



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
MEDINA 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: 16-02257**

**DATE: 11/21/2002**

Ohio Brass Wadsworth  
Bill Emery  
8711 Wadsworth Rd  
Wadsworth, OH 44281

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  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

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

cc: USEPA

ARAQMD



**Permit To Install  
Terms and Conditions**

**Issue Date: 11/21/2002  
Effective Date: 11/21/2002**

**FINAL PERMIT TO INSTALL 16-02257**

Application Number: 16-02257  
APS Premise Number: 1652100011  
Permit Fee: **\$1800**  
Name of Facility: Ohio Brass Wadsworth  
Person to Contact: Bill Emery  
Address: 8711 Wadsworth Rd  
Wadsworth, OH 44281

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

**8711 Wadsworth Rd  
Wadsworth, Ohio**

Description of proposed emissions unit(s):

**Installation of Calciner No. 2, Modification to Spray Dryers No. 2 and 3, Modification to Burn-Off Ovens Nos. 1, 2, 3, 4 and 5. Modification of PTI Nos. 16-01497, 16-01511, 16-01545, 16-01673.**

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 Related to Monitoring and Recordkeeping 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

**Ohio Brass Wadsworth**  
**PTI Application: 16-02257**  
**Issued: 11/21/2002**

**Facility ID: 1652100011**

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 application must be made to the Director for the installation or modification of any other emissions unit(s).

**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.

Ohio Brass Wadsworth  
 PTI Application: 16-02257  
 Issued: 11/21/2002

Facility ID: 1652100011

#### 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>
OC	50.2
PE	6.82
CO	2.65
NOx	3.3

## 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>
P005 - Anhydro Type III AK 6/8 Spray Dryer (The terms and conditions in this permit supercede the terms and conditions in PTI 16-149 issued on 9/30/1981) - Spray Dryer 2.	OAC rule 3745-31-05(A)(3)	0.2 pound of particulate emissions (PE) per hour  0.9 ton of PE per year
		42.72 pounds of organic compounds (OC) per day  7.8 tons of OC per year
	OAC rule 3745-17-07(A)	The visible particulate emissions from the stack shall not exceed 5 percent opacity, as a six-minute average.  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 3745-17-11	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 None

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range established either during the most recent emission test that demonstrated that the emissions unit was in compliance or by the manufacturer's and/or servicing contractor's written recommendation while the emissions unit is in operation.

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

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The deviation reports shall be submitted in accordance with the requirements specified in the General Terms and Conditions.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:

0.2 pound of PE per hour

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the procedures and test(s) methods in OAC rule 3745-17-03(B)(10).

- b. Emission Limitation:

9

**Ohio 1**

**PTI A**

**Issued: 11/21/2002**

Emissions Unit ID: **P005**

0.9 ton of PE per year

Applicable Compliance Method:

Multiply the hourly allowable particulate emission limitation by 8760 hours per year, and then divide by 2000.

c. Emission Limitation:

42.72 pounds of OC per day

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the procedures and test(s) methods in OAC rule 3745-21-10(C).

d. Emission Limitation:

7.8 tons of OC per year

Applicable Compliance Method:

Multiply the hourly allowable organic compounds emission limitation by 8760 hours per year, and then divide by 2000.

e. Emission Limitation:

The visible particulate emissions from the stack shall not exceed 5 percent opacity, as a six-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**F. Miscellaneous Requirements**

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to

**Ohio Brass Wadsworth**  
**PTI Application: 16-02257**  
**Issued**

**Facility ID: 1652100011**

Emissions Unit ID: **P005**

above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

**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>
P011 - Anhydro Type III AK 6/8 Spray Dryer (The terms and conditions in this permit supercede the terms and conditions in PTI 16-1497 issued on 8/2/1995) - Spray Dryer 3.	OAC rule 3745-31-05(A)(3)	0.2 pound of particulate emissions (PE) per hour  0.9 ton of PE per year  42.72 pounds of organic compounds (OC) per day  7.8 tons of OC per year  The visible particulate emissions from the stack shall not exceed 5 percent opacity, as a six-minute average.
	OAC rule 3745-17-07(A)	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 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

13

**Ohio I**

**PTI A**

**Issued: 11/21/2002**

Emissions Unit ID: **P011**

**2. Additional Terms and Conditions**

**2.a** None

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range established either during the most recent emission test that demonstrated that the emissions unit was in compliance or by the manufacturer's and/or servicing contractor's written recommendation while the emissions unit is in operation.

