



John R. Kasich, Governor
 Mary Taylor, Lt. Governor
 Craig W. Butler, Director

12/23/2015

Bradley Ahbe
 Canton Drop Forge
 4575 Southway Street S.W.
 Canton, OH 44706-1995

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL
 Facility ID: 1576000073
 Permit Number: P0120066
 Permit Type: Administrative Modification
 County: Stark

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
Yes	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	MAJOR GHG
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
 77 South High Street, 17th Floor
 Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging 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 Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

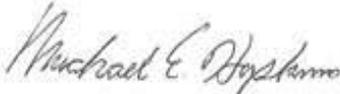
Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Canton City Health Department at (330)489-3385 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael E. Hopkins, P.E.
Assistant Chief, Permitting Section, DAPC

Cc: U.S. EPA
Canton; Pennsylvania; West Virginia



FINAL

**Division of Air Pollution Control
Permit-to-Install
for
Canton Drop Forge**

Facility ID:	1576000073
Permit Number:	P0120066
Permit Type:	Administrative Modification
Issued:	12/23/2015
Effective:	12/23/2015



Division of Air Pollution Control
Permit-to-Install
for
Canton Drop Forge

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Final Permit-to-Install
Canton Drop Forge
Permit Number: P0120066
Facility ID: 1576000073
Effective Date: 12/23/2015

Authorization

Facility ID: 1576000073
Facility Description: Steel forging operation using forge hammers
Application Number(s): M0003726, M0003750
Permit Number: P0120066
Permit Description: Administrative modification for shotblast (P045) and blast room (P051) PTIs to designate voluntary restrictions as State-only enforceable and to re-express BAT.
Permit Type: Administrative Modification
Permit Fee: \$0.00
Issue Date: 12/23/2015
Effective Date: 12/23/2015

This document constitutes issuance to:

Canton Drop Forge
4575 Southway Street S.W.
Canton, OH 44706-1995

of a Permit-to-Install for the emissions unit(s) identified on the following page.

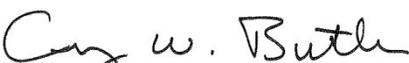
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Canton City Health Department
420 Market Avenue
Canton, OH 44702-1544
(330)489-3385

The above named entity is hereby granted a Permit-to-Install for the emissions unit(s) listed in this section 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 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


Craig W. Butler
Director



Final Permit-to-Install
Canton Drop Forge
Permit Number: P0120066
Facility ID: 1576000073
Effective Date: 12/23/2015

Authorization (continued)

Permit Number: P0120066

Permit Description: Administrative modification for shotblast (P045) and blast room (P051) PTIs to designate voluntary restrictions as State-only enforceable and to re-express BAT.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	P045
Company Equipment ID:	Shot Blaster OB11
Superseded Permit Number:	15-01645
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P051
Company Equipment ID:	Blast Room (OB17)
Superseded Permit Number:	P0110558
General Permit Category and Type:	Not Applicable



Final Permit-to-Install
Canton Drop Forge
Permit Number: P0120066
Facility ID: 1576000073
Effective Date: 12/23/2015

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
 - (1) Standard Term and Condition A.2.a), Severability Clause
 - (2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements
 - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
 - (4) Standard Term and Condition A.9., Reporting Requirements
 - (5) Standard Term and Condition A.10., Applicability
 - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
 - (7) Standard Term and Condition A.14., Public Disclosure
 - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (9) Standard Term and Condition A.16., Fees
 - (10) Standard Term and Condition A.17., Permit Transfers

2. Severability Clause

- a) A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

3. General Requirements

- a) Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification.

- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) 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 or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

4. Monitoring and Related Record Keeping and Reporting Requirements

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) The operating conditions existing at the time of sampling or measurement.
- b) 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.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Canton City Health Department.

