reporting, or testing requirements are necessary to ensure compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 40 CFR Part 60, Subpart Dc. See section C.1. Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.a. See term A.2.c.
	40 CFR Part 60, Subpart Dc OAC rule 3745-17-07(A)	
	OAC rule 3745-17-10(B)(1)	
	OAC rule 3745-18-06(A)	
	OAC rule 3745-21-08(B)	

2. Additional Terms and Conditions

- (a) OAC rule 3745-18-06(A) does not establish sulfur dioxide emission limitations for the fuel burning equipment associated with this emissions unit because the emissions unit only employs natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions (a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet). Because the natural gas being burned in this

emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

The permittee shall satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. On June 24, 2003, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

B. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. Pursuant to 40 CFR Part 60 Subpart Dc, the permittee shall record and maintain records of the amount of natural gas combusted during each day.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day when records were not maintained on the amount of natural gas combusted in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

E. Testing Requirements

1. Emission Limitation:
Particulate emissions and particulate emissions 10 microns and less shall not exceed 0.0019 lb/mmBtu and 0.29 TPY.

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (0.035 mmft³/hr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) for filterable particulates in natural gas combustion (1.9 lbs of particulates/mmft³), and dividing by the maximum hourly heat input capacity of the emissions unit (35 mmBtu/hr). The actual annual emissions rates shall be calculated by using the actual fuel usage, emissions factors and methodologies specified above.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

Emission Limitation:

Organic Compound emissions shall not exceed 0.0066 lb/mmBtu and 1.01 TPY.

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (0.035 mmft³/hr) by the emission factor from the manufacturer specifications of 6.57 lbs of VOC/mmft³ of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (35 mmBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

Emission Limitation:

Nitrogen Oxide emissions shall not exceed 0.10 lb/mmBtu and 15.33 TPY.

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (0.035 mmft³/hr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) emission factor of 100 lbs of NO_x/mmft³ of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (35 mmBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

Emission Limitation:

Carbon Monoxide emissions shall not exceed 0.11 lb/mmBtu and 16.86 TPY.

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (0.035 mmft³/hr) by the manufacturer specification emission factor of 110 lbs of CO/mmft³ of natural gas, and then dividing by the maximum hourly heat input capacity of the missions unit (35 mmBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

Emission Limitation:

Sulfur Dioxide emissions shall not exceed 0.0006 lb/mmBtu and 0.092 TPY.

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (0.035 mmft³/hr) by the emission factor from AP-42 "Compilation of Air Pollutant Emission Factors", Table 1.4-2 (7/98) emission factor of 0.6 lb of SO₂/mmft³, and then dividing by the maximum hourly heat input capacity of the emissions unit (35 mmBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

2. Emission Limitation-

Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method-

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. None