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

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.

**D. Reporting Requirements**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation:  
0.2 pound of PE per hour  
  
Applicable Compliance Method:  
  
Stack testing may be required in the future in accordance with the procedures and test(s) methods in OAC rule 3745-17-03(B)(10).
  - b. Emission Limitation:  
0.9 ton of PE per year

Applicable Compliance Method:

Multiply the hourly allowable particulate emission limitation by 8760 hours per year, and then divide by 2000.

c. Emission Limitation:

42.72 pounds of OC per day

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the procedures and test(s) methods in OAC rule 3745-21-10(C).

d. Emission Limitation:

7.8 tons of OC per year

Applicable Compliance Method:

Multiply the hourly allowable organic compounds emission limitation by 8760 hours per year, and then divide by 2000.

e. Emission Limitation:

The visible particulate emissions from the stack shall not exceed 5 percent opacity, as a six-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

## F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

**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>
P012 - 1.5 million Btu/hr natural gas fired oven (The terms and conditions in this permit supercede the terms and conditions in PTI 16-1511 issued on 11/8/1995) - Binder Burnout Oven 1.	OAC rule 3745-31-05(A)(3)	37.44 pounds of organic compounds (OC) per day  6.83 tons of OC per year  Natural gas combustion emissions from the binder burnout oven shall not exceed the following:  0.15 pound of nitrogen oxides (NOx) per hour and 0.66 ton of NOx per year  0.12 pound of carbon monoxide (CO) per hour and 0.53 ton of CO per year  0.01 pound of particulate emissions (PE) per hour and 0.05 ton of PE per year  0.02 pound of OC per hour and 0.09 ton of OC per year

**2. Additional Terms and Conditions**

**2.a** None

17

**Ohio 1**

**PTI A**

**Issued: 11/21/2002**

Emissions Unit ID: **P012**

**B. Operational Restrictions**

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

**C. Monitoring and/or Recordkeeping 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 records of all preventive maintenance activities, inspections, and repairs involving this emissions unit.

**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 report, within 30 days of occurrence, any changes in oven cycle, parameters related to the efficient operation of the oven, and type of materials supplied to the oven that deviate from the conditions present at the April 1, 1994 emission testing of binder burnout oven #1.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:

0.15 pound of NO<sub>x</sub> per hour

Applicable Compliance Method:

Multiply the emission factor of 100 pounds of NO<sub>x</sub> per million cubic feet of natural gas fired (AP-42 Table 1.4-1 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

- b. Emission Limitation:

0.66 ton of NO<sub>x</sub> per year

Applicable Compliance Method:

Emissions Unit ID: P012

Multiply the hourly allowable NOx emission limitation by 8760 hours per year, and then divide by 2000.

c. Emission Limitation:

0.12 pound of CO per hour

Applicable Compliance Method:

Multiply the emission factor of 84 pounds of CO per million cubic feet of natural gas fired (AP-42 Table 1.4-1 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

d. Emission Limitation:

0.53 ton of CO per year

Applicable Compliance Method:

Multiply the hourly allowable CO emission limitation by 8760 hours per year, and then divide by 2000.

e. Emission Limitation:

0.01 pound of PE per hour

Applicable Compliance Method:

Multiply the emission factor of 7.6 pounds of PE per million cubic feet of natural gas fired (AP-42 Table 1.4-2 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

f. Emission Limitation:

0.05 ton of PE per year

Applicable Compliance Method:

Multiply the hourly allowable PE emission limitation by 8760 hours per year, and then divide by 2000.

g. Emission Limitation:

0.02 pound of OC per hour

Applicable Compliance Method:

Multiply the emission factor of 11 pounds of OC per million cubic feet of natural gas fired (AP-42 Table 1.4-2 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

