



Environmental
Protection Agency

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

7/1/2011

MARK WILLIAMS
WILLIAMS CONCRETE INC.
P.O. BOX 147
MAUMEE, OH 43537

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0448031037
Permit Number: P0106448
Permit Type: Renewal
County: Lucas

Certified Mail

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

Dear Permit Holder:

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

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer 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 Toledo Department of Environmental Services at (419)936-3015 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, by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

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

Cc: TDES



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
WILLIAMS CONCRETE INC.**

Facility ID:	0448031037
Permit Number:	P0106448
Permit Type:	Renewal
Issued:	7/1/2011
Effective:	7/1/2011
Expiration:	7/1/2021



Division of Air Pollution Control
Permit-to-Install and Operate
for
WILLIAMS CONCRETE INC.

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Authorization

Facility ID: 0448031037
Application Number(s): A0039703
Permit Number: P0106448
Permit Description: Renewal for transit mix concrete batching plant.
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 7/1/2011
Effective Date: 7/1/2011
Expiration Date: 7/1/2021
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

WILLIAMS CONCRETE INC.
1350 FORD ST.
Maumee, OH 43537

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

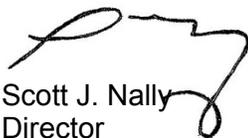
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Toledo Department of Environmental Services
348 South Erie Street
Toledo, OH 43604
(419)936-3015

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: P0106448

Permit Description: Renewal for transit mix concrete batching plant.

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

Emissions Unit ID:

Company Equipment ID:

Superseded Permit Number:

General Permit Category and Type:

F002

PLANT ROADWAYS AND PARKING AREAS

04-548

Not Applicable

Emissions Unit ID:

Company Equipment ID:

Superseded Permit Number:

General Permit Category and Type:

P902

TRANSIT MIX CONCRETE BATCHING PLANT

04-548

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 Toledo Department of Environmental Services in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

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

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

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

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

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

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting¹ a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emissions unit once the certification has been submitted to Ohio EPA by the authorized official.

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

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

¹Permittees 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. F002, PLANT ROADWAYS AND PARKING AREAS

Operations, Property and/or Equipment Description:

Plant Roadways & Parking Area

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)	Fugitive particulate emissions (PE) shall not exceed 6.9 tons per year. See b)(2)a. through b)(2)j.
b.	OAC rule 3745-17-07(B)(4)	There shall be no visible particulate emissions from any paved roadway or parking area except for a period of time not to exceed six minutes during any sixty-minute observation period.
c.	OAC rule 3745-17-07(B)(5)	There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed thirteen minutes during any sixty-minute observation period.
d.	OAC rule 3745-17-08(B)	See b)(2)k.

- (2) Additional Terms and Conditions
- a. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B)(4), 3745-17-07(B)(5) and 3745-17-08(B).
- b. The paved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:
- paved roadways:
- Outbound Road East #4
- c. The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:
- unpaved roadways:
- Inbound Road #1
- Aggregate Area #3
- Outbound Road West #5
- unpaved parking areas:
- Parking Area #2
- d. The permittee shall employ best available control measures on all paved roadways and parking areas to minimize or eliminate visible PE of fugitive dust. In accordance with the permittee's application, the permittee has committed to treat the paved roadways and parking areas by sweeping and/or flushing with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. The permittee shall employ best available control measures on all unpaved roadways and parking areas to minimize or eliminate visible PE of fugitive dust. In accordance with the permittee's application, the permittee has committed to treat the unpaved roadways with water and any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- f. Any unpaved roadway, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway that takes the characteristics of a paved roadway due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways. Any unpaved roadway that is paved shall be subject to the visible emission limitation for paved roadways.

- g. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for roadways or parking areas that are covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
 - h. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
 - i. Any unpaved roadways or parking areas that is subsequently paved, will require a permit modification for paved roadways and parking areas.
 - j. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
 - k. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the reasonably available control measures requirements of OAC rule 3745-17-08(B).
- c) Operational Restrictions
- (1) None.
- d) Monitoring and/or Recordkeeping Requirements
- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and parking areas in accordance with the following frequencies:

<u>roadways and parking areas</u>	<u>minimum inspection frequency</u>
all paved roads and parking areas	daily
all unpaved roads and parking areas	daily
 - (2) 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.
 - (3) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient

for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-mentioned events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

- (4) The permittee shall maintain records of the following information:
 - a. The date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. The date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. The control measures that were implemented; and
 - d. On a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.
 - (5) The information required in Term d)(4)d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.
- e) Reporting Requirements
- (1) 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)(4) above:
 - a. all days during which any visible emissions of fugitive dust were observed where it was determined necessary to implement control measures; and
 - b. any corrective actions taken to eliminate the visible emissions.
 - (2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit..
- f) Testing Requirements
- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

(2) Emission Limitation:

6.9 tons of fugitive PE per year

Applicable Compliance Method:

Compliance with fugitive PE limitation shall be determined by using the emission factor equations in Sections 13.2.1 (dated 1/11) and 13.2.2 (dated 11/06), in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 for paved roadways and unpaved roadways respectively and taking into account an assumed 80% control efficiency for PE. Should further updates in AP-42 occur, the most current equations for paved and unpaved roads shall be used.

