



John R. Kasich, Governor  
 Mary Taylor, Lt. Governor  
 Craig W. Butler, Director

8/23/2016

Certified Mail

Mr. Matthew Mahonski  
 High Concrete Group LLC  
 95 MOUND PARK DRIVE  
 Springboro, OH 45066

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
Yes	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 1483140150  
 Permit Number: P0121497  
 Permit Type: Administrative Modification  
 County: Warren

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**
- **What should you do if you notice a spill or environmental emergency?**

**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/survey.aspx](http://www.epa.ohio.gov/survey.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.

## **What should you do if you notice a spill or environmental emergency?**

Any spill or environmental emergency which may endanger human health or the environment should be reported to the Emergency Response 24-HOUR EMERGENCY SPILL HOTLINE toll-free at (800) 282-9378. Report non-emergency complaints to the appropriate district office or local air agency.

If you have any questions regarding your permit, please contact Southwest Ohio Air Quality Agency at (513)946-7777 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael E. Hopkins, P.E.  
Assistant Chief, Permitting Section, DAPC

Cc: SWOQA



**FINAL**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
High Concrete Group LLC**

Facility ID:	1483140150
Permit Number:	P0121497
Permit Type:	Administrative Modification
Issued:	8/23/2016
Effective:	8/23/2016
Expiration:	1/26/2017





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

for  
High Concrete Group LLC

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**Final Permit-to-Install and Operate**  
High Concrete Group LLC  
**Permit Number:** P0121497  
**Facility ID:** 1483140150  
**Effective Date:** 8/23/2016

## Authorization

Facility ID: 1483140150  
Application Number(s): M0004132  
Permit Number: P0121497  
Permit Description: Agency-initiated administrative modification to correct permit expiration date.  
Permit Type: Administrative Modification  
Permit Fee: \$0.00  
Issue Date: 8/23/2016  
Effective Date: 8/23/2016  
Expiration Date: 1/26/2017  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

High Concrete Group LLC  
95 MOUND PARK DRIVE  
Springboro, OH 45066

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

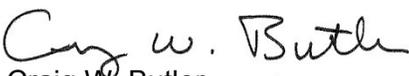
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Southwest Ohio Air Quality Agency  
250 William Howard Taft Rd.  
Cincinnati, OH 45219  
(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

  
Craig W. Butler  
Director



**Final Permit-to-Install and Operate**  
High Concrete Group LLC  
**Permit Number:** P0121497  
**Facility ID:** 1483140150  
**Effective Date:** 8/23/2016

## Authorization (continued)

Permit Number: P0121497

Permit Description: Agency-initiated administrative modification to correct permit expiration date.

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:	Cement Silos and Sand Transfer
Superseded Permit Number:	P0100859
General Permit Category and Type:	Not Applicable



**Final Permit-to-Install and Operate**  
High Concrete Group LLC  
**Permit Number:** P0121497  
**Facility ID:** 1483140150  
**Effective Date:** 8/23/2016

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

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

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

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

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

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

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

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

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

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

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

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

Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

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

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

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

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

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

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

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

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

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

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions of this permit 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 [DO/LAA] in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

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

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

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

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

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

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

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

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the 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**  
High Concrete Group LLC  
**Permit Number:** P0121497  
**Facility ID:** 1483140150  
**Effective Date:** 8/23/2016

## **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.



**Final Permit-to-Install and Operate**  
High Concrete Group LLC  
**Permit Number:** P0121497  
**Facility ID:** 1483140150  
**Effective Date:** 8/23/2016

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

**1. P901, Cement Silos and Sand Transfer**

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

Cement Silos and Sand Transfer

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 particulate emissions (PE) from cement silo loading controlled by a fabric filter shall not exceed 0.46 pound per hour and 0.05 Ton Per Year (TPY).</p> <p>The PE from loading the elevated bins controlled by a fabric filter shall not exceed 0.002 pound per hour and 0.001 TPY.</p> <p>The PE from loading the sand and aggregate hoppers shall not exceed 0.21 pound per hour and 0.17 TPY.</p> <p>The emissions of particulate matter 10 microns and less (PM10) from cement silo loading controlled by a fabric filter shall not exceed 0.29 pound per hour and 0.03 TPY.</p>

