



12/11/2013

Certified Mail

Jeff Mount
Kenton Iron Products Vision Drive Facility
347 Vine Street
Kenton, OH 43326

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
Yes	SYNTHETIC MINOR TO AVOID TITLE V
Yes	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0333010042
Permit Number: P0105338
Permit Type: Renewal
County: Hardin

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. 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 PTIO 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 Ohio EPA DAPC, Northwest District Office at (419)352-8461 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael W. Ahern, Manager

Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-NWDO



FINAL

Division of Air Pollution Control
Permit-to-Install and Operate
for
Kenton Iron Products Vision Drive Facility

Facility ID:	0333010042
Permit Number:	P0105338
Permit Type:	Renewal
Issued:	12/11/2013
Effective:	12/11/2013
Expiration:	9/15/2015



Division of Air Pollution Control
Permit-to-Install and Operate
for
Kenton Iron Products Vision Drive Facility

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Final Permit-to-Install and Operate
Kenton Iron Products Vision Drive Facility
Permit Number: P0105338
Facility ID: 0333010042
Effective Date: 12/11/2013

Authorization

Facility ID: 0333010042
Application Number(s): A0038164, A0038166, A0038167
Permit Number: P0105338
Permit Description: Renewal permit for 7 existing foundry operations.
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 12/11/2013
Effective Date: 12/11/2013
Expiration Date: 9/15/2015
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Kenton Iron Products Vision Drive Facility
13917 Vision Drive
Kenton, OH 43326

of a Permit-to-Install and Operate 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:

Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419)352-8461

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (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 described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Scott J. Nally
Director



Authorization (continued)

Permit Number: P0105338
 Permit Description: Renewal permit for 7 existing foundry operations.

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

Emissions Unit ID:	F001
Company Equipment ID:	Induction Furnaces
Superseded Permit Number:	03-17197
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F002
Company Equipment ID:	Casting/Pouring
Superseded Permit Number:	03-17197
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F003
Company Equipment ID:	Casting Shakeout
Superseded Permit Number:	03-17197
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F007
Company Equipment ID:	Cutting/Grinding
Superseded Permit Number:	03-17197
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P001
Company Equipment ID:	Mold/Core Wash
Superseded Permit Number:	03-17197
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P003
Company Equipment ID:	Sand Storage Silo
Superseded Permit Number:	03-17197
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P004
Company Equipment ID:	Sand Handling System
Superseded Permit Number:	03-17447
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
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Permit Number: P0105338
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A. Standard Terms and Conditions



1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is



very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions of this permit will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.



10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the [DO/LAA] in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means 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.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the



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Kenton Iron Products Vision Drive Facility
Permit Number: P0105338
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change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



Final Permit-to-Install and Operate
Kenton Iron Products Vision Drive Facility
Permit Number: P0105338
Facility ID: 0333010042
Effective Date: 12/11/2013

B. Facility-Wide Terms and Conditions



1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.
2. 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 District Office or 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 required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.



Final Permit-to-Install and Operate
Kenton Iron Products Vision Drive Facility
Permit Number: P0105338
Facility ID: 0333010042
Effective Date: 12/11/2013

C. Emissions Unit Terms and Conditions



1. F001, Induction Furnaces

Operations, Property and/or Equipment Description:

Two Inductotherm 1.875 ton induction furnaces for gray and ductile iron: charging, melting, tapping and inoculation

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. b)(1)b., c)(1) and c)(2), d)(1), e)(1), f)(1)a.,

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 3745-31-05(A)(3)	Visible fugitive particulate emissions shall not exceed 20% opacity as a three-minute average from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. See b)(2)a.
b.	OAC rule 3745-31-05(D)	Particulate emissions (PE) shall not exceed 6.76 tons per rolling 12-month period See c)(1) and c)(2)
c.	OAC rule 3745-17-07(B)	See b)(2)b.
d.	OAC rule 3745-17-08(B)	See b)(2)c.



