



11/19/2014

Joel Feyedelem
 Sandusky International, Inc
 615 W MARKET ST
 SANDUSKY, OH 44870

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0322020117
 Permit Number: P0117842
 Permit Type: OAC Chapter 3745-31 Modification
 County: Erie

Certified Mail

No	TOXIC REVIEW
Yes	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
Yes	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

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install and Operate (PTIO) for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the permit. A public notice will appear in the Ohio Environmental Protection Agency (EPA) Weekly Review and the local newspaper, Sandusky Register. A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically 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. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall and Ohio EPA DAPC, Northwest District Office
 Permit Review/Development Section 347 North Dunbridge Road
 Ohio EPA, DAPC Bowling Green, OH 43402
 50 West Town Street Suite 700
 PO Box 1049
 Columbus, Ohio 43216-1049

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Ohio EPA DAPC, Northwest District Office at (419)352-8461.

Sincerely,

Erica R. Engel-Ishida, Manager
 Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA Region 5 Via E-Mail Notification
 Ohio EPA-NWDO; Michigan; Canada

PUBLIC NOTICE

11/19/2014 Issuance of Draft Air Pollution Permit-To-Install and Operate

Sandusky International, Inc
615 W MARKET ST,
Sandusky, OH 44870
Erie County

FACILITY DESC.: Steel Foundries (except Investment)

PERMIT #: P0117842

PERMIT TYPE: OAC Chapter 3745-31 Modification

PERMIT DESC: Chapter 31 modification to establish federally enforceable limits for PM10, metal throughput operational restriction and molding sand throughput operational restriction to avoid Title V permitting.

The Director of the Ohio Environmental Protection Agency issued the draft permit above. The permit and complete instructions for requesting information or submitting comments may be obtained at: <http://epa.ohio.gov/dapc/permitsonline.aspx> by entering the permit # or: Andrea Moore, Ohio EPA DAPC, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402. Ph: (419)352-8461



Permit Strategy Write-Up

1. Check all that apply:

Synthetic Minor Determination

Netting Determination

2. Source Description:

Sandusky International, Inc. is a steel foundry located in Erie County. The facility has submitted an application to permit emission units at this facility and establish facility wide production limitations to avoid Title V applicability. The emission units that are included in this permit action are emissions units: P013 – AOD Refining Vessel with Baghouse, P019 – 288 Spindle Gun Drill with Mist Collector, P020 – Lathes with Mist Collector, P023 – Turning and Boring Lathe with Mist Collector, P025 – Wheelabrator Blast Unit with Baghouse, P026 – Abrasive Blast Unit with Baghouse, P909 – Molding Sand Handling and Reclaim System with Baghouse, P912 – Deslagging #1 with Baghouse and P913 – Deslagging #2 with Baghouse.

3. Facility Emissions and Attainment Status:

Sandusky International is located in Erie County and is classified as a minor facility for Title V purposes. Erie County is designated attainment for all criteria pollutants.

4. Source Emissions:

In order to avoid Title V applicability, the company has requested federally enforceable operational restrictions as follows: P013, P019, P020, P023, P025, P026, P912 and P913: 19,999 tons of metal throughput per rolling 12-month period, and P909: 2,000 tons of molding sand throughput per rolling, 12-month period. These restrictions will effectively restrict the potential to emit of all criteria pollutants below the Title V thresholds.

In addition, the use of control equipment for PM₁₀ emissions (all baghouses and mist collectors) will have a permit term included to make the use of this equipment federally enforceable.

5. Conclusion:

As part of the company's strategy to ensure Title V permitting requirements do not apply, federally enforceable restrictions will be imposed to ensure the potential emissions remain below the Title V significance thresholds.

6. Please provide additional notes or comments as necessary:

None



Permit Strategy Write-Up
Sandusky International, Inc
Permit Number: P0117842
Facility ID: 0322020117

7. Total Permit Allowable Emissions Summary (for informational purposes only):

Pollutant:	Tons per rolling, 12-month period:
PM ₁₀ (Stack emissions)	7.20
PM ₁₀ (Fugitive emissions)	3.65
Total PM ₁₀	10.85



DRAFT

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Sandusky International, Inc**

Facility ID:	0322020117
Permit Number:	P0117842
Permit Type:	OAC Chapter 3745-31 Modification
Issued:	11/19/2014
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance



**Division of Air Pollution Control
Permit-to-Install and Operate**
for
Sandusky International, Inc

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Draft Permit-to-Install and Operate

Sandusky International, Inc

Permit Number: P0117842

Facility ID: 0322020117

Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0322020117
Application Number(s): A0051998
Permit Number: P0117842
Permit Description: Chapter 31 modification to establish federally enforceable limits for PM10, metal throughput operational restriction and molding sand throughput operational restriction to avoid Title V permitting.
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$6,850.00 *DO NOT send payment at this time, subject to change before final issuance*
Issue Date: 11/19/2014
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Permit Evaluation Report (PER) Annual Date: To be entered upon final issuance

This document constitutes issuance to:

Sandusky International, Inc
615 W MARKET ST
Sandusky, OH 44870

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

Craig W. Butler
Director



Authorization (continued)

Permit Number: P0117842
Permit Description: Chapter 31 modification to establish federally enforceable limits for PM10, metal throughput operational restriction and molding sand throughput operational restriction to avoid Title V permitting.

