

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-fired boiler No. 5 with low NOx burner	OAC rule 3745-31-05(A)(3) (PTI 01-05997)	Particulate emissions (PE) shall not exceed 0.11 lb/hr* and 0.46 ton/yr*.
		Sulfur dioxide (SO2) emissions shall not exceed 0.15 lb/hr* and 0.65 ton/yr*.
		Nitrogen oxides (NOx) emissions shall not exceed 0.14 lb/mmBtu* and 12.9 tons/yr*.
		Carbon monoxide (CO) emissions shall not exceed 1.59 lbs/hr* and 7.0 tons/yr*.
		Organic compound (OC) emissions shall not exceed 0.12 lb/hr* and 0.5 ton/yr*.
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B)(1) and 3745-17-07(A).
		*The short term and annual emission limitations reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop additional monitoring, record keeping, and/or reporting requirements to ensure compliance with these limitations.
	OAC rule 3745-17-07(A)	Visible particulate emissions from the boiler stack shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-10(B)(1)	PE shall not exceed 0.020 lb/mmBtu of actual heat input.
	OAC rule 3745-21-08(B)	See section A.2.a below.
	OAC rule 3745-23-06(B)	See section A.2.b below.
	40 CFR Part 60 Subpart Dc	See sections A.2.c and B.1 below.

2. Additional Terms and Conditions

- (a) The design of the emissions unit and the technology associated with the current operating practices will satisfy the "best available control techniques and operating practices" for CO, pursuant to OAC rule 3745-21-08.
 The design of the emissions unit and the technology associated with the current operating practices will satisfy the "latest available control techniques and operating practices" for NOx, pursuant to OAC rule 3745-23-06.
 The boiler combusts only natural gas, so the applicability provisions in 40 CFR section 60.42 for sulfur dioxide would not apply to this boiler.

B. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall maintain a record of the amount of natural gas combusted during each month.
 2. For each day during which the permittee burns a fuel other than natural gas, 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 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.
- E. Testing Requirements**
1. Compliance with the emission limitations outlined 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 lb/MMBtu of actual heat input.

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 (1.9 lbs PE/mm cu ft), 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 through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.
Emission Limitation:
PE shall not exceed 0.11lb/hr and 0.46 ton/yr.

Applicable Compliance Method:
Compliance with the hourly emission limitation shall be determined by multiplying the maximum hourly natural gas burning capacity (20,900 cu ft/hr) by the AP-42 (5th Edition) emission factor for natural gas combustion (1.9 lbs PE/mm cu ft/hr).

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

Compliance with the annual emission limitation shall be determined by multiplying the maximum hourly natural gas burning capacity (20,900 cu ft/hr) by the AP-42 (5th Edition) emission factor for natural gas combustion (1.9 lbs PE/mm cu ft), then multiplying by 8,760 hours per year and dividing by 2,000 lbs/ton.
Emission Limitation:
SO₂ emissions shall not exceed 0.15 lb/hr and 0.65 ton/yr.

Applicable Compliance Method:
Compliance with the hourly emission limitation shall be determined by multiplying the maximum hourly natural gas burning capacity (20,900 cu ft/hr) by the AP-42 (5th Edition) emission factor for natural gas combustion (0.6 lb SO₂/mm cu ft/hr).

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 6. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

Compliance with the annual emission limitation shall be determined by multiplying the maximum hourly gas burning capacity (20,900 cu ft/hr) by the AP-42 (5th Edition) emission factor for natural gas combustion (0.6 lb SO₂/mm cu ft), then multiplying by 8,760 hours per year and dividing by 2,000 lbs/ton.
Emission Limitation:
NO_x emissions shall not exceed 0.14 lb/mmBtu and 12.9 tons/yr.

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 1.4-1, 5th Edition, emission factor for natural gas combustion (50 lbs NO_x/mm cu ft), 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 the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 7E. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

Compliance with the annual emission limitation shall be determined by multiplying the maximum daily emission rate of 94 lbs NO_x/day (Clayton 9/08/95) by 365 days/yr and dividing by 2,000 lbs/ton.
Emission Limitation:
CO emissions shall not exceed 1.59 lbs/hr and 7.0 tons/yr.

Applicable Compliance Method:
Compliance with the hourly emission limitation shall be determined by multiplying the maximum hourly natural gas burning capacity (20,900 cu ft/hr) by the AP-42 (5th Edition) emission factor for natural gas combustion (84 lbs CO/mm cu ft).

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 10. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

Compliance with the annual emission limitation shall be determined by multiplying the maximum hourly gas burning capacity (20,900 cu ft/hr) by the AP-42 (5th Edition) emission factor for natural gas combustion (84 lbs CO/mm cu ft), then multiplying by 8,760 hours per year and dividing by 2,000 lbs/ton.

Emission Limitation:

OC emissions shall not exceed 0.12 lb/hr and 0.5 ton/yr.

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be determined by multiplying the maximum hourly natural gas burning capacity (20,900 cu ft/hr) by the AP-42 (5th Edition) emission factor for natural gas combustion (5.5 lbs OC/mm cu ft).

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 18, 25, or 25A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

Compliance with the annual emission limitation shall be determined by multiplying the maximum hourly natural gas burning capacity (20,900 cu ft/hr) by the AP-42 (5th Edition) emission factor for natural gas combustion (5.5 lbs OC/mm cu ft), then multiplying by 8,760 hours per year and dividing by 2,000 lbs/ton.

Emission Limitation:

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

F. Miscellaneous Requirements

1. None