- (2) Additional Terms and Conditions
 - a. The “Best Available Technology” for this emissions unit has been determined to be compliance with OAC rule 3745-31-05(D) and the terms and conditions of this permit.
 - b. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
 - c. This facility is not located within an “Appendix A” area as defined in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c) Operational Restrictions
 - (1) The maximum amount of metal melted shall not exceed 8250 tons per rolling 12-month period.
 - (2) The maximum amount of metal inoculated shall not exceed 5800 tons per rolling 12-month period.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall maintain monthly records of the following information:
 - a. the total metal melted, in tons;
 - b. the total metal inoculated, in tons;
 - c. the rolling, 12-month summation of the total metal melted, in tons; and
 - d. the rolling 12-month summation of the total metal inoculated, in tons.
 - (2) The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive 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 location and 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 emissions incident; and
 - e. Any corrective actions taken to minimize or eliminate any visible emissions.



e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify:

- a. All deviations of the following emission limitations, operational restrictions, and/or control device operating parameter limitations that restrict the PTE of any regulated air pollutant and have been detected by the monitoring, recordkeeping, and/or testing requirements in this permit:
 - i. All exceedances of the maximum allowable amount of metal melted, as specified in c)(1);
 - ii. All exceedances of the maximum allowable amount of metal inoculated, as specified in c(2); and
 - iii. All exceedances of the rolling, 12-month summation limitation for total particulate emissions, as specified in b)(1)b.
- b. The probable cause of each deviation;
- c. Any corrective actions that were taken to remedy the deviations or prevent future deviations; and
- d. The magnitude and duration of each deviation.

If no deviations occurred during a calendar quarter, the permittee shall submit a report that states that no deviations occurred during the calendar quarter.

The quarterly reports shall be submitted each year by January 31, April 30, July 31, and October 31 and shall cover the previous calendar quarter.

- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions above:
 - a. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible emissions.
- (4) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the Northwest District Office.



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:

PE shall not exceed 6.76 tons per rolling 12-month period.

Applicable Compliance Method:

The rolling 12-month PE limitation was developed by summarizing the following calculations:

Metal Melting: The PE limit was established by multiplying the maximum annual metal melting rate of 8250 tons by an emission factor of 4.20 lbs of PE/ton* of metal melted, then dividing by 2000 lbs, and applying a 70% control efficiency for building enclosure. Metal Inoculation: The PE limit was established by multiplying the maximum annual metal inoculation rate of 5800 tons by an emission factor of 1.80 lbs of PE/ton* of metal inoculated, then dividing by 2000 lbs, and applying a 70% control efficiency for building enclosure.

Compliance with the rolling 12-month PE limitation shall be demonstrated through recordkeeping requirements specified in section d)(1).

* The emission factors for melting and inoculating were derived from AP-42 Table 12.10-7 (01/95).

b. Emission Limitation:

Visible fugitive particulate emissions shall not exceed 20% opacity as a three-minute average from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit.

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

- (1) None.



2. F002, Casting/Pouring

Operations, Property and/or Equipment Description:

Casting pouring, cooling and shakeout area

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)b., c)(1), d)(1), e)(1), f)(1)a.
- 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)	Volatile organic compounds (VOC) shall not exceed 4.95 tons/year Visible fugitive particulate emissions shall not exceed 20% opacity as a three-minute average from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. See b)(2)a.
b.	OAC rule 3745-31-05(D)	Particulate emissions (PE) shall not exceed 5.20 tons per rolling 12-month period See c)(1)
c.	OAC rule 3745-17-07(B)	See b)(2)b.
d.	OAC rule 3745-17-08(B)	See b)(2)c.



- (2) Additional Terms and Conditions
 - a. The “Best Available Technology” for this emissions unit has been determined to be compliance with OAC rule 3745-31-05(D) and the terms and conditions of this permit.
 - b. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-08(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
 - c. This facility is not located within an “Appendix A” area as defined in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c) Operational Restrictions
 - (1) The maximum amount of metal poured shall not exceed 8250 tons per rolling 12-month period.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall maintain monthly records of the following information:
 - a. the total metal poured, in tons; and
 - b. the rolling, 12-month summation of the total metal poured, in tons.
 - (2) The permittee shall perform daily checks when the emissions unit in operation and when the weather conditions allow for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of visible fugitive 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 location and 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 any visible emissions.
- e) Reporting Requirements
 - (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. All deviations of the following emission limitations, operational restrictions, and/or control device operating parameter limitations that restrict the PTE of any



regulated air pollutant and have been detected by the monitoring, recordkeeping, and/or testing requirements in this permit:

- i. All exceedances of the maximum allowable amount of metal poured, as specified in c(1).; and
 - ii. All exceedances of the rolling, 12-month limitation for total particulate emissions, as specified in b)(1)b.
- b. The probable cause of each deviation;
 - c. Any corrective actions that were taken to remedy the deviations or prevent future deviations; and
 - d. The magnitude and duration of each deviation.

If no deviations occurred during a calendar quarter, the permittee shall submit a report that states that no deviations occurred during the calendar quarter.

The quarterly reports shall be submitted each year by January 31, April 30, July 31, and October 31 and shall cover the previous calendar quarter.

- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
 - (3) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions above:
 - a. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible emissions.
 - (4) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the Northwest District Office.
- 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
PE shall not exceed 5.20 tons per rolling 12-month period.



Applicable Compliance Method

Compliance shall be demonstrated by multiplying the maximum annual metal pouring rate of 8250 tons by an emission factor of 4.20 lbs of PE/ton* of metal poured (AP-42, Table 12.10-7 (01/95), then dividing by 2000 lbs.

Compliance with the rolling 12-month PE limitation shall be demonstrated through recordkeeping requirements specified in section d)(1).

b. Emission Limitation

Volatile organic compounds (VOC) shall not exceed 4.95 tons/year

Applicable Compliance Method

Compliance shall be demonstrated by multiplying the maximum annual metal pouring rate of 8250 tons by an emission factor of 1.20 lbs of VOC per ton of metal poured (from AIRS (1990) and FIRE v6.3, SCC 3-04-003-31), then dividing by 2000.

c. Emission Limitation

Visible fugitive particulate emissions shall not exceed 20% opacity as a three-minute average from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit.

Applicable Compliance Method

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

(1) None.



3. F003, Casting Shakeout

Operations, Property and/or Equipment Description:

Shakeout Floor

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)b., c)(1), d)(1), e)(1), f)(1)a.
- 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)	Visible fugitive particulate emissions shall not exceed 20% opacity as a three-minute average from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. See b)(2)a.
b.	OAC rule 3745-31-05(D)	Particulate emissions (PE) shall not exceed 3.96 tons per rolling 12-month period. See c)(1)
c.	OAC rule 3745-17-07(B)	See b)(2)b.
d.	OAC rule 3745-17-08(B)	See b)(2)c.



- (2) Additional Terms and Conditions
 - a. The “Best Available Technology” for this emissions unit has been determined to be compliance with OAC rule 3745-31-05(D) and the terms and conditions of this permit.
 - b. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-08(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
 - c. This facility is not located within an “Appendix A” area as defined in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c) Operational Restrictions
 - (1) The maximum amount of metal shook out shall not exceed 8250 tons per rolling 12-month period.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall maintain monthly records of the following information:
 - a. the total metal processed through shakeout, in tons; and
 - b. the rolling, 12-month summation of the total amount of metal processed through shakeout, in tons.
 - (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from egress points (i.e., building windows, doors, roof monitors, etc.) 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 location and color of the emissions;
 - b. whether the emissions are not 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.
- e) Reporting Requirements
 - (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. All deviations of the following emission limitations, operational restrictions, and/or control device operating parameter limitations that restrict the PTE of any



regulated air pollutant and have been detected by the monitoring, recordkeeping, and/or testing requirements in this permit:

- i. All exceedances of the maximum allowable amount of metal processed through shakeout, as specified in c)(1); and
 - ii. All exceedances of the rolling 12-month limitation for total particulate emissions, as specified in b)(1)b.
- b. The probable cause of each deviation;
 - c. Any corrective actions that were taken to remedy the deviations or prevent future deviations; and
 - d. The magnitude and duration of each deviation.

If no deviations occurred during a calendar quarter, the permittee shall submit a report that states that no deviations occurred during the calendar quarter.

The quarterly reports shall be submitted each year by January 31, April 30, July 31, and October 31 and shall cover the previous calendar quarter.

- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
 - (3) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions above:
 - a. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible emissions.
 - (4) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the Northwest District Office.
- 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
PE shall not exceed 3.96 tons per rolling, 12-month period.



Applicable Compliance Method

Compliance shall be demonstrated by multiplying the maximum annual shakeout rate of 8250 tons by an emission factor of 3.20 lbs of PE/ton of metal processed through shakeout (AP-42 Table 12.10-7 [1/95]), then dividing by 2000.

Compliance with the rolling 12-month PE limitation shall be demonstrated through recordkeeping requirements specified in section d)(1).

b. Emission Limitation

Visible fugitive particulate emissions shall not exceed 20% opacity as a three-minute average from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit.

Applicable Compliance Method

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) in OAC rule 3745-17-03.

g) Miscellaneous Requirements

(1) None.



4. F007, Cutting/Grinding

Operations, Property and/or Equipment Description:

Finishing operations - cutting and grinding

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)b., c)(1), d)(1), e)(1), f)(1)a.,
- 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)	Visible fugitive particulate emissions shall not exceed 20% opacity as a three-minute average from any egress point (building windows, door, roof monitors, etc.) serving this emissions unit. See b)(2)a.
b.	OAC rule 3745-31-05(D)	Particulate emissions (PE) shall not exceed 4.46 tons per rolling 12-month period See c)(1).
c.	OAC rule 3745-17-07(B)	See b)(2)b.
d.	OAC rule 3745-17-08(B)	See b)(2)c.