- h. Emission Limitation:
- 0.09 ton of OC per year
- Applicable Compliance Method:
- Multiply the hourly allowable OC emission limitation by 8760 hours per year, and then divide by 2000.
- i. Emission Limitation:
- 37.44 pounds of OC per day
- Applicable Compliance Method:
- Stack testing may be required in the future in accordance with the procedures and requirements in Methods 1-4, 18 and 25 of 40 CFR Part 60, Appendix A. The need for stack testing will be determined through facility inspections and/or significant change in oven operations.
- j. Emission Limitation:
- 6.83 tons of OC per year
- Applicable Compliance Method:
- Multiply the hourly allowable OC emission limitation by 8760 hours per year, and then divide by 2000.

## F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the increase in the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

Ohio 1

PTI A

Issued: 11/21/2002

Emissions Unit ID: P013

**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>
P013 - 1.5 million Btu/hr natural gas fired oven (The terms and conditions in this permit supercede the terms and conditions in PTI 16-1511 issued on 11/8/1995) - Binder Burnout Oven 2.	OAC rule 3745-31-05(A)(3)	37.44 pounds of organic compounds (OC) per day  6.83 tons of OC per year  Natural gas combustion emissions from the binder burnout oven shall not exceed the following:  0.15 pound of nitrogen oxides (NOx) per hour and 0.66 ton of NOx per year  0.12 pound of carbon monoxide (CO) per hour and 0.53 ton of CO per year  0.01 pound of particulate emissions (PE) per hour and 0.05 ton of PE per year  0.02 pound of OC per hour and 0.09 ton of OC per year

**2. Additional Terms and Conditions****2.a** None

**Ohio Brass Wadsworth**  
**PTI Application: 16-02257**  
**Issued**

**Facility ID: 1652100011**

Emissions Unit ID: **P013**

**B. Operational Restrictions**

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

**C. Monitoring and/or Recordkeeping 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 records of all preventive maintenance activities, inspections, and repairs involving this emissions unit.

**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 report, within 30 days of occurrence, any changes in oven cycle, parameters related to the efficient operation of the oven, and type of materials supplied to the oven that deviate from the conditions present at the April 1, 1994 emission testing of binder burnout oven #1.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation:  
  
0.15 pound of NOx per hour  
  
Applicable Compliance Method:  
  
Multiply the emission factor of 100 pounds of NOx per million cubic feet of natural gas fired (AP-42 Table 1.4-1 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).
  - b. Emission Limitation:  
  
0.66 ton of NOx per year  
  
Applicable Compliance Method:

Multiply the hourly allowable NOx emission limitation by 8760 hours per year, and then divide by 2000.

c. Emission Limitation:

0.12 pound of CO per hour

Applicable Compliance Method:

Multiply the emission factor of 84 pounds of CO per million cubic feet of natural gas fired (AP-42 Table 1.4-1 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

d. Emission Limitation:

0.53 ton of CO per year

Applicable Compliance Method:

Multiply the hourly allowable CO emission limitation by 8760 hours per year, and then divide by 2000.

e. Emission Limitation:

0.01 pound of PE per hour

Applicable Compliance Method:

Multiply the emission factor of 7.6 pounds of PE per million cubic feet of natural gas fired (AP-42 Table 1.4-2 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

f. Emission Limitation:

0.05 ton of PE per year

Applicable Compliance Method:

Multiply the hourly allowable PE emission limitation by 8760 hours per year, and then divide by 2000.

g. Emission Limitation:

0.02 pound of OC per hour

Applicable Compliance Method:

Multiply the emission factor of 11 pounds of OC per million cubic feet of natural gas fired (AP-42 Table 1.4-2 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

- h. Emission Limitation:
- 0.09 ton of OC per year
- Applicable Compliance Method:
- Multiply the hourly allowable OC emission limitation by 8760 hours per year, and then divide by 2000.
- i. Emission Limitation:
- 37.44 pounds of OC per day
- Applicable Compliance Method:
- Stack testing may be required in the future in accordance with the procedures and requirements in Methods 1-4, 18 and 25 of 40 CFR Part 60, Appendix A. The need for stack testing will be determined through facility inspections and/or significant change in oven operations.
- j. Emission Limitation:
- 6.83 tons of OC per year
- Applicable Compliance Method:
- Multiply the hourly allowable OC emission limitation by 8760 hours per year, and then divide by 2000.

