



Environmental
Protection Agency

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

11/4/2010

Quikrete Companies
Quikrete - Cincinnati
3490 Piedmont Road, NE
Suite 300
Atlanta, GA 30305

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

Facility ID: 1431232694
Permit Number: P0107054
Permit Type: Renewal
County: Hamilton

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	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 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 Hamilton County Dept. of Environmental Services at (513)946-7777 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, by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

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

Cc: HCDOES



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Quikrete - Cincinnati**

Facility ID: 1431232694
Permit Number: P0107054
Permit Type: Renewal
Issued: 11/4/2010
Effective: 11/4/2010
Expiration: 11/4/2020



Division of Air Pollution Control
Permit-to-Install and Operate
for
Quikrete - Cincinnati

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Authorization

Facility ID: 1431232694
Application Number(s): A0040122
Permit Number: P0107054
Permit Description: Renewal PTIO for all emissions units at the facility that were permitted under PTI 14-05638 issued 2/17/05.
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 11/4/2010
Effective Date: 11/4/2010
Expiration Date: 11/4/2020
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Quikrete - Cincinnati
5425 Kilby Road
Harrison, OH 45030

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



Authorization (continued)

Permit Number: P0107054
Permit Description: Renewal PTIO for all emissions units at the facility that were permitted under PTI 14-05638 issued 2/17/05.

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

- Emissions Unit ID: F001**
Company Equipment ID: Roadways and Parking Areas
Superseded Permit Number: 14-05638
General Permit Category and Type: Not Applicable
- Emissions Unit ID: F002**
Company Equipment ID: material handling and storage silos
Superseded Permit Number: 14-05638
General Permit Category and Type: Not Applicable
- Emissions Unit ID: F003**
Company Equipment ID: aggregate storage piles
Superseded Permit Number: 14-05638
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P001**
Company Equipment ID: Packaging Line #1
Superseded Permit Number: 14-05638
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P002**
Company Equipment ID: Packaging Line #2
Superseded Permit Number: 14-05638
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P003**
Company Equipment ID: Rotary Dryer
Superseded Permit Number: 14-05638
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P004**
Company Equipment ID: Fluid Bed Cooler
Superseded Permit Number: 14-05638
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P005**
Company Equipment ID: weigh hopper, mixer surge hopper and filling station
Superseded Permit Number: 14-05638
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 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 submitting¹ 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

¹ 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.

C. Emissions Unit Terms and Conditions



1. F001, Roadways and Parking Areas

Operations, Property and/or Equipment Description:

paved and unpaved roadways and parking areas

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. Row 1: a. OAC rule 3745-31-05(A)(3) | From paved roadways: Fugitive particulate emissions (PE) shall not exceed 0.10 ton/year. Fugitive particulate matter 10 microns or less in diameter (PM10) shall not exceed 0.02 ton/year. There shall be no visible PE except for one minute during any 60-minute period. The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust. See b)(2)a., b)(2)c. through b)(2)e. and b)(2)g.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>From unpaved roadways:</p> <p>Fugitive particulate emissions (PE) shall not exceed 4.86 tons/year.</p> <p>Fugitive particulate matter 10 microns or less in diameter (PM10) shall not exceed 1.18 tons/year.</p> <p>There shall be no visible PE except for 3 minutes during any 60-minute period.</p> <p>The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust.</p> <p>See b)(2)b. through b)(2)g.</p>
b.	OAC rule 3745-17-07(B)(4) and (B)(5).	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-08(B)	See b)(2)a. through b)(2)g.

(2) Additional Terms and Conditions

- a. The permittee shall employ best available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the paved roadways and parking areas by sweeping at sufficient frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- b. The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the unpaved roadways and parking areas by watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- c. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for paved and unpaved roadways and parking areas that are covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation

of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

- d. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- e. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- f. Any unpaved roadway or parking area that is subsequently paved, will require a permit for paved roadways and parking areas.
- g. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and parking areas in accordance with the following frequencies:

<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
all roads and parking areas	daily

- (2) Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and parking areas in accordance with the following frequencies:

<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
all roads and parking areas	daily

- (3) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

- (4) The permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - 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 and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in d)(4)d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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.

f) Testing Requirements

a. Emission Limitations:

From paved roadways:

Fugitive particulate emissions (PE) shall not exceed 0.10 ton/year.