- (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Canton City Health Department. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.
 - (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the Canton City Health Department every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - (4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

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, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Canton City Health Department in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

6. Compliance Requirements

- a) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the appropriate Ohio EPA District Office or contracted

local air agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the electronic signature date shall constitute the date that the required application, notification or report is considered to be "submitted". Any document requiring signature may be represented by entry of the personal identification number (PIN) by responsible official as part of the electronic submission process or by the scanned attestation document signed by the Authorized Representative that is attached to the electronically submitted written report.

Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a Responsible Official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
- (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c) The permittee shall submit progress reports to the Canton City Health Department concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

7. Best Available Technology

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

8. 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.

9. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Canton City Health Department.
- 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 state-only required 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 Canton City Health Department. 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, 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.)

10. 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) not exempt from the requirement to obtain a Permit-to-Install.

11. Construction of New Sources(s) and Authorization to Install

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. 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 this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit 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.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. 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 permittee shows good cause for any such extension.

- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update electronically will constitute notifying the Director of the permanent shutdown of the affected emissions unit(s).
- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

Unless otherwise exempted, no emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31 and OAC Chapter 3745-77 if the restarted operation is subject to one or more applicable requirements.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if operation of the proposed new or modified source(s) as authorized by this permit would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d) must be obtained before operating the source in a manner that would violate the existing Title V permit requirements.

13. Construction Compliance Certification

The applicant shall identify the following dates in the "Air Services" facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

14. 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.

15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

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 by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

16. 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 any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

17. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in "Air Services" once the transfer is legally completed. The change must be submitted through "Air Services" within thirty days of the ownership transfer date.

18. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

19. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.



Final Permit-to-Install
Canton Drop Forge
Permit Number: P0120066
Facility ID: 1576000073
Effective Date: 12/23/2015

B. Facility-Wide Terms and Conditions



Final Permit-to-Install
Canton Drop Forge
Permit Number: P0120066
Facility ID: 1576000073
Effective Date: 12/23/2015

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) None.
2. Ohio EPA has determined that the requirements of area source MACT (also known as a GACT), rule 40 CFR Part 63, Subpart XXXXXX, may apply to the emissions unit contained in this permit (P045 and P051). At this time, Ohio EPA does not have the authority to enforce this rule. Instead, please be advised that all requirements associated with this rule are in effect and enforceable by U.S. EPA. The complete MACT/GACT requirements, including General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District Office or local air agency.



Final Permit-to-Install
Canton Drop Forge
Permit Number: P0120066
Facility ID: 1576000073
Effective Date: 12/23/2015

C. Emissions Unit Terms and Conditions

1. P045, Shot Blaster OB11

Operations, Property and/or Equipment Description:

Shot Blaster OB11 - Wheelabrator Super II Tumblast shot cleaner, 34 cubic feet, with a maximum process weight rate of 12.5 tons per hour controlled by a baghouse (SB2).

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) b)(1)b and b)(1)c.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) June 30, 2008 (Administrative modification to re-express BAT that was originally established in PTI 15-01645 issued on 12/05/2006 per 02/07/2014 BAT policy)	The Best Available Technology (BAT) requirements have been determined to be equivalent to 40 CFR Part 63, Subpart XXXXXX (40 CFR 63.11514 – 63.11523) See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii) June 30, 2008 (Administrative modification to re-express BAT that was originally established in PTI 15-01645 issued on 12/05/2006 per 02/07/2014 BAT policy for the less than 10 tpy BAT exemption)	The Best Available Technology (BAT) requirements under OAC rule 3745-31-03(A)(3) do not apply to PM ₁₀ from this air contaminant source since the calculated annual emission rate is less than 10 tons/yr taking into account the voluntary restriction from OAC rule 3745-31-05(E) See b)(2)b.
c.	OAC rule 3745-31-05(E) June 30, 2008 (Voluntary Restrictions to avoid BAT originally established in PTI 15-01645 issued on 12/05/2006 and unchanged in this administrative modification PTI)	The minimum control efficiency of the fabric filter dust collection device (baghouse) shall be 99.0%. This emission unit shall operate with 100% capture efficiency. See c)(1).

