

Facility ID: 0125040904 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: 0125040904 Emissions Unit ID: B002 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>
20.9 mmBTU/hr natural gas boiler #5	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	
	OAC rule 3745-31-05	Particulate emissions shall not exceed 0.020 pound per million BTU of actual heat input.
	40CFR part 60 Subpart Db	See A.2 below No requirements are applicable because the permittee burns only natural gas and the boiler is less than 30 mmBTU/hr.

2. **Additional Terms and Conditions**
 - (a) Particulate emissions shall not exceed 0.11 pound per hour and 0.46 ton per year.
Sulfur dioxide emissions shall not exceed 0.15 pound per hour and 0.65 tons per year.
Nitrogen oxides emissions shall not exceed 2.93 pounds per hour and 12.89 tons per year.
Carbon monoxide emissions shall not exceed 1.59 pounds per hour and 6.97 tons per year.
Organic compound emissions shall not exceed 0.12 pound per hour and 0.53 tons per year.
Use of a low NOx fuel burner with a maximum emission rate of 0.14 pound of nitrogen oxides per mmBTU.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain a record of the amount of natural gas combusted during each day.

D. Reporting Requirements

1. None

E. Testing Requirements

1. Compliance with the emission limitation(s) outlined in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitation: Visible particulate emissions shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method: Compliance with the visible emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, as outlined in OAC rule 3745-17-03(B)(1).
Emission Limitation: 0.020 lb of PM per mmBtu of actual heat input when burning natural gas.

Applicable Compliance Method: Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (20,900 cu.ft/hr) by the AP-42, Table 1.4-2, 5th Edition, emission factor for natural gas combustion (5.0 lbs PM/mm cubic feet), and dividing by the maximum hourly heat input capacity of the emissions unit (20.9 mmBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

Emission Limitation: Particulate emissions shall not exceed 0.11 pound per hour and 0.46 tons per year.

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying the maximum hourly gas burning capacity (20,900 cu ft/hr) by the AP-42 (fifth edition) emissions factor for natural gas combustion (5 lbs PM/mm cu. ft./hr.). Compliance with the yearly emission limitation shall be determined by multiplying the maximum hourly gas burning capacity (20,900 cu.ft/hr) by the AP-42 (fifth edition) emissions factor for natural gas combustion (5 lbs PM/mm cu ft), then multiply by 8,760 hours per year and dividing by 2,000 lbs/ton.

Emissions Limitation: Sulfur dioxide emissions shall not exceed 0.15 pound per hour and 0.65 tons per year.

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying the maximum hourly gas burning capacity (20,900 cu ft/hr) by the AP-42 (fifth edition) emissions factor for natural gas combustion (0.6 lbs SO₂/mm cu. ft./hr.). Compliance with the yearly emission limitation shall be determined by multiplying the maximum hourly gas burning capacity (20,900 cu.ft/hr) by the AP-42 (fifth edition) emissions factor for natural gas combustion (0.6 lbs SO₂/mm cu. ft), then multiply by 8,760 hours per year and dividing by 2,000 lbs/ton.

Emissions Limitation: Nitrogen oxides emissions shall not exceed 2.93 pound per hour and 12.89 tons per year.

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying the maximum hourly gas burning capacity (20,900 cu ft/hr) by the AP-42 (fifth edition) emissions factor for natural gas combustion (140 lbs NO_x/MM cu. ft.). Compliance with the yearly emission limitation shall be determined by multiplying the maximum hourly gas burning capacity (20,900 cu.ft/hr) by the AP-42 (fifth edition) emissions factor for natural gas combustion (140 lbs NO_x/mm cu ft), then multiply by 8,760 hours per year and dividing by 2,000 lbs/ton.

Emissions Limitation: Carbon monoxide emissions shall not exceed 1.59 pounds per hour and 6.97 tons per year.

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying the maximum hourly gas burning capacity (20,900 cu ft/hr) by the AP-42 (fifth edition) emissions factor for natural gas combustion (20 lbs CO/mm cu. ft.). Compliance with the yearly emission limitation shall be determined by multiplying the maximum hourly gas burning capacity (20,900 cu.ft/hr) by the AP-42 (fifth edition) emissions factor for natural gas combustion (20 lbs CO/mm cu ft), then multiply by 8,760 hours per year and dividing by 2,000 lbs/ton.

Emissions Limitation: Organic compound emissions shall not exceed 0.12 pound per hour and 0.53 ton per year.

Applicable Compliance Method: Compliance with the hourly emission limitation shall be determined by multiplying the maximum hourly gas burning capacity (20,900 cu ft/hr) by the AP-42 (fifth edition) emissions factor for natural gas combustion (5.79 lbs OC/mm cu. ft.). Compliance with the yearly emission limitation shall be determined by multiplying the maximum hourly gas burning capacity (20,900 cu.ft/hr) by the AP-42 (fifth edition) emissions factor for natural gas combustion (5.79 lbs OC/mm cu ft), then multiply by 8,760 hours per year and dividing by 2,000 lbs/ton.

Emission Limitation: Use of a low NO_x fuel burner with a maximum emission rate of 0.14 pound of nitrogen oxides per mmBTU.

Applicable Compliance Method: Compliance with the NO_x emission factor shall be determined by dividing the maximum hourly emission rate of 2.93 lbs NO_x/hr by the gas burning capacity (20,900 cu ft/hr) and divided by the heat output from a cubic foot of natural gas (1,000 BTU/cu ft).

F. Miscellaneous Requirements

1. None