



Environmental  
Protection Agency

Ted Strickland, Governor  
Lee Fisher, Lt. Governor  
Chris Korleski, Director

11/17/2010

DAN CRAGO  
PIQUA MATERIALS INC./PIQUA MINERALS DIVI  
11641 MOSTELLER RD  
CINCINNATI, OH 45241

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

Facility ID: 0855780013  
Permit Number: P0106882  
Permit Type: Initial Installation  
County: Miami

Certified Mail

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

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

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Kevin Boyce," 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  
309 South Fourth Street, Room 222  
Columbus, OH 43215

If you have any questions, please contact Regional Air Pollution Control Agency at (937)225-4435 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPC Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc), by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

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

Cc: RAPCA





**FINAL**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
PIQUA MATERIALS INC./PIQUA MINERALS DIVI**

Facility ID: 0855780013  
Permit Number: P0106882  
Permit Type: Initial Installation  
Issued: 11/17/2010  
Effective: 11/17/2010  
Expiration: 2/26/2019





Division of Air Pollution Control
Permit-to-Install and Operate
for
PIQUA MATERIALS INC./PIQUA MINERALS DIVI

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? ..... 5
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"? ..... 6
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. F009, Material Handling Conveyors ..... 11
2. P013, Cage Mill..... 16





## Authorization

Facility ID: 0855780013  
Application Number(s): A0040246  
Permit Number: P0106882  
Permit Description: Initial installation permit for a 100 tons per hour pulverizer and two conveyors.  
Permit Type: Initial Installation  
Permit Fee: \$1,200.00  
Issue Date: 11/17/2010  
Effective Date: 11/17/2010  
Expiration Date: 2/26/2019  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

PIQUA MATERIALS INC./PIQUA MINERALS DIVI  
1750 WEST STATLER ROAD  
PIQUA, OH 45356

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:

Regional Air Pollution Control Agency  
117 South Main Street  
Dayton, OH 45422-1280  
(937)225-4435

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



## **Authorization (continued)**

Permit Number: P0106882

Permit Description: Initial installation permit for a 100 tons per hour pulverizer and two conveyors.

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>F009</b>
Company Equipment ID:	Material Handling Conveyors
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P013</b>
Company Equipment ID:	Cage Mill
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



## **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. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. 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 Regional Air Pollution Control Agency 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<sup>1</sup> 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 emissions 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

---

<sup>1</sup> Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

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.

## **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. The following emissions units contained in this permit are subject to 40 CFR Part 60 New Source Performance Standards (NSPS), Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants: F009 and P013. 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.

The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subpart OOO. The permittee shall also comply with all applicable requirements of 40 CFR Part 60, Subpart A (General Provisions) as identified in Table 1 of 40 CFR Part 60, Subpart OOO. Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 60, Subpart OOO, and Subpart A.

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



1. F009, Material Handling Conveyors

Operations, Property and/or Equipment Description:

Cage mill conveyors with water spray

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

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

a. None.

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

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

Table with 2 columns: Applicable Rules/Requirements and Applicable Emissions Limitations/Control Measures. Rows include OAC rule 3745-31-05(A)(3), OAC rule 3745-31-05(A)(3)(a)(ii), OAC rule 3745-17-07(B), and OAC rule 3745-17-08(B).



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		limitation established pursuant to 40 CFR Part 60, Subpart OOO.
e.	40 CFR Part 60, Subpart OOO (40 CFR 60.672(b))	The visible particulate emissions from any transfer point shall not exceed 10% opacity as a 6-minute average.
f.	40 CFR Part 60, Subpart A	Table 1 to Subpart OOO of 40 CFR Part 60 – identifies the applicable General Provisions of 40 CFR 60.1-19.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten 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, then these emission limitations/control measures no longer apply.
- b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan. The Best Available Technology (BAT) requirements of OAC rule 3745-31-05(A)(3) do not apply to the PE from this air contaminant source since the uncontrolled PE are less than 10 tons per year.
- c. The hourly and annual emissions limitations for PE was developed for PTIO purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

c) Operational Restrictions

- (1) Water sprays shall be operated at points necessary to ensure compliance with the visible fugitive emission limitations specified in b)(1)e. for transfer points, and conveying operations.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 60, Subpart OOO for affected facilities (as defined in 60.670 and 60.671), including the following sections:



60.674(b)	Monthly periodic inspection of spray nozzles in the wet suppression system
60.674(b)(1)	Periodic inspections of upstream water spray nozzles for affected facilities that rely on water carryover
60.674(b)(2)	Record of control method(s) employed in lieu of wet suppression water sprays
60.676(b)(1)	Record of periodic inspections of wet suppression system

e) Reporting Requirements

- (1) The permittee shall submit notifications and reports to the appropriate Ohio EPA district office or local air agency as required under 40 CFR Part 60, Subpart OOO, including the following sections:

60.670(d)(2) and 60.676(a)	Notification of equipment replacement
60.676(f)	Submission of all performance test results
60.676(g)	Notification of change to any wet material processing operation(s) prior to processing unsaturated materials
60.676(h) and 60.676(i)	Notifications of initial startup

- (2) 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.

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitation -

The PE from this emissions unit shall not exceed 0.6 pound per hour.

Applicable Compliance Method -

This emissions limitation is based upon the emission factor of 0.003 lb PE per ton of material transferred (AP-42, Table 11.9.2-2, August 2004) multiplied by the maximum process rate of 100 tons per hour multiplied by 2 transfer points.

b. Emission Limitation -

The PE from this emissions unit shall not exceed 2.63 TPY.

