



State of Ohio Environmental Protection Agency

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50 W. Town St., Suite 700
Columbus, Ohio 43215

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P.O. Box 1049
Columbus, OH 43216-1049

4/14/2009

PATRICK MONTGOMERY
MARTIN MARIETTA MATERIALS INC - PLANT 41
4770 Duke Dr.
Ste 200
Mason, OH 45040

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 1483000168
Permit Number: P0100411
Permit Type: Renewal
County: Warren

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR
No	CEMS
No	MACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

Dear Permit Holder:

Enclosed please find a final 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.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, www.epa.state.oh.us/dapc, from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of \$70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions regarding this permit, please contact the Hamilton County Dept. of Environmental Services. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page www.epa.state.oh.us/dapc.

Sincerely,

Michael W. Ahern
Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: HCDOES

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director



**State of Ohio Environmental Protection Agency
Division of Air Pollution Control**

FINAL

**Air Pollution Permit-to-Install and Operate
for
MARTIN MARIETTA MATERIALS INC - PLANT 41**

Facility ID: 1483000168
Permit Number: P0100411
Permit Type: Renewal
Issued: 4/14/2009
Effective: 4/14/2009
Expiration: 4/14/2019



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Air Pollution Permit-to-Install and Operate
for
MARTIN MARIETTA MATERIALS INC - PLANT 41

Table of Contents

Authorization 1

A. Standard Terms and Conditions 3

 1. What does this permit-to-install and operate ("PTIO") allow me to do?..... 4

 2. Who is responsible for complying with this permit? 4

 3. What records must I keep under this permit? 4

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

 5. When does my PTIO expire, and when do I need to submit my renewal application? 4

 6. What happens to this permit if my project is delayed or I do not install or modify my source? 5

 7. What reports must I submit under this permit? 5

 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? 5

 9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?... 5

 10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report? 6

 11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located? 6

 12. What happens if one or more emissions units operated under this permit is/are shut down permanently? 6

 13. Can I transfer this permit to a new owner or operator? 6

 14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"? 7

 15. What happens if a portion of this permit is determined to be invalid? 7

B. Facility-Wide Terms and Conditions..... 8

C. Emissions Unit Terms and Conditions 10

 1. F002, Sand and Gravel Plant.....11



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate
Permit Number: P0100411
Facility ID: 1483000168
Effective Date: 4/14/2009

Authorization

Facility ID: 1483000168
Application Number(s): A0032143
Permit Number: P0100411
Permit Description: Renewal of EU F002, consisting of crushers, screens, & conveyors; some equipment subject to 40 CFR Part 60, Subpart OOO
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 4/14/2009
Effective Date: 4/14/2009
Expiration Date: 4/14/2019
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

MARTIN MARIETTA MATERIALS INC - PLANT 41
7077 HOBART AVENUE
Franklin, OH 45005

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

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Hamilton County Dept. of Environmental Services
250 William Howard Taft Pkwy.
Cincinnati, OH 45219-2660
(513)946-7777

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

Chris Korleski
Director



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate
Permit Number: P0100411
Facility ID: 1483000168
Effective Date: 4/14/2009

Authorization (continued)

Permit Number: P0100411
Permit Description: Renewal of EU F002, consisting of crushers, screens, & conveyors; some equipment subject to 40 CFR Part 60, Subpart OOO

Permits for the following emissions unit(s) or groups of emissions units are in this document as indicated below:

Emissions Unit ID:	F002
Company Equipment ID:	Sand & Gravel Plant
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0100411

Facility ID: 1483000168

Effective Date: 4/14/2009

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 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 Hamilton County Dept. of Environmental Services 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



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0100411

Facility ID: 1483000168

Effective Date: 4/14/2009

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.



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0100411

Facility ID: 1483000168

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B. Facility-Wide Terms and Conditions



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0100411

Facility ID: 1483000168

Effective Date: 4/14/2009

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) 2.
2. Some equipment comprising emissions unit F002 is subject to 40 CFR Part 60, Subpart OOO. The complete NSPS requirements, including the NSPS General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District Office or local air agency.



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0100411

Facility ID: 1483000168

Effective Date: 4/14/2009

C. Emissions Unit Terms and Conditions



1. F002, Sand & Gravel Plant

Operations, Property and/or Equipment Description:

450 TPH sand and aggregate processing (crusher, screens, conveyors); some equipment subject to 40 CFR Part 60, Subpart OOO

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

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

a. None.