Fugitive particulate matter 10 microns or less in diameter (PM10) shall not exceed 0.02 ton/year.

Applicable Compliance Method:

Compliance with fugitive PE and PM10 limitations shall be determined by using the emission factor equations in Section 13.2.1, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 12/03) for paved roadways. Should further updates in AP-42 occur, the most current equations for paved roads shall be used.

b. Emission Limitations:

From unpaved roadways:

Fugitive particulate emissions (PE) shall not exceed 4.86 tons/year.

Fugitive particulate matter 10 microns or less in diameter (PM10) shall not exceed 1.18 tons/year.

Applicable Compliance Method:

Compliance with fugitive PE and PM10 limitations shall be determined by using the emission factor equations in Section 13.2.1, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 12/03) for unpaved roadways. Should further updates in AP-42 occur, the most current equations for unpaved roads shall be used.

c. Emission Limitation:

There shall be no visible PE from paved roadways and parking areas except for a period of time not to exceed one minute during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

d. Emission Limitation:

There shall be no visible PE from unpaved roadways and parking areas except for a period of time not to exceed 3 minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

g) Miscellaneous Requirements

- (1) None.



2. F002, material handling and storage silos

Operations, Property and/or Equipment Description:

material handling and storage silos 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. 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)	<p>Fugitive particulate emissions (PE) shall not exceed 0.59 lb/hr and 2.57 tons per year (TPY).</p> <p>Fugitive emissions of particulate matter emissions 10 microns and less in diameter (PM10) shall not exceed 0.29 lb/hr and 1.28 TPY.</p> <p>Particulate emissions (PE) from the baghouse outlet shall not exceed 0.03 lb/hr and 0.29 TPY.</p> <p>Particulate matter 10 microns and less in diameter (PM10) from the baghouse outlet shall not exceed 0.01 lb/hr and 0.13 TPY.</p> <p>The requirements of this rule also include compliance with the requirements of OAC</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		rules 3745-17-07(A), OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B). See b)(2)a.
b.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule.
c.	OAC rule 3745-17-07(B)	Visible particulate emissions of fugitive dust shall not exceed twenty percent (20%) opacity, as a three minute average, except as specified by rule.
d.	OAC rule 3745-17-08(B)	The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see b)(2)b. through b)(2)f.).
e.	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

aggregate loading to wet hopper, transfer and loading to silos

- b. The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:

<u>material handling operation(s)</u>	<u>control measure(s)</u>
---------------------------------------	---------------------------

aggregate loading to wet hopper	maintain moisture content of wet aggregate
---------------------------------	--

transfer points and silo loading	enclosure with vent to baghouse
----------------------------------	---------------------------------

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- c. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of

the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

- d. The collection efficiency of the fugitive dust control system shall be sufficient to minimize or eliminate visible particulate emissions at the point of capture.
- e. The control equipment shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases.
- f. Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
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aggregate loading to wet hopper, transfer points and silo loading	once daily, when in operation
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- (2) The above-mentioned inspections shall be performed during representative, normal operating conditions.
- (3) The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- (4) 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 measure(s);
 - c. the dates the control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in d)(4)d. 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.

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.

f) Testing Requirements

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

a. Emission Limitations:

Fugitive particulate emissions (PE) shall not exceed 0.59 lb/hr and 2.57 tons per year (TPY).

Applicable Compliance Method:

The hourly and annual emission limitations were established by the following methodology:

$\text{lb/hr of PE} = 85 \text{ tons product/hour} \times 0.0069 \text{ lb PE/ton product}^*$.

$\text{TPY of PE} = 744600 \text{ tons product/year} \times 0.0069 \text{ lb PE/ton product} \times 1 \text{ ton/2000 lbs}$.

*PE emission factor of 0.0069 lb/ton is from PTI/PTIO application A0040122, received October 13, 2010.

b. Emission Limitations:

Fugitive emissions of particulate matter emissions 10 microns and less in diameter (PM10) shall not exceed 0.29 lb/hr and 1.28 TPY.

