



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

4/16/2013

David McKeown  
Hanson Pipe & Precast LLC  
5100 Brickyard Road  
Columbia, SC 29203

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0575010222  
Permit Number: P0113628  
Permit Type: Renewal  
County: Shelby

Certified Mail

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

Dear Permit Holder:

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

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

**How to appeal this permit**

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

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

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

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

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

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

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

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

If you have any questions, please contact Ohio EPA DAPC, Southwest District Office at (937)285-6357 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael W. Ahern, Manager

Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-SWDO



**FINAL**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
Hanson Pipe & Precast LLC**

Facility ID:	0575010222
Permit Number:	P0113628
Permit Type:	Renewal
Issued:	4/16/2013
Effective:	4/16/2013
Expiration:	4/4/2023





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

for  
Hanson Pipe & Precast LLC

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**Final Permit-to-Install and Operate**  
Hanson Pipe & Precast LLC  
**Permit Number:** P0113628  
**Facility ID:** 0575010222  
**Effective Date:** 4/16/2013

## Authorization

Facility ID: 0575010222  
Application Number(s): A0047329  
Permit Number: P0113628  
Permit Description: PTIO Renewal  
Permit Type: Renewal  
Permit Fee: \$0.00  
Issue Date: 4/16/2013  
Effective Date: 4/16/2013  
Expiration Date: 4/4/2023  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Hanson Pipe & Precast LLC  
4625 Hardin-Wapak Road  
Sidney, OH 45365

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

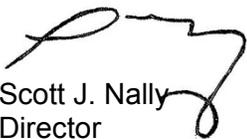
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Southwest District Office  
401 East Fifth Street  
Dayton, OH 45402  
(937)285-6357

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

  
Scott J. Nally  
Director



**Final Permit-to-Install and Operate**  
Hanson Pipe & Precast LLC  
**Permit Number:** P0113628  
**Facility ID:** 0575010222  
**Effective Date:** 4/16/2013

## Authorization (continued)

Permit Number: P0113628  
Permit Description: PTIO Renewal

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>K001</b>
Company Equipment ID:	Concrete Product Coating
Superseded Permit Number:	05-14433
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P001</b>
Company Equipment ID:	Concrete Batch Plant
Superseded Permit Number:	05-14433
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P002</b>
Company Equipment ID:	Concrete Part Forming
Superseded Permit Number:	05-14433
General Permit Category and Type:	Not Applicable



**Final Permit-to-Install and Operate**  
Hanson Pipe & Precast LLC  
**Permit Number:** P0113628  
**Facility ID:** 0575010222  
**Effective Date:** 4/16/2013

## **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 Ohio EPA DAPC, Southwest District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

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

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

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

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

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

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting<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.

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<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).



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

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

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

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

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

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



**Final Permit-to-Install and Operate**  
Hanson Pipe & Precast LLC  
**Permit Number:** P0113628  
**Facility ID:** 0575010222  
**Effective Date:** 4/16/2013

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



**Final Permit-to-Install and Operate**

Hanson Pipe & Precast LLC

**Permit Number:** P0113628

**Facility ID:** 0575010222

**Effective Date:** 4/16/2013

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.



**Final Permit-to-Install and Operate**  
Hanson Pipe & Precast LLC  
**Permit Number:** P0113628  
**Facility ID:** 0575010222  
**Effective Date:** 4/16/2013

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



**1. K001, Concrete Product Coating**

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

Concrete Product Coating

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 paragraph 3745-31-05(A)(3), as effective 11/30/01	The OC content of the coatings applied in this emissions unit shall not exceed 3.59 pounds per gallon, as applied.
b.	OAC rule 3745-31-05(A)(3)(a)(ii) as effective 12/01/06	See Section b)(2)c., below
c.	OAC rule 3745-31-05(D)	OC emissions shall not exceed 2.4 tons per rolling - 12 month period.
d.	OAC rule 3745-17-11(C)	Exempt  See Section b)(2)d., below.

(2) Additional Terms and Conditions

a. The 2.4 tons of organic compound (OC) emissions are based on the OC content of the coating materials and a voluntary rolling 12-month usage limitation from the permittee.