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	40 CFR Part 63, Subpart XXXXXX (40 CFR 63.11514 – 63.11523) [In accordance with 40 CFR 63.11514, this emissions unit is an existing affected source engaged in the production of iron and steel forgings.]	This emission unit shall comply with all the applicable requirements of 40 CFR Part 63, Subpart XXXXXX See b)(2)c.
e.	40 CFR Part 63, Subpart A (40 CFR 63.1-16)	Table 1 to Subpart XXXXXX of 40 CFR Part 63 – Applicability of General Provisions
f.	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
g.	OAC rule 3745-17-11(B)	17.7 lbs PE per hour This emissions limitation established by this rule is less stringent than the emissions as a result of the control requirements established by OAC rule 3745-31-05(E).

(2) Additional Terms and Conditions

- a. This Best Available Technology (BAT) emission limit applies until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- b. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.
- c. The permittee shall comply with the applicable requirements under 40 CFR Part 63, Subpart XXXXXX, including the following sections:

63.11516(a)(2)(i)-(ii)	You must capture emissions and vent them to a filtration control device. You must operate the filtration control device according to manufacturer's instructions, and you must demonstrate compliance with this requirement by maintaining a record of the manufacturer's specifications for the filtration control devices
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	You must implement the management practices to minimize emissions of MFHAP as specified in paragraphs (a)(2)(ii)(A) through (C) of this section.
63.11516(a)(2)(ii)(A)	Implement measures necessary to minimize excess dust in the surrounding area to reduce MFHAP emissions
63.11516(a)(2)(ii)(B)	Enclose dusty abrasive material storage areas and holding bins, seal chutes and conveyors that transport abrasive materials
63.11516(a)(2)(ii)(C)	Operate all equipment associated with dry abrasive blasting operations according to manufacturer's instructions

c) Operational Restrictions

- (1) The emissions from this emissions unit shall be vented to a baghouse at all times the emissions unit is in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall record any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouse.
- (2) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable range established for the pressure drop across the baghouse is between 0.5 to 8 inches of water, when the emissions unit is in operation.
- (3) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit is in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a weekly basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee subject to approval by the Canton City Health Department, Air Pollution Control Division (CCHD, APCD). The acceptable pressure drop is contained in d)(2) above.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;

- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the Canton City Health Department, Air Pollution Control Division (CCHD, APCD). The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrates compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

- (4) The permittee shall perform weekly checks, when the emissions unit is in operation and, when the weather conditions allow, for any visible particulate emissions from the exhaust stack and for any visible emissions of fugitive dust from this emissions unit and/or the area immediately above the capture system serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed from any points of capture and/or the stack, 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (5) The permittee shall comply with the applicable requirements under 40 CFR Part 63, Subpart XXXXXX, including the following sections:

63.11519(c)(1)	Each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report. Records of the applicability determinations as in §63.11514(b)(1) through (5).
63.11519(c)(4)	Maintain a record of the manufacturer's specifications for the control devices used to comply with §63.11516(a)(2)
63.11519(c)(13)	Maintain a record of the manufacturer's instructions for the equipment operated used to comply with §63.11516(a)(2)(ii)(B)

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the range specified by d)(1);

- b. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouse;
- c. each incident of deviation described in “a” (above) where a prompt investigation was not conducted;
- d. each incident of deviation described in “a” where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
- e. each incident of deviation described in “a” where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of Part A. Standard Terms and Conditions of this permit.

(3) The permittee shall submit semiannual reports that identify:

- a. all days during which any visible emissions of fugitive dust were observed from this emissions unit and/or the area immediately above the capture system serving this emissions unit;
- b. all days during which any visible particulate emissions were observed from the stack serving this emission unit; and
- c. any corrective actions taken eliminate the visible emissions.