Applicable Compliance Method:

The hourly and annual emission limitations were established by the following methodology:

$\text{lb/hr of PM10} = 85 \text{ tons product/hour} \times 0.00345 \text{ lb PM10/ton product}^*$.

$\text{TPY of PM10} = 744600 \text{ tons product/year} \times 0.00345^* \text{ lb PM10/ton product} \times 1 \text{ ton/2000 lbs}$.

* PM10 emission factor of 0.00345 lb/ton is, from PTI/PTIO application A0040122, received October 13, 2010.

c. Emission Limitations:

Particulate emissions (PE) from the baghouse outlet shall not exceed 0.03 lb/hr and 0.29 TPY.

Applicable Compliance Method:

The hourly and annual emission limitations were established by the following methodology:

Lbs/hr of PE = [(60 tons product/hour x 0.003 lb PE/ton product* x 7 transfer points) + (60 tons product/hour x 0.003 lb PE/ton product x 5 transfer points) + (35 tons product/hour x 0.72 lb PE/ton x 1 transfer point)] x 1-.999.

TPY of PE = [(744600 tons product/year x 0.003 lb PE/ton product x 7 transfer points) + (744600 tons product/year x 0.003 lb PE/ton product x 5 transfer points) + (744600 tons product/hour x 0.72 lb PE/ton product* x 1 transfer point)] x 1-.999 x ton/2000 pounds.

*PE emission factor of 0.003 lb/ton product per transfer point and 0.72 lb/ton product for silo filling is from PTI/PTIO application A0040122, received October 13, 2010.

d. Emission Limitations:

Particulate matter 10 microns and less in diameter (PM10) from the baghouse outlet shall not exceed 0.01 lb/hr and 0.13 TPY.

The hourly and annual emission limitations were established by the following methodology:

Lbs/hr of PM10 = [(60 tons product/hour x 0.0015 lb PM10/ton product x 7 transfer points) + (60 tons product/hour x 0.0015 lb PM10/ton product x 5 transfer points) + (35 tons product/hour x 0.35 lb PM10/ton x 1 transfer point)] x 1-.999.

TPY of PM10 emissions = [(744600 tons product/year x 0.0015 lb PM10/ton* product x 7 transfer points) + (744600 tons product/year x 0.0015 lb PM10/ton product x 5 transfer points) + (744600 tons product/hour x 0.36 lb PM10/ton product* x 1 transfer point)] x 1-.999 x ton/2000 pounds.

*PM10 emission factor of 0.0015 lb/ton product per transfer point and 0.36 lb/ton product for silo filling is from PTI/PTIO application A0040122, received October 13, 2010.

(2) Emission Limitations:

Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

(3) Emission Limitations:

Visible particulate emissions of fugitive dust shall not exceed twenty percent (20%) opacity, as a three minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

(4) Emissions limitation:

PE shall not exceed 0.030 gr/dscf

Applicable Compliance Method:

If required, emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test method shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1-5 of 40 CFR Part 60, Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The emissions unit shall be operated at or near the maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

g) Miscellaneous Requirements

(1) None.



3. F003, aggregate storage piles

Operations, Property and/or Equipment Description:

aggregate storage piles

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	Particulate Emissions (PE) shall not exceed 1.23 TPY; particulate matter 10 microns and less in diameter (PM10) emissions shall not exceed 0.59 TPY. No visible particulate emissions except for one minute during any 60-minute period. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections b)(2)b. through b)(2)e.).
b.	OAC rule 3745-17-07(B)(6)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-08(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. The storage piles that are covered by this permit and subject to the above-mentioned requirements are listed below:

all
- b. The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintain moisture content of aggregate materials in order to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- c. The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- d. The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintain moisture content of aggregate materials in order to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- f. 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.