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

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(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. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 14-04763, issued 7/28/99)	The particulate emissions (PE) from this emissions unit shall not exceed 6.49 pounds per hour and 6.40 tons per year (TPY). The emissions of particulate matter ten microns and less (PM10) shall not exceed 2.28 pounds per hour and 2.24 TPY. See b)(2)a., b)(2)b., b)(2)c., b)(2)d., b)(2)e., b)(2)(i), c)(1), d)(1).
b.	OAC rule 3745-17-07(B)	See b)(2)f.
c.	OAC rule 3745-17-08(B)	See b)(2)g.
d.	40 CFR Part 60, Subpart OOO (40 CFR 60.670-60.676) [In accordance with 40 CFR 60.670 and 60.671, F002 contains affected facilities that commenced	Fugitive particulate emissions from the screen, transfer points on the belt conveyors or from any other affected facility shall not exceed 10 percent opacity. [40 CFR 60.672(b)]



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	construction, reconstruction, or modification after August 31, 1983 and constitutes a "nonmetallic mineral" processing plant. Affected facilities identified in b)(2)h.]	There shall be no visible fugitive particulate emissions from the affected facilities as outlined pursuant to the rules. [40 CFR 60.672(h)(1) and 40 CFR 60.672(h)(2)] See b)(2)j.
e.	40 CFR 60.1-19 [40 CFR 60.670(f)]	Table I to Subpart OOO of 40 CFR Part 60 – Applicability of Subpart A to Subpart OOO.

(2) Additional Terms and Conditions

- a. Fugitive particulate emissions from any transfer point on belt conveyors and from any other emissions point (excluding crushers and truck dumping) where process materials are not saturated, shall not exceed 10 percent opacity, as a six-minute average.
- b. Fugitive particulate emissions from any crusher shall not exceed 15 percent opacity as a six-minute average.
- c. Fugitive particulate emissions from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill, or storage bin shall have no visible emissions.
- d. Fugitive particulate emissions from screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line shall have no visible emissions.
- e. The hourly emissions limitations outlined in section b)(1) are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limitations.
- f. This emissions unit is exempt from the visible particulate emission limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
- g. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).



- h. The affected facilities in the nonmetallic mineral processing plant, emissions unit F002, subject to regulation under 40 CFR Part 60, Subpart OOO, and identified in the plant configuration drawing AN-PFD-008-001 contained in the permit application submitted February 23, 2005, are: 30"-1015' belt conveyor F5, 30"-1015' belt conveyor F-4, 4'x8' 2D Svedala screen, 30"-13' sand shuttle conveyor, 30"-65' sand stacker (fixed), 30"-332' belt conveyor F-3, 30"-798' belt conveyor F-2, 30"-170' belt conveyor F-1, 24"-85' conveyor #11 (elevating stacker) and 24"-230' conveyor #10.
- i. The permittee shall employ best available control measures for the purpose of ensuring compliance with the requirements outlined in b)(1)a., b)(2)a., b)(2)b., b)(2)c., and b)(2)d. In accordance with the permittee's permit application submitted February 23, 2005, the permittee has committed to apply water through spray nozzles at all points necessary to comply with the applicable requirements. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

- j. The affected facilities outlined in 40 CFR 60.672(h)(1) are the wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill, or storage bin. The affected facilities outlined in 40 CFR 60.672(h)(2) are the screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

c) Operational Restrictions

- (1) The maximum sand and aggregate processed by emissions unit F002 shall not exceed 885,600 tons per year.
- (2) There are no operational restrictions associated with 40 CFR Part 60, Subpart OOO.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the amount of sand and gravel processed, in tons, in this emissions unit.
- (2) For each material processing and handling operation that is not adequately enclosed, the permittee shall perform inspections of such material processing and handling operations in accordance with the following minimum frequencies in order to determine if control measures need to be implemented:

<u>Material Processing & Handling Operation(s)</u>	<u>Minimum Inspection Frequency</u>
All Operations	Once During Each Day of Operation



Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. The inspections shall be performed during representative, normal operating conditions.

- (3) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented.