The semiannual reports shall be submitted in accordance with the reporting requirements of Part A. Standard Terms and Conditions of this permit.

(4) The permittee shall comply with the applicable reporting requirements listed in 40 CFR Part 63, Subpart XXXXXX in §63.11519(a) and (b).

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation

17.7 lbs PE per hour

Applicable Compliance Method

The uncontrolled mass rate of emissions (UMRE) shall be used to determine the allowable emission limitation from Figure II of OAC rule 3745-17-11. The UMRE was calculated using an emission factor of 16.0 pound filterable particulate per ton of metal produced for shot blasting (captured and uncontrolled) found in

“Emission Estimation Protocol for Iron and Steel Foundries” by RTI International dated December, 2012 in Table 6-2.

Multiplying this factor by the maximum process weight rate of 12.5 tons steel processed gives a total UMRE of 200 pounds per hour of particulates. Using Figure II, the allowable emission rate (A) in pounds per hour is determined from curve P1 and the following equation:

$$A = 0.5782 \times (U)^{0.6456} = 0.5782 \times (200)^{0.6456} = 17.7 \text{ lb PE /hr}$$

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC Rule 3745-17-03(B)(10). Otherwise, compliance shall be demonstrated by the absence of any visible particulate emissions from the baghouse serving this emissions unit performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

b. Emission Limitation

The minimum control efficiency of the fabric filter dust collection device (baghouse) shall be 99.0%. This emission unit shall operate with 100% capture efficiency.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance through emission testing performed in accordance with 40 CFR Part 60, Subpart A or an alternative method approved by the Canton City Health Department, Air Pollution Control Division (CCHD, APCD) for monitoring the inlet and outlet of the baghouse servicing this emission unit.

c. Emission Limitation

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

Applicable Compliance Method

If required, compliance shall be demonstrated through visible particulate emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B).

g) Miscellaneous Requirements

- (1) None.

2. P051, Blast Room (OB16)

Operations, Property and/or Equipment Description:

8.25 tpy Pangborn shot blaster enclosed in a blast room having 100% capture efficiency and exhausting to an 8500 acfm cartridge filter type baghouse.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) b)(1)b. and b)(1)c.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) June 30, 2008 (Administrative modification to re-express BAT that was originally established in PTI P0110558 issued 09/06/2012 per 02/07/2014 BAT policy)	The Best Available Technology (BAT) requirements have been determined to be equivalent to 40 CFR Part 63, Subpart XXXXXX (40 CFR 63.11514 – 63.11523) See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii) June 30, 2008 (PTI P0110558 issued 09/06/2012) [Less than 10 tpy BAT exemption]	The Best Available Technology (BAT) requirements under OAC rule 3745-31-03(A)(3) do not apply to PM ₁₀ from this air contaminant source since the calculated annual emission rate is less than 10 tons/yr taking into account the voluntary restriction from OAC rule 3745-31-05(E) See b)(2)b.
c.	OAC rule 3745-31-05(E) June 30, 2008 (Voluntary Restrictions originally established in PTI P0110558 issued 09/06/2012 and unchanged in this administrative modification PTI)	Install a shot blast enclosure with 100% capture efficiency exhausting to a baghouse with an outlet grain loading not to exceed 0.01 grains/dscf of particulate. Particulate emissions which are less than 10 microns in diameter (PM ₁₀) from the baghouse stack shall not exceed 0.73 lbs/hr and 3.20 tons/yr.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>Visible particulate emissions (VE) from the stack serving this emissions unit shall not exceed 5% opacity as a six-minute average.</p> <p>There shall be no visible emissions of fugitive dust emitted from this emissions unit and/or the area immediately above the capture system serving this emissions unit.</p> <p>See c)(1).</p>
d.	40 CFR Part 63, Subpart A (40 CFR 63.1-16)	Table 1 to Subpart XXXXXX of 40 CFR Part 63 – Applicability of General Provisions
e.	<p>40 CFR Part 63, Subpart XXXXXX (40 CFR 63.11514 – 63.11523)</p> <p>[In accordance with 40 CFR 63.11514, this emissions unit is an existing affected source engaged in the production of iron and steel forgings that conducts dry abrasive blasting.]</p>	<p>This emission unit shall comply with all the applicable requirements of 40 CFR Part 63, Subpart XXXXXX</p> <p>See b)(2)c. and c)(1).</p>
f.	OAC rule 3745-17-07(A)	<p>Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.</p> <p>These emission limitations specified by this rule is less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(E).</p>
g.	OAC rule 3745-17-07(B)	<p>Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.</p> <p>This emission limitation specified by this rule is less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(E).</p>
h.	OAC rule 3745-17-08(B)	The permittee shall minimize or eliminate visible fugitive particulate through the employment of reasonably available control measures (RACM).