- b. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by the 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 the 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 3745-31-05, then these emission limits/control measures no longer apply.
  - c. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the VOC/OC emissions from this emissions unit since the potential emissions are less than ten tons per year.
  - d. Based on OAC rule 3745-17-11(A)(1)(I), this emissions unit is exempt from the requirements of OAC rule 3745-17-11(C), due to the large size of the materials being coated.
- c) Operational Restrictions
- (1) The maximum coating usage for this emissions unit shall not exceed 1332 gallons per rolling - 12 month period, as applied.
  - (2) The OC content of the coatings applied in this emissions unit shall not exceed 3.59 pounds per gallon, as applied.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall collect and record the following information monthly in this emissions unit:
    - a. The name and identification number of each coating;
    - b. The OC content of each coating, in pounds per gallon as applied;
    - c. The volume of each coating employed, in gallons per month;
    - d. The rolling, 12-month total combined coating employed in gallons, (the total coating employed, in gallons, for the current month plus the total amount of coating employed, in gallons, for the 11 previous calendar months);
    - e. The total OC emissions from all coatings employed (b x c); and
    - f. The rolling, 12-month total combined OC emissions, in tons, (the total OC emitted, in tons, for the current month plus the total amount of OC emitted, in tons, for the 11 previous calendar months).



- (2) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified air pollution permit prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials or use of new materials that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new or modified air pollution permit.

[ORC 3704.03(F)(3)(c) and F(4)]

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

[OAC rule 3745-15-03(B)(2)] and [OAC rule 3745-15-03(D)]

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

OC emissions shall not exceed 2.4 tons per year.

The annual OC emissions limitation from coating material use was calculated from the following equation:

$$\text{AER} = \text{Con} \times \text{AU}$$

where:

Con = OC content (3.59 lb/gal)

AU = Annual usage limitation (1332 gal/yr)

Applicable Compliance Method:

Compliance shall be based upon the recordkeeping requirements as specified in section d) of this permit.



**Final Permit-to-Install and Operate**  
Hanson Pipe & Precast LLC  
**Permit Number:** P0113628  
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**Effective Date:** 4/16/2013

b. Emissions Limitation:

The OC content of the coatings applied in this emissions unit shall not exceed 3.59 pounds per gallon, as applied.

Applicable Compliance Method:

Compliance shall be based upon the recordkeeping requirements as specified in section d) of this permit.

g) Miscellaneous Requirements

(1) None.



**2. P001, Concrete Batch Plant**

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

Concrete Batch Plant with mixer, silo, baghouses, weight hoppers, and storage bins

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>The overall particulate emissions (PE) shall not exceed 23.3 ton/yr.</p> <p>Visible emissions of fugitive dust shall not exceed 10 percent opacity, as a 3-minute average.</p> <p>At all times during the transfer of sand and aggregate, the drop height of the front-end bucket shall be minimized to the extent possible to minimize or eliminate visible emissions of fugitive dust.</p> <p>Sand and aggregate loaded into the elevated bins shall, at all times, have an inherent moisture content sufficient to minimize or eliminate visible emissions of fugitive dust.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		Each fabric filter(s) serving any silo, weigh hopper, and the central mix drum shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible particulate emissions from the outlet(s).  See sections b)(2), below.
b.	OAC rule 3745-17-07(B)	See sections b)(2), below.
c.	OAC rule 3745-17-08(B)	See sections b)(2), below.
d.	OAC rule 3745-17-11(B)	See sections b)(2), below.
e.	OAC rule 3745-17-07(A)	See sections b)(2), below.

(2) Additional Terms and Conditions

- a. For facilities in Appendix A areas as defined in OAC rule 3745-17-08(D), the requirements established pursuant to OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B) are equivalent to or less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).
- b. The requirements established pursuant to OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B) are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).

The permittee shall employ the following best available control measures for the above-identified cement and cement supplement silos for the purpose of ensuring compliance with the above-mentioned applicable requirements:

- c. Cement and cement supplement shall be transferred pneumatically to the cement and cement supplement silos. The pneumatic system shall be adequately enclosed so as to eliminate at all times visible emissions of fugitive dust. Any visible emissions of cement and/or cement supplement dust emanating from the delivery vehicle during transfer shall be cause for the immediate halt of the unloading process and the refusal of the cement and/or cement supplement load until the situation is corrected.
- d. Each cement and cement supplement silo vent shall be adequately enclosed and vented to a fabric filter. The enclosure shall be sufficient so as to eliminate at all times visible emissions of fugitive dust at the point of capture.
- e. The permittee shall employ the following best available control measures for the above-identified weigh hoppers for the purpose of ensuring compliance with the above-mentioned applicable requirements:
  - i. The weigh hoppers shall be sufficiently enclosed so as to minimize or eliminate at all times visible emissions of fugitive dust.



