



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: 16-02182**

**DATE: 3/5/2002**

National Metal Abrasive Inc  
Ray Hobson  
142 Auble St  
Wadsworth, OH 44281-1739

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,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

ARAQMD



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**Permit To Install  
Terms and Conditions**

**Issue Date: 3/5/2002  
Effective Date: 3/5/2002**

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**FINAL PERMIT TO INSTALL 16-02182**

Application Number: 16-02182  
APS Premise Number: 1652100044  
Permit Fee: **\$3200**  
Name of Facility: National Metal Abrasive Inc  
Person to Contact: Ray Hobson  
Address: 142 Auble St  
Wadsworth, OH 44281-1739

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

**142 Auble St  
Wadsworth, Ohio**

Description of proposed emissions unit(s):

**Two Air Quench Systems for Metal Shot.**

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 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

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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 thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

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**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	9.25

**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 - No. 501 Hardening Air Quench System	OAC rule 3745-31-05(A)(3)	See A.2.a through A.2.g, and B.1 through B.3 below.
	OAC rule 3745-17-07(A)(1)	See A.2.h below.
	OAC rule 3745-17-08(B)(3)	See A.2.h below.
	OAC rule 3745-17-11	See A.2.h below.

**2. Additional Terms and Conditions**

- 2.a** Combined stack emissions from emissions units P001 (no. 1 hardening furnace) and P012 (no. 501 air quench system) shall not exceed 1.14 pounds of particulate matter per hour nor 5.01 tons of particulate matter per year.
- 2.b** The permittee shall employ best available technology (BAT) to control particulate emissions from this emissions unit. The control technology shall include the following:
- i. the employment of a properly installed fabric filter, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate matter from emissions units P001, P008, P012, and P013; and
  - ii. the employment of properly installed hoods, ducts, fans, a settling chamber, and other equipment, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately enclose, contain, capture, and vent particulate emissions to the fabric filter.
- 2.c** The permittee shall implement a preventive maintenance and malfunction abatement plan for the fabric filter which is designed to prevent, detect, and correct malfunctions or equipment failures which could result in emissions exceeding any applicable law. The

preventive maintenance and malfunction abatement plan shall be in writing and include the following:

- i. a comprehensive preventive maintenance program, including a description of the items or conditions that will be inspected, the frequency of these inspections or repairs, and an identification of the types and quantities of the replacement parts which will be maintained in inventory for quick replacement;
  - ii. an identification of the source and operating outlet variables of the air pollution control equipment that will be monitored in order to detect a malfunction or failure, the normal operating range of these variables, and a description of the monitoring or surveillance procedures and of the method of informing operating personnel of any malfunction, including alarm systems, lights and/or other indicators; and,
  - iii. a description of the corrective procedures that will be taken in the event of a malfunction or failure in order to achieve compliance with any applicable law as expeditiously as practical.
- 2.d** The permittee shall maintain operation and maintenance records to demonstrate that any preventive maintenance and malfunction abatement plan is fully implemented.
- 2.e** The Ohio EPA or local air agency retains the right to require the permittee to modify the preventive maintenance and malfunction abatement plan, should operating experience show that modification is necessary.
- 2.f** Visible particulate emissions from the fabric filter stacks shall not exceed 1% opacity as a 6-minute average.
- 2.g** The permittee shall not allow any visible particulate emissions from the ventilation system, doors or windows of the building enclosing this emissions unit.
- 2.h** The particulate emission limitations required by OAC rules 3745-17-07, 3745-17-08, and 3745-17-11 are less stringent than the particulate emission limitations specified as best available technology.

## **B. Operational Restrictions**

1. The exhaust of emissions unit P001 shall be vented through emissions unit P012.

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Emissions Unit ID: P012

2. Metal shot processing in emissions unit P012 shall not exceed 3.25 tons per hour.
3. The fabric filter shall be employed at all times when the emissions unit is in operation.

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

1. The permittee shall maintain daily records of the following information:
  - a. the metal shot process rate for this emissions unit and the total metal shot process rate for the facility, in tons;
  - b. the hours of operation for this emissions unit; and
  - c. the average metal shot process rate for the facility, in tons per hour.
2. The permittee shall perform two daily checks (one in the morning and one in the afternoon) of at least fifteen minutes in duration per check, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the fabric filter serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

**D. Reporting Requirements**

1. The permittee shall submit metal shot process rate deviation (excursion) reports that identify all periods of time during which metal shot production exceeded the allowable rate specified above.
2. The deviation (excursion) reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.2 of this permit.
3. The permittee shall submit quarterly written reports which (a) identify all days, periods, and duration of incidents during which any visible particulate emissions were observed from the fabric filter serving this emissions unit; (b) the color of the emissions; (c) whether the emissions are

representative of normal operations; (d) if the emissions are not representative of normal operations, the cause of the abnormal emissions; and (e) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31, April 30, July 31, October 31 of each year and shall cover the previous 3-month period.