## F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the increase in the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

**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>
P015 - 1.5 million Btu/hr natural gas fired oven (The terms and conditions in this permit supercede the terms and conditions in PTI 16-1545 issued on 4/3/1996) - Binder Burnout Oven 3.	OAC rule 3745-31-05(A)(3)	37.44 pounds of organic compounds (OC) per day  6.83 tons of OC per year  Natural gas combustion emissions from the binder burnout oven shall not exceed the following:  0.15 pound of nitrogen oxides (NOx) per hour and 0.66 ton of NOx per year  0.12 pound of carbon monoxide (CO) per hour and 0.53 ton of CO per year  0.01 pound of particulate emissions (PE) per hour and 0.05 ton of PE per year  0.02 pound of OC per hour and 0.09 ton of OC per year

2. **Additional Terms and Conditions**

- 2.a None

**B. Operational Restrictions**

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

**C. Monitoring and/or Recordkeeping 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 records of all preventive maintenance activities, inspections, and repairs involving this emissions unit.

**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 report, within 30 days of occurrence, any changes in oven cycle, parameters related to the efficient operation of the oven, and type of materials supplied to the oven that deviate from the conditions present at the April 1, 1994 emission testing of binder burnout oven #1.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:

0.15 pound of NO<sub>x</sub> per hour

Applicable Compliance Method:

Multiply the emission factor of 100 pounds of NO<sub>x</sub> per million cubic feet of natural gas fired (AP-42 Table 1.4-1 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

- b. Emission Limitation:

0.66 ton of NO<sub>x</sub> per year

Applicable Compliance Method:

Multiply the hourly allowable NOx emission limitation by 8760 hours per year, and then divide by 2000.

c. Emission Limitation:

0.12 pound of CO per hour

Applicable Compliance Method:

Multiply the emission factor of 84 pounds of CO per million cubic feet of natural gas fired (AP-42 Table 1.4-1 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

d. Emission Limitation:

0.53 ton of CO per year

Applicable Compliance Method:

Multiply the hourly allowable CO emission limitation by 8760 hours per year, and then divide by 2000.

e. Emission Limitation:

0.01 pound of PE per hour

Applicable Compliance Method:

Multiply the emission factor of 7.6 pounds of PE per million cubic feet of natural gas fired (AP-42 Table 1.4-2 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

f. Emission Limitation:

0.05 ton of PE per year

Applicable Compliance Method:

Multiply the hourly allowable PE emission limitation by 8760 hours per year, and then divide by 2000.

g. Emission Limitation:

0.02 pound of OC per hour

Applicable Compliance Method:

Multiply the emission factor of 11 pounds of OC per million cubic feet of natural gas fired (AP-42 Table 1.4-2 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

- h. Emission Limitation:
- 0.09 ton of OC per year
- Applicable Compliance Method:
- Multiply the hourly allowable OC emission limitation by 8760 hours per year, and then divide by 2000.
- i. Emission Limitation:
- 37.44 pounds of OC per day
- Applicable Compliance Method:
- Stack testing may be required in the future in accordance with the procedures and requirements in Methods 1-4, 18 and 25 of 40 CFR Part 60, Appendix A. The need for stack testing will be determined through facility inspections and/or significant change in oven operations.
- j. Emission Limitation:
- 6.83 tons of OC per year
- Applicable Compliance Method:
- Multiply the hourly allowable OC emission limitation by 8760 hours per year, and then divide by 2000.