- c) Operational Restrictions
- (1) None.
- d) Monitoring and/or Recordkeeping Requirements
- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:
- | <u>storage pile identification</u> | <u>minimum load-in inspection frequency</u> |
|------------------------------------|---|
| all | weekly |
- (2) Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:
- | <u>storage pile identification</u> | <u>minimum load-out inspection frequency</u> |
|------------------------------------|--|
| all | weekly |
- (3) Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:
- | <u>storage pile identification</u> | <u>minimum wind erosion inspection frequency</u> |
|------------------------------------|--|
| all | weekly |
- (4) No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
- (5) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
- (6) The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- (7) The permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;

- 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 and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in d)(7)d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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.

f) Testing Requirements

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

Emission Limitation:

no visible particulate emissions except for one minute during any 60-minute period

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 22, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources").

- (2) Emission Limitations:

Particulate Emissions (PE) shall not exceed 0.67 TPY; particulate matter 10 microns and less in diameter (PM10) emissions shall not exceed 0.34 TPY.

Applicable Compliance Method:

The hourly and annual particulate emission limitations were established by the following methodology:

Compliance with fugitive PE limitations shall be determined by using the emission factor equations in Sections 13.2.4 and 13.2.5, in Compilation of Air Pollutant Emission

Factors, AP-42, Fifth Edition, Volume 1 (revised 1/95), for load-in operations, load-out operations, and wind erosion.

g) Miscellaneous Requirements

(1) None.



4. P001, Packaging Line #1

Operations, Property and/or Equipment Description:

weigh hopper, mixer surge hopper and filling station 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. 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)	<p>Particulate emissions (PE) from the fabric filter stack shall not exceed 0.45 lb/hr and 1.97 tons/yr.</p> <p>Particulate matter 10 microns and less in diameter (PM10) emissions from the fabric filter stack shall not exceed 0.29 lb/hr and 1.26 tons/yr.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).</p> <p>The hourly and annual emissions limitations are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.</p> <p>See b)(2)a. and c)(1).</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule.
c.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. Particulate emissions from emissions unit P001 shall be collected and vented to a baghouse having a control efficiency of at least 99%.
- b. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the mass emissions limitations, the visible emissions limitation and the use of a fabric filter.

c) Operational Restrictions

- (1) The pressure drop across the baghouse shall be maintained within the range of 3.0 to 5.5 inches of water while the emissions unit is in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

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.

f) Testing Requirements

- (1) Compliance with the emission limitation(s) in b)(1) shall be determined in accordance with the following method(s):
 - a. Emission Limitation:

Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

b. Emission Limitations:

Particulate emissions (PE) from the fabric filter stack shall not exceed 0.45 lb/hr and 1.97 tons/yr.

Applicable Compliance Method:

The hourly and annual particulate emission limitations were established by the following methodology:

$$\text{lbs/hr PE} = (A) \times (B) \times (D)$$

$$\text{tons/yr PE} = (A) \times (C) \times (D) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = PE emission factor of 1.0 lb/ton, from PTI/PTIO application A0040122, received October 13, 2010.

B = maximum hourly production rate of 45 tons

C = maximum annual production rate of 394200 tons

D = 1 - control efficiency of 99% = (0.01)

If required, emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test method shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1-5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The emissions unit shall be operated at or near the maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

c. Emission Limitations:

Particulate matter 10 microns and less in diameter (PM10) emissions from the fabric filter stack shall not exceed 0.29 lb/hr and 1.26 tons/yr.

Applicable Compliance Method:

The hourly and annual emission limitations were established by the following methodology:

$$\text{lbs/hr PM10} = (A) \times (B) \times (D)$$

$$\text{tons/yr PM10} = (A) \times (C) \times (D) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = PM10 emission factor of 0.64 lb/ton, from PTI/PTIO application A0040122, received October 13, 2010.

B = maximum hourly production rate of 45 tons

C = maximum annual production rate of 394200 tons

D = 1 - control efficiency of 99% = (0.01)

(2) Compliance with the requirements of b)(2)a. and c)(1) shall be demonstrated by the record keeping required in d)(1).

g) Miscellaneous Requirements

(1) None.