#### **E. Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 12 months prior to issuance of this permit.
  - b. The emission testing shall be conducted to demonstrate compliance with the applicable mass emission rate limitations for particulates.
  - c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rates for particulates: Method 5 of 40 CFR Part 60. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.
  - d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
  - e. Not later than 30 days prior to the proposed tests date, 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 and date of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.
  - f. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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.
  - g. A comprehensive written report on the results of the emissions tests shall be signed by the

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**Issued**

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Emissions Unit ID: P012

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 tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

2. Compliance with the emission rate limitations in section A.2 of these terms and conditions shall be determined in accordance with the following methods (if applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA):

a. Emission Limitation:

Combined stack emissions from emissions units P001 (no. 1 hardening furnace) and P012 (no. 501 air quench system) shall not exceed 1.14 pounds of particulate matter per hour nor 5.01 tons of particulate matter per year.

Applicable Compliance Method:

For the short term emission rate, compliance shall be determined by stack testing in accordance with OAC rule 3745-17-03(B)(10).

The 5.01 tons/year limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 8,760 hours/year and dividing by the conversion factor of 2000 pounds per ton. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 1.14 pound per hour emission limitation, divided by 2,000 pounds per ton.

b. Emission Limitation:

Visible particulate emissions from the fabric filter stacks shall not exceed 1% opacity as a 6-minute average.

Applicable Compliance Method:

If required, this facility shall conduct visible emission tests in order to demonstrate compliance with the opacity limitations as set forth in Section A above. The visible emission test shall be conducted in accordance with the methods and procedures specified in 40 CFR Part 60 Appendix A, Reference Method 9.

c. Emission Limitation:

The permittee shall not allow any visible particulate emissions from the ventilation system, doors or windows of the building enclosing this emissions unit.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

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**Nation**

**PTI A**

**Issued: 3/5/2002**

Emissions Unit ID: P012

**F. Miscellaneous Requirements**

1. The permittee shall comply with any applicable State and federal requirements governing the storage, treatment, transport, and disposal of any waste material generated by the operation of the emissions unit.
2. The permittee is hereby notified that this permit, and all agency records concerning the operation of this permitted emissions unit are subject to public disclosure in accordance with OAC rule 3745-49-03.

**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 - No. 502 Hardening Air Quenching System	OAC rule 3745-31-05(A)(3)	See A.2.a through A.2.g, and B.1 through B.3 below.
	OAC rule 3745-17-07(A)(1)	See A.2.h below.
	OAC rule 3745-17-08(B)(3)	See A.2.h below.
	OAC rule 3745-17-11	See A.2.h below.

**2. Additional Terms and Conditions**

- 2.a Combined stack emissions from emissions units P008 (no. 2 hardening furnace) and P013 (no. 502 air quench system) shall not exceed 0.97 pound of particulate matter per hour nor 4.24 tons of particulate matter per year.
- 2.b The permittee shall employ best available technology (BAT) to control particulate emissions from this emissions unit. The control technology shall include the following:
  - i. the employment of a properly installed fabric filter, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate matter from emissions units P001, P008, P012, and P013; and
  - ii. the employment of properly installed hoods, ducts, fans, a settling chamber, and other equipment, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately enclose, contain, capture, and

vent particulate emissions to the fabric filter.