## F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the increase in the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

Ohio I

PTI A

Issued: 11/21/2002

Emissions Unit ID: P016

**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>
P016 - 1.5 million Btu/hr natural gas fired oven (The terms and conditions in this permit supercede the terms and conditions in PTI 16-1545 issued on 4/3/1996) - Binder Burnout Oven 4.	OAC rule 3745-31-05(A)(3)	37.44 pounds of organic compounds (OC) per day  6.83 tons of OC per year  Natural gas combustion emissions from the binder burnout oven shall not exceed the following:  0.15 pound of nitrogen oxides (NOx) per hour and 0.66 ton of NOx per year  0.12 pound of carbon monoxide (CO) per hour and 0.53 ton of CO per year  0.01 pound of particulate emissions (PE) per hour and 0.05 ton of PE per year  0.02 pound of OC per hour and 0.09 ton of OC per year

**2. Additional Terms and Conditions****2.a** None

**B. Operational Restrictions**

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

**C. Monitoring and/or Recordkeeping 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 records of all preventive maintenance activities, inspections, and repairs involving this emissions unit.

**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 report, within 30 days of occurrence, any changes in oven cycle, parameters related to the efficient operation of the oven, and type of materials supplied to the oven that deviate from the conditions present at the April 1, 1994 emission testing of binder burnout oven #1.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:

0.15 pound of NO<sub>x</sub> per hour

Applicable Compliance Method:

Multiply the emission factor of 100 pounds of NO<sub>x</sub> per million cubic feet of natural gas fired (AP-42 Table 1.4-1 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

- b. Emission Limitation:

0.66 ton of NO<sub>x</sub> per year

Applicable Compliance Method:

Emissions Unit ID: P016

Multiply the hourly allowable NOx emission limitation by 8760 hours per year, and then divide by 2000.

c. Emission Limitation:

0.12 pound of CO per hour

Applicable Compliance Method:

Multiply the emission factor of 84 pounds of CO per million cubic feet of natural gas fired (AP-42 Table 1.4-1 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

d. Emission Limitation:

0.53 ton of CO per year

Applicable Compliance Method:

Multiply the hourly allowable CO emission limitation by 8760 hours per year, and then divide by 2000.

e. Emission Limitation:

0.01 pound of PE per hour

Applicable Compliance Method:

Multiply the emission factor of 7.6 pounds of PE per million cubic feet of natural gas fired (AP-42 Table 1.4-2 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

f. Emission Limitation:

0.05 ton of PE per year

Applicable Compliance Method:

Multiply the hourly allowable PE emission limitation by 8760 hours per year, and then divide by 2000.

g. Emission Limitation:

0.02 pound of OC per hour

Applicable Compliance Method:

Multiply the emission factor of 11 pounds of OC per million cubic feet of natural gas fired (AP-42 Table 1.4-2 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

- h. Emission Limitation:
- 0.09 ton of OC per year
- Applicable Compliance Method:
- Multiply the hourly allowable OC emission limitation by 8760 hours per year, and then divide by 2000.
- i. Emission Limitation:
- 37.44 pounds of OC per day
- Applicable Compliance Method:
- Stack testing may be required in the future in accordance with the procedures and requirements in Methods 1-4, 18 and 25 of 40 CFR Part 60, Appendix A. The need for stack testing will be determined through facility inspections and/or significant change in oven operations.
- j. Emission Limitation:
- 6.83 tons of OC per year
- Applicable Compliance Method:
- Multiply the hourly allowable OC emission limitation by 8760 hours per year, and then divide by 2000.

## F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the increase in the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

**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>
P018 - 1.5 million Btu/hr natural gas fired oven (The terms and conditions in this permit supercede the terms and conditions in PTI 16-1673 issued on 6/25/1997) - Binder Burnout Oven 5.	OAC rule 3745-31-05(A)(3)	37.44 pounds of organic compounds (OC) per day  6.83 tons of OC per year  Natural gas combustion emissions from the binder burnout oven shall not exceed the following:  0.15 pound of nitrogen oxides (NOx) per hour and 0.66 ton of NOx per year  0.12 pound of carbon monoxide (CO) per hour and 0.53 ton of CO per year  0.01 pound of particulate emissions (PE) per hour and 0.05 ton of PE per year  0.02 pound of OC per hour and 0.09 ton of OC per year

2. **Additional Terms and Conditions**

- 2.a None

**B. Operational Restrictions**

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

**C. Monitoring and/or Recordkeeping 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 records of all preventive maintenance activities, inspections, and repairs involving this emissions unit.

