



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

11/4/2015

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

Certified Mail

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

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0333010042  
 Permit Number: P0119633  
 Permit Type: Renewal  
 County: Hardin

Dear Permit Holder:

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

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

**How to appeal this permit**

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

## **How to save money, reduce pollution and reduce energy consumption**

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: [www.ohioairquality.org/clean\\_air](http://www.ohioairquality.org/clean_air)

## **How to give us feedback on your permitting experience**

Please complete a survey at [www.epa.ohio.gov/survey.aspx](http://www.epa.ohio.gov/survey.aspx) and give us feedback on your permitting experience. We value your opinion.

## **How to get an electronic copy of your permit**

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

If you have any questions, please contact Ohio EPA DAPC, Northwest District Office at (419)352-8461 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



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

Cc: Ohio EPA-NWDO



**FINAL**

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

Facility ID:	0333010042
Permit Number:	P0119633
Permit Type:	Renewal
Issued:	11/4/2015
Effective:	11/4/2015
Expiration:	11/4/2020





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

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**Final Permit-to-Install and Operate**  
Kenton Iron Products Vision Drive Facility  
**Permit Number:** P0119633  
**Facility ID:** 0333010042  
**Effective Date:** 11/4/2015

## Authorization

Facility ID: 0333010042  
Application Number(s): A0054439, A0054440, A0054442, A0054443  
Permit Number: P0119633  
Permit Description: FEPTIO renewal permit for two core making operations, a mold making operation and a shot blast unit with baghouse control.  
Permit Type: Renewal  
Permit Fee: \$0.00  
Issue Date: 11/4/2015  
Effective Date: 11/4/2015  
Expiration Date: 11/4/2020  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

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

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

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

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

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

  
Craig W. Butler  
Director



## Authorization (continued)

Permit Number: P0119633

Permit Description: FEPTIO renewal permit for two core making operations, a mold making operation and a shot blast unit with baghouse control.

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

<b>Emissions Unit ID:</b>	<b>F005</b>
Company Equipment ID:	Core Making
Superseded Permit Number:	P0115367
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>F006</b>
Company Equipment ID:	Sand Mixer
Superseded Permit Number:	P0115368
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>F009</b>
Company Equipment ID:	Mold Making
Superseded Permit Number:	P0114423
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P006</b>
Company Equipment ID:	Tumbleblast
Superseded Permit Number:	P0109931
General Permit Category and Type:	Not Applicable



**Final Permit-to-Install and Operate**  
Kenton Iron Products Vision Drive Facility  
**Permit Number:** P0119633  
**Facility ID:** 0333010042  
**Effective Date:** 11/4/2015

## **A. Standard Terms and Conditions**

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

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

**2. Who is responsible for complying with this permit?**

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

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

**3. What records must I keep under this permit?**

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

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

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

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

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

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

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

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

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

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

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

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

**7. What reports must I submit under this permit?**

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

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

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

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

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

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

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

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

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

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

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

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

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

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

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

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

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

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

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

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

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

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



**Final Permit-to-Install and Operate**  
Kenton Iron Products Vision Drive Facility  
**Permit Number:** P0119633  
**Facility ID:** 0333010042  
**Effective Date:** 11/4/2015

## **B. Facility-Wide Terms and Conditions**

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
  - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
    - (1) None.
  - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
    - (1) None.
2. All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.
3. 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 following U.S. EPA website: <http://www.epa.gov/ttn/atw/area/arearules.html>

The area source MACT/GACT rule that may be applicable is 40 CFR, Part 63, Subpart ZZZZZ (Area Sources Iron and Steel Foundries).



