



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
BUTLER COUNTY**

**CERTIFIED MAIL**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 14-05458**

**DATE: 8/21/2003**

Glass Coatings and Concepts  
Ron Drumm  
300 Lawton Avenue  
Monroe, OH 45050

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

HCDES



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**Permit To Install  
Terms and Conditions**

**Issue Date: 8/21/2003  
Effective Date: 8/21/2003**

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**FINAL PERMIT TO INSTALL 14-05458**

Application Number: 14-05458  
APS Premise Number: 1409070726  
Permit Fee: **\$800**  
Name of Facility: Glass Coatings and Concepts  
Person to Contact: Ron Drumm  
Address: 300 Lawton Avenue  
Monroe, OH 45050

Location of proposed air contaminant source(s) [emissions unit(s)]:

**300 Lawton Avenue  
Monroe, Ohio**

Description of proposed emissions unit(s):

**The facility has proposed installation of (3) frit smelters, (1) porta-hopper blender, and (1) flux produce spray dryer.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### 2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### 3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

#### **5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

#### **6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

#### **8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

#### **9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

#### **10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

#### **11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

#### **12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

#### **13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

Glass Coatings and Concepts  
 PTI Application: 14-05458  
 Issued: 8/21/2003

Facility ID: 1409070726

#### 14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

#### 15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

### B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)**  
**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PM/PM10	2.01
NOx	15.78
CO	4.74
Flouride	0.93

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

- The specific operations(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 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>
P001 - 150 lbs/hour Glass Frit Smelter 1, controlled by a venturi scrubber	OAC rule 3745-31-05(A)(3)	0.14 lb/hr PM/PM10 0.6 TPY PM/PM10 1.2 lbs/ hour NOx 5.26 TPY NOx 0.36 lb/ hour CO 1.58 TPY CO 0.07 lb/hour Flouride 0.31 TPY Fluoride  The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	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 provided by the rule.
	OAC rule 3745-17-11 (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).

**2. Additional Terms and Conditions**

- 2.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.
- 2.b** The hourly emissions limitations outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

## **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 Recordkeeping Requirements**

- 1. The permittee shall properly install, 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 installed, 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:

Emission 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 emissions 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. Emission Limitation:  
0.14 lb particulate per hour  
0.6 TPY particulate emissions in the exhaust gases

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The emission testing shall be conducted within 6 months after startup of the emissions unit.

The 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

Emissions Unit ID: **P001**

approved test methods may be used with prior approval from the Ohio EPA.

The test(s) shall be conducted while the following emissions units (P001, 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.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

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.

The PM emissions equal the PM10 emissions.

3. Emission Limitation:
  - 1.2 lbs/ hour NO<sub>x</sub>
  - 5.26 TPY NO<sub>x</sub>
  - 0.36 lb/ hour CO
  - 1.58 TPY CO
  - 0.07 lb/hour Flouride
  - 0.31 TPY Fluoride

Applicable Compliance Method:

Compliance with the NO<sub>x</sub>, CO and Flouride emission limitations outlined in this permit shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational

**Glass****PTI A****Issued: 8/21/2003**Emissions Unit ID: **P001**

parameters as submitted in PTI application 14-05458 submitted June 5, 2003. 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**

None.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

- The specific operations(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 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>
P002 - 150 lbs/hour Glass Frit Smelter 2 controlled by a venturi scrubber	OAC rule 3745-31-05(A)(3)	0.14 lb/hr PM/PM10 0.6 TPY PM/PM10 1.2 lbs/ hour NOx 5.26 TPY NOx 0.36 lb/ hour CO 1.58 TPY CO 0.07 lb/hour Flouride 0.31 TPY Fluoride  The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	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 provided by the rule.
	OAC rule 3745-17-11(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).

**2. Additional Terms and Conditions**

- 2.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.
- 2.b The hourly emissions limitations outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

## 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 Recordkeeping Requirements

1. The permittee shall properly install, 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 installed, 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:

Emission 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 emissions 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. Emission Limitation:  
0.14 lb particulate per hour  
0.6 TPY particulate emissions in the exhaust gases

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The emission testing shall be conducted within 6 months after startup of the emissions unit.

