

Facility ID: 1409070344 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: 1409070344 Emissions Unit ID: B006 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

**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>
B006 - 20.5 MMBtu/hr natural gas fired boiler	OAC rule 3745-31-05(A)(3) (PTI14-4497)	Particulate emissions (PE) shall not exceed 0.0019 lb/MMBtu of actual heat input and 0.17 ton per year (TPY).
		Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 0.0019 lb/MMBtu of actual heat input and 0.17 TPY.
		Volatile Organic Compound (VOC) emissions shall not exceed 0.11 lb/hr and 0.50 TPY.
		Nitrogen oxide (NOx) emissions shall not exceed 2.05 lbs/hr and 9.0 TPY.
		Carbon monoxide (CO) emissions shall not exceed 1.72 lbs/hr and 7.56 TPY.
		Sulfur dioxide (SO2) emissions shall not exceed 0.01 lb/hr and 0.05 TPY.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and 40 CFR Part 60, Subpart Dc.
OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except as specified by rule.	
OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).	
OAC rule 3745-18-06(A)	Exempt, since natural gas is the only fuel burned in this emissions unit.	
OAC rule 3745-21-08	See term and condition A.2.d.	
40 CFR Part 60, Subpart Dc	See Sections C.1 and D.2.	

**2. Additional Terms and Conditions**

- (a) The lb/MMBtu and pounds per hour emission limitations specified in Section A are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limitations. The TPY emission limitations specified in Section A are also based upon the emissions unit's PTE. Therefore, no records are required to demonstrate compliance with these limitations.  
 Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the visible emission limitation, mass emission limitations and the exclusive use of natural gas as fuel.  
 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. The permittee shall maintain records of the type and amounts of fuel 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 to the Hamilton County Department of Environmental Services within 30 days after the deviation occurs.
2. Pursuant to the NSPS, the permittee is hereby advised of the requirement to report the following at the appropriate times:
  - a. Construction date (no later than 30 days after such date);
  - b. Anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
  - c. Actual start-up date (within 15 days after such date); and
  - d. The design heat input capacity of each emissions unit and the identification of the fuel to be combusted in each emissions unit (no later than 30 days after the construction date).

Reports are to be sent to:

Hamilton County Department of Environmental Services  
250 William Howard Taft Road  
Cincinnati, Ohio 45219

**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 Limitation:

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

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(A)(1) shall be determined using the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

Emission Limitations:

Particulate emissions shall not exceed 0.0019 lb of PM/MMBtu and 0.17 tons per year (TPY).

Applicable Compliance Method:

The lb/MMBtu emission limitation is based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2(7/98). The emission factor is divided by 1000 Btu/cubic foot to get lb/MMBtu. The TPY emission limitation is determined by multiplying the lb/MMBtu factor by 20.5 MMBtu/hour (maximum heat input rating) then multiplying by 8760 hours/year and dividing by 2000 lbs/ton.

Emission Limitations:

Particulate emissions 10 microns and less in diameter shall not exceed 0.0019 lb/MMBtu and 0.17 TPY.

Applicable Compliance Method:

The lb/MMBtu emission limitation is based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2(7/98). The emission factor is divided by 1000 Btu/cubic foot to get lb/MMBtu. The TPY emission limitation is determined by multiplying the lb/MMBtu factor by 20.5 MMBtu/hour (maximum heat input rating) then multiplying by 8760 hours/year and dividing by 2000 lbs/ton.

Emission Limitations:

Sulfur Dioxide emissions shall not exceed 0.01 lb/hr and 0.05 TPY.

Applicable Compliance Method:

The lb/hr emission limitation is based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2(7/98). The emission factor is divided by 1000 Btu/cubic foot then multiplied by 20.5 MMBtu/hour. The TPY emission limitation is determined by multiplying the lb/MMBtu factor by 20.5 MMBtu/hour (maximum heat input rating) then multiplying by 8760 hours/year and dividing by 2000

Emission Limitations:

Nitrogen oxide emissions shall not exceed 2.05 lb/hr and 9.0 TPY.

**Applicable Compliance Method:**

The lb/hr emission limitation is based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2(7/98). The emission factor is divided by 1000 Btu/cubic foot then multiplied by 20.5 MMBtu/hour. The TPY emission limitation is determined by multiplying the lb/MMBtu factor by 20.5 MMBtu/hour (maximum heat input rating) then multiplying by 8760 hours/year and dividing by 2000.

**Emission Limitations:**

Carbon monoxide emissions shall not exceed 1.72 lbs/hr and 7.56 TPY.

**Applicable Compliance Method:**

The lb/hr emission limitation is based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2(7/98). The emission factor is divided by 1000 Btu/cubic foot then multiplied by 20.5 MMBtu/hour. The TPY emission limitation is determined by multiplying the lb/MMBtu factor by 20.5 MMBtu/hour (maximum heat input rating) then multiplying by 8760 hours/year and dividing by 2000.

**Emission Limitations:**

Volatile organic compound emissions shall not exceed 0.11 lb/hr and 0.50 TPY.

**Applicable Compliance Method:**

The lb/hr emission limitation is based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2(7/98). The emission factor is divided by 1000 Btu/cubic foot then multiplied by 20.5 MMBtu/hour. The TPY emission limitation is determined by multiplying the lb/MMBtu factor by 20.5 MMBtu/hour (maximum heat input rating) then multiplying by 8760 hours/year and dividing by 2000.

2. Compliance with the requirements of term and condition B.1 shall be demonstrated by the record keeping required in term and condition C.1.

**F. Miscellaneous Requirements**

1. None