5. P002, Packaging Line #2

Operations, Property and/or Equipment Description:

weigh hopper, mixer surge hopper and filling station 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. 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)	<p>Particulate emissions (PE) from the fabric filter stack shall not exceed 0.45 lb/hr and 1.97 tons/yr.</p> <p>Particulate matter 10 microns and less in diameter (PM10) emissions from the fabric filter stack shall not exceed 0.29 lb/hr and 1.26 tons/yr.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).</p> <p>The hourly and annual emissions limitations are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.</p> <p>See b)(2)a. and c)(1).</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule.
c.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. Particulate emissions from emissions unit P002 shall be collected and vented to a baghouse having a control efficiency of at least 99%.
- b. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the mass emissions limitations, the visible emissions limitation and the use of a fabric filter.

c) Operational Restrictions

- (1) The pressure drop across the baghouse shall be maintained within the range of 3.0 to 5.5 inches of water while the emissions unit is in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

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.

f) Testing Requirements

- (1) Compliance with the emission limitation(s) in b)(1) shall be determined in accordance with the following method(s):
 - a. Emission Limitation:

Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

b. Emission Limitations:

Particulate emissions (PE) from the fabric filter stack shall not exceed 0.45 lb/hr and 1.97 tons/yr.

Applicable Compliance Method:

The hourly and annual particulate emission limitations were established by the following methodology:

$$\text{lbs/hr PE} = (A) \times (B) \times (D)$$

$$\text{tons/yr PE} = (A) \times (C) \times (D) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = PE emission factor of 1.0 lb/ton, from PTI/PTIO application A0040122, received October 13, 2010.

B = maximum hourly production rate of 45 tons

C = maximum annual production rate of 394200 tons

D = 1 - control efficiency of 99% = (0.01)

If required, emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test method shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1-5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The emissions unit shall be operated at or near the maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

c. Emission Limitations:

Particulate matter 10 microns and less in diameter (PM10) emissions from the fabric filter stack shall not exceed 0.29 lb/hr and 1.26 tons/yr.

Applicable Compliance Method:

The hourly and annual emission limitations were established by the following methodology:

$$\text{lbs/hr PM10} = (A) \times (B) \times (D)$$

$$\text{tons/yr PM10} = (A) \times (C) \times (D) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = PM10 emission factor of 0.64 lb/ton, from PTI/PTIO application A0040122, received October 13, 2010.

B = maximum hourly production rate of 45 tons

C = maximum annual production rate of 394200 tons

D = 1 - control efficiency of 99% = (0.01)

(2) Compliance with the requirements of c)(1) shall be demonstrated by the record keeping required in d)(1).

g) Miscellaneous Requirements

(1) None.



6. P003, Rotary Dryer

Operations, Property and/or Equipment Description:

natural gas-fired rotary dryer 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. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) from the fabric filter stack shall not exceed 0.80 lb/hr and 3.50 tons/yr. Particulate matter 10 microns and less in diameter (PM10) emissions from the fabric filter stack shall not exceed 0.51 lb/hr and 2.24 tons/yr. From natural gas combustion: PE/PM10 emissions from this emissions unit shall not exceed 0.11 lbs/hr and 0.50 tons/yr. Sulfur Dioxide emissions from this emissions unit shall not exceed 0.01 lbs/hr and 0.04 tons/yr. Nitrogen oxide (NOx) emissions from this



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>emissions unit shall not exceed 1.50 lbs/hr and 6.57 tons/yr.</p> <p>Carbon Monoxide (CO) emissions from this emissions unit shall not exceed 1.26 lbs/hr and 5.52 tons/yr.</p> <p>VOC emissions from this emissions unit shall not exceed 0.08 lbs/hr and 0.36 tons/yr.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).</p> <p>See b)(2)a, b)(2)b. and c)(1).</p> <p>The hourly and annual emissions limitations are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.</p>
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule
c.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. Particulate emissions from the rotary dryer shall be collected and vented to a baghouse having a control efficiency of at least 99.9%.
- b. The rotary dryer shall utilize only natural gas as fuel.
- c. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the mass emissions limitations, the visible emissions limitation, the use of a fabric filter and the exclusive use of natural gas for fuel.

c) Operational Restrictions

- (1) The pressure drop across the baghouse shall be maintained within the range of 3.0 to 5.5 inches of water while the emissions unit is in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.
- (2) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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.

f) Testing Requirements

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

a. Emission Limitation:

Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

b. Emission Limitations:

Particulate emissions (PE) from the fabric filter stack shall not exceed 0.80 lb/hr and 3.50 tons/yr.