The 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

Emissions Unit ID: **P002**

approved test methods may be used with prior approval from the Ohio EPA.

The test(s) shall be conducted while the following emissions units (P001, 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.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

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.

The PM emissions equal the PM10 emissions.

3. Emission Limitation:
  - 1.2 lbs/ hour NO<sub>x</sub>
  - 5.26 TPY NO<sub>x</sub>
  - 0.36 lb/ hour CO
  - 1.58 TPY CO
  - 0.07 lb/hour Flouride
  - 0.31 TPY Fluoride

Applicable Compliance Method:

Compliance with the NO<sub>x</sub>, CO and Flouride emission limitations outlined in this permit shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational

**Glass****PTI A****Issued: 8/21/2003**Emissions Unit ID: **P002**

parameters as submitted in PTI application 14-05458 submitted June 5, 2003. 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**

None.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

- The specific operations(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 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 - 150 lbs/hour Glass Frit Smelter 3 controlled by a venturi scrubber	OAC rule 3745-31-05(A)(3)	0.14 lb/hr PM/PM10 0.6 TPY PM/PM10 1.2 lbs/ hour NOx 5.26 TPY NOx 0.36 lb/ hour CO 1.58 TPY CO 0.07 lb/hour Flouride 0.31 TPY Fluoride  The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	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 provided by the rule.
	OAC rule 3745-17-11(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).

**2. Additional Terms and Conditions**

- 2.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.
- 2.b The hourly emissions limitations outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

## **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 Recordkeeping Requirements**

1. The permittee shall properly install, 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 installed, 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:

**Emission 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 emissions 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. **Emission Limitation:**  
0.14 lb particulate per hour  
0.6 TPY particulate emissions in the exhaust gases

**Applicable Compliance Method:**

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The emission testing shall be conducted within 6 months after startup of the emissions unit.

The 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 (P001, 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.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

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.

The PM emissions equal the PM10 emissions.

3. Emission Limitation:
  - 1.2 lbs/ hour NO<sub>x</sub>
  - 5.26 TPY NO<sub>x</sub>
  - 0.36 lb/ hour CO
  - 1.58 TPY CO
  - 0.07 lb/hour Flouride
  - 0.31 TPY Fluoride

Applicable Compliance Method:

Compliance with the NO<sub>x</sub>, CO and Flouride emission limitations outlined in this permit shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational

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parameters as submitted in PTI application 14-05458 submitted June 5, 2003. 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**

None.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 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 - Porta-hopper	OAC rule 3745-31-05(A)(3)	0.05 lb/hr PM/PM10 0.21 TPY PM/PM10
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and 3745-17-08(B)(3).
		See term A.2.d
	OAC rule 3745-17-07(A)(1)	See term A.2.e
	OAC rule 3745-17-07(B)(1)	0.030 grains PM/dscf from the fabric filter exhaust.
	OAC rule 3745-17-08(B)(3)	
	OAC rule 3745-17-11	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a The permittee shall maintain a particulate emissions control efficiency of 99% for dust

collector according to the manufacturer's design specifications.

- 2.b** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of a fabric filter and compliance with the emission limitations outlined in this permit.
- 2.c** The hourly emissions limitations outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.d** Visible particulate emissions from any stack associated with this emissions unit shall not exceed twenty per cent opacity, as a six-minute average, except as provided by rule.
- 2.e** Visible fugitive particulate emissions from this emissions unit shall not exceed 20% opacity, as a three-minute average, except as provided by rule.

**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

None.

**D. Reporting Requirements**

None.

**E. Testing Requirements**

1. Compliance with the visible particulate emission limitations in terms A.2.d and A.2.e shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Emission Limitation:  
0.05 lb/hr PM/PM10  
0.21 TPY PM/PM10

Applicable Compliance Method:

Compliance with the emission limitations outlined in this permit shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational parameters as submitted in

PTI 14-05458 submitted June 5, 2003.

3. Emission Limitations:

0.030 grains PM/dscf from the fabric filter exhausts.

Applicable Compliance Methods:

If testing is required to demonstrate compliance with the allowable emission limitation of 0.030 grains PM/dscf then, testing shall be conducted using the following method: Method 5 of 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

None.