



Environmental Protection Agency

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

3/7/2012

Mr. Jordan Schmeltz  
Palmer Bros. Concrete, Inc.  
12205 E. Gypsy Lane Road  
Bowling Green, OH 43402

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE  
Facility ID: 0374012002  
Permit Number: P0109218  
Permit Type: Initial Installation  
County: Seneca

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)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. Please complete a survey at [www.epa.ohio.gov/dapc/permitsurvey.aspx](http://www.epa.ohio.gov/dapc/permitsurvey.aspx) and give us feedback on your permitting experience. We value your opinion.

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

If you have any questions, please contact Ohio EPA DAPC, Northwest District Office at (419)352-8461 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPCWeb page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc), by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

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

Cc: Ohio EPA-NWDO





**FINAL**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
Palmer Bros. Concrete, Inc.**

Facility ID:	0374012002
Permit Number:	P0109218
Permit Type:	Initial Installation
Issued:	3/7/2012
Effective:	3/7/2012
Expiration:	1/4/2022





Division of Air Pollution Control
Permit-to-Install and Operate
for
Palmer Bros. Concrete, Inc.

Table of Contents

Authorization ..... 1
A. Standard Terms and Conditions ..... 3
1. What does this permit-to-install and operate ("PTIO") allow me to do?..... 4
2. Who is responsible for complying with this permit? ..... 4
3. What records must I keep under this permit? ..... 4
4. What are my permit fees and when do I pay them?..... 4
5. When does my PTIO expire, and when do I need to submit my renewal application? ..... 4
6. What happens to this permit if my project is delayed or I do not install or modify my source? ..... 5
7. What reports must I submit under this permit? ..... 5
8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit? ..... 5
9. What are my obligations when I perform scheduled maintenance on air pollution control equipment? ... 5
10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report? ..... 6
11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located? ..... 6
12. What happens if one or more emissions units operated under this permit is/are shut down permanently? ..... 6
13. Can I transfer this permit to a new owner or operator?..... 7
14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"? ..... 7
15. What happens if a portion of this permit is determined to be invalid? ..... 7
B. Facility-Wide Terms and Conditions..... 8
C. Emissions Unit Terms and Conditions ..... 10
1. P901, Truck Mix Ready Mix Concrete Batch Plant ..... 11



## Authorization

Facility ID: 0374012002  
Application Number(s): A0043406  
Permit Number: P0109218  
Permit Description: Truck mix, ready mix concrete batch plant  
Permit Type: Initial Installation  
Permit Fee: \$1,500.00  
Issue Date: 3/7/2012  
Effective Date: 3/7/2012  
Expiration Date: 1/4/2022  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Palmer Bros. Concrete, Inc.  
133 E. Jones Road  
Fostoria, OH 44830

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

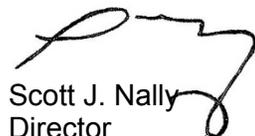
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

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

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

  
Scott J. Nally  
Director

## Authorization (continued)

Permit Number: P0109218

Permit Description: Truck mix, ready mix concrete batch plant

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>P901</b>
Company Equipment ID:	P901
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

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

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

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

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

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

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

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

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

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

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

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

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

Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Northwest 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.

---

<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.

## **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. P901, Truck Mix Ready Mix Concrete Batch Plant

Operations, Property and/or Equipment Description:

truck mix ready mix concrete batch plant

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
<b>Transfer of sand and aggregate to elevated storage silos, weigh hopper loading, and truck loading operations:</b>		
a.	OAC rule 3745-31-05(A)(3)	<p>2.75 tons fugitive particulate emissions (PE)/year</p> <p>1.04 tons fugitive particulate matter less than 10 microns in size (PM<sub>10</sub>)/year</p> <p>Visible emissions of fugitive dust shall not exceed 20 percent (20%) opacity, as a 3-minute average from the transfer of sand and aggregate to elevated storage silos.</p> <p>Visible emissions of fugitive dust shall not exceed 10 percent (10%) opacity, as a 3-minute average from the weigh hopper loading and truck loading operations.</p> <p>See b)(2)a.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-17-08(B)	See b)(2)b.
c.	OAC rule 3745-17-07(B)	See b)(2)c.
<b>Unloading cement and cement supplement to elevated storage silos (with two pneumatic baghouses):</b>		
d.	OAC rule 3745-31-05(A)(3)	<p>Each pneumatic baghouse employed in this operation shall be capable of achieving 0.03 grain PM<sub>10</sub>/dry standard cubic foot of exhaust gasses.</p> <p>0.72 pound PM<sub>10</sub>/hour from the cement silo baghouse</p> <p>0.72 pound PM<sub>10</sub>/hour from the cement supplement silo baghouse</p> <p>0.72 ton PM<sub>10</sub>/year, combined, for both baghouses</p> <p>Visible particulate emissions shall not exceed 0 percent (0%) opacity, as a six-minute average, from the stacks serving the cement and cement supplement silo baghouses.</p> <p>See b)(2)a.</p>
e.	OAC rule 3745-17-08(B)	See b)(2)b.
f.	OAC rule 3745-17-07(B)	See b)(2)c.
g.	OAC rule 3745-17-11(B)	See b)(2)d.
h.	OAC rule 3745-17-07(A)	See b)(2)e.

