



Environmental Protection Agency

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

6/17/2011

Jim Thompson
MACK INDUSTRIES, INC.
201 Columbia Road
Valley City, OH 44280

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 1652000012
Permit Number: P0108183
Permit Type: Renewal
County: Medina

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 Akron Regional Air Quality Management District at (330)375-2480 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: ARAQMD



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
MACK INDUSTRIES, INC.**

Facility ID:	1652000012
Permit Number:	P0108183
Permit Type:	Renewal
Issued:	6/17/2011
Effective:	6/17/2011
Expiration:	6/17/2021



Division of Air Pollution Control
Permit-to-Install and Operate
for
MACK INDUSTRIES, INC.

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Authorization

Facility ID: 1652000012
Application Number(s): A0041847, A0042020
Permit Number: P0108183
Permit Description: Renewal Permit to Install and Operate for Paved and Unpaved Roadways and Parking Areas (F001), Production Concrete Plant (P901), and Ready Mixed Concrete Plant #1 (P902).
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 6/17/2011
Effective Date: 6/17/2011
Expiration Date: 6/17/2021
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

MACK INDUSTRIES, INC.
201 COLUMBIA ROAD
VALLEY CITY, OH 44280

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

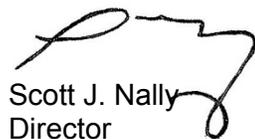
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Akron Regional Air Quality Management District
146 South High Street, Room 904
Akron, OH 44308
(330)375-2480

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: P0108183

Permit Description: Renewal Permit to Install and Operate for Paved and Unpaved Roadways and Parking Areas (F001), Production Concrete Plant (P901), and Ready Mixed Concrete Plant #1 (P902).

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

Emissions Unit ID:	F001
Company Equipment ID:	Roadways
Superseded Permit Number:	16-02354
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P901
Company Equipment ID:	Production Concrete Plant
Superseded Permit Number:	16-1756
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P902
Company Equipment ID:	Ready Mix Concrete Plant #1
Superseded Permit Number:	P0101501
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 Akron Regional Air Quality Management District 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. F001, Roadways

Operations, Property and/or Equipment Description:

Paved and Unpaved Roadways and Parking Areas.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

Table with 2 columns: Applicable Rules/Requirements, Applicable Emissions Limitations/Control Measures. Rows include: For Paved and Unpaved Roadways and Parking Areas; a. OAC rule 3745-31-05(A)(3); For Paved Roadways and Parking Areas (See b)(2)a. below.); b. OAC rule 3745-31-05(A)(3).

c.	OAC rule 3745-17-07(B)(4)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-08(B), (B)(8), (B)(9)	The control measures specified by these rule are less stringent than the control measures established pursuant to OAC rule 3745-31-05(A)(3).
For Unpaved Roadways and Parking Areas (See b)(2)b. below.)		
e.	OAC rule 3745-31-05(A)(3)	There shall be no visible PE except for a period of time not to exceed three minutes during any sixty-minute observation period. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust shall be employed. (See b)(2)d. through b)(2)i. below.)
f.	OAC rule 3745-17-07(B)(5)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
g.	OAC rule 3745-17-08(B), (B)(2)	The control measures specified by these rule are less stringent than the control measures established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. The paved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

paved roadways:

truck and employee main entrance

truck parking lot entrance

paved parking areas:

none

- b. The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadways:

internal truck roads

unpaved parking areas:

truck parking lot

employee parking lot

- c. The permittee shall employ best available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by sweeping at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water and/or non-petroleum based road suppressant 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 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 a paved or unpaved 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. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- f. Any unpaved roadway or parking area, 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 or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- g. 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.

- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in d)(4)d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The PER 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:

There shall be no visible PE except for a period of time not to exceed one minute during any sixty-minute observation period.

There shall be no visible PE except for a period of time not to exceed three minutes during any sixty-minute observation period.

Applicable Compliance Method:

If required, compliance with the PE limitations 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"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

b. Emission Limitation:

The PE from this emissions unit shall not exceed 17.0 tons per year.

Applicable Compliance Method:

Compliance with the annual allowable PE limitation above shall be determined by multiplying the AP-42 derived emission factor of 4.11 pounds of PE per vehicle mile traveled (VMT)* on paved roadways and parking areas by the maximum annual VMT on paved roadways and parking areas times (1-0.9^{***}) plus multiplying the AP-42 derived emission factor of 8.57 pounds of PE per VMT** on unpaved roadways and parking areas by the maximum annual VMT on unpaved roadways and parking areas times (1-0.7^{***}), and then dividing by 2000 pounds per ton.

*AP-42 Chapter 13.2.1, Equation (2), dated January 2011.