- ii. The transfer of cement/cement supplement/sand/aggregate to the concrete batching weigh hoppers shall be enclosed and vented to a fabric filter. The enclosure shall be sufficient so as to minimize or eliminate at all times visible emissions of fugitive dust at the point of capture.
  - f. The annual particulate emissions (PE) of 23.3 tons per year represents the maximum potential emissions from this emissions unit as based on the maximum operational rate to 8760 hours of operation, therefore; there is no need for throughput limitations of record keeping. Prior to modifying this emissions unit that would increase the hourly operational rate, the increases in the potential emissions will need to be addressed under future permitting process prior to initiating the planned modification.
- c) Operational Restrictions
- (1) None.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall perform weekly checks, when the emissions unit is in operation, and when the weather conditions allow, for any visible particulate emissions from the fabric filters serving this emissions unit. No inspections are required on days the material handling operations are not in operation. The presence or absence of any visible particulate emissions shall be recorded electronically or in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:
    - a. the total duration of any visible emission incident; and
    - b. any corrective actions taken to eliminate the visible emissions.The information above shall be kept separately for each fabric filter serving this emissions unit.
  - (2) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from each sand and/or aggregate transfer point and truck loading serving this emissions unit. No inspections are required on days the material handling operations are not in operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:
    - a. whether the emissions are representative of normal operations;
    - b. if the emissions are not representative of normal operations, the cause of the visible emissions;
    - c. the total duration of any visible emission incident; and
    - d. any corrective actions taken to eliminate the visible emissions.



The information above shall be kept separately for each sand and/or aggregate transfer point and truck loading serving this emissions unit.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

[OAC rule 3745-15-03(B)(2)] and [OAC rule 3745-15-03(D)]

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

The overall particulate emissions (PE) shall not exceed 23.3 tons/yr.

- i. Transfer of Sand and Aggregate to Elevated Bins

Maximum throughput and calculations are based on a mix design consisting of 43.6% aggregate, 43.6% sand, 10.9% cement, and 1.9% cement supplement (slag/fly ash).

Aggregate emission factor = 0.0069 lb PE/ton (AP-42, 11.12-2, 06/06)

Sand emission factor = 0.0021 lb PE/ton (AP-42, 11.12-2, 06/06)

Aggregate feed hopper loading = 256,668 tons/yr max transfer rate

$256,668 \text{ tons/yr} \times 0.0069 \text{ lb/ton} \times \text{ton}/2000 \text{ lbs} = 0.89 \text{ ton PE/yr}$

Sand feed hopper loading = 256,668 tons/yr max transfer rate

$256,668 \text{ tons/yr} \times 0.0021 \text{ lb/ton} \times \text{ton}/2000 \text{ lbs} = 0.27 \text{ ton PE/yr}$

Aggregate & sand transfer total = 1.16 tons PE/yr

- ii. Cement, Fly Ash and Slag Silos

Maximum throughput and calculations are based on a mix design consisting of 43.6% aggregate, 43.6% sand, 10.9% cement, and 1.9% cement supplement (slag/fly ash) and a control efficiency (CE) of 99.0% (1 - .99).



Cement emission factor = 0.72 lb PE/ton (AP-42, 11.12-2, 06/06)

Supplement emission factor = 3.12 lb PE/ton (AP-42, 11.12-2, 06/06)

Truck to cement silo = 63,969 tons/yr max transfer rate

$63,969 \text{ tons/yr} \times 0.72 \text{ lb/ton} \times \text{ton}/2000 \text{ lbs} \times \text{CE} = 0.23 \text{ ton PE/yr}$

Truck to cement sup silo = 11,200 tons/yr max transfer rate

$11,200 \text{ tons/yr} \times 3.12 \text{ lbs/ton} \times \text{ton}/2000 \text{ lbs} \times \text{CE} = 0.17 \text{ ton PE/yr}$

Cement & cement supplement unloading total = 0.4 ton PE/yr

Weigh Hopper Loading of Cement, Fly Ash, Slag, and possibly Sand and Aggregate

Maximum throughput and calculations are based on a mix design consisting of 43.6% aggregate, 43.6% sand, 10.9% cement, and 1.9% cement supplement (slag/fly ash).

