

Facility ID: 1409070726 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: 1409070726 Emissions Unit ID: P003 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>
P003-Glass Frit Smelter 3	OAC rule 3745-31-05(A)(3) (PTI 14-05631)	Nitrogen Oxides (NOx) emissions shall not exceed 1.2 pounds per hour and 5.26 TPY.  Carbon Monoxide (CO) emissions shall not exceed 0.36 pound per hour and 1.58 TPY.  Particulate Emissions (PE) and Particulate Matter emissions less than 10 microns (PM10) shall not exceed 0.72 pound per hour and 3.15 TPY.  See terms and conditions B.1 and B.2.
	OAC rule 3745-17-07(A)(1)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is equally stringent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- (a) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emission limitations, the exclusive use of natural gas as fuel, and by the use of a venturi scrubber to control particulate emissions.  
The hourly emission limitations outlined in section A.1 are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limitations.

**B. Operational Restrictions**

1. The permittee shall only burn natural gas in this emissions unit.
2. The pressure drop across the scrubber and the scrubber flow rate shall be continuously maintained at a value of not less than the values established during the most recent performance test that demonstrated compliance with the particulate emission rate outlined in section A.1 of this permit.

**C. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly operate and maintain equipment to continuously monitor the pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. The pressure drop across the scrubber, in inches of water, on a once per day basis.
- b. The scrubber flow rate, in gallons per minute, on a once per day basis.

- c. The operating times for the capture (collection) system, control device, and monitoring equipment, and the associated emissions unit.
  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 all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
    - a. The pressure drop across the scrubber.
    - b. The scrubber water flow rate.
  2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit.
  3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
- 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:

Emissions Limitation:  
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
  2. Emissions Limitations:

Particulate Emissions (PE) and particulate matter emissions less than 10 microns (PM10) shall not exceed 0.72 pound per hour and 3.15 TPY.

Applicable Compliance Methods:

If required, emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test method shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1-5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The test(s) shall be conducted while the following emissions units (P005, P002 and P003) are vented to the venturi scrubber. The emissions units shall be operated at or near their maximum capacities, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

The annual emissions limitation is determined by multiplying the hourly emission rate by the maximum operating hours, 8760 hr/yr, and dividing by 2000 lb/ton.
  3. Emissions Limitations:

Nitrogen Oxides (NOx) emissions shall not exceed 1.2 pounds per hour and 5.26 TPY.

Carbon Monoxide (CO) emissions shall not exceed 0.36 pound per hour and 1.58 TPY.

Applicable Compliance Methods:

Compliance with the NOx and CO emission limitations outlined in this permit shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational parameters as submitted in air PTI application number 14-05631 submitted on October 19, 2004. The annual emissions limitation is determined by multiplying the hourly emission rate by the maximum operating hours, 8760 hr/yr, and dividing by 2000 lb/ton.
- F. **Miscellaneous Requirements**
  1. None