**AP-42 Chapter 13.2.2 Equations (1a) and (2), dated November 2006.

***Estimated control efficiency for control methods employed.

g) Miscellaneous Requirements

(1) None.



2. P901, Production Concrete Plant

Operations, Property and/or Equipment Description:

Central Mix Plant - Central Batcher, Weigh Hopper and Bins, and Cement and Fly Ash Silos.

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
For the Central Mix Plant:		
a.	OAC rule 3745-31-05(A)(3)	The particulate emissions (PE) from this emissions unit shall not exceed 2.23 pounds per hour and 9.8 tons per year.
b.	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
For the transfer of sand and aggregate to elevated bins:		
c.	OAC rule 3745-17-07(B)	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.
d.	OAC rule 3745-17-08(B)	The drop height of the front-end bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the conveyor loading area.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		The sand and aggregate loaded into the elevated bins shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the conveyor(s) and transfer point(s).
For the three cement silos and on fly ash silo:		
e.	OAC rule 3745-17-08(B)	The silo(s) shall be adequately enclosed and vented to a fabric filter/baghouse. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust. The fabric filter(s) shall achieve an outlet emission rate not greater than 0.030 grain of PE per dry standard cubic foot of exhaust gases or there shall be no visible PE from the exhaust stack(s), whichever is less stringent.
For the weigh hopper loading of cement, sand, and aggregate:		
f.	OAC rule 3745-17-07(B)	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.
g.	OAC rule 3745-17-08(B)	The weigh hopper shall be adequately enclosed. The enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust.
For the mixer loading:		
h.	OAC rule 3745-17-07(B)	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.
i.	OAC rule 3745-17-08(B)	The mixer loading shall be adequately enclosed. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks while the equipment is in operation for any visible particulate emissions from the fabric filter/baghouse control systems. An identification of each fabric filter/baghouse control system and the presence or absence

of any visible emissions from each of the fabric filter/baghouse control systems shall be noted in an operations log. If any visible particulate emissions are observed from any of the control systems, corrective actions shall be taken to eliminate the visible emissions and these actions shall also be noted in the operations log.

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 PER 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:

0.030 grain of PE per dry standard cubic foot of exhaust gases

Applicable Compliance Method:

If required, compliance with the PE limitation above shall be determined in accordance with the procedures and test method(s) specified in OAC rule 3745-17-03(B)(7).

b. Emission Limitation:

The PE from this emissions unit shall not exceed 2.23 pounds per hour.

Applicable Compliance Method:

Compliance with the hourly allowable PE limitation above shall be determined by totaling the following products:

i. Sand and aggregate transfer to elevated bins:

Multiply the AP-42 PE factor of 0.0069 pound of PE per ton of material loaded* by the maximum hourly loading rate, in tons per hour, (11 tons per hour) times 3** plus multiply the AP-42 PE factor of 0.0021 pound of PE per ton of material loaded by the maximum hourly loading rate, in tons per hour, (9 tons per hour) times 3**. The resulting emission rate is 0.28 pound of PE per hour.

ii. Cement and cement supplement unloading to elevated storage silos (pneumatic):

Multiply the AP-42 PE factor of 0.00099 pound of PE per ton of material loaded* by the maximum hourly loading rate, in tons per hour, (30 tons per hour) plus multiply the AP-42 PE factor of 0.0089 pound of PE per ton of material loaded* by the maximum hourly loading rate, in tons per hour, (30 tons per hour). The resulting controlled emission rate is 0.30 pound of PE per hour.

iii. Weigh hopper loading:

Multiply the AP-42 PE factor of 0.0048 pound of PE per ton of aggregate and sand* by the maximum hourly loading rate, in tons per hour, (19.2 tons per hour). The resulting emission rate is 0.09 pound of PE per hour.

iv. Mixer loading:

Multiply the AP-42 PE factor of 0.0184 pound of PE per ton of cement and cement supplement* by the maximum hourly loading rate, in tons per hour, (3.36 tons per hour). The resulting controlled emission rate is 0.06 pound of PE per hour.

The PE rates for each of the four areas are summed resulting in an emission rate of 0.73 pound per hour.

*Emission factors are from AP-42 Table 11.12-2 dated June 2006.

**Number of transfer points.

c. Emission Limitation:

The PE from this emissions unit shall not exceed 9.8 tons per year.

Applicable Compliance Method:

The annual allowable PE limitation above was determined by multiplying the hourly allowable PE limitation by 8760 hours per year, and then dividing by 2000 pounds per ton. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual allowable emission limitation shall be assumed.

d. Emission Limitation:

The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.