**Final Permit-to-Install and Operate**  
Kenton Iron Products Vision Drive Facility  
**Permit Number:** P0119633  
**Facility ID:** 0333010042  
**Effective Date:** 11/4/2015

## **C. Emissions Unit Terms and Conditions**

**1. F005, Core Making**

**Operations, Property and/or Equipment Description:**

Core making operations (Mixer VMX 2) - Sand mixer and core filling

- 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., c)(1), d)(1), d)(2), e)(1), 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)	9.00 tons of volatile organic compounds (VOC) per rolling, 12-month period  1.95 tons of fugitive particulate matter 10 microns in size or less (PM <sub>10</sub> ) per rolling, 12-month period  Visible fugitive particulate emissions (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  See b)(2)a. and c)(1)
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001	See b)(2)b.
c.	OAC rule 3745-31-05(A)(3), as effective 12/01/2006	See b)(2)c.
d.	OAC rule 3745-17-07(B)	See b)(2)d.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	OAC rule 3745-17-08(B)	See b)(2)e.
f.	OAC rule 3745-21-07(M)	See b)(2)f.

(2) Additional Terms and Conditions

- a. This permit establishes the following federally enforceable limitations for purposes of avoiding Title V permitting requirements. The federally enforceable limitations are based on operational restrictions in c)(1):
  - i. 9.00 tons of VOC per rolling, 12-month period;
  - ii. 1.95 tons of fugitive PM<sub>10</sub> per rolling, 12-month period; and
  - iii. 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. The permittee has satisfied the BAT requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective 11/30/2001, in this permit for PM<sub>10</sub> and VOC emissions. The requirements of this rule are equivalent to the requirements established pursuant to OAC rule 3745-31-05(D), therefore, the permittee has satisfied the BAT requirements pursuant to OAC rule 3745-31-05(A)(3), as effective 11/30/01, 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 (SB 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants 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 revisions 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, these emission limitations/control measures no longer apply.

It should be noted that the emission limitations and control requirements established pursuant to OAC rule 3745-31-05(D) will remain applicable after the above SIP revisions are approved by the U.S. EPA.

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

BAT requirements under OAC rule 3745-31-05(A)(3), as effective December 1, 2006, do not apply to the PM<sub>10</sub> and VOC emissions since the potential to emit is less than 10 tons per year, taking into consideration the federally enforceable requirements under OAC rule 3745-31-05(D).

- d. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
  - e. This facility is not located within an "Appendix A" area as defined in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
  - f. This emissions unit is not subject to the requirements of this rule because it does not meet all of the conditions outlined in OAC rule 3745-21-07(M)(3)(a).
- c) Operational Restrictions
- (1) The maximum annual sand usage shall not exceed 15,000 tons per year based on a rolling, 12-month summation. In addition, the maximum annual binder usage shall not exceed 180 tons per year based on a rolling, 12-month summation.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall maintain monthly records of the following information:
    - a. the amount of sand used each month, in tons;
    - b. the amount of binder used each month, in tons;
    - c. the rolling, 12-month summation of sand used, in tons; and
    - d. the rolling, 12-month summation of binder used, in tons.
  - (2) The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed the permittee shall also note the following in the operations log:
    - a. the location and color of the emissions;
    - b. whether the emissions are representative of normal operations;
    - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    - d. the total duration of any visible emissions incident; and
    - e. any corrective actions taken to minimize or eliminate any visible emissions.

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 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 deviation (excursion) reports that identify:

- a. all deviations of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the PTE of any regulated air pollutant and have been detected by the monitoring, recordkeeping, and/or testing requirements in this permit:
  - i. all exceedances of the maximum annual sand and binder usage rates specified in c)(1);
  - ii. all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
  - iii. any corrective actions taken to eliminate the visible fugitive particulate emissions.
- b. the probable cause of each deviation;
- c. any corrective actions that were taken to remedy the deviations or prevent future deviations; and
- d. the magnitude and duration of each deviation.

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

The quarterly reports shall be submitted 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 (the appropriate District Office or local air agency).

- (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.