Applicable Compliance Method:

The hourly and annual dryer particulate emission limitations were established by the following methodology:

$$\text{lbs/hr PE} = (A) \times (B) \times (C)$$

$$\text{tons/yr PE} = (A) \times (C) \times (D) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = PE emission factor of 10.0 lbs/ton, from PTI/PTIO application A0040122, received October 13, 2010.

B = maximum hourly production rate of 80 tons

C = maximum annual production rate of 700800 tons

D = 1 - control efficiency of 99.9% = (0.001)

If required, emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test method shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1-5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The emissions unit shall be operated at or near the maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

c. Emission Limitations:

Particulate matter 10 microns and less in diameter (PM10) emissions from the fabric filter stack shall not exceed 0.51 lb/hr and 2.24 tons/yr.

Applicable Compliance Method:

The hourly and annual emission limitations were established by the following methodology:

$$\text{lbs/hr PM10} = (A) \times (B) \times (D)$$

$$\text{tons/yr PM10} = (A) \times (C) \times (D) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = PM10 emission factor of 6.4 lbs/ton, from PTI/PTIO application A0040122, received October 13, 2010.

B = maximum hourly production rate of 80 tons

C = maximum annual production rate of 700800 tons

D = 1 - control efficiency of 99.9% = (0.001)

d. Emission Limitations from natural gas combustion:

PE/PM10 emissions from this emissions unit shall not exceed 0.11 lbs/hr and 0.50 tons/yr.

Sulfur Dioxide emissions from this emissions unit shall not exceed 0.01 lbs/hr and 0.04 tons/yr;

Nitrogen oxide (NO_x) emissions from this emissions unit shall not exceed 1.50 lbs/hr and 6.57 tons/yr;

Carbon Monoxide (CO) emissions from this emissions unit shall not exceed 1.26 lbs/hr and 5.52 tons/yr; and

VOC emissions from this emissions unit shall not exceed 0.08 lbs/hr and 0.36 tons/yr.

Applicable Compliance Method:

The hourly and annual emission limitations were established by the following methodology:

$$\text{lbs/hr} = (A) \times (B)$$

$$\text{tons/yr} = (A) \times (C) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = emission factor from AP-42, Table 1.4-1 and Table 1.4-2 (July, 1998).

B = hourly natural gas usage, million cubic feet

C = annual natural gas usage, million cubic feet

- (1) Compliance with the requirements of b)(2)a. and c)(1) shall be demonstrated by the record keeping required in d)(1).
 - (1) Compliance with the requirements of b)(2)b. shall be demonstrated by the record keeping required in d)(2).
- g) Miscellaneous Requirements
- (1) None.



7. P004, Fluid Bed Cooler

Operations, Property and/or Equipment Description:

fluid bed cooler 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. 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)	<p>Particulate emissions (PE) from the fabric filter stack shall not exceed 0.80 lb/hr and 3.50 tons/yr.</p> <p>Particulate matter 10 microns and less in diameter (PM10) emissions from the fabric filter stack shall not exceed 0.51 lb/hr and 2.24 tons/yr.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).</p> <p>The hourly and annual emissions limitations in are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.</p> <p>See b)(2)a. and c)(1).</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule.
c.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. Particulate emissions from the fluid bed cooler shall be collected and vented to a baghouse having a control efficiency of at least 99.9%.
- b. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the mass emissions limitations, the visible emissions limitation and the use of a fabric filter.

c) Operational Restrictions

- (1) The pressure drop across the baghouse shall be maintained within the range of 3.0 to 5.5 inches of water while the emissions unit is in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

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.

f) Testing Requirements

- (1) Compliance with the emission limitation(s) in b)(1) shall be determined in accordance with the following method(s):
 - a. Emission Limitation:

Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

b. Emission Limitations:

Particulate emissions (PE) from the fabric filter stack shall not exceed 0.80 lb/hr and 3.50 tons/yr.