Applicable Compliance Method:

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

e. Emission Limitation:

There shall be no visible PE from the exhaust stack(s).

Applicable Compliance Method:

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

g) Miscellaneous Requirements

(1) None.



3. P902, Ready Mix Concrete Plant #1

Operations, Property and/or Equipment Description:

Concrete Batching Plant #1 - Truck Batcher, Aggregate Hoppers and Bins, and Cement and Fly Ash Silos

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

Table with 2 columns: Applicable Rules/Requirements and Applicable Emissions Limitations/Control Measures. Rows include: For the Concrete Batching Plant #1: a. OAC rule 3745-17-11; For the transfer of sand and aggregate to elevated bins: b. OAC rule 3745-17-07(B); c. OAC rule 3745-17-08(B).



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		The sand and aggregate loaded into the elevated bins shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the conveyor(s) and transfer point(s).
For the two cement silos and one fly ash silo:		
d.	OAC rule 3745-17-08(B)	The silo(s) shall be adequately enclosed and vented to a fabric filter/baghouse. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust. The fabric filter(s) shall achieve an outlet emission rate not greater than 0.030 grain of PE per dry standard cubic foot of exhaust gases or there shall be no visible PE from the exhaust stack(s), whichever is less stringent.
For the weigh hopper loading of cement, sand, and aggregate:		
e.	OAC rule 3745-17-07(B)	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.
f.	OAC rule 3745-17-08(B)	The weigh hopper shall be adequately enclosed. The enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust.
For the loading of transit-mix trucks:		
g.	OAC rule 3745-17-07(B)	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.
h.	OAC rule 3745-17-08(B)	A charging boot shall be used around the hopper choke-feed discharge area and the transit-mix truck opening; the charging boot shall have a collection efficiency sufficient to minimize or eliminate visible emissions of fugitive dust at the point of capture to the extent possible with good engineering design.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks while the equipment is in operation for any visible particulate emissions from the fabric filter/baghouse control. An identification of each fabric filter/baghouse control system and the presence or absence of any visible emissions from each of the fabric filter/baghouse control systems shall be noted in an operations log. If any visible particulate emissions are observed from any of the control systems, corrective actions shall be taken to eliminate the visible emissions and these actions shall also be noted in the operations log.
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from truck loading serving this emissions unit. No inspections are required on days the truck loading operation is 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.

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 PER 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:

0.030 grain of PE per dry standard cubic foot of exhaust gases

Applicable Compliance Method:

If required, compliance with the PE limitation above shall be determined in accordance with the procedures and test method(s) specified in OAC rule 3745-17-03(B)(7).

b. Emission Limitation:

The PE from this emissions unit shall not exceed 47.5 pounds per hour.

Applicable Compliance Method:

Compliance with the hourly allowable PE limitation above shall be determined by totaling the following products:

i. Sand and aggregate transfer to elevated bins:

Multiply the AP-42 PE factor of 0.0069 pound of PE per ton of material loaded* by the maximum hourly loading rate, in tons per hour, (30 tons per hour) times 3** plus multiply the AP-42 PE factor of 0.0021 pound of PE per ton of material loaded by the maximum hourly loading rate, in tons per hour, (25 tons per hour) times 3**. The resulting emission rate is 0.78 pound of PE per hour.

ii. Cement and cement supplement unloading to elevated storage silos (pneumatic):

Multiply the AP-42 PE factor of 0.00099 pound of PE per ton of material loaded* by the maximum hourly loading rate, in tons per hour, (30 tons per hour) plus multiply the AP-42 PE factor of 0.0089 pound of PE per ton of material loaded* by the maximum hourly loading rate, in tons per hour, (30 tons per hour). The resulting controlled emission rate is 0.30 pound of PE per hour.

iii. Weigh hopper loading:

Multiply the AP-42 PE factor of 0.0048 pound of PE per ton of aggregate and sand* by the maximum hourly loading rate, in tons per hour, (54.4 tons per hour). The resulting emission rate is 0.26 pound of PE per hour.

iv. Mixer loading:

Multiply the AP-42 PE factor of 1.118 pounds of PE per ton of cement and cement supplement* by the maximum hourly loading rate, in tons per hour, (9.52 tons per hour). The resulting controlled emission rate is 10.64 pounds of PE per hour.

The PE rates for each of the four areas are summed resulting in an emission rate of 11.98 pounds per hour.

*Emission factors are from AP-42 Table 11.12-2 dated June 2006.

**Number of transfer points.

c. Emission Limitation:

The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.

Applicable Compliance Method:

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

d. Emission Limitation:

There shall be no visible PE from the exhaust stack(s).

Applicable Compliance Method:

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

g) Miscellaneous Requirements

(1) None.