Applicable Compliance Method -

This emission limitation was developed by multiplying the 0.6 pound per hour limit by 8,760 hours/year, divided by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly emissions limitation, compliance is also shown with the annual allowable mass emission rate.

c. Emission Limitations:

The visible PE from any transfer point shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, fugitive visible particulate emission testing for new equipment, meeting the designation of affected facility in 40 CFR Part 60, Subpart OOO, associated with emissions unit F009 in accordance with the following requirements:

- i. The emission testing shall be conducted within 60 days after achieving maximum production but no later than 180 days after initial startup.

If the initial performance test date for an affected facility falls during a seasonal shutdown, the permittee may postpone the initial performance test until no later than 60 calendar days after resuming operation, upon approval from the appropriate Ohio EPA District Office or local air agency.

- ii. Compliance with the opacity limits as specified in b)(1)e. of this permit shall be determined by using US EPA Reference Test Method 9 (40 CFR Part 60) and the procedures specified in 40 CFR 60.675(c). The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
- iii. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
- iv. The duration of the Method 9 observations must be 30 minutes (five 6-minute averages) as specified in 60.675(c)(3). Compliance with the applicable fugitive emission limits in b)(1)e. shall be based upon the average of the five 6-minute averages.
- v. Alternative procedures for multiple emission points as specified in 60.675(e) may be used upon review and approval by the appropriate Ohio EPA District Office or local air agency.

- vi. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 60 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

g) **Miscellaneous Requirements**

- (1) None.

**2. P013, Cage Mill**

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

Cage Mill with baghouse - Limestone pulverizer at quarry

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
  - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
    - a. None.
  - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
    - a. None.
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	The particulate emissions (PE) from this emissions unit shall not exceed 0.014 grain per dry standard cubic foot and 9.58 tons per year (TPY).  See b)(2)a.  The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO and OAC rules 3745-17-07(A), 3745-17-07(B), 3745-17-08(B), and 3745-17-11(B).
b.	OAC rule 3745-31-05(E), as effective 12/01/06	See b)(2)b.
c.	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart OOO.
d.	OAC rule 3745-17-07(B)	The emission limitation specified by this

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart 000.
e.	OAC rule 3745-17-08(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart 000.
f.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and (E).
g.	40 CFR Part 60, Subpart 000 (40 CFR 60.672(a))	The control equipment for this emissions unit shall achieve an outlet emission rate of not greater than 0.032 gram of particulate emissions per dry standard cubic meter (0.014 grain per dry standard cubic foot) of exhaust gases  Visible particulate emissions from the stack serving this emissions unit shall not exceed 7% opacity as a 6-minute average.
f.	40 CFR Part 60, Subpart A	Table 1 to Subpart 000 of 40 CFR Part 60 – identifies the applicable General Provisions of 40 CFR 60.1-19.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten 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, then these emission limitations/control measures no longer apply.
- b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan. PTIO P0106882 for this air contaminant source takes into account the following voluntary restrictions (including the use of a baghouse), as proposed by the

permittee, for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A(3):

- i. The annual pulverized limestone production from this emissions unit shall not exceed 474,500 tons per year.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the pulverized limestone produced in this emissions unit, in tons.
- (2) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 60, Subpart OOO for affected facilities (as defined in 60.670 and 60.671), including the following sections:

60.674(c)	Quarterly visible emissions inspections using EPA reference method 22.
60.674(d)	Bag leak detection system as an alternative to quarterly visible emissions inspections
60.674(e)	Compliance with 40 CFR Part 63, Subpart AAAAA as an alternative to quarterly visible emissions inspections
60.676(b)	Record of periodic inspections

e) Reporting Requirements

- (1) The permittee shall submit notifications and reports to the appropriate Ohio EPA district office or local air agency as required under 40 CFR Part 60, Subpart OOO, including the following sections:

60.670(d)(2) and 60.676(a)	Notification of equipment replacement
60.676(f)	Submission of all performance test results
60.676(h) and 60.676(i)	Notifications of initial startup

- (2) 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. The permittee shall identify the following information in the annual PER:

- a. the pulverized limestone production rate, in tons, during the 12-month reporting period for this emissions unit.

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitation -

The PE from this emissions unit shall not exceed 9.58 TPY.

Applicable Compliance Method -

This emissions limitation is based upon the emission factor of 0.0404 lb PE per ton of material transferred (AP-42, Table 11.9.2-4, August 2004) multiplied by the annual production rate limitation of 474,500 tons per year

b. Emission Limitations:

The PE from this emissions unit shall not exceed 0.014 grain per dry standard cubic foot, and;

The visible particulate emissions from any transfer point shall not exceed 7% opacity as a 6-minute average.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emissions testing performed in accordance U.S. EPA Reference Methods 1 through 5 or 17 for PE and Reference Method 9 for opacity and the procedures specified and 40 CFR Part 60, Subpart OOO and in OAC rule 3745-17-03(B)(1) and (B)(10) associated with emissions unit P013 in accordance with the following requirements:

i. The emission testing shall be conducted within 60 days after achieving maximum production but no later than 180 days after initial startup and within 180 days of permit of expiration.

If the initial performance test date for an affected facility falls during a seasonal shutdown, the permittee may postpone the initial performance test until no later than 60 calendar days after resuming operation, upon approval from the appropriate Ohio EPA District Office or local air agency.

ii. Compliance with the PE limits as specified in b)(1)e. of this permit shall be determined by using US EPA Reference Test Methods 1 through 5 or 17 (40 CFR Part 60, Appendix A) and the procedures specified in 40 CFR 60.675(b)(1).

iii. Compliance with the opacity limits as specified in b)(1)e. of this permit shall be determined by using US EPA Reference Test Method 9 (40 CFR Part 60, Appendix A) and the procedures specified in 40 CFR 60.675(b)(2).

- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 60 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

g) **Miscellaneous Requirements**

- (1) None.