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

- Emissions Unit ID: P013**
Company Equipment ID: Steel Refining Furnace
Superseded Permit Number: P0024549
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P019**
Company Equipment ID: 288 Spindle Gun Drill
Superseded Permit Number: P0024555
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P020**
Company Equipment ID: Lathes
Superseded Permit Number: P0024556
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P023**
Company Equipment ID: Turning & Boring Lathe
Superseded Permit Number: P0024559
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P025**
Company Equipment ID: Wheelabrator Blast Unit
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P026**
Company Equipment ID: Abrasive Blast Unit
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P909**
Company Equipment ID: Molding Sand Handling and Reclaim System
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P912**
Company Equipment ID: Deslagging #1
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P913**
Company Equipment ID: Deslagging #2
Superseded Permit Number:
General Permit Category and Type: Not Applicable



Draft Permit-to-Install and Operate

Sandusky International, Inc

Permit Number: P0117842

Facility ID: 0322020117

Effective Date: To be entered upon final issuance

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 Ohio EPA DAPC, Northwest District Office 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 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.



Draft Permit-to-Install and Operate

Sandusky International, Inc

Permit Number: P0117842

Facility ID: 0322020117

Effective Date: To be entered upon final issuance

B. Facility-Wide Terms and Conditions



Draft Permit-to-Install and Operate

Sandusky International, Inc

Permit Number: P0117842

Facility ID: 0322020117

Effective Date: To be entered upon final issuance

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. The Ohio EPA has determined that this facility may be applicable to the requirements of an area source MACT/GACT rule that the Ohio EPA does not have the delegated authority to implement. Although Ohio EPA has determined that an area source MACT (also known as the GACT) may apply, at this time Ohio EPA does not have the authority to enforce this standard. Instead, U.S. EPA has the authority to enforce this standard. Please be advised that all requirements associated with these rules are in effect and are enforceable by U.S. EPA. For more information on the area source rules, please refer to the follow U.S. EPA website: <http://www.epa.gov/ttn/atw/area/arearules.html>.

The area source MACT/GACT rules that may be applicable include 40 CFR, Part 63, Subpart ZZZZZ (Area Sources Iron and Steel Foundries) and 40 CFR Part 63, Subpart XXXXXX (Metal Fabrication & Finishing Source Nine Categories).



Draft Permit-to-Install and Operate

Sandusky International, Inc

Permit Number: P0117842

Facility ID: 0322020117

Effective Date: To be entered upon final issuance

C. Emissions Unit Terms and Conditions



1. P013, Steel Refining Furnace

Operations, Property and/or Equipment Description:

AOD Refining Vessel with Baghouse(SR-2038, SR-2161)

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)a., b)(2)a., b)(2)b., c)(1), d)(1), d)(2), e)(1), e)(4), f)(1)a., f)(1)b. and f)(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(D)	0.40 lb of particulate matter less than or equal to 10 microns in diameter (PM ₁₀)/hr, from the baghouse exhaust stack 0.50 ton of PM ₁₀ per rolling, 12-month period, from the baghouse exhaust stack Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack. See b)(2)a., b)(2)b. and c)(1)
b.	OAC rule 3745-31-05(A)(3)	See b)(2)c.
c.	OAC rule 3745-17-07(A)	See b)(2)d.
d.	OAC rule 3745-17-11(B)	See b)(2)d.



(2) Additional Terms and Conditions

- a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE) to avoid Title V requirements. The federally enforceable emission limitations are based on the operational restrictions contained in c)(1):
 - i. 0.40 lb of PM₁₀/hr from the baghouse exhaust stack;
 - ii. 0.50 ton of PM₁₀ per rolling, 12-month period from the baghouse exhaust stack; and
 - iii. Visible PE shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack;
- b. All PM₁₀ emissions are particulate emissions.
- c. Best Available Technology (BAT) requirements for this emissions unit have been determined to be compliance with OAC rule 3745-31-05(D) and compliance with the terms and conditions of this permit.
- d. This emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

c) Operational Restrictions

- (1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit potential to emit [See b)(2)a.]:
 - a. The maximum annual metal throughput for this emissions unit shall not exceed 19,999 tons, based upon a rolling, 12-month summation of the metal throughput rates.

This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the production rate, upon issuance of this permit. The maximum annual production rate for this emissions unit shall not exceed 19,999 tons/year, based upon a rolling, 12-month summation of the production rates.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
 - a. the metal throughput rate for each month, in tons; and
 - b. the rolling, 12-month summation of the metal throughput rates, 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 the stack serving this emissions unit. The presence or absence of any visible emissions shall be



noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(2)d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

e) Reporting Requirements

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

- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. all exceedances of the rolling, 12-month metal throughput rate limitation.
- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

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

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September),



unless an alternative schedule has been established and approved by the Director (Ohio EPA, Northwest District Office).

- (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 permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) 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 Northwest District Office, 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.

- (4) The permittee shall also identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(2) above:
 - a. all days during which any visible particulate emissions were observed from the baghouse exhaust stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible emissions.
- (5) 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.

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:
0.40 lb of PM₁₀/hr from the baghouse exhaust stack



Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum hourly metal throughput rate of 8 tons by an emission factor of 5.0lbs of PM_{10} /ton, from AP-42, Chapter 12.10-7 (1/95), then multiplying by 0.01 (1 – 99% control efficiency of the baghouse).

If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 – 4 and 40 CFR, Part 51, Appendix M, Methods 201/201A and 202.

b. Emission Limitation:

0.50 ton of PM_{10} per rolling, 12-month period from the baghouse exhaust stack

Applicable Compliance Method:

The rolling, 12-month emission limitation was developed by multiplying the maximum annual metal throughput rate of 19,999 tons by an emission factor of 5lbs of PM_{10} /ton, from AP-42, Chapter 12.10-7 (1/95), then multiplying by 0.01 (1 – 99% control efficiency of the baghouse) and then dividing by a factor of 2,000 lbs per ton. Therefore, provided compliance is shown with the rolling, 12-month metal throughput production limitation, compliance with the rolling, 12-month period emission limitation shall also be demonstrated.

c. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack

Applicable Compliance Method:

If required, compliance with the visible PE limitation shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

g) Miscellaneous Requirements

- (1) None.