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>The emissions of PM10 from loading the elevated bins controlled by a fabric filter shall not exceed 0.001 pound per hour and 0.0004 TPY.</p> <p>The emissions of PM10 from loading the sand and aggregate hoppers shall not exceed 0.1 pound per hour and 0.08 TPY.</p> <p>See b)(2)a. through b)(2)h.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).</p>
b.	OAC rule 3745-17-07(A)(1)	See b)(2)i.
c.	OAC rule 3745-17-07(B)(1)	See b)(2)j.
d.	OAC rule 3745-17-08(B)	See b)(2)k.
e.	OAC rule 3745-17-11(B)(1)	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. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of a fabric filter with a minimum control efficiency of 99 percent for PE and PM10, compliance with the material usage and production limitations, and compliance with the emissions limitations.
- b. The permittee shall maintain a sufficient sand and aggregate moisture content, as necessary, to minimize or eliminate visible emissions of fugitive dust from the sand and aggregate hoppers.
- c. The permittee shall minimize the drop height of the front-end loaders to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the sand and aggregate hoppers.
- d. The maximum amount of cement loaded into the cement silos shall not exceed 15,000 tons per year.
- e. The maximum amount of sand loaded into the elevated bins shall not exceed 25,000 tons per year.
- f. The maximum amount of sand and aggregate loaded into the sand and aggregate hoppers shall not exceed 75,000 tons per year.

- g. The maximum amount of concrete produced shall not exceed 100,000 tons per year.
  - h. Visible particulate emissions of fugitive dust shall not exceed 20 percent opacity as a three-minute average.
  - i. Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
  - j. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).
  - k. This emissions unit is exempt from the visible particulate emission limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
  - l. The hourly emission limitations outlined in b)(1) are based upon the emissions unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limits.
- c) Operational Restrictions
- (1) None.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall maintain monthly records of the following information:
    - a. The amount, in tons, of cement loaded into the cement silos;
    - b. The amount, in tons, of sand loaded into the elevated bins;
    - c. The amount, in tons, of sand and aggregate loaded into the sand and aggregate hoppers; and
    - d. The amount, in tons, of concrete produced in the emissions unit.
  - (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
    - a. the location and color of the emissions;
    - b. whether the emissions are representative of normal operations;

- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (3) The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

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.
- (4) The permittee shall identify the following information in the annual PER in accordance with the monitoring requirements for visible emissions in term number d)(2) above:
  - c. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
  - d. all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
  - e. any corrective actions taken to minimize or eliminate the visible particulate emissions and/or visible fugitive particulate emissions.
- (5) An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the permittee complies with the requirements of OAC rule

3745-15-06 and none of the conditions listed in OAC rule 3745-15-06(C) are applicable to the source.

f) Testing Requirements

(1) Compliance with the emissions limitations and control measures in this PTIO shall be demonstrated by the following methods:

a. Emissions Limitations

The particulate emissions (PE) from cement silo loading controlled by a fabric filter shall not exceed 0.46 pound per hour and 0.05 Ton Per Year (TPY).

The PE from loading the elevated bins controlled by a fabric filter shall not exceed 0.002 pound per hour and 0.001 TPY.

Applicable Compliance Method

If required, compliance with the short-term PE emissions limitations shall be demonstrated by Method 5 from 40 CFR Part 60, Appendix A.

Compliance with the annual PE emissions limitations from cement silo loading and loading the elevated bins shall be demonstrated by the following equations using the Emission Factors (EF) from AP-42, Fifth Edition, Ch. 11.12, Concrete Batching, 6/06 and the Control Efficiency (CE) of the fabric filter for PE as stated in the application for PTIO P0100859:

actual annual cement loading rate (tons/yr) x AP-42 EF (0.72 lb PE/ton) x fabric filter CE (1 – 0.99) x 1 Ton/2000 lbs = TPY PE

actual annual elevated bins loading rate (tons/yr) x AP-42 EF (0.0069 lb PE/ton) x fabric filter CE (1 – 0.99) x 1 Ton/2000 lbs = TPY PE

The allowable PE mass emissions limitations were established from information included in the application for PTIO P0100859 in the following calculations:

64 tons cement/hr x 0.72 lb PE/ton cement x (1 – 0.99) = 0.46 lb PE/hr

15,000 tons cement/yr x 0.72 lb PE/ton cement x (1 – 0.99) x 1 Ton/2000 lbs = 0.05 TPY PE

30 tons sand/hr, el. bins x 0.0069 lb PE/ton aggregate x (1 – 0.99) = 0.002 lb PE/hr

25,000 tons sand/yr, el. bins x 0.0069 lb PE/ton aggregate x (1 – 0.99) x 1 Ton/2000 lbs = 0.001 TPY PE



b. Emissions Limitations

The emissions of particulate matter 10 microns and less (PM10) from cement silo loading controlled by a fabric filter shall not exceed 0.29 pound per hour and 0.03 TPY.