(2) Additional Terms and Conditions

- a. The permittee shall employ the following best available control measures for the following truck mix concrete batch plant operations for the purpose of ensuring compliance with the above-mentioned applicable requirements:
  - i. Transfer of sand and aggregate to elevated storage silos:
    - (a) At all times during the transfer of sand and aggregate, the drop height of the front-end loader bucket shall be minimized to the extent possible to minimize or eliminate visible emissions of fugitive dust.
    - (b) Sand and aggregate loaded into the elevated bins shall, at all times, have inherent moisture contents sufficient to minimize or eliminate visible emissions of fugitive dust.

- ii. Unloading cement and cement supplement to elevated storage silos:
  - (a) 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.
  - (b) 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.
- iii. Weigh hopper loading:
  - (a) The transfer of cement and cement supplement to the concrete batching weigh hopper shall be enclosed. The enclosure shall be sufficient so as to minimize or eliminate, at all times, visible emissions of fugitive dust.
  - (b) The sand and aggregates shall, at all times, have inherent moisture contents sufficient to minimize or eliminate visible emissions of fugitive dust during the transfer of sand/aggregate to the concrete batching weigh hopper.
  - (c) The weigh hopper shall be sufficiently enclosed so as to minimize or eliminate, at all times, visible emissions of fugitive dust.
- iv. Truck loading:
  - (a) The permittee shall employ an adjustable gathering hopper/rubber charging boot during truck loading. The control system shall be operated at all times that trucks are being loaded and shall be sufficient to minimize or eliminate, at all times, visible emissions of fugitive dust.
- b. The permittee is not located within an "Appendix A" area, as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).
- c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-11(B) pursuant to OAC rule 3745-17-11(B)(11)(e).
- d. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

- e. The visible emission limitation specified by this rule is equivalent to or less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- c) Operational Restrictions
- (1) The maximum annual production rate for this truck mix concrete facility shall not exceed 200,000 tons (100,000 cubic yards) per year.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall maintain annual records of the cubic yards or tons of concrete produced at this facility.
  - (2) 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 stacks serving the baghouses associated with 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 baghouse serving this emissions unit.
  - (3) 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 the following emission points:
    - a. raw material transfer points;
    - b. weigh hopper loading; and
    - c. truck loading.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:
    - d. whether the emissions are representative of normal operations;
    - e. if the emissions are not representative of normal operations, the cause of the visible emissions;
    - f. the total duration of any visible emission incident; and

- g. any corrective actions taken to eliminate the visible emissions.

The information above shall be kept separately for each material transfer point, weigh hopper loading, and truck loading operation serving 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.
- (2) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(2) above:
  - a. all visible emissions checks during which any visible particulate emissions were observed from the stacks serving the baghouses associated with this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

The above information shall be provided as an attachment to the PER. If there are no day(s) and/or corrective actions(s) to identify, as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

- (3) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible fugitive emissions in term number d)(3) above:
  - a. all visible emission checks during which any visible fugitive emissions were observed from this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible fugitive emissions.

The above information shall be provided as an attachment to the PER. If there are no day(s) and/or corrective actions(s) to identify, as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

f) Testing Requirements

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

a. Emission Limitations:

2.75 tons fugitive PE/year  
1.04 tons fugitive PM<sub>10</sub>/year

Applicable Compliance Method:

These emission limits represents the cumulative, annual fugitive emissions from the transfer of sand and aggregate to elevated storage silos, weigh hopper loading, and truck unloading and can be calculated using the equations provided below. Provided compliance is demonstrated with the annual production restriction, compliance with the annual emission limitations shall also be demonstrated.

i. Transfer of sand to elevated storage silo:

70980 tons <sup>(1)</sup>	0.0021 lb PE <sup>(2)</sup> 0.00099 lb PM <sub>10</sub>	2 transfer points <sup>(3)</sup>	1 ton <sup>(4)</sup>
year	ton		2000 pounds

Where:

<sup>(1)</sup> Maximum material throughput based on the production restriction of 200,000 tons concrete/year.

<sup>(2)</sup> Emission factors from AP-42 Chapter 11.12 (June 2006).