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		This limitation specified by this rule is less stringent than the limitations established pursuant to OAC rule 3745-31-05(E) and 40 CFR Part 63, Subpart XXXXXX
i.	OAC rule 3745-17-11(B)	13.5 lbs PE/hr This emission limitation specified by this rule is less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(E).

(2) Additional Terms and Conditions

- a. This Best Available Technology (BAT) emission limit applies until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- b. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.
- c. The permittee shall comply with the applicable requirements under 40 CFR Part 63, Subpart XXXXXX, including the following sections:

63.11516(a)(2)(i)-(ii)	You must capture emissions and vent them to a filtration control device. You must operate the filtration control device according to manufacturer's instructions, and you must demonstrate compliance with this requirement by maintaining a record of the manufacturer's specifications for the filtration control devices You must implement the management practices to minimize emissions of MFHAP as specified in paragraphs (a)(2)(ii)(A) through (C) of this section.
63.11516(a)(2)(ii)(A)	Implement measures necessary to minimize excess dust in the surrounding area to reduce MFHAP emissions
63.11516(a)(2)(ii)(B)	Enclose dusty abrasive material storage areas and holding bins, seal chutes and conveyors that transport abrasive materials

63.11516(a)(2)(ii)(C)	Operate all equipment associated with dry abrasive blasting operations according to manufacturer's instructions
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c) Operational Restrictions

- (1) The emissions from this emissions unit shall be vented to a baghouse at all times the emissions unit is in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall record any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouse.
- (2) The acceptable range for the pressure drop across the baghouse is 1.0 to 6.0 inches of water, which is based upon the manufacturer's specification.
- (3) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit is in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a weekly basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee subject to approval by the Canton City Health Department, Air Pollution Control Division (CCHD, APCD). The acceptable pressure drop is contained in d)(2) above.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the CCHD, APCD. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrates compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

- (4) The permittee shall perform weekly checks, when the emissions unit is in operation and, when the weather conditions allow, for any visible particulate emissions from the exhaust stack and for any visible emissions of fugitive dust from this emissions unit and/or the area immediately above the capture system serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed from any points of capture and/or the stack, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
- (5) The permittee shall comply with the applicable requirements under 40 CFR Part 63, Subpart XXXXXX, including the following sections:

63.11519(c)(1)	Each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report. Records of the applicability determinations as in §63.11514(b)(1) through (5).
63.11519(c)(4)	Maintain a record of the manufacturer's specifications for the control devices used to comply with §63.11516(a)(2)

63.11519(c)(13)	Maintain a record of the manufacturer's instructions for the equipment operated used to comply with §63.11516(a)(2)(ii)(B)
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e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the range specified by d)(1);
 - b. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouse;
 - c. each incident of deviation described in "a" (above) where a prompt investigation was not conducted;
 - d. each incident of deviation described in "a" where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
 - e. each incident of deviation described in "a" where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of Part A. Standard Terms and Conditions of this permit.