The emissions of PM10 from loading the elevated bins controlled by a fabric filter shall not exceed 0.001 pound per hour and 0.0004 TPY.

Applicable Compliance Method

If required, compliance with the short-term PM10 emissions limitations shall be demonstrated by Method 201 from 40 CFR Part 51, Appendix M

Compliance with the annual PM10 emissions limitations from cement silo loading and loading the elevated bins shall be demonstrated by the following equations using the Emission Factors (EF) from AP-42, Fifth Edition, Ch. 11.12, Concrete Batching, 6/06 and the Control Efficiency (CE) of the fabric filter for PM10 as stated in the application for PTIO P0100859:

actual annual cement loading rate (tons/yr) x AP-42 EF (0.46 lb PM10/ton) x fabric filter CE (1 – 0.99) x 1 Ton/2000 lbs = TPY PM10

actual annual elevated bins loading rate (tons/yr) x AP-42 EF (0.0033 lb PM10/ton) x fabric filter CE (1 – 0.99) x 1 Ton/2000 lbs = TPY PM10

The allowable PM10 mass emissions limitations were established from information included in the application for PTIO P0100859 in the following calculations:

64 tons cement/hr x 0.46 lb PM10/ton cement x (1 – 0.99) = 0.29 lb PM10/hr

15,000 tons cement/yr x 0.46 lb PM10/ton cement x (1 – 0.99) x 1 Ton/2000 lbs = 0.03 TPY PM10

30 tons sand/hr, el. bins x 0.0033 lb PM10/ton aggregate x (1 – 0.99) = 0.001 lb PM10/hr

25,000 tons sand/yr, el. bins x 0.0033 lb PM10/ton aggregate x (1 – 0.99) x 1 Ton/2000 lbs = 0.0004 TPY PM10

c. Emissions Limitations

The PE from loading the sand and aggregate hoppers shall not exceed 0.21 pound per hour and 0.17 TPY.

Applicable Compliance Method

If required, compliance with the short-term PE emissions limitation shall be demonstrated by Method 5 from 40 CFR Part 60, Appendix A.



Compliance with the annual PE emissions limitations from loading the sand and aggregate hoppers shall be demonstrated by the following equation using the Emission Factor (EF) from AP-42, Fifth Edition, Ch. 11.12, Concrete Batching, 6/06:

$$\text{actual annual sand and aggregate hoppers loading rate (tons/yr)} \times \text{AP-42 EF (0.0069 lb PE/ton)} \times 1 \text{ Ton/2000 lbs} = \text{TPY PE}$$

The allowable PE mass emissions limitations were established from information included in the application for PTIO P0100859 in the following calculations:

$$30 \text{ tons sand \& aggregate/hr, hoppers} \times 0.0069 \text{ lb PE/ton aggregate} = 0.21 \text{ lb PE/hr}$$

$$75,000 \text{ tons sand \& aggregate/yr, hoppers} \times 0.0069 \text{ lb PE/ton aggregate} \times 1 \text{ Ton/2000 lbs} = 0.26 \text{ TPY PE}$$

d. Emissions Limitations

The emissions of PM10 from loading the sand and aggregate hoppers shall not exceed 0.1 pound per hour and 0.08 TPY.

Applicable Compliance Method

If required, compliance with the short-term PM10 emissions limitation shall be demonstrated by Method 201 from 40 CFR Part 51, Appendix M

Compliance with the annual PM10 emissions limitations from loading the sand and aggregate hoppers shall be demonstrated by the following equation using the Emission Factor (EF) from AP-42, Fifth Edition, Ch. 11.12, Concrete Batching, 6/06:

$$\text{actual annual sand and aggregate hoppers loading rate (tons/yr)} \times \text{AP-42 EF (0.0033 lb PM10/ton)} \times 1 \text{ Ton/2000 lbs} = \text{TPY PM10}$$

The allowable PM10 mass emissions limitations were established from information included in the application for PTIO P0100859 in the following calculations:

$$30 \text{ tons sand \& aggregate/hr, hoppers} \times 0.0033 \text{ lb PM10/ton aggregate} = 0.1 \text{ lb PM10/hr}$$

$$75,000 \text{ tons sand \& aggregate/yr*}, \text{ hoppers} \times 0.0033 \text{ lb PM10/ton aggregate} \times 1 \text{ Ton/2000 lbs} = 0.12 \text{ TPY PM10}$$

e. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.



Applicable Compliance Method

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

f. Emissions Limitation

Visible particulate emissions of fugitive dust shall not exceed 20 percent opacity as a three-minute average.

Applicable Compliance Method

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

g) Miscellaneous Requirements

- (1) None.