(3) Emission Limitation:

No visible PE from paved roadways and parking areas except for a period of time not to exceed 6 minutes during any 60-minute observation period.

Applicable Compliance Method:

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

(4) Emission Limitation:

No visible PE from unpaved roadways and parking areas except for a period of time not to exceed 13 minutes during any 60-minute observation period.

Applicable Compliance Method:

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

g) Miscellaneous Requirements

(1) None.



2. P902, TRANSIT MIX CONCRETE BATCHING PLANT

Operations, Property and/or Equipment Description:

Concrete Batching 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
<i>(Transfer of Sand and Aggregate to Elevated Bins)</i>		
a.	OAC rule 3745-31-05(A)(3)	<p>Uncontrolled fugitive particulate emissions (PE) shall not exceed 1.02 tons per year.</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>

b.	OAC rule 3745-17-07(B)	Visible emissions of fugitive dust shall not exceed twenty percent opacity as a three-minute average.
c.	OAC rule 3745-17-08(B)	See b)(2)a.
<i>(Portland Cement and Fly Ash Silos vented to fabric filters)</i>		
d.	OAC rule 3745-31-05(A)(3)	PE shall not exceed 0.05 ton per year. Each fabric filter(s) serving a silo 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 b)(2)c.
e.	OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B)	See b)(2)a.
f.	OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B)	See b)(2)b.
<i>(Weigh Hopper Loading of Cement, Fly Ash, Sand and Aggregate)</i>		
g.	OAC rule 3745-31-05(A)(3)	Stack and fugitive PE shall not exceed 0.41 ton per year. The fabric filter serving the cement weigh hopper 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. See b)(2)d.
h.	OAC rule 3745-17-07(B) and	Visible emissions of fugitive dust shall not exceed twenty percent opacity as a three-minute average.
i.	OAC rule 3745-17-08(B)	See b)(2)a.
j.	OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B)	See b)(2)b.



<i>(Truck Loading of Aggregate, Sand, Cement and Cement Supplement)</i>		
k.	OAC rule 3745-31-05(A)(3)	Fugitive PE shall not exceed 1.1 tons per year. See b)(2)e.
l.	OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B)	See b)(2)a.

(2) Additional Terms and Conditions

- a. 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 3745-17-11(B) are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).
- c. 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:
 - i. 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.
 - ii. 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.
- d. 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 conveyor used to transfer sand and aggregate shall be covered. The transfer of sand/aggregate to the aggregate weigh hopper shall be enclosed. The enclosure shall be sufficient so as to minimize or eliminate at all times visible emissions of fugitive dust.

iii. The transfer of cement/cement supplement to the cement weigh hopper 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.

e. The permittee shall employ the following best available control measures for the above-identified truck mix loading process for the purpose of ensuring compliance with the above-mentioned applicable requirements:

A charging boot shall be used around the raw material discharge hopper area and transit mix truck opening. The charging boot shall extend into the mixer of the truck. Water shall be introduced at the charging boot. The control system shall be sufficient to minimize or eliminate, at all times, visible emissions of fugitive dust, to the extent possible, with good engineering design.

c) Operational Restrictions

- (1) The maximum annual throughput of sand and aggregate at this facility shall not exceed 140,000 tons per year.
- (2) The maximum annual throughput of cement and cement supplement at this facility shall not exceed 20,000 tons per year.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain annual records of the throughput of sand, aggregate, cement, and cement supplement, in tons.
- (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 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.

- (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 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 identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for throughput in term number d)(1) above:
 - a. any exceedance of the annual throughput limitation for sand and aggregate; and
 - b. any exceedance of the annual throughput limitation for cement and cement supplement.
- (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) and (3) above:
 - a. all days during which any visible particulate emissions were observed from any fabric filter serving this emissions unit;
 - b. all days during which any visible emissions of fugitive dust were observed from each sand and/or aggregate transfer point and truck loading serving this emissions unit; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions from the fabric filters and/or visible emissions of fugitive dust.
- (3) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the 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:

Each fabric filter shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by emission testing in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

b. Transfer of Sand and Aggregate to Elevated Bins Emission Limitation: PE shall not exceed 1.02 tons/yr.

Maximum throughput and calculations are based on a mix design consisting of 44% aggregate and 36% sand at the maximum sand and aggregate throughput of 140,000 tons per year.