The information in d)(3) shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (4) This emissions unit does not employ a wet scrubber, therefore the requirements of 40 CFR Part 60.674, Subpart OOO, do not apply.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director 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) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in d)(3) above:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
- (3) The permittee shall submit reports and notifications to the Appropriate Ohio EPA District Office or local air agency as required pursuant to 40 CFR Part 60, Subpart OOO, per the following section:

60.676(g) change in process due affecting visible emissions requirements

f) Testing Requirements

- (1) Compliance with the emissions limitations in b) of these terms and conditions shall be determined in accordance with the following methods identified below:



a. Emissions Limitations

The particulate emissions (PE) from this emissions unit shall not exceed 6.49 pounds per hour

The emissions of particulate matter ten microns and less (PM10) shall not exceed 2.28 pounds per hour

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the hourly PE and PM10 emissions limitations by multiplying the actual material throughput rates (tons/hr) for each conveyor, screen, and conveyor transfer point by the applicable emissions factors (EF) in AP-42, Fifth Edition, Chapter 11.19.2, Table 11.19.2-2, 8/04 and summing the totals for PE and PM10 emissions.

The PE and PM10 emissions limitations were established using information provided by the permittee in the permit application submitted February 23, 2005 and the referenced EFs in the following equations:

$$\begin{aligned}
 &450 \text{ tons/hr} \times 0.0012 \text{ pound PE/ton} = 0.54 \text{ pound per hour PE} \\
 &200 \text{ tons/hr} \times 0.0012 \text{ pound PE/ton} = 0.24 \text{ pound per hour PE} \\
 &100 \text{ tons/hr} \times 0.0012 \text{ pound PE/ton} = 0.12 \text{ pound per hour PE} \\
 &450 \text{ tons/hr} \times 0.0022 \text{ pound PE/ton} \times 3 \text{ screens} = 2.97 \text{ pound per hour PE} \\
 &200 \text{ tons/hr} \times 0.0022 \text{ pound PE/ton} \times 4 \text{ screens} = 1.76 \text{ pound per hour PE} \\
 &450 \text{ tons/hr} \times 0.00014 \text{ pound PE/ton} \times 8 \text{ points} = 0.50 \text{ pound per hour PE} \\
 &200 \text{ tons/hr} \times 0.00014 \text{ pound PE/ton} \times 13 \text{ points} = \underline{0.36 \text{ pound per hour PE}}
 \end{aligned}$$

6.49 pound per hour PE

$$\begin{aligned}
 &450 \text{ tons/hr} \times 0.00054 \text{ pound PM10/ton} = 0.24 \text{ pound per hour PM10} \\
 &200 \text{ tons/hr} \times 0.00054 \text{ pound PM10/ton} = 0.11 \text{ pound per hour PM10} \\
 &100 \text{ tons/hr} \times 0.00054 \text{ pound PM10/ton} = 0.054 \text{ pound per hour PM10} \\
 &450 \text{ tons/hr} \times 0.00074 \text{ pound PM10/ton} \times 3 \text{ screens} = 1.0 \text{ pound per hour PM10} \\
 &200 \text{ tons/hr} \times 0.00074 \text{ pound PM10/ton} \times 4 \text{ screens} = 0.59 \text{ pound per hour PM10} \\
 &450 \text{ tons/hr} \times 4.6 \text{ EE-5 pound PM10/ton} \times 8 \text{ points} = 0.17 \text{ pound per hour PM10} \\
 &200 \text{ tons/hr} \times 4.6 \text{ EE-5 pound PM10/ton} \times 13 \text{ points} = \underline{0.12 \text{ pound per hour PM10}}
 \end{aligned}$$

2.28 pound per hour PM10

b. Emissions Limitations

The particulate emissions (PE) from this emissions unit shall not exceed 6.40 tons per year (TPY)

The emissions of particulate matter ten microns and less (PM10) shall not exceed 2.24 TPY



Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the annual PE and PM10 emissions limitations by multiplying the actual material throughput rates (tons/yr) for each conveyor, screen, and conveyor transfer point by the applicable emissions factors (EF) in AP-42, Fifth Edition, Chapter 11.19.2, Table 11.19.2-2, 8/04 and summing the totals for PE and PM10 emissions.