2. P019, 288 Spindle Gun Drill

Operations, Property and/or Equipment Description:

288 Spindle Gun Drill with Mist Collector (AH-40-BFHEPA)

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)a., b)(2)a., b)(2)b., c)(1), d)(1), d)(2), e)(1), e)(4), f)(1)a., f)(1)b. and f)(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(D)	0.05lb of particulate matter less than or equal to 10 microns in diameter (PM ₁₀)/hr from the mist collector exhaust stack 1.70 tons of PM ₁₀ per rolling, 12-month period from the mist collector exhaust stack Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, from the mist collector exhaust stack See b)(2)a., b)(2)b. and c)(1)
b.	OAC rule 3745-31-05(A)(3)	See b)(2)c.
c.	OAC rule 3745-17-07(A)	See b)(2)d.
d.	OAC rule 3745-17-11(B)	See b)(2)d.



(2) Additional Terms and Conditions

- a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE) to avoid Title V requirements. The federally enforceable emission limitations are based on the operational restrictions contained in c)(1):
 - i. 0.05 lb of PM₁₀/hr from the mist collector exhaust stack;
 - ii. 1.70 tons of PM₁₀ per rolling, 12-month period from the mist collector exhaust stack; and
 - iii. Visible PE shall not exceed 20% opacity, as a 6-minute average, from the mist collector exhaust stack;
- b. All PM₁₀ emissions are particulate emissions.
- c. Best Available Technology (BAT) requirements for this emissions unit have been determined to be compliance with OAC rule 3745-31-05(D) and compliance with the terms and conditions of this permit.
- d. This emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

c) Operational Restrictions

- (1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit potential to emit [See b)(2)a.]:
 - a. The maximum annual metal throughput for this emissions unit shall not exceed 19,999 tons, based upon a rolling, 12-month summation of the metal throughput rates.

This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the production rate, upon issuance of this permit. The maximum annual production rate for this emissions unit shall not exceed 19,999 tons/year, based upon a rolling, 12-month summation of the production rates.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
 - a. the metal throughput rate for each month, in tons; and
 - b. the rolling, 12-month summation of the metal throughput rates, 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 the stack serving this emissions unit. The presence or absence of any visible emissions shall be



noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(2)d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

e) Reporting Requirements

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

- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. all exceedances of the rolling, 12-month metal throughput rate limitation.
- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

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

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (Ohio EPA, Northwest District Office).



- (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 permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) 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 Northwest District Office, 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.

- (4) The permittee shall also identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(2) above:
 - a. all days during which any visible particulate emissions were observed from the mist collector exhaust stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible emissions.
- (5) 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.

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:
0.05 lb of PM₁₀/hr from the mist collector exhaust stack

Applicable Compliance Method:



The hourly emission limitation was developed by multiplying the maximum hourly metal throughput rate of 0.32 tons by an emission factor of 17lbs of PM₁₀/ton, from AP-42, Chapter 12.13-2 (1/95), then multiplying by 0.01 (1 – 99% control efficiency of the mist collector).

If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 – 4 and 40 CFR, Part 51, Appendix M, Methods 201/201A and 202.

b. Emission Limitation:

1.70 tons of PM₁₀ per rolling, 12-month period from the mist collector exhaust stack

Applicable Compliance Method:

The rolling, 12-month emission limitation was developed by multiplying the maximum annual metal throughput rate of 19,999 tons by an emission factor of 17lbs of PM₁₀/ton, from AP-42, Chapter 12.13-2 (1/95), then multiplying by 0.01 (1 – 99% control efficiency of the mist collector) and then dividing by a factor of 2,000 lbs per ton. Therefore, provided compliance is shown with the rolling, 12-month metal throughput production limitation, compliance with the rolling, 12-month period emission limitation shall also be demonstrated.

c. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average, from the mist collector exhaust stack

Applicable Compliance Method:

If required, compliance with the visible PE limitation shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

g) Miscellaneous Requirements

- (1) None.



3. P020, Lathes

Operations, Property and/or Equipment Description:

Lathes with Mist Collector

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)a., b)(2)a., b)(2)b., c)(1), d)(1), d)(2), e)(1), e)(4), f)(1)a., f)(1)b. and f)(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(D)	0.05lb of particulate matter less than or equal to 10 microns in diameter (PM ₁₀)/hr from the mist collector exhaust stack 1.70 tons of PM ₁₀ per rolling, 12-month period from the mist collector exhaust stack Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, from the mist collector exhaust stack See b)(2)a., b)(2)b. and c)(1)
b.	OAC rule 3745-31-05(A)(3)	See b)(2)c.
c.	OAC rule 3745-17-07(A)	See b)(2)d.
d.	OAC rule 3745-17-11(B)	See b)(2)d.



(2) Additional Terms and Conditions

- a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE) to avoid Title V requirements. The federally enforceable emission limitations are based on the operational restrictions contained in c)(1):
 - i. 0.05 lb of PM₁₀/hr from the mist collector exhaust stack;
 - ii. 1.70 tons of PM₁₀ per rolling, 12-month period from the mist collector exhaust stack; and
 - iii. Visible PE shall not exceed 20% opacity, as a 6-minute average, from the mist collector exhaust stack;
- b. All PM₁₀ emissions are particulate emissions.
- c. Best Available Technology (BAT) requirements for this emissions unit have been determined to be compliance with OAC rule 3745-31-05(D) and compliance with the terms and conditions of this permit.
- d. This emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

c) Operational Restrictions

- (1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit potential to emit [See b)(2)a.]:
 - a. The maximum annual metal throughput for this emissions unit shall not exceed 19,999 tons, based upon a rolling, 12-month summation of the metal throughput rates.

