

Facility ID: 1409040925 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: 1409040925 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>
B002 - 12.4 mmBtu/hour Natural Gas-fired Boiler	OAC rule 3745-31-05(A)(3) (PTI 14-04991)	Particulate emissions (PE) shall not exceed 0.25 pound per hour and 1.1 tons per year (TPY). Particulate matter emissions 10 microns or less in diameter (PM10) shall not exceed 0.25 pound per hour and 1.1 TPY. Sulfur dioxide emissions (SO2) shall not exceed 0.01 pound per hour and 0.03 TPY. Nitrogen oxide emissions (NOx) shall not exceed 1.24 pounds per hour and 5.4 TPY. Carbon monoxide emissions (CO) shall not exceed 1.04 pounds per hour and 4.6 TPY. Volatile organic compound emissions (VOC) shall not exceed 0.14 pound per hour and 0.6 TPY. The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart Dc, OAC rule 3745-17-07(A)(1), and OAC rule 3745-17-10(B)(1). See term and condition C.1.
	40 CFR Part 60 Subpart Dc New Source Performance Standard OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20 percent (20%) opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 pound per mmBtu of actual heat input.
	OAC rule 3745-18-06(D)	Exempt as per OAC rule 3745-18-06(A).
	OAC rule 3745-21-08(B)	See term A.2.d.

2. Additional Terms and Conditions

- (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.
Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of natural gas and compliance with the mass emission limitations and visible emission limitations.
The hourly and annual emission limitations specified above are based upon the emission unit's potential to emit. Therefore, no records are required to demonstrate compliance with these limits.
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. The permittee shall collect and record the following information each day for this emissions unit:
 - a. The type of fuel burned, and
 - b. The quantity of fuel burned.

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

Emission Limitations:

SO₂ shall not exceed 0.01 pound per hour and 0.03 TPY.
 NO_x shall not exceed 1.24 pounds per hour and 5.4 TPY.
 CO shall not exceed 1.04 pounds per hour and 4.6 TPY.
 VOC shall not exceed 0.14 pound per hour and 0.6 TPY.

Applicable Compliance Methods:

The hourly and annual emission limitations specified above are based upon the emission unit's potential to emit and were established using the following methodology:

a. The hourly and annual SO₂ emission limitations were established by multiplying the emission factor of 0.60 lb/mmcf, from AP-42 Section 1.4, Table 1.4-2 (April, 1998), by the maximum rated capacity of the emissions unit, 12.4 mmBtu/hour, and dividing by the heat content of natural gas at 1000 Btu/scf. The hourly emissions are then multiplied by 8760 hours and divided by 2000 to obtain the annual TPY emissions limitation.

b. The hourly and annual NO_x emission limitations were established by multiplying the emission factor of 100 lbs/mmcf, from AP-42 Section 1.4, Table 1.4-1 (April, 1998), by the maximum rated capacity of the emissions unit, 12.4 mmBtu/hour, and dividing by the heat content of natural gas at 1000 Btu/scf. The hourly emissions are then multiplied by 8760 hours and divided by 2000 to obtain the annual TPY emissions limitation.

c. The hourly and annual CO emission limitations were established by multiplying the emission factor of 84 lbs/mmcf, from AP-42 Section 1.4, Table 1.4-1 (April, 1998), by the maximum rated capacity of the emissions unit, 12.4 mmBtu/hour, and dividing by the heat content of natural gas at 1000 Btu/scf. The hourly emissions are then multiplied by 8760 hours and divided by 2000 to obtain the annual TPY emissions limitation.

d. The hourly and annual VOC emission limitations were established by multiplying the emission factor of 11 lbs/mmcf, from AP-42 Section 1.4, Table 1.4-2 (April, 1998), by the maximum rated capacity of the emissions unit, 12.4 mmBtu/hour, and dividing by the heat content of natural gas at 1000 Btu/scf. The hourly emissions are then multiplied by 8760 hours and divided by 2000 to obtain the annual TPY emissions limitation.

Emission Limitations:

PE and PM₁₀ shall not exceed 0.25 pound per hour and 1.1 tons per year (TPY).

Applicable Compliance Method:

The hourly and annual emission limitations specified above are based on the OAC rule allowable limit for particulate emissions of 0.02 lb/mmBtu and exceed the emission unit's potential to emit. PM₁₀ is assumed to be equivalent to PE. Compliance with the hourly and annual emissions limitations shall be determined by the following equations:

$$\text{lb of PE-PM}_{10}/\text{hour} = (A) \times (B) \times 0.001 \text{ Btu}/\text{mmscf}$$

$$\text{PE-PM}_{10} \text{ TPY} = (B) \times (C) \times 0.0005 \text{ tons}/\text{lb}$$

Where,

A = maximum rated capacity of the boiler, in mmBtu/hour.

B = PE emissions factor of 7.6 lbs/mmscf, from AP-42 Section 1.4, Table 1.4-2 (April, 1998).

C = maximum annual amount of natural gas used, in mmscf.

Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20 percent (20%) opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.

Emission Limitation:

Particulate emissions (PE) shall not exceed 0.020 pound per mmBtu of actual heat input.

Applicable Compliance Method:

The emission limitation specified exceeds the emission unit's potential to emit. Compliance with the emission limitation shall be determined by the following equation:

$$\text{lb PE/mmBtu} = (A) \times 0.001 \text{ Btu/mmscf}$$

Where,

A = PE emission factor of 7.6 lbs/mmscf, from AP-42 Section 1.4, Table 1.4-2 (April, 1998).

F. **Miscellaneous Requirements**

1. None