Emission factor = 0.0051 lb PE/ton (AP-42, 11.12-2, 06/06)

Bins to weigh hopper = 513,340 tons/yr max transfer rate

$513,340 \text{ tons/yr} \times 0.0051 \text{ lb/ton} \times \text{ton}/2000 \text{ lbs} = 1.3 \text{ tons PE/yr}$

Weigh hopper loading total = 1.3 tons PE/yr

iii. Central Mix Drum Loading of Aggregate, Sand, Cement and Cement Supplement

Emission factor = 0.544 lb PE/ton (AP-42, 11.12-2, 06/06)

Central Mix Drum loading = 75,150 tons/yr max transfer rate

$75,510 \text{ tons/yr} \times 0.544 \text{ lb/ton} \times \text{ton}/2000 \text{ lbs} = 20.44 \text{ tons PE/yr}$

Truck loading total = 20.44 tons PE/yr

Total Particulate Emissions (PE) = 23.30 ton/year potential.

Applicable Compliance Method:

Compliance is based on the maximum potential hourly throughput of 29.3 tons per hour. Prior to any increase in the hourly potential throughput rate, the potential increased emissions will need to be reviewed in accordance with any applicable State and or Federal regulation.



b. Emission Limitation:

Visible emissions of fugitive dust shall not exceed 10 percent opacity, as a 3-minute average.

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the material handling operation(s) identified above shall be determined in accordance with Test Method 9 set forth in "Appendix on Test methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1997.

c. Emission Limitation:

There shall be no visible particulate emissions from the fabric filters serving this emissions unit.

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the material handling operation(s) identified above shall be determined in accordance with Test Method 22 set forth in "Appendix on Test methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1997.

g) Miscellaneous Requirements

(1) None.



**3. P002, Concrete Part Forming**

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

Concrete Part Forming

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
	OAC paragraph 3745-31-05(A)(3), as effective 11/30/01	The OC content of the coatings applied in this emissions unit shall not exceed 3.40 pounds per gallon, as applied.
	OAC rule 3745-31-05(A)(3)(a)(ii) as effective 12/01/06	See Section b)(2)c., below
c.	OAC rule 3745-31-05(D)	OC emissions shall not exceed 7.3 tons per rolling - 12 month period.

(2) Additional Terms and Conditions

a. The 7.3 tons of organic compound (OC) emissions are based on the OC content of the coating materials and a voluntary rolling 12-month usage limitation from the permittee.

b. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265



changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by the 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 the 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 3745-31-05, then these emission limits/control measures no longer apply.

- c. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the VOC/OC emissions from this emissions unit since the potential emissions are less than ten tons per year.

c) Operational Restrictions

- (1) The maximum coating usage for this emissions unit shall not exceed 4307 gallons per rolling - 12 month period, as applied.
- (2) The monthly volume weighted average of OC content of the coatings applied in this emissions unit shall not exceed 3.40 pounds per gallon, as applied

d) .Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information monthly in this emissions unit:
  - a. The name and identification number of each coating;
  - b. The OC content of each coating, in pounds per gallon as applied;
  - c. The volume of each coating employed, in gallons;
  - d. The total volume of all coatings employed, in gallons;
  - e. The total OC emissions from all coatings employed (b x c); and
  - f. The rolling, 12-month total combined OC emissions, in tons, (the total OC emitted, in tons, for the current month plus the total amount of OC emitted, in tons, for the 11 previous calendar months).
- (2) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified air pollution permit prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials or use of new materials that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new or modified air pollution permit.

[ORC 3704.03(F)(3)(c) and F(4)]



e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

[OAC rule 3745-15-03(B)(2)] and [OAC rule 3745-15-03(D)]

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation:

OC emissions shall not exceed 7.3 tons per year.

The annual OC emissions limitation from coating material use was calculated from the following equation:

$$\text{AER} = \text{Con} \times \text{AU}$$

where:

Con = OC content (3.4 lb/gal)

AU = Annual usage limitation (4307 gal/yr)

Applicable Compliance Method:

Compliance shall be based upon the recordkeeping requirements as specified in section d) of this permit.

- b. Emissions Limitation:

The OC content of the coatings applied in this emissions unit shall not exceed 3.40 pounds per gallon, as applied.

Applicable Compliance Method:

Compliance shall be based upon the recordkeeping requirements as specified in section d) of this permit.

g) Miscellaneous Requirements

- (1) None.