Applicable Compliance Method:

The hourly and annual particulate emission limitations were established by the following methodology:

$$\text{lbs/hr PE} = (A) \times (B) \times (D)$$

$$\text{tons/yr PE} = (A) \times (C) \times (D) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = PE emission factor of 10.0 lbs/ton, from PTI/PTIO application A0040122, received October 13, 2010.

B = maximum hourly production rate of 80 tons

C = maximum annual production rate of 700800 tons

D = 1 - control efficiency of 99.9% = (0.001)

If required, emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test method shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1-5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The emissions unit shall be operated at or near the maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

c. Emission Limitations:

Particulate matter emissions 10 microns and less (PM10) from the fabric filter stack shall not exceed 0.51 lb/hr and 2.24 tons/yr.

Applicable Compliance Method:

The hourly and annual emission limitations were established by the following methodology:

$$\text{Lbs/hr PM10} = (A) \times (B) \times (D)$$

$$\text{tons/yr PM10} = (A) \times (C) \times (D) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = PM10 emission factor of 6.4 lbs/ton, from PTI/PTIO application A0040122, received October 13, 2010.

B = maximum hourly production rate of 80 tons

C = maximum annual production rate of 700800 tons

D = 1 - control efficiency of 99.9% = (0.001)

(2) Compliance with the requirements of b)(2)a. and c)(1) shall be demonstrated by the record keeping required in d)(1).

g) Miscellaneous Requirements

(1) None.



8. P005, weigh hopper, mixer surge hopper and filling station

Operations, Property and/or Equipment Description:

weigh hopper, mixer surge hopper and filling station 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. 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)	<p>Particulate emissions (PE) from the fabric filter stack shall not exceed 0.45 lb/hr and 1.97 tons/yr.</p> <p>Particulate matter emissions 10 microns and less (PM10) from the fabric filter stack shall not exceed 0.29 lb/hr and 1.26 tons/yr.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).</p> <p>The hourly and annual emissions limitations are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.</p> <p>See b)(2)a. and c)(1).</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule.
c.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission imitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. Particulate emissions from emissions unit P005 shall be collected and vented to a baghouse having a control efficiency of at least 99%.
- b. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the mass emissions limitations, the visible emissions limitation and the use of a fabric filter.

c) Operational Restrictions

- (1) The pressure drop across the baghouse shall be maintained within the range of 3.0 to 5.5 inches of water while the emissions unit is in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

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.

f) Testing Requirements

- (1) Compliance with the emission limitation(s) in b)(1) shall be determined in accordance with the following method(s):
 - a. Emission Limitation:

Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

b. Emission Limitations:

Particulate emissions (PE) from the fabric filter stack shall not exceed 0.45 lb/hr and 1.97 tons/yr.

Applicable Compliance Method:

The hourly and annual particulate emission limitations were established by the following methodology:

$$\text{lbs/hr PE} = (A) \times (B) \times (D)$$

$$\text{tons/yr PE} = (A) \times (C) \times (D) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = PE emission factor of 1.0 lb/ton, from PTI/PTIO application A0040122, received October 13, 2010.

B = maximum hourly production rate of 45 tons

C = maximum annual production rate of 394200 tons

D = 1 - control efficiency of 99% = (0.01)

If required, emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

The following test method shall be employed to demonstrate compliance with the particulate emission limitation: Methods 1-5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The emissions unit shall be operated at or near the maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

c. Emission Limitations:

Particulate matter emissions 10 microns and less (PM10) from the fabric filter stack shall not exceed 0.29 lb/hr and 1.26 tons/yr.

Applicable Compliance Method:

The hourly and annual emission limitations were established by the following methodology:

$$\text{lbs/hr PM10} = (A) \times (B) \times (D)$$

$$\text{tons/yr PM10} = (A) \times (C) \times (D) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = PM10 emission factor of 0.64 lb/ton, from PTI/PTIO application A0040122, received October 13, 2010.

B = maximum hourly production rate of 45 tons

C = maximum annual production rate of 394200 tons

D = 1 - control efficiency of 99% = (0.01)

(2) Compliance with b)(2)a. and c)(1) shall be demonstrated by the record keeping required in d)(1).

g) Miscellaneous Requirements

(1) None.