This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the production rate, upon issuance of this permit. The maximum annual production rate for this emissions unit shall not exceed 19,999 tons/year, based upon a rolling, 12-month summation of the production rates.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
 - a. the metal throughput rate for each month, in tons; and
 - b. the rolling, 12-month summation of the metal throughput rates, 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 the stack serving this emissions unit. The presence or absence of any visible emissions shall be



noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(2)d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

e) Reporting Requirements

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

- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. all exceedances of the rolling, 12-month metal throughput rate limitation.
- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

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

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (Ohio EPA, Northwest District Office).



- (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 permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) 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 Northwest District Office, 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.

- (4) The permittee shall also identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(2) above:
 - a. all days during which any visible particulate emissions were observed from the mist collector exhaust stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible emissions.
- (5) 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.

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:
0.05 lb of PM₁₀/hr from the mist collector exhaust stack

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum hourly metal throughput rate of 0.32 ton by an emission factor of 17lbsof PM₁₀/ton,from



AP-42, Chapter 12.13-2 (1/95), then multiplying by 0.01 (1 – 99% control efficiency of the mist collector).

If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 – 4 and 40 CFR, Part 51, Appendix M, Methods 201/201A and 202.

b. Emission Limitation:

1.70 tons of PM₁₀ per rolling, 12-month period from the mist collector exhaust stack

Applicable Compliance Method:

The rolling, 12-month emission limitation was developed by multiplying the maximum annual metal throughput rate of 19,999 tons by an emission factor of 17lbs of PM₁₀/ton, from AP-42, Chapter 12.13-2 (1/95), then multiplying by 0.01 (1 – 99% control efficiency of the mist collector) and then dividing by a factor of 2,000 lbs per ton. Therefore, provided compliance is shown with the rolling, 12-month metal throughput production limitation, compliance with the rolling, 12-month period emission limitation shall also be demonstrated.

c. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average, from the mist collector exhaust stack

Applicable Compliance Method:

If required, compliance with the visible PE limitation shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

g) Miscellaneous Requirements

(1) None.



4. P023, Turning and Boring Lathe

Operations, Property and/or Equipment Description:

Turning and Boring Lathe with Mist Collector

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)a., b)(2)a., b)(2)b., c)(1), d)(1), d)(2), e)(1), e)(4), f)(1)a., f)(1)b. and f)(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(D)	0.05lb of particulate matter less than or equal to 10 microns in diameter (PM ₁₀)/hr from the mist collector exhaust stack 1.70 tons of PM ₁₀ per rolling, 12-month period from the mist collector exhaust stack Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, from the mist collector exhaust stack See b)(2)a., b)(2)b. and c)(1)
b.	OAC rule 3745-31-05(A)(3)	See b)(2)c.
c.	OAC rule 3745-17-07(A)	See b)(2)d.
d.	OAC rule 3745-17-11(B)	See b)(2)d.



(2) Additional Terms and Conditions

- a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE) to avoid Title V requirements. The federally enforceable emission limitations are based on the operational restrictions contained in c)(1):
 - i. 0.05 lb of PM₁₀/hr from the mist collector exhaust stack;
 - ii. 1.70 tons of PM₁₀ per rolling, 12-month period from the mist collector exhaust stack; and
 - iii. Visible PE shall not exceed 20% opacity, as a 6-minute average, from the mist collector exhaust stack;
- b. All PM₁₀ emissions are particulate emissions.
- c. Best Available Technology (BAT) requirements for this emissions unit have been determined to be compliance with OAC rule 3745-31-05(D) and compliance with the terms and conditions of this permit.
- d. This emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

c) Operational Restrictions

- (1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit potential to emit [See b)(2)a.]:
 - a. The maximum annual metal throughput for this emissions unit shall not exceed 19,999 tons, based upon a rolling, 12-month summation of the metal throughput rates.

This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the production rate, upon issuance of this permit. The maximum annual production rate for this emissions unit shall not exceed 19,999 tons/year, based upon a rolling, 12-month summation of the production rates.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
 - a. the metal throughput rate for each month, in tons; and
 - b. the rolling, 12-month summation of the metal throughput rates, 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 the stack serving this emissions unit. The presence or absence of any visible emissions shall be



noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(2)d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

e) Reporting Requirements

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

- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. all exceedances of the rolling, 12-month metal throughput rate limitation.
- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

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

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (Ohio EPA, Northwest District Office).



- (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 permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) 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 Northwest District Office, 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.

- (4) The permittee shall also identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(2) above:
 - a. all days during which any visible particulate emissions were observed from the mist collector exhaust stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible emissions.
- (5) 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.

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:
0.05 lb of PM₁₀/hr from the mist collector exhaust stack

Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum hourly metal throughput rate of 0.32 ton by an emission factor of 17lbsof PM₁₀/ton,from



AP-42, Chapter 12.13-2 (1/95), then multiplying by 0.01 (1 – 99% control efficiency of the mist collector).

If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 – 4 and 40 CFR, Part 51, Appendix M, Methods 201/201A and 202.

b. Emission Limitation:

1.70 tons of PM₁₀ per rolling, 12-month period from the mist collector exhaust stack

Applicable Compliance Method:

The rolling, 12-month emission limitation was developed by multiplying the maximum annual metal throughput rate of 19,999 tons by an emission factor of 17lbs of PM₁₀/ton, from AP-42, Chapter 12.13-2 (1/95), then multiplying by 0.01 (1 – 99% control efficiency of the mist collector) and then dividing by a factor of 2,000 lbs per ton. Therefore, provided compliance is shown with the rolling, 12-month metal throughput production limitation, compliance with the rolling, 12-month period emission limitation shall also be demonstrated.

c. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average, from the mist collector exhaust stack

Applicable Compliance Method:

If required, compliance with the visible PE limitation shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

g) Miscellaneous Requirements

(1) None.