- (2) Additional Terms and Conditions
 - a. The “Best Available Technology” for this emissions unit has been determined to be compliance with OAC rule 3745-31-05(D) and the terms and conditions of this permit.
 - b. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
 - c. This facility is not located within an “Appendix A” area as defined in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c) Operational Restrictions
 - (1) The maximum amount of metal processed in this emissions unit shall not exceed 8250 tons per rolling 12-month period.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall maintain monthly records of the following information:
 - a. The amount of metal ground each month, in tons;
 - b. The rolling, 12-month summation of metal ground, in tons.
 - (2) The permittee shall perform daily checks, when the emission unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive 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 location and 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 emissions incident; and
 - e. Any corrective actions taken to minimize or eliminate any visible emissions.
- e) Reporting Requirements
 - (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. All deviations of the following emission limitations, operational restrictions, and/or control device operating parameter limitations that restrict the PTE of any



regulated air pollutant and have been detected by the monitoring, recordkeeping, and/or testing requirements in this permit:

- i. All exceedances of the maximum annual allowable amount of metal ground, as specified in c)(1).
- b. The probable cause of each deviation;
- c. Any corrective actions taken to remedy the deviations or prevent future deviations; and
- d. The magnitude and duration of each deviation.

If no deviations occurred during a calendar quarter, the permittee shall submit a report that states that no deviations occurred during the calendar quarter.

The quarterly reports shall be submitted each year by January 31, April 30, July 31, and October 31 and shall cover the previous calendar quarter.

- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions above:
 - a. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible emissions.
- (4) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the Northwest District Office.

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
PE shall not exceed 4.46 tons per rolling 12-month period

Applicable Compliance Method

Compliance shall be determined by multiplying the maximum annual metal grinding rate of 8250 tons by an emission factor of 3.60 lb. of PE/ton of metal ground [AP-42, Table 12.10-7 (01/95)], then dividing by 2000 lbs.



Compliance with the rolling 12-month PE limitation shall be demonstrated through recordkeeping requirements specified in section d)(1).

b. Emission Limitation

Visible fugitive particulate emissions shall not exceed 20% opacity as a three-minute average from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit.

Applicable Compliance Method

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) in OAC rule 3745-17-03.

g) Miscellaneous Requirements

(1) None.



5. P001, Mold/Core Wash

Operations, Property and/or Equipment Description:

Mold and core wash operations

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

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)	Volatile organic compound (VOC) emissions shall not exceed 9.77 lbs/hour and 39.77 tons/year See b)(2)a.
b.	OAC rule 3745-21-07(M)	See b)(2)b.

(2) Additional Terms and Conditions

a. The "Best Available Technology" for this emissions unit has been determined to be compliance with the terms and conditions of this permit.

b. This emissions unit is not subject to the requirements of the rule because it does not meet all of the conditions outlined in OAC rule 3745-21-07(M)(3)(a).

c) Operational Restrictions

(1) The maximum annual core wash material usage rate shall not exceed 56,647 gallons.



d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each month for all core wash materials employed in this emissions unit:
 - a. the company name and identification of each core wash material employed;
 - b. the volume, in gallons, of each core wash material employed;
 - c. the VOC content of each core wash material employed, in pounds per gallon, as applied;
 - d. the VOC emission rate for each core wash material employed [d)(1)b. x d)(1)c.], in pounds.
 - e. the total VOC emission rate from all core wash coatings employed [summation of d)(1)d.], in pounds; and
 - f. the annual, year-to-date VOC emissions from all core wash coatings employed [summation of d)(1)e. for each calendar month to date from January to December]

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (2) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the Northwest District Office.

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
VOC emissions shall not exceed 9.77 lbs/hour

Applicable Compliance Method

The hourly emission limitation represents the potential to emit* of the emissions unit. Therefore, no hourly recordkeeping, reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

* The potential to emit is based on an hourly core wash usage rate of 6.70 gallons/hour, a maximum VOC content of 4.86 lbs/gallon, and a light-off destruction efficiency of 70%.



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Effective Date: 12/11/2013

b. Emission Limitation
VOC emissions shall not exceed 39.77 tons/year

Applicable Compliance Method

The permittee shall demonstrate compliance with this emission limitation based upon the recordkeeping in d)(1).

g) Miscellaneous Requirements

(1) None.