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: 9.00 tons of VOC per rolling, 12-month period

Applicable Compliance Method:

The rolling, 12-month VOC limitation was developed by multiplying the maximum annual binder usage of 180 tons by a conversion factor of 2000 lbs and an emission factor of 0.05 lb of VOC\*/lb of binder, then dividing by 2000 lbs.

Compliance with the rolling, 12-month VOC limitation shall be demonstrated through recordkeeping requirements specified in section d)(1). Therefore, provided compliance is shown with the annual restriction by means of the monitoring and recordkeeping requirement in d)(1), compliance with the annual emission limitation shall also be demonstrated.

\* The VOC emission factor was provided by the resin supplier, Ask Chemical (x1000/x2000/53-308)

- b. Emission Limitation: 1.95 tons of PM<sub>10</sub> per rolling, 12-month period

Applicable Compliance Method:

The rolling, 12-month PM<sub>10</sub> limitation was developed by multiplying the maximum annual sand usage of 15,000 tons by an emission factor of 0.26 lb of PM<sub>10</sub>\*/ton of sand, then dividing by 2000 lbs.

Compliance with the rolling 12-month PM<sub>10</sub> limitation shall be demonstrated through recordkeeping requirements specified in section d)(1). Therefore, provided compliance is shown with the annual restriction by means of the monitoring and recordkeeping requirement in d)(1), compliance with the annual emission limitation shall also be demonstrated.

\* The PM<sub>10</sub> emission factor was provided via U.S. EPA's PM Calculator, SCC 30400350

- c. Emission Limitation: 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

Applicable Compliance Method:

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

- g) Miscellaneous Requirements

- (1) None.

**2. F006, Sand Mixer**

**Operations, Property and/or Equipment Description:**

Cold box chromite core making operations (Mixer VMX 3) - Sand Mixer and core filling

- 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., c)(1), d)(1), d)(2), e)(1), 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)	8.32 tons of volatile organic compounds (VOC) per rolling, 12-month period  0.28 ton of fugitive particulate matter 10 microns in size or less (PM <sub>10</sub> ) per rolling, 12-month period  Visible fugitive particulate emissions (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  See b)(2)a. and c)(1)
b.	OAC rule 3745-31-05(A)(3)(a)	See b)(2)b.
c.	OAC rule 3745-17-07(B)	See b)(2)c.
d.	OAC rule 3745-17-08(B)	See b)(2)d.
e.	OAC rule 3745-21-07(M)	See b)(2)e.

(2) Additional Terms and Conditions

- a. This permit establishes the following federally enforceable limitations for purposes of avoiding Title V permitting requirements. The federally enforceable limitations are based on operational restrictions in c)(1):
  - i. 8.32 tons of VOC per rolling, 12-month period;
  - ii. 0.28 ton of fugitive PM<sub>10</sub> per rolling, 12-month period; and
  - iii. 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. The “Best Available Technology” (BAT) for this emissions unit has been determined to be compliance with OAC rule 3745-31-05(D) and the terms and conditions of this permit.
- c. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. This facility is not located within an “Appendix A” area as defined in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- e. This emissions unit is not subject to the requirements of this rule because it does not meet all of the conditions outlined in OAC rule 3745-21-07(M)(3)(a).
- f. This renewal permit does not involve any physical modification to the emissions unit. However, new emission factors are being used that increase current permitted levels. In addition, PM<sub>10</sub> limits are being established.

c) Operational Restrictions

- (1) The maximum annual sand usage shall not exceed 2,132 tons per year based on a rolling, 12-month summation. In addition, the maximum annual binder usage shall not exceed 32 tons per year based on a rolling, 12-month summation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
  - a. the amount of sand used each month, in tons;
  - b. the amount of binder used each month, in tons;
  - c. the rolling, 12-month summation of sand used, in tons; and
  - d. the rolling, 12-month summation of binder used, in tons.

- (2) The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed the permittee shall also note the following in the operations log:
- a. the location and color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emissions incident; and
  - e. any corrective actions taken to minimize or eliminate any visible emissions.