5. P025, Wheelabrator Blast Unit

Operations, Property and/or Equipment Description:

Wheelabrator Blast Unit with Baghouse (FARR-MARK-IV)

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)a., b)(2)a., b)(2)b., c)(1), d)(1), e)(3), f)(1)a., f)(1)b., f)(1)c. and f)(1)d.

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(D)	0.01 grain of particulate matter less than or equal to 10 microns in diameter (PM ₁₀) per dry standard cubic foot from the baghouse exhaust stack 0.24lb of PM ₁₀ /hr from the baghouse exhaust stack 1.05 tons of PM ₁₀ per rolling, 12-month period from the baghouse exhaust stack Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack See b)(2)a., b)(2)b. and c)(1)
b.	OAC rule 3745-31-05(A)(3)	See b)(2)c.
c.	OAC rule 3745-17-07(A)	See b)(2)d.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-17-11(B)	See b)(2)d.

(2) Additional Terms and Conditions

a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE) to avoid Title V requirements. The federally enforceable emission limitations are based on the operational restrictions contained in c)(1):

- i. 0.01 grain of PM₁₀ per dry standard cubic foot from the baghouse exhaust stack;
- ii. 0.24 lb of PM₁₀/hr from the baghouse exhaust stack;
- iii. 1.05 tons of PM₁₀ per rolling, 12-month period from the baghouse exhaust stack; and
- iv. Visible PE shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack;

b. All PM₁₀ emissions are particulate emissions.

c. Best Available Technology (BAT) requirements for this emissions unit have been determined to be compliance with OAC rule 3745-31-05(D) and compliance with the terms and conditions of this permit.

d. This emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit potential to emit [See b)(2)a.):

a. This emissions unit shall be vented to a baghouse capable of achieving a maximum outlet concentration of 0.01 grain per dry standard cubic foot for PM₁₀.

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 serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:



- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(1)d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

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 permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (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 Northwest District Office, 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.



- (3) The permittee shall also identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:
- a. all days during which any visible particulate emissions were observed from the baghouse exhaust stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible emissions.
- (4) 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.
- 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 per dry standard cubic foot from the baghouse exhaust stack
Applicable Compliance Method:
The emission limitation was established in accordance with the manufacturer's guaranteed outlet grain loading for the baghouse. If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 – 4 and 40 CFR, Part 51, Appendix M, Methods 201/201A and 202.
 - b. Emission Limitation:
0.24 lb of PM₁₀/hr from the baghouse exhaust stack
Applicable Compliance Method:
The hourly emission limitation was developed by multiplying the maximum outlet concentration of 0.01 grain of PM₁₀/dscf by a volumetric air flow of 2,800acfm and conversion factors of 7,000 grains/lb, 1 dscf/1 acfm, and 60 minutes/hour.
If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 – 4 and 40 CFR, Part 51, Appendix M, Methods 201/201A and 202.
 - c. Emission Limitation:
1.05 tons of PM₁₀ per rolling, 12-month period from the baghouse exhaust stack



Applicable Compliance Method:

The rolling, 12-month emission limitation was developed by multiplying the maximum outlet concentration of 0.01 grain of PM₁₀/dscf by a maximum volumetric air flow of 2,800acfm, and conversion factors of 7,000 grains/lb, 1 dscf/1 acfm, and 60 minutes/hour, and a maximum operating schedule of 8,760 hours/year, and then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the 0.01 grain/dscf limitation, compliance with the rolling, 12-month period emission limitation shall also be demonstrated.

d. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack

Applicable Compliance Method:

If required, compliance with the visible PE limitation shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

g) Miscellaneous Requirements

(1) None.



6. P026, Abrasive Blast Unit

Operations, Property and/or Equipment Description:

Abrasive Blast Unit with Baghouse (301-DC)

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)a., b)(2)a., b)(2)b., c)(1), d)(1), e)(3), f)(1)a., f)(1)b., f)(1)c. and f)(1)d.

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(D)	0.01 grain of particulate matter less than or equal to 10 microns in diameter (PM ₁₀) per dry standard cubic foot from the baghouse exhaust stack 0.05lb of PM ₁₀ /hr from the baghouse exhaust stack 0.22 ton of PM ₁₀ per rolling, 12-month period from the baghouse exhaust stack Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack See b)(2)a., b)(2)b. and c)(1)
b.	OAC paragraph 3745-31-05(A)(3), as effective 11/30/01	See b)(2)c. and b)(2)d.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC paragraph 3745-31-05(A), as effective 12/01/06	See b)(2)e.
d.	OAC rule 3745-17-07(A)	See b)(2)f.
e.	OAC rule 3745-17-11(B)	See b)(2)f.

(2) Additional Terms and Conditions

a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE) to avoid Title V requirements. The federally enforceable emission limitations are based on the operational restrictions contained in c)(1):

- i. 0.01 grain of PM₁₀ per dry standard cubic foot from the baghouse exhaust stack;
- ii. 0.05 lb of PM₁₀/hr from the baghouse exhaust stack;
- iii. 0.22 tons of PM₁₀ per rolling, 12-month period from the baghouse exhaust stack; and
- iv. Visible PE shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack;

b. All PM₁₀ emissions are particulate emissions.

c. Best Available Technology (BAT) requirements for this emissions unit have been determined to be compliance with OAC rule 3745-31-05(D) and compliance with the terms and conditions of this permit.

d. The permittee has satisfied the BAT requirements for PM₁₀ emissions pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant emissions less than 10 tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revision to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limits and control measures no longer apply.

e. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The BAT requirements under OAC rule 3745-31-05(A)(3)(a) do not apply to the PM₁₀ emissions since the potential to emit is less than 10 tons per year.