**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 report, within 30 days of occurrence, any changes in oven cycle, parameters related to the efficient operation of the oven, and type of materials supplied to the oven that deviate from the conditions present at the April 1, 1994 emission testing of binder burnout oven #1.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:

0.15 pound of NO<sub>x</sub> per hour

Applicable Compliance Method:

Multiply the emission factor of 100 pounds of NO<sub>x</sub> per million cubic feet of natural gas fired (AP-42 Table 1.4-1 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

- b. Emission Limitation:

0.66 ton of NO<sub>x</sub> per year

Applicable Compliance Method:

Multiply the hourly allowable NO<sub>x</sub> emission limitation by 8760 hours per year, and then divide by 2000.

- c. Emission Limitation:

0.12 pound of CO per hour

Applicable Compliance Method:

Multiply the emission factor of 84 pounds of CO per million cubic feet of natural gas fired (AP-42 Table 1.4-1 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

d. Emission Limitation:

0.53 ton of CO per year

Applicable Compliance Method:

Multiply the hourly allowable CO emission limitation by 8760 hours per year, and then divide by 2000.

e. Emission Limitation:

0.01 pound of PE per hour

Applicable Compliance Method:

Multiply the emission factor of 7.6 pounds of PE per million cubic feet of natural gas fired (AP-42 Table 1.4-2 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

f. Emission Limitation:

0.05 ton of PE per year

Applicable Compliance Method:

Multiply the hourly allowable PE emission limitation by 8760 hours per year, and then divide by 2000.

g. Emission Limitation:

0.02 pound of OC per hour

**Ohio Brass Wadsworth**  
**PTI Application: 16-02257**  
**Issued**

**Facility ID: 1652100011**

Emissions Unit ID: **P018**

Applicable Compliance Method:

Multiply the emission factor of 11 pounds of OC per million cubic feet of natural gas fired (AP-42 Table 1.4-2 dated 7/98) by the emissions unit's maximum hourly combustion rate of natural gas (0.00147 MM cubic feet/hour).

- h. Emission Limitation:
- 0.09 ton of OC per year
- Applicable Compliance Method:
- Multiply the hourly allowable OC emission limitation by 8760 hours per year, and then divide by 2000.
- i. Emission Limitation:
- 37.44 pounds of OC per day
- Applicable Compliance Method:
- Stack testing may be required in the future in accordance with the procedures and requirements in Methods 1-4, 18 and 25 of 40 CFR Part 60, Appendix A. The need for stack testing will be determined through facility inspections and/or significant change in oven operations.
- j. Emission Limitation:
- 6.83 tons of OC per year
- Applicable Compliance Method:
- Multiply the hourly allowable OC emission limitation by 8760 hours per year, and then divide by 2000.

#### F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the increase in the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

**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>
P022 - Electrically powered tube furnace - Calcining Furnace 2.	OAC rule 3745-31-05(A)(3)	4.77 tons of particulate emissions (PE) per year  The visible particulate emissions from the stack shall not exceed 5 percent opacity, as a six-minute average.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11.
	OAC rule 3745-17-07(A)	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 3745-17-11	1.09 pounds of PE per hour

**2. Additional Terms and Conditions**

2.a None

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range established either during the most recent emission test that demonstrated that the emissions unit was in compliance or by the manufacturer's and/or servicing contractor's written recommendation while the emissions unit is in operation.

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

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The deviation reports shall be submitted in accordance with the requirements specified in the General Terms and Conditions.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation:  
  
1.09 pounds of PE per hour  
  
Applicable Compliance Method:  
  
Stack testing may be required in the future in accordance with the procedures and test(s) methods in OAC rule 3745-17-03(B)(10).
  - b. Emission Limitation:  
  
4.77 tons of PE per year

**Ohio Brass Wadsworth**  
**PTI Application: 16-02257**  
**Issued**

**Facility ID: 1652100011**

Emissions Unit ID: **P022**

Applicable Compliance Method:

Multiply the hourly allowable particulate emission limitation by 8760 hours per year, and then divide by 2000.

c. Emission Limitation:

The visible particulate emissions from the stack shall not exceed 5 percent opacity, as a six-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**F. Miscellaneous Requirements**

None