- (3) The permittee shall submit semiannual reports that identify:
 - a. all days during which any visible emissions of fugitive dust were observed from this emissions unit and/or the area immediately above the capture system serving this emissions unit;
 - b. all days during which any visible particulate emissions were observed from the stack serving this emission unit; and
 - c. any corrective actions taken eliminate the visible emissions.

The semiannual reports shall be submitted in accordance with the reporting requirements of Part A. Standard Terms and Conditions of this permit.

- (4) The permittee shall comply with the applicable reporting requirements listed in 40 CFR Part 63, Subpart XXXXXX in §63.11519(a) and (b).

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation

A shot blast enclosure with 100% capture efficiency exhausting to a baghouse with an outlet grain loading not to exceed 0.01 grains/dscf.

Applicable Compliance Method

The baghouse's maximum outlet grain loading of 0.01 gr/dscf is based on manufacturer's specifications.

b. Emission Limitation

PM₁₀ emissions from the baghouse stack shall not exceed 0.73 lbs/hr and 3.20 tons/yr.

Applicable Compliance Method

The hourly emissions limitation was established by multiplying the baghouse manufacturers specified maximum outlet grain loading of 0.01 gr/dscf by the baghouse design flow rate as shown below:

$$0.01 \text{ gr/dscf} \times 8500 \text{ dscf/min} \times 60 \text{ min/hr} \div 7000 \text{ gr/lb} = 0.73 \text{ lbs PM}_{10}/\text{hr}$$

The ton per year emission limitation was established by multiplying the hourly PM₁₀ emission limitation by the maximum annual hours of operation, and then converting to tons, as shown below:

$$0.73 \text{ lbs PM}_{10}/\text{hr} \times 8760 \text{ hrs/yr} \div 2000 \text{ lbs/ton} = 3.20 \text{ tons PM}_{10}/\text{yr}$$

Therefore, if compliance is shown with the hourly emission limitation, compliance shall also be shown with the annual emission limitation.

If required, compliance with the hourly emissions limitation shall be demonstrated through emissions testing performed in accordance with U.S. EPA Method 5 of 40 CFR Part 60, Appendix A.

c. Emission Limitation

Visible particulate emissions (VE) from the stack serving this emissions unit shall not exceed 5% opacity as a six-minute average.

Applicable Compliance Method

If required, compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9 of 40 CFR Part 60, Appendix A.

d. Emission Limitation

There shall be no visible emissions of fugitive dust emitted from this emissions unit and/or the area immediately above the capture system serving this emissions unit.

Applicable Compliance Method

If required, compliance with the visible emissions limitation of fugitive dust shall be determined in accordance with U.S. EPA Method 22 of 40 CFR Part 60, Appendix A.

e. Emission Limitation

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

Applicable Compliance Method

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

f. Emission Limitation

Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method

If required, compliance shall be demonstrated based upon visible particulate emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

g. Emission Limitation

13.5 lbs PE/hr

Applicable Compliance Method

The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Therefore, the allowable particulate emission limitation was determined from Figure II, based on the UMRE of 11.4 which is more stringent than value from Table 1.

$$\text{UMRE} = \text{EF} \times \text{PWR} = 16.0 \times 8.25 = 132.0 \text{ lbs/hr}$$

Where,

EF = emission factor = 16.0 pound filterable particulate per ton of metal produced for shot blasting or sand blasting (captured and uncontrolled) found in "Emission Estimation Protocol for Iron and Steel Foundries" by RTI International dated December, 2012 in Table 6-2.

PWR = process weight rate in tons/hr is equal to 8.25

Using Fig. II, with uncontrolled emissions of 132.0 lb/hr, and reading Curve P-1.

$$A = 0.5782 \times (U^{0.6456}), \text{ where "U" is the UMRE}$$

$$A = 0.5782 \times (132.0^{0.6456}) = 13.5 \text{ lbs/hr}$$

The maximum allowable particulate emission rate (A) = 13.5 lb/hr.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC Rule 3745-17-03(B)(10).

- g) Miscellaneous Requirements
 - (1) None.