6. P003, Sand Storage Silo

Operations, Property and/or Equipment Description:

New sand storage silo with pneumatic conveyance

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. None.
- 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)	0.13 ton particulate matter less than 10 microns in size (PM10)/yr. 0.03 grain PM10/dry standard cubic foot (dscf) Visible particulate emissions shall not exceed 5% opacity as a six-minute average. See b)(2)d.
b.	OAC rule 3745-17-07(B)	Visible fugitive particulate emissions shall not exceed 20% opacity as a three-minute average
c.	OAC rule 3745-17-08(B)	See b)(2)b.
d.	OAC rule 3745-17-07(A)	See b)(2)c.
e.	OAC rule 3745-17-11(B)	See b)(2)c.



(2) Additional Terms and Conditions

- a. "Best Available Technology" (BAT) for this emissions unit has been determined to be use of a filter on the system bin vent that achieves a maximum outlet concentration of 0.03 grain PM10/dscf.
- b. The requirements of this rule are equivalent to or less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).
- c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- d. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B).

c) Operational Restrictions

- (1) The maximum annual material throughput (through the loading spout) for this emissions unit shall not exceed 9630 tons.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) 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 location and 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 abnormal 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 dates for the visible emission incident under item, (d) above or continue the daily 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 action, 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.



e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (2) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions above:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.
- (3) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the Northwest District Office.

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
0.03 grain PM10/dscf, 0.13 ton PM10/year

Applicable Compliance Method
If required, the permittee shall demonstrate compliance with the 0.03 gr PM10/dscf by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.

The annual emission limitation was established by multiplying the maximum outlet concentration of 0.03 grain of PM10/dscf by a maximum volumetric flow rate of 1000 acfm, 60 minutes/hour, 1 pound/7000 grains, and a maximum operating schedule of 8760 hours/year, then dividing by 2000 lbs. Therefore, provided compliance is shown with the grain of PM10/dscf limitation, compliance with the annual limitation will be assumed.
 - b. Emission Limitation
Visible particulate emissions shall not exceed 5% opacity as a six-minute average (from system bin vent to baghouse stack)



Applicable Compliance Method

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) in OAC rule 3745-17-03.

c. Emission Limitation

Visible fugitive particulate emissions shall not exceed 20% opacity as a three-minute average from any egress point serving this emissions unit

Applicable Compliance Method

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) in OAC rule 3745-17-03.

g) Miscellaneous Requirements

(1) None.



7. P004, Sand Handling System

Operations, Property and/or Equipment Description:

Vibramill and sand handling system controlled by baghouse

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

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)	Particulate matter equal to or less than 10 microns in size (PM10) shall not exceed 0.01 grain per dry standard cubic foot (dscf) and 17.08 tons/year Visible particulate emissions (PE) shall not exceed 0% opacity as a six-minute average See b)(2)a.
b.	OAC rule 3745-17-11(B)	See b)(2)b.
c.	OAC rule 3745-17-07(A)	See b)(2)b.

(2) **Additional Terms and Conditions**

a. "Best Available Technology" (BAT) for this emissions unit has been determined to be the use of a baghouse achieving a maximum outlet concentration of 0.01 grain/dscf of particulate matter 10 microns or less in size (PM10) and an associated 0% opacity, as a six-minute average.



- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- c) Operational Restrictions
 - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) 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 4 to 8 inches of water.
 - (2) 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(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on daily 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.

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 appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate 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 an administrative modification.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (2) The permittee shall identify in the annual permit evaluation report the following information concerning the operations of the baghouse during the 12-month reporting period for this/these emissions unit(s):
 - 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 acceptable range;
 - 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 e)(2)a. (above) where a prompt investigation was not conducted;
 - d. each incident of deviation described in e)(2)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 e)(2)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.
- (3) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the Northwest District Office.



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
0.01 grain of PM10/dscf

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the grain of PM10/dscf limitation by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

b. Emission Limitation
17.08 tons of PM10/year

Applicable Compliance Method

The annual emission limitation was determined by multiplying the maximum outlet concentration of 0.01 grain PM10/dscf by a maximum volumetric flow rate of 45,500 acfm, 60 minutes/hour, 1 pound/7000 grains, and a maximum operating schedule of 8760 hours/year, then dividing by 2000 lbs. Therefore, if compliance is shown with the grain of PM10/dscf limitation, compliance with the annual limitation shall also be demonstrated.

c. Emission Limitation
Visible particulate emissions shall not exceed 0% opacity, as a six-minute average except provided by rule.

Applicable Compliance Method

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) in OAC rule 3745-17-03.

g) Miscellaneous Requirements

(1) None.