<sup>(3)</sup> Permittee's application indicated two sand transfer points.

<sup>(4)</sup> Conversion factor.

ii. Transfer of aggregate to elevated storage silo:

92700 tons <sup>(1)</sup>	0.0069 lb PE <sup>(2)</sup> 0.0033 lb PM <sub>10</sub>	2 transfer points <sup>(3)</sup>	1 ton <sup>(4)</sup>
year	ton		2000 pounds

Where:

<sup>(1)</sup> Maximum material throughput based on the production restriction of 200,000 tons concrete/year.

<sup>(2)</sup> Emission factors from AP-42 Chapter 11.12 (June 2006).

<sup>(3)</sup> Permittee's application indicated two aggregate transfer points.

<sup>(4)</sup> Conversion factor.

iii. Weigh hopper loading:

163680 tons <sup>(1)</sup>	0.0048 lb PE <sup>(2)</sup> 0.0028 lb PM <sub>10</sub>	1 ton <sup>(3)</sup>
year	ton sand and aggregate	2000 pounds

Where:

- (1) Maximum material throughput for sand and aggregate based on the production restriction of 200,000 tons concrete/year.
- (2) Emission factors from AP-42 Chapter 11.12 (June 2006).
- (3) Conversion factor.

iv. Truck loading:

28020 tons <sup>(1)</sup>	1.118 lb PE <sup>(2)</sup> 0.31 lb PM <sub>10</sub>	1-0.90 <sup>(3)</sup>	1 ton <sup>(4)</sup>
year	ton cement and cement supplement		2000 pounds

Where:

- (1) Maximum material throughput for cement and cement supplement based on the production restriction of 200,000 tons concrete/year.
- (2) Emission factors from AP-42 Chapter 11.12 (June 2006).
- (3) 90% control efficiency for the use of an adjustable gathering hopper/rubber charging boot during truck loading.
- (4) Conversion factor.

b. Emission Limitation:

0.03 grain PM<sub>10</sub>/dscf (per baghouse)

Applicable Compliance Method:

If required, compliance with this emission limitation shall be demonstrated in accordance with the test methods and procedures specified in 40 CFR, Part 60, Appendix A, Methods 1-4 and in 40 CFR, Part 51, Appendix M, Methods 201/201A and 202.

c. Emission Limitation:

0.72 pound PM<sub>10</sub>/hour (per baghouse)

Applicable Compliance Method:

The hourly emission limitation represents the potential to emit of each baghouse serving the cement and cement supplement unloading operations associated with this emissions unit and can be calculated using the following equation:

0.03 gr PM <sub>10</sub> <sup>(1)</sup> dscf	640 acf <sup>(2)</sup> minute	1 pound <sup>(3)</sup> 7000 grains	60 minutes <sup>(3)</sup> hour
---	----------------------------------	---------------------------------------	-----------------------------------

Where,

- (1) Maximum outlet grain loading of each baghouse.
- (2) Maximum outlet gas flow rate of each baghouse.
- (3) Conversion factors.

If required, compliance with this emission limitation shall be demonstrated in accordance with the test methods and procedures specified in 40 CFR, Part 60, Appendix A, Methods 1-4 and in 40 CFR, Part 51, Appendix M, Methods 201/201A and 202.

d. Emission Limitation:

0.72 ton PM<sub>10</sub>/year, combined for both baghouses

Applicable Compliance Method:

The annual emission limitation was calculated using the following equation:

1.44 pounds PM <sub>10</sub> <sup>(1)</sup> hour	1000 hours <sup>(2)</sup> year	1 ton <sup>(3)</sup> 2000 pounds
---	-----------------------------------	-------------------------------------

Where,

- (1) Combined, hourly emission limitation for both baghouses.
- (2) Maximum annual operating scheduled based on the production restriction of 200,000 tons concrete/year.
- (3) Conversion factor.

Provided compliance is demonstrated with the annual production restriction, compliance with the annual emission limitation shall also be demonstrated.

e. Emission Limitation:

Visible particulate emissions shall not exceed 0 percent (0%) opacity, as a six-minute average, from the stacks serving the cement and cement supplement silo baghouses associated with this emissions unit.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 9 as set forth in [Appendix on Test Methods] in 40 CFR, Part 60 ([Standards of Performance for New Stationary Sources]).

f. Emission Limitations:

Visible emissions of fugitive dust shall not exceed 20 percent (20%) opacity, as a 3-minute average.

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

Applicable Compliance Method:

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

g) **Miscellaneous Requirements**

- (1) The permittee may replace equipment, add additional equipment, or alter existing equipment as long as the change is consistent with applicable Ohio EPA guidance document(s) and does not meet the definition of "modification" or "new source" as defined in OAC rule 3745-31-01(B).