The PE and PM10 emissions limitations were established using information provided by the permittee in the permit application submitted February 23, 2005 and the referenced EFs in the following equations:

$$\begin{aligned}
 &885,600 \text{ tons/yr} \times 0.0012 \text{ lb PE/ton} \times 1 \text{ ton/2000 lb} = 0.53 \text{ TPY PE} \\
 &393,600 \text{ tons/yr} \times 0.0012 \text{ lb PE/ton} \times 1 \text{ ton/2000 lb} = 0.24 \text{ TPY PE} \\
 &196,800 \text{ tons/yr} \times 0.0012 \text{ lb PE/ton} \times 1 \text{ ton/2000 lb} = 0.12 \text{ TPY PE} \\
 &885,600 \text{ tons/yr} \times 0.0022 \text{ lb PE/ton} \times 3 \text{ screens} \times 1 \text{ ton/2000 lb} = 2.92 \text{ TPY PE} \\
 &393,600 \text{ tons/yr} \times 0.0022 \text{ lb PE/ton} \times 4 \text{ screens} \times 1 \text{ ton/2000 lb} = 1.73 \text{ TPY PE} \\
 &885,600 \text{ tons/yr} \times 0.00014 \text{ lb PE/ton} \times 8 \text{ points} \times 1 \text{ ton/2000 lb} = 0.50 \text{ TPY PE} \\
 &393,600 \text{ tons/yr} \times 0.00014 \text{ lb PE/ton} \times 13 \text{ points} \times 1 \text{ ton/2000 lb} = \underline{0.36 \text{ TPY PE}}
 \end{aligned}$$

6.40 TPY PE

$$\begin{aligned}
 &885,600 \text{ tons/yr} \times 0.00054 \text{ lb PM10/ton} \times 1 \text{ ton/2000 lb} = 0.24 \text{ TPY PM10} \\
 &393,600 \text{ tons/yr} \times 0.00054 \text{ lb PM10/ton} \times 1 \text{ ton/2000 lb} = 0.11 \text{ TPY PM10} \\
 &196,800 \text{ tons/yr} \times 0.00054 \text{ lb PM10/ton} \times 1 \text{ ton/2000 lb} = 0.053 \text{ TPY PM10} \\
 &885,600 \text{ tons/yr} \times 0.00074 \text{ lb PM10/ton} \times 3 \text{ screens} \times 1 \text{ ton/2000 lb} = 0.98 \text{ TPY PM10} \\
 &393,600 \text{ tons/yr} \times 0.00074 \text{ lb PM10/ton} \times 4 \text{ screens} \times 1 \text{ ton/2000 lb} = 0.58 \text{ TPY PM10} \\
 &885,600 \text{ tons/yr} \times 4.6 \text{ EE-5 lb PM10/ton} \times 8 \text{ points} \times 1 \text{ ton/2000 lb} = 0.16 \text{ TPY PM10} \\
 &393,600 \text{ tons/yr} \times 4.6 \text{ EE-5 lb PM10/ton} \times 13 \text{ points} \times 1 \text{ ton/2000 lb} = \underline{0.12 \text{ TPY PM10}}
 \end{aligned}$$

2.24 TPY PM10

c. Emissions Limitations

Fugitive particulate emissions from the screen, transfer points on the belt conveyors or from any other affected facility shall not exceed 10 percent opacity [40 CFR 60.672(b)]

Fugitive particulate emissions from any transfer point on belt conveyors and from any other emissions point (excluding crushers and truck dumping) where process materials are not saturated, shall not exceed 10 percent opacity, as a six-minute average [OAC rule 3745-31-05(A)(3)]

Fugitive particulate emissions from any crusher shall not exceed 15 percent opacity as a six-minute average [OAC rule 3745-31-05(A)(3)]



Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the emissions limitations in accordance with Method 9 of 40 CFR Part 60, Appendix A with the additions referenced in 40 CFR 60.675(c)(1), (c)(3), and (c)(4)

Initial Method 9 performance tests pursuant to the requirement in 40 CFR Part 60.8 were conducted November 1, 2001, November 6, 2001 and June 3, 2002.

d. Emissions Limitations

Fugitive particulate emissions from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill, or storage bin shall have no visible emissions

Fugitive particulate emissions from screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line shall have no visible emissions

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the emissions limitations in accordance with Method 22 of 40 CFR Part 60, Appendix A.

g) Miscellaneous Requirements

- (1) None.