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 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 deviation (excursion) reports that identify:
- a. all deviations of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the PTE of any regulated air pollutant and have been detected by the monitoring, recordkeeping, and/or testing requirements in this permit:
    - i. all exceedances of the maximum annual sand and binder usage rates specified in c)(1);
    - ii. all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
    - iii. any corrective actions taken to eliminate the visible fugitive particulate emissions.
  - b. the probable cause of each deviation;

- c. any corrective actions that were taken to remedy the deviations or prevent future deviations; and
- d. the magnitude and duration of each deviation.

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

The quarterly reports shall be submitted 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 (the appropriate District Office or local air agency).

- (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.

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:

8.32 tons of VOC per rolling, 12-month period

Applicable Compliance Method:

The rolling, 12-month VOC limitation was developed by multiplying the maximum annual binder usage of 32 tons by a conversion factor of 2000 lbs and an emission factor of 0.26 lb of VOC\*/lb of binder, then dividing by 2000 lbs.

Compliance with the rolling, 12-month VOC limitation shall be demonstrated through recordkeeping requirements specified in section d)(1). Therefore, provided compliance is shown with the annual restriction by means of the monitoring and recordkeeping requirement in d)(1), compliance with the annual emission limitation shall also be demonstrated.

\* The VOC emission factor was provided by the resin supplier, Ask Chemical (Novaset 6008A, 6018, and HP binder – based on 77% binder and 23% co-reactant split).

- b. Emission Limitation:

0.28 ton of PM<sub>10</sub> per rolling, 12-month period



Applicable Compliance Method:

The rolling, 12-month PM<sub>10</sub> limitation was developed by multiplying the maximum annual sand usage of 2,132 tons by an emission factor of 0.26 lb of PM<sub>10</sub>\*/ton of sand, then dividing by 2000 lbs.

Compliance with the rolling 12-month PM<sub>10</sub> limitation shall be demonstrated through recordkeeping requirements specified in section d)(1). Therefore, provided compliance is shown with the annual restriction by means of the monitoring and recordkeeping requirement in d)(1), compliance with the annual emission limitation shall also be demonstrated.

\* The PM<sub>10</sub> emission factor was provided via U.S. EPA's PM Calculator, SCC 30400350

c. Emission Limitation:

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

Applicable Compliance Method:

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

g) Miscellaneous Requirements

(1) None.

**3. F009, Mold Making**

**Operations, Property and/or Equipment Description:**

VMX1 Mixer with Existing Carousel and Rollover Equipment

- 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., c)(1), d)(1), d)(2), e)(1), 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)	23.60 tons of volatile organic compounds (VOC) per rolling, 12-month period  5.20 tons of fugitive particulate matter 10 microns in size or less (PM <sub>10</sub> ) per rolling, 12-month period  Visible fugitive particulate emissions (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  See b)(2)a. and c)(1)
b.	ORC rule 3704.03(T)	See b)(2)b.
c.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001	See b)(2)c
d.	OAC rule 3745-31-05(A)(3), as effective 12/01/2006	See b)(2)d.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	OAC rule 3745-17-07(B)	See b)(2)e.
f.	OAC rule 3745-17-08(B)	See b)(2)f.

(2) Additional Terms and Conditions

- a. This permit establishes the following federally enforceable limitations for purposes of avoiding Title V permitting requirements. The federally enforceable limitations are based on operational restrictions in c)(1):
  - i. 23.60 tons of VOC per rolling, 12-month period;
  - ii. 5.20 tons of fugitive PM<sub>10</sub> per rolling, 12-month period; and
  - iii. 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. In accordance with ORC rule 3704.03(T), Best Available Technology (BAT) for VOC emissions from this emissions unit has been determined to be compliance with OAC rule 3745-31-05(D).

c. The permittee has satisfied the BAT requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective 11/30/2001, in this permit for PM<sub>10</sub>. The requirements of this rule are equivalent to the requirements established pursuant to OAC rule 3745-31-05(D), therefore, the permittee has satisfied the BAT requirements pursuant to OAC rule 3745-31-05(A)(3), as effective 11/30/01, 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 (SB 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants 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 revisions 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, these emission limitations/control measures no longer apply.