- f. This emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

c) Operational Restrictions

- (1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit potential to emit [See b)(2)a.):

- a. This emissions unit shall be vented to a baghouse capable of achieving a maximum outlet concentration of 0.01 grain per dry standard cubic foot for PM₁₀.

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 serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(1)d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

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 permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (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 Northwest District Office, 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.

- (3) The permittee shall also identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:
 - a. all days during which any visible particulate emissions were observed from the baghouse exhaust stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible emissions.
- (4) 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.

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 per dry standard cubic foot from the baghouse exhaust stack

Applicable Compliance Method:

The emission limitation was established in accordance with the manufacturer's guaranteed outlet grain loading for the baghouse. If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 – 4 and 40 CFR, Part 51, Appendix M, Methods 201/201A and 202.
 - b. Emission Limitation:
0.05 lb of PM₁₀/hr from the baghouse exhaust stack



Applicable Compliance Method:

The hourly emission limitation was developed by multiplying the maximum outlet concentration of 0.01 grain of PM₁₀/dscf by a volumetric air flow of 550acfm and conversion factors of 7,000 grains/lb, 1 dscf/1 acfm, and 60 minutes/hour.

If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 – 4 and 40 CFR, Part 51, Appendix M, Methods 201/201A and 202.

c. Emission Limitation:

0.22 ton of PM₁₀ per rolling, 12-month period from the baghouse exhaust stack

Applicable Compliance Method:

The rolling, 12-month emission limitation was developed by multiplying the maximum outlet concentration of 0.01 grain of PM₁₀/dscf by a maximum volumetric air flow of 550acfm, and conversion factors of 7,000 grains/lb, 1 dscf/1 acfm, and 60 minutes/hour, and a maximum operating schedule of 8,760 hours/year, and then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the 0.01 grain/dscf limitation, compliance with the rolling, 12-month period emission limitation shall also be demonstrated.

d. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack

Applicable Compliance Method:

If required, compliance with the visible PE limitation shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

g) Miscellaneous Requirements

(1) None.



7. P909, Molding Sand Handling and Reclaim System

Operations, Property and/or Equipment Description:

Molding Sand Handling and Reclaim System with Baghouse (SR-2162)

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)a., b)(2)a., b)(2)b., c)(1), c)(2), d)(1), e)(1), e)(4) and f)(1)a. through f)(1)e.

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(D)	0.03 lb particulate matter less than or equal to 10 microns in diameter (PM ₁₀)/hr from the baghouse exhaust stack 0.005 ton of PM ₁₀ per rolling, 12-month period from the baghouse exhaust stack Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack. 0.05 ton of fugitive PM ₁₀ per rolling, 12-month period Visible fugitive PE shall not exceed 20% opacity, as a three-minute average from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		emissions unit. See b)(2)a., b)(2)b. and c)(1)
b.	OAC rule 3745-31-05(A)(3)	See b)(2)c.
c.	OAC rule 3745-17-08(B)	See b)(2)e.
d.	OAC rule 3745-17-07(A)	See b)(2)f.
e.	OAC rule 3745-17-07(B)	See b)(2)d.
f.	OAC rule 3745-17-11(B)	See b)(2)e.

(2) Additional Terms and Conditions

- a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE) to avoid Title V requirements. The federally enforceable emission limitations are based on the operational restrictions contained in c)(1):
 - i. 0.03 lb PM₁₀/hr, from the baghouse exhaust stack;
 - ii. 0.005 ton of PM₁₀ per rolling, 12-month period from the baghouse exhaust stack;
 - iii. Visible PE shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack;
 - iv. 0.05 ton of fugitive PM₁₀ per rolling, 12-month period; and
 - v. Visible fugitive PE 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.
- b. All PM₁₀ emissions are particulate emissions.
- c. Best Available Technology (BAT) requirements for this emissions unit have been determined to be compliance with OAC rule 3745-31-05(D) and compliance with the terms and conditions of this permit.
- d. This emissions unit is exempt from the visible emissions limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- e. This emissions unit is not located within an “Appendix A” area identified 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).
- f. This emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).



c) Operational Restrictions

(1) The following operational restrictions have been included in this permit for the purpose of establishing federally enforceable requirements which limit potential to emit [See b)(2)a.):

- a. This emission unit shall be vented to a baghouse (SR-2162) capable of achieving a 90% capture and a 99% control efficiency.
- b. The maximum annual molding sand throughput for this emissions unit shall not exceed 2,000 tons, based upon a rolling, 12-month summation of the molding sand throughput rates.

This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the production rate, upon issuance of this permit. The maximum annual production rate for this emissions unit shall not exceed 2,000 tons/year, based upon a rolling, 12-month summation of the production rates.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the following information:

- a. the molding sand throughput rate for each month, in tons; and
- b. the rolling, 12-month summation of the molding sand throughput rates, 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 the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(2)d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

e) Reporting Requirements

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

- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. all exceedances of the rolling, 12-month molding sand throughput rate limitation.
- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

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

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (Ohio EPA, Northwest District Office).

(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 permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

(3) 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 Northwest District Office, 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.

- (4) The permittee shall also identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(2) above:
 - a. all days during which any visible particulate emissions were observed from the baghouse exhaust stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible emissions.
- (5) 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.

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 lb PM₁₀/hr from the baghouse exhaust stack

Applicable Compliance Method:

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

*The potential to emit is based on multiplying the maximum molding sand throughput rate of six tons/hr by an emission factor of 0.54 lb PM₁₀/ton, AP-42 Chapter 12.13-2 (1/95), then applying a 90% capture rate (0.90) and a 99% control efficiency (1 - 0.99).

