

Facility ID: 0278040438 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: 0278040438 Emissions Unit ID: P004 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>
P004 - 14-3 walking hearth reheat furnace natural gas fired	OAC rule 3745-31-05(A)(3) (PTI 02-19791)	Particulate emissions (PE) shall not exceed 0.44 pound per hour and 1.9 tons per year. Nitrogen oxides (NOx) emissions shall not exceed 14.6 pounds per hour and 63.9 tons per year. Carbon monoxide (CO) emissions shall not exceed 4.92 pounds per hour and 21.5 tons per year.
	OAC rule 3745-17-07(A)(1)	Organic compound (OC) emissions shall not exceed 0.32 pound per hour and 1.4 tons per year. Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-10	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

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

C. Monitoring and/or Record Keeping Requirements

1. 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.
2. The permittee shall maintain annual records of the amount of natural gas used by this emissions unit in standard cubic feet (scf).

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 an annual report that summarizes the following information:
 - a. the annual amount of natural gas used in this emissions unit, in scf; and
 - b. the total annual emissions of NOx, CO, PM, and total OC from this emissions unit for the previous calendar year.

These reports shall be submitted by January 31 of each year for operations during the previous calendar year.

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:

NOx emissions shall not exceed 14.6 pounds per hour and 63.9 tons per year.

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors supplied by the manufacturer for natural gas combustion and the maximum capacity of the gas burners.

$E(\text{NOx}) = 64 \text{ mmBtu/hr} \times 0.228 \text{ lb NOx/mmBtu (mfg. emission factor)} = 14.6 \text{ lbs/hr}$

Annual emissions are determined by multiplying the emission factor by the annual natural gas usage and multiplying by 1090 Btu/scf and dividing by 2000 lbs/ton.

$\text{Annual}(\text{NOx}) = [\text{nat.gas usage}(\text{scf/yr}) \times 0.228 \text{ lb NOx/mmBtu} \times 1090 \text{ Btu/scf}] / 2000 \text{ lbs/ton} = \text{tons per year}$

If required pursuant to OAC rule 3745-15-04, the permittee shall demonstrate compliance with the hourly NOx emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 7 or 7E.

Emission Limitation:

PE shall not exceed 0.44 pound per hour and 1.9 tons per year.

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from AP-42, Section 1.4 (1998) for natural gas combustion and the maximum capacity of the gas burners.

$E(\text{PE}) = 64 \text{ mmBtu/hr} \times 0.0069 \text{ lb PE/mmBtu}(\text{AP-42}) = 0.44 \text{ lb/hr.}$

Annual emissions are determined by multiplying the emission factor by the annual natural gas usage and multiplying by 1090 Btu/scf and dividing by 2000 lbs/ton.

$\text{Annual}(\text{PE}) = [\text{nat.gas usage}(\text{scf/yr}) \times 0.0069 \text{ lb PE/mmBtu} \times 1090 \text{ Btu/scf}] / 2000 \text{ lbs/ton} = \text{tons per year}$

Emission Limitation:

CO emissions shall not exceed 4.92 pounds per hour and 21.5 tons per year.

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from AP-42, Section 1.4 (1998) for natural gas combustion and the maximum capacity of the gas burners.

$E(\text{CO}) = 64 \text{ mmBtu/hr} \times 0.0769 \text{ lb CO/ mmBtu (AP-42)} = 4.92 \text{ lbs/hr.}$

Annual emissions are determined by multiplying the emission factor by the annual natural gas usage and multiplying by 1090 Btu/scf and dividing by 2000 lbs/ton.

$\text{Annual}(\text{CO}) = [\text{nat.gas usage}(\text{scf/yr}) \times 0.0769 \text{ lb CO/ mmBtu} \times 1090 \text{ Btu/scf}] / 2000 \text{ lbs/ton} = \text{tons per year}$

Emission Limitation:

OC emissions shall not exceed 0.32 pound per hour and 1.4 tons per year.

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from AP-42, Section 1.4 (1998) for natural gas combustion and the maximum capacity of the gas burners.

$E(\text{OC}) = 64 \text{ mmBtu/hr} \times 0.005 \text{ lb OC / mmBtu (AP-42)} = 0.32 \text{ lb/hr.}$

Annual emissions are determined by multiplying the emission factor by the annual natural gas usage and multiplying by 1090 Btu/scf and dividing by 2000 lbs/ton.

$\text{Annual}(\text{OC}) = [\text{nat.gas usage}(\text{scf/yr}) \times 0.005 \text{ lb OC / mmBtu} \times 1090 \text{ Btu/scf}] / 2000 \text{ lbs/ton} = \text{tons per year}$

Emission Limitation:

Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. None