It should be noted that the emission limitations and control requirements established pursuant to OAC rule 3745-31-05(D) will remain applicable after the above SIP revisions are approved by the U.S. EPA.

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

BAT requirements under OAC rule 3745-31-05(A)(3), as effective December 1, 2006, do not apply to the PM<sub>10</sub> emissions since the potential to emit is less than

10 tons per year, taking into consideration the federally enforceable requirements under OAC rule 3745-31-05(D).

- e. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- f. This facility is not located within an "Appendix A" area as defined in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

c) Operational Restrictions

- (1) The maximum annual sand usage shall not exceed 40,000 tons per year based on a rolling, 12-month summation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
  - a. the amount of sand used each month, in tons; and
  - b. the rolling, 12-month summation of sand used, in tons.
- (2) The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed the permittee shall also note the following in the operations log:
  - a. the location and color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emissions incident; and
  - e. any corrective actions taken to minimize or eliminate any visible emissions.

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 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 deviation (excursion) reports that identify:

- a. all deviations of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the PTE of any regulated air pollutant and have been detected by the monitoring, recordkeeping, and/or testing requirements in this permit:
  - i. all exceedances of the maximum annual sand usage restriction specified in c)(1);
  - ii. all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
  - iii. any corrective actions taken to eliminate the visible fugitive particulate emissions.
- b. the probable cause of each deviation;
- c. any corrective actions that were taken to remedy the deviations or prevent future deviations; and
- d. the magnitude and duration of each deviation.

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

The quarterly reports shall be submitted 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 (the appropriate District Office or local air agency).

(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.

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:  
23.60 tons of VOC per rolling, 12-month period

Applicable Compliance Method:

The rolling, 12-month VOC limitation was developed by multiplying the maximum annual sand usage of 40,000 tons by an emission factor of 1.18 lbs of VOC\*/ton of sand, then dividing by 2000 lbs.

Compliance with the rolling, 12-month VOC limitation shall be demonstrated through recordkeeping requirements specified in section d)(1). Therefore, provided compliance is shown with the annual restriction by means of the monitoring and recordkeeping requirement in d)(1), compliance with the annual emission limitation shall also be demonstrated.

\* The VOC emission factor was provided by the resin supplier, Ask Chemical (x1000/x2000/53-308)

- b. Emission Limitation:  
5.20 tons of PM<sub>10</sub> per rolling, 12-month period

Applicable Compliance Method:

The rolling, 12-month PM<sub>10</sub> limitation was developed by multiplying the maximum annual sand usage of 40,000 tons by an emission factor of 0.26 lb of PM<sub>10</sub>\*/ton of sand, then dividing by 2000 lbs.

Compliance with the rolling 12-month PM<sub>10</sub> limitation shall be demonstrated through recordkeeping requirements specified in section d)(1). Therefore, provided compliance is shown with the annual restriction by means of the monitoring and recordkeeping requirement in d)(1), compliance with the annual emission limitation shall also be demonstrated.

\* The PM<sub>10</sub> emission factor was provided via U.S. EPA's PM Calculator, SCC 30400350

- c. Emission Limitation:  
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

Applicable Compliance Method:

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

- g) Miscellaneous Requirements  
(1) None.