If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1-4 and 40 CFR, Part 51, Appendix M, Methods 201/201A and 202.

- b. Emission Limitation:

0.005 ton of PM₁₀ per rolling, 12-month period from the baghouse exhaust stack

Applicable Compliance Method:

The rolling, 12-month period emission limitation was developed by multiplying the maximum annual molding sand throughput rate of 2,000 tons by an emission



factor of 0.54lb PM₁₀/ton, AP-42 Table 12.13-2(1/95), applying a 90% capture rate (0.90) and a 99% control efficiency (1 – 0.99), then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the rolling, 12-month molding sand throughput production restriction, compliance with the rolling, 12-month period emission limitation shall also be demonstrated.

c. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a six-minute average, from the baghouse exhaust stack.

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

d. Emission Limitation:

0.05 ton of fugitive PM₁₀ per rolling, 12-month period

Applicable Compliance Method:

The rolling, 12-month period emission limitation was developed by multiplying the maximum annual molding sand throughput rate of 2,000 tons by an emission factor of 0.54lb PM₁₀/ton, AP-42 Table 12.13-2(1/95), applying a 10% capture inefficiency rate (0.10), then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the rolling, 12-month molding sand throughput production restriction, compliance with the rolling, 12-month period emission limitation shall also be demonstrated.

e. 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 with the visible emission limitation shall be determined in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

g) Miscellaneous Requirements

(1) None.



8. P912, Deslagging #1

Operations, Property and/or Equipment Description:

Deslagging #1 with Baghouse (SR-2162)

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)a., b)(2)a., b)(2)b., c)(1), c)(2), d)(1), e)(1), e)(4) and f)(1)a. through f)(1)e.

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(D)	0.65 lb particulate matter less than or equal to 10 microns in diameter (PM ₁₀)/hr from the baghouse exhaust stack 0.16 ton of PM ₁₀ per rolling, 12-month period from the baghouse exhaust stack Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack. 1.80 tons of fugitive PM ₁₀ per rolling, 12-month period Visible fugitive PE shall not exceed 20% opacity, as a three-minute average from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		emissions unit. See b)(2)a., b)(2)b. and c)(1)
b.	OAC rule 3745-31-05(A)(3)	See b)(2)c.
c.	OAC rule 3745-17-08(B)	See b)(2)e.
d.	OAC rule 3745-17-07(A)	See b)(2)f.
e.	OAC rule 3745-17-07(B)	See b)(2)d.
f.	OAC rule 3745-17-11(B)	See b)(2)e.

(2) Additional Terms and Conditions

- a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE) to avoid Title V requirements. The federally enforceable emission limitations are based on the operational restrictions contained in c)(1) and c)(2):
 - i. 0.65 lb PM₁₀/hr, from the baghouse exhaust stack;
 - ii. 0.16 ton of PM₁₀ per rolling, 12-month period from the baghouse exhaust stack;
 - iii. Visible PE shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack;
 - iv. 1.80 tons of fugitive PM₁₀ per rolling, 12-month period; and
 - v. Visible fugitive PE 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.
- b. All PM₁₀ emissions are particulate emissions.
- b. Best Available Technology (BAT) requirements for this emissions unit have been determined to be compliance with OAC rule 3745-31-05(D) and compliance with the terms and conditions of this permit.
- c. This emissions unit is exempt from the visible emissions limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. This emissions unit is not located within an "Appendix A" area identified 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).
- e. This emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).



c) Operational Restrictions

(1) The following operational restrictions have been included in this permit for the purpose of establishing federally enforceable requirements which limit potential to emit [See b)(2)a.):

- a. This emission unit shall be vented to a baghouse (SR-2162) capable of achieving a 90% capture and a 99% control efficiency.
- b. The maximum annual metal throughput for this emissions unit shall not exceed 19,999 tons, based upon a rolling, 12-month summation of the metal throughput rates.

This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the production rate, upon issuance of this permit. The maximum annual production rate for this emissions unit shall not exceed 19,999 tons/year, based upon a rolling, 12-month summation of the production rates.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the following information:

- a. the metal throughput rate for each month, in tons; and
- b. the rolling, 12-month summation of the metal throughput rates, 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 the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(2)d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

e) Reporting Requirements

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

- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. all exceedances of the rolling, 12-month metal throughput rate limitation.
- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

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

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (Ohio EPA, Northwest District Office).

(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 permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

(3) 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 Northwest District Office, 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.

- (4) The permittee shall also identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(2) above:
 - a. all days during which any visible particulate emissions were observed from the baghouse exhaust stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible emissions.
- (5) 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.

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:

0.65 lb PM₁₀/hr from the baghouse exhaust stack

Applicable Compliance Method:

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

*The potential to emit is based on multiplying the maximum metal throughput rate of 40 tons/hr by an emission factor of 1.8 lbs PM₁₀/ton, AP-42 Chapter 12.10-7 (1/95), then applying a 90% capture rate (0.90) and a 99% control efficiency (1 – 0.99).

If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1-4 and 40 CFR, Part 51, Appendix M, Methods 201/201A and 202.

- b. Emission Limitation:

0.16 ton of PM₁₀ per rolling, 12-month period from the baghouse exhaust stack

Applicable Compliance Method:

The rolling, 12-month period emission limitation was developed by multiplying the maximum annual metal throughput rate of 19,999 tons by an emission factor of 1.8 lbs PM₁₀/ton, AP-42 Table 12.10-7 (1/95), applying a 90% capture rate (0.90)



and a 99% control efficiency (1 – 0.99), then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the rolling, 12-month metal throughput production restriction, compliance with the rolling, 12-month period emission limitation shall also be demonstrated.

c. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a six-minute average, from the baghouse exhaust stack.