- 2.c** The permittee shall implement a preventive maintenance and malfunction abatement plan for the fabric filter which is designed to prevent, detect, and correct malfunctions or equipment failures which could result in emissions exceeding any applicable law. The preventive maintenance and malfunction abatement plan shall be in writing and include the following:
- i. a comprehensive preventive maintenance program, including a description of the items or conditions that will be inspected, the frequency of these inspections or repairs, and an identification of the types and quantities of the replacement parts which will be maintained in inventory for quick replacement;
  - ii. an identification of the source and operating outlet variables of the air pollution control equipment that will be monitored in order to detect a malfunction or failure, the normal operating range of these variables, and a description of the monitoring or surveillance procedures and of the method of informing operating personnel of any malfunction, including alarm systems, lights and/or other indicators; and,
  - iii. a description of the corrective procedures that will be taken in the event of a malfunction or failure in order to achieve compliance with any applicable law as expeditiously as practical.
- 2.d** The permittee shall maintain operation and maintenance records to demonstrate that any preventive maintenance and malfunction abatement plan is fully implemented.
- 2.e** The Ohio EPA or local air agency retains the right to require the permittee to modify the preventive maintenance and malfunction abatement plan, should operating experience show that modification is necessary.
- 2.f** Visible particulate emissions from the fabric filter stacks shall not exceed 1% opacity as a 6-minute average.
- 2.g** The permittee shall not allow any visible particulate emissions from the ventilation system, doors or windows of the building enclosing this emissions unit.
- 2.h** The particulate emission limitations required by OAC rules 3745-17-07, 3745-17-08, and 3745-17-11 are less stringent than the particulate emission limitations specified as best available technology.

## **B. Operational Restrictions**

1. The exhaust of emissions unit P008 shall be vented through emissions unit P013.

2. Metal shot processing in emissions unit P013 shall not exceed 2.75 tons per hour.
3. The fabric filter shall be employed at all times when the emissions unit is in operation.

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

1. The permittee shall maintain daily records of the following information:
  - a. the metal shot process rate for this emissions unit and the total metal shot process rate for the facility, in tons;
  - b. the hours of operation for this emissions unit; and
  - c. the average metal shot process rate for the facility, in tons per hour.
2. The permittee shall perform two daily checks (one in the morning and one in the afternoon) of at least fifteen minutes in duration per check, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the fabric filter serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

**D. Reporting Requirements**

1. The permittee shall submit metal shot process rate deviation (excursion) reports that identify all periods of time during which metal shot production exceeded the allowable rate specified above.
2. The deviation (excursion) reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.2 of this permit.
3. The permittee shall submit quarterly written reports which (a) identify all days, periods, and duration of incidents during which any visible particulate emissions were observed from the fabric filter serving this emissions unit; (b) the color of the emissions; (c) whether the emissions are

Emissions Unit ID: **P013**

representative of normal operations; (d) if the emissions are not representative of normal operations, the cause of the abnormal emissions; and (e) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31, April 30, July 31, October 31 of each year and shall cover the previous 3-month period.

## **E. Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 12 months prior to issuance of this permit.
  - b. The emission testing shall be conducted to demonstrate compliance with the applicable mass emission rate limitations for particulates.
  - c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rates for particulates: Method 5 of 40 CFR Part 60. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.
  - d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
  - e. Not later than 30 days prior to the proposed tests date, 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 and date of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.
  - f. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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.
  - g. A comprehensive written report on the results of the emissions tests 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 tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air

agency.

2. Compliance with the emission rate limitations in section A.2 of these terms and conditions shall be determined in accordance with the following methods (if applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA):

a. Emission Limitation:

Combined stack emissions from emissions units P008 (no. 2 hardening furnace) and P013 (no. 502 air quench system) shall not exceed 0.97 pound of particulate matter per hour nor 4.24 tons of particulate matter per year.

Applicable Compliance Method:

For the short term emission rate, compliance shall be determined by stack testing in accordance with OAC rule 3745-17-03(B)(10).

The 4.24 tons/year limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 8,760 hours/year and dividing by the conversion factor of 2000 pounds per ton. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 0.97 pound per hour emission limitation, divided by 2,000 pounds per ton.

b. Emission Limitation:

Visible particulate emissions from the fabric filter stacks shall not exceed 1% opacity as a 6-minute average.

Applicable Compliance Method:

If required, this facility shall conduct visible emission tests in order to demonstrate compliance with the opacity limitations as set forth in Section A above. The visible emission test shall be conducted in accordance with the methods and procedures specified in 40 CFR Part 60 Appendix A, Reference Method 9.

c. Emission Limitation:

The permittee shall not allow any visible particulate emissions from the ventilation system, doors or windows of the building enclosing this emissions unit.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

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**Issued**

**Facility ID: 1652100044**

Emissions Unit ID: **P013**

**F. Miscellaneous Requirements**

1. The permittee shall comply with any applicable State and federal requirements governing the storage, treatment, transport, and disposal of any waste material generated by the operation of the emissions unit.
2. The permittee is hereby notified that this permit, and all agency records concerning the operation of this permitted emissions unit are subject to public disclosure in accordance with OAC rule 3745-49-03.