Aggregate emission factor = 0.0069 lb PE/ton (AP-42, 11.12, 6/06)

Sand emission factor = 0.0021 lb PE/ton (AP-42, 11.12, 6/06)

Aggregate feed hopper loading = 77,000 tons/yr max transfer rate
77,000 tons/yr x 0.0069 lb/ton x ton/2000 lbs = 0.27 ton PE/yr
Aggregate feed hopper to conveyor = 77,000 tons/yr max transfer rate
77,000 tons/yr x 0.0069 lb/ton x ton/2000 lbs = 0.27 ton PE/yr
Aggregate conveyor to bin = 77,000 tons/yr max transfer rate
77,000 tons/yr x 0.0069 lb/ton x ton/2000 lbs = 0.27 ton PE/yr
Sand feed hopper loading = 63,000 tons/yr max transfer rate
63,000 tons/yr x 0.0021 lb/ton x ton/2000 lbs = 0.07 ton PE/yr
Sand feed hopper to conveyor = 63,000 tons/yr max transfer rate
63,000 tons/yr x 0.0021 lb/ton x ton/2000 lbs = 0.07 ton PE/yr
Sand conveyor to bin = 63,000 tons/yr max transfer rate
63,000 tons/yr x 0.0021 lb/ton x ton/2000 lbs = 0.07 ton PE/yr

Aggregate & sand transfer total = 1.02 tons PE/yr

c. Portland Cement, and Fly Ash Silos Emission Limitation: PE shall not exceed 0.05 ton/yr.

Maximum throughput and calculations are based on a mix design consisting of 7% cement and 7% cement supplement (fly ash) at the maximum cement and cement supplement throughput of 20,000 tons per year.

Cement emission factor = 0.00099 lb PE/ton (AP-42, 11.12, 6/06)

Supplement emission factor = 0.0089 lb PE/ton (AP-42, 11.12, 6/06)

Truck to cement silo = 10,000 tons/yr max transfer rate
 $10,000 \text{ tons/yr} \times 0.00099 \text{ lb/ton} \times \text{ton}/2000 \text{ lbs} = 0.005 \text{ ton PE/yr}$
Truck to cement supplement silo = 10,000 tons/yr max transfer rate
 $10,000 \text{ tons/yr} \times 0.0089 \text{ lbs/ton} \times \text{ton}/2000 \text{ lbs} = 0.04 \text{ ton PE/yr}$

Cement & cement supplement unloading total = 0.05 ton PE/yr

- d. Weigh Hopper Loading of Cement, Fly Ash, Sand and Aggregate Emission Limitation: PE shall not exceed 0.41 ton/yr.

Maximum throughput and calculations are based on a mix design consisting of 7% cement, 7% cement supplement (fly ash) at the maximum throughput of 140,000 tons per year of sand and aggregate, and 20,000 tons per year of cement and cement supplement.

Aggregate weigh hopper emission factor = 0.0051 lb PE/ton (AP-42, 11.12, 6/06)
Cement weigh hopper loading (cement) = 0.00099 lb PE/ton
Cement weigh hopper loading (cement supplement) = 0.0089 lb PE/ton

Bins to aggregate weigh hopper = 140,000 tons/yr max transfer rate
 $140,000 \text{ tons/yr} \times 0.0051 \text{ lb/ton} \times \text{ton}/2000 \text{ lbs} = 0.36 \text{ ton PE/yr}$

Cement silo to cement weigh hopper
 $10,000 \text{ tons/yr} \times 0.00099 \text{ lb/ton} \times \text{ton}/2000 \text{ lbs} = 0.005 \text{ ton PE/yr}$

Cement supplement silo to cement weigh hopper
 $10,000 \text{ tons/yr} \times 0.0089 \text{ lb/ton} \times \text{ton}/2000 \text{ lbs} = 0.04 \text{ ton PE/yr}$

Weigh hopper loading total = 0.41 ton PE/yr

- e. Truck Loading of Aggregate, Sand, Cement and Cement Supplement Emission Limitation: PE shall not exceed 1.1 tons/yr.

Emission factor = 1.118 lb PE/ton (AP-42, 11.12, 6/06)
Estimated capture efficiency = 90%

Weigh hopper to truck = 20,000 tons/yr max transfer rate
 $20,000 \text{ tons/yr} \times 1.118 \text{ lb/ton} \times \text{ton}/2000 \text{ lbs} (1-0.9) = 1.1 \text{ tons PE/yr}$

Truck loading total = 1.1 tons PE/yr

- f. Emission Limitation:

There shall be no visible particulate emissions from the fabric filters serving this emissions unit. The pneumatic system shall be adequately enclosed so as to eliminate at all times visible emissions of fugitive dust. The silo enclosures shall be sufficient so as to eliminate at all times visible emissions of fugitive dust at the point of capture.

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. Emission Limitation:

Visible emissions of fugitive dust from this emissions unit shall not exceed twenty percent opacity as a three-minute average.

Applicable Compliance Method:

If required, compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9 and the procedures of OAC rule 3745-17-03(B)(3).

g) Miscellaneous Requirements

- (1) The terms and conditions contained in this Permit to Install and Operate for emissions unit P902 supercede all requirements for emissions units P901 and P902 contained in PTI 04-548.