**4. P006, Tumbleblast**

**Operations, Property and/or Equipment Description:**

Tumbleblast (Shot Blast) with Baghouse

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
  - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
    - a. None.
  - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
    - a. b)(1)a., b)(2)a., c)(1), d)(1), e)(1), f)(1)a., and f)(1)b.
- 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)	0.30 lb of particulate matter 10 microns or less in size (PM <sub>10</sub> )/hour;  1.31 tons of PM <sub>10</sub> /year  Visible particulate emissions (PE) from any stack serving this emissions unit shall not exceed five percent opacity, as a six-minute average.  See b)(2)a. and c)(1)
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001	See b)(2)b.
c.	OAC rule 3745-31-05(A)(3), as effective 12/01/2006	See b)(2)c.
d.	OAC rule 3745-17-07(A)	See b)(2)d.
e.	OAC rule 3745-17-11(B)	See b)(2)d.

(2) Additional Terms and Conditions

- a. This permit establishes the following federally enforceable limitations for purposes of avoiding Title V permitting requirements. The federally enforceable limitations are based on an operational restriction in c)(1):

- i. 0.30 lb of PM<sub>10</sub>/hour;
- ii. 1.31 tons of PM<sub>10</sub>/year; and
- iii. Visible emission restrictions.

- b. The permittee has satisfied the BAT requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective 11/30/2001, in this permit for PM<sub>10</sub>. The requirements of this rule are equivalent to the requirements established pursuant to OAC rule 3745-31-05(D), therefore, the permittee has satisfied the BAT requirements pursuant to OAC rule 3745-31-05(A)(3), as effective 11/30/01, 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 pollutants 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 revisions 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, these emission limitations/control measures no longer apply.

It should be noted that the emission limitations and control requirements established pursuant to OAC rule 3745-31-05(D) will remain applicable after the above SIP revisions are approved by the U.S. EPA.

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

BAT requirements under OAC rule 3745-31-05(A)(3), as effective December 1, 2006, do not apply to the PM<sub>10</sub> emissions since the potential to emit is less than 10 tons per year, taking into consideration the federally enforceable requirements under OAC rule 3745-31-05(D).

- d. The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

c) Operational Restrictions

- (1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit PTE:

- a. Use of a baghouse achieving a maximum outlet concentration of 0.01 grain per dry standard cubic foot.

d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall perform daily checks when the emissions unit is in operation and when 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 eliminate the visible emissions.

e) **Reporting Requirements**

- (1) The permittee shall submit deviation (excursion) reports that identify:
  - a. all deviations of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the PTE of any regulated air pollutant and have been detected by the monitoring, recordkeeping, and/or testing requirements in this permit:
    - i. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
    - ii. any corrective actions taken to eliminate the visible particulate emissions.
  - b. the probable cause of each deviation;
  - c. any corrective actions that were taken to remedy the deviations or prevent future deviations; and
  - d. the magnitude and duration of each deviation.

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

The quarterly reports shall be submitted 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 (the appropriate District Office or local air agency).

- (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.

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 Limitations  
0.30 lb of PM<sub>10</sub>/hour; 1.31 tons of PM<sub>10</sub>/year

Applicable Compliance Methods

The hourly emission rate was determined by multiplying a maximum outlet concentration of 0.01 grain/dscf by a maximum volumetric air flow rate of 3500 acfm, 60 minutes/hour, and by 1 pound/7000 grains.

If required, the permittee shall demonstrate compliance with the hourly PM<sub>10</sub> limitation based on the results of emission testing conducted in accordance with Methods 1-4 of 40 CFR Part 60, Appendix A, and Methods 201, 201A and 202 of 40 CFR Part 51, Appendix M.

The annual limitation was developed by multiplying the hourly emission rate by a maximum operating schedule of 8760 hours/year, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual limitation shall also be demonstrated.

- b. Emission Limitation  
Visible PE from any stack serving this emissions unit shall not exceed five percent opacity, as a six-minute average.

Applicable Compliance Method

If required, compliance with the visible PE shall be demonstrated through visible emissions observations performed in accordance with the methods and procedures specified in Method 9 of 40 CFR Part 60, Appendix A.

g) Miscellaneous Requirements

- (1) None.