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

d. Emission Limitation:

1.80 tons of fugitive PM₁₀ per rolling, 12-month period

Applicable Compliance Method:

The rolling, 12-month period emission limitation was developed by multiplying the maximum annual metal throughput rate of 19,999 tons by an emission factor of 1.8 lb PM₁₀/ton, AP-42 Table 12.10-7 (1/95), applying a 10% capture inefficiency rate (0.10), then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the rolling, 12-month metal throughput production restriction, compliance with the rolling, 12-month period emission limitation shall also be demonstrated.

e. 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 with the visible emission limitation shall be determined in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

g) Miscellaneous Requirements

(1) None.



9. P913, Deslagging #2

Operations, Property and/or Equipment Description:

Deslagging #2 with Baghouse (SR-2162)

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)a., b)(2)a., b)(2)b., c)(1), c)(2), d)(1), e)(1), e)(4) and f)(1)a. through f)(1)e.

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(D)	0.16 lb particulate matter less than or equal to 10 microns in diameter (PM ₁₀)/hr from the baghouse exhaust stack 0.16 ton of PM ₁₀ per rolling, 12-month period from the baghouse exhaust stack Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack. 1.80 tons of fugitive PM ₁₀ per rolling, 12-month period Visible fugitive PE shall not exceed 20% opacity, as a three-minute average from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		emissions unit. See b)(2)a., b)(2)b. and c)(1)
b.	OAC rule 3745-31-05(A)(3)	See b)(2)c.
c.	OAC rule 3745-17-08(B)	See b)(2)e.
d.	OAC rule 3745-17-07(A)	See b)(2)f.
e.	OAC rule 3745-17-07(B)	See b)(2)d.
f.	OAC rule 3745-17-11(B)	See b)(2)e.

(2) Additional Terms and Conditions

- a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE) to avoid Title V requirements. The federally enforceable emission limitations are based on the operational restrictions contained in c)(1):
 - i. 0.16 lb PM₁₀/hr, from the baghouse exhaust stack;
 - ii. 0.16 ton of PM₁₀ per rolling, 12-month period from the baghouse exhaust stack;
 - iii. Visible PE shall not exceed 20% opacity, as a 6-minute average, from the baghouse exhaust stack;
 - iv. 1.80 tons of fugitive PM₁₀ per rolling, 12-month period; and
 - v. Visible fugitive PE 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.
- b. All PM₁₀ emissions are particulate emissions.
- b. Best Available Technology (BAT) requirements for this emissions unit have been determined to be compliance with OAC rule 3745-31-05(D) and compliance with the terms and conditions of this permit.
- c. This emissions unit is exempt from the visible emissions limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. This emissions unit is not located within an "Appendix A" area identified 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).
- e. This emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).



c) Operational Restrictions

(1) The following operational restrictions have been included in this permit for the purpose of establishing federally enforceable requirements which limit potential to emit [See b)(2)a.):

- a. This emission unit shall be vented to a baghouse (SR-2162) capable of achieving a 90% capture and a 99% control efficiency.
- b. The maximum annual metal throughput for this emissions unit shall not exceed 19,999 tons, based upon a rolling, 12-month summation of the metal throughput rates.

This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the production rate, upon issuance of this permit. The maximum annual production rate for this emissions unit shall not exceed 19,999 tons/year, based upon a rolling, 12-month summation of the production rates.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the following information:

- a. the metal throughput rate for each month, in tons; and
- b. the rolling, 12-month summation of the metal throughput rates, 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 the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(2)d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

e) Reporting Requirements

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

- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. all exceedances of the rolling, 12-month metal throughput rate limitation.
- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

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

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (Ohio EPA, Northwest District Office).

(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 permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

(3) 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 Northwest District Office, 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.

- (4) The permittee shall also identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(2) above:
 - a. all days during which any visible particulate emissions were observed from the baghouse exhaust stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible emissions.
- (5) 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.

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:

0.16 lb PM₁₀/hr from the baghouse exhaust stack

Applicable Compliance Method:

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

*The potential to emit is based on multiplying the maximum metal throughput rate of 10 tons/hr by an emission factor of 1.8 lbs PM₁₀/ton, AP-42 Chapter 12.10-7 (1/95), then applying a 90% capture rate (0.90) and a 99% control efficiency (1 – 0.99).

If required, the permittee shall demonstrate compliance by testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1-4 and 40 CFR, Part 51, Appendix M, Methods 201/201A and 202.

- b. Emission Limitation:

0.16 ton of PM₁₀ per rolling, 12-month period from the baghouse exhaust stack

Applicable Compliance Method:

The rolling, 12-month period emission limitation was developed by multiplying the maximum annual metal throughput rate of 19,999 tons by an emission factor of 1.8 lbs PM₁₀/ton, AP-42 Table 12.10-7 (1/95), applying a 90% capture rate (0.90)



and a 99% control efficiency (1 – 0.99), then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the rolling, 12-month metal throughput production restriction, compliance with the rolling, 12-month period emission limitation shall also be demonstrated.

c. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a six-minute average, from the baghouse exhaust stack.

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

d. Emission Limitation:

1.80 tons of fugitive PM₁₀ per rolling, 12-month period

Applicable Compliance Method:

The rolling, 12-month period emission limitation was developed by multiplying the maximum annual metal throughput rate of 19,999 tons by an emission factor of 1.8 lb PM₁₀/ton, AP-42 Table 12.10-7 (1/95), applying a 10% capture inefficiency rate (0.10), then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the rolling, 12-month metal throughput production restriction, compliance with the rolling, 12-month period emission limitation shall also be demonstrated.

e. 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 with the visible emission limitation shall be determined in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

g) Miscellaneous Requirements

(1) None.