



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

4/11/2013

John Joslin
ASSOCIATED ASSOCIATES, INC.
PO BOX 2533
Streetsboro, OH 44241

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 1667000061
Permit Number: P0113496
Permit Type: Renewal
County: Portage

Certified Mail

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

Dear Permit Holder:

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

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

How to appeal this permit

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

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

How to save money, reduce pollution and reduce energy consumption

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

How to give us feedback on your permitting experience

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

How to get an electronic copy of your permit

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

If you have any questions, please contact Akron Regional Air Quality Management District at (330)3752480 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael W. Ahern, Manager

Permit Issuance and Data Management Section, DAPC

Cc: ARAQMD



FINAL

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

Facility ID: 1667000061
Permit Number: P0113496
Permit Type: Renewal
Issued: 4/11/2013
Effective: 4/11/2013
Expiration: 4/11/2023



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

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Final Permit-to-Install and Operate
ASSOCIATED ASSOCIATES, INC.
Permit Number: P0113496
Facility ID: 1667000061
Effective Date: 4/11/2013

Authorization

Facility ID: 1667000061
Application Number(s): A0046605
Permit Number: P0113496
Permit Description: Administrative Modification being processed as a Renewal PTIO for a truck mix concrete batch plant in order to revise BAT limits based on updated production rates and emissions factors.
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 4/11/2013
Effective Date: 4/11/2013
Expiration Date: 4/11/2023
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

ASSOCIATED ASSOCIATES, INC.
9551 ELLIMAN ROAD
SHALERSVILLE TWP., OH 44255

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:

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



Final Permit-to-Install and Operate
ASSOCIATED ASSOCIATES, INC.
Permit Number: P0113496
Facility ID: 1667000061
Effective Date: 4/11/2013

Authorization (continued)

Permit Number: P0113496
Permit Description: Administrative Modification being processed as a Renewal PTIO for a truck mix concrete batch plant in order to revise BAT limits based on updated production rates and emissions factors.

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

Emissions Unit ID:	P901
Company Equipment ID:	Dry Concrete Batching Plant
Superseded Permit Number:	16-1310
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
ASSOCIATED ASSOCIATES, INC.
Permit Number: P0113496
Facility ID: 1667000061
Effective Date: 4/11/2013

A. Standard Terms and Conditions



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

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

2. Who is responsible for complying with this permit?

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

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

3. What records must I keep under this permit?

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

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

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

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

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

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

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

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



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

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

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

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

7. What reports must I submit under this permit?

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

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

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

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

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

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



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

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

¹ Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).



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

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

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

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

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

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



Final Permit-to-Install and Operate
ASSOCIATED ASSOCIATES, INC.
Permit Number: P0113496
Facility ID: 1667000061
Effective Date: 4/11/2013

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
ASSOCIATED ASSOCIATES, INC.
Permit Number: P0113496
Facility ID: 1667000061
Effective Date: 4/11/2013

C. Emissions Unit Terms and Conditions



1. P901, Dry Concrete Batching Plant

Operations, Property and/or Equipment Description:

Truck mix concrete batch plant.

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 6.47 tons per year. The permittee shall employ the PE control measures identified below in Sections b)(2)b. through b)(2)e. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rules 3745-17-07(A).
b.	OAC rule 3745-17-07(A)	Visible PE from the fabric filters serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-07(B) OAC rule 3745-17-08(B)	This facility is not located within an "Appendix A" area, as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A)(1) and OAC rule



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		3745-17-07(B)(11)(e), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B) and OAC rule 3745-17-07(B).
d.	OAC rule 3745-17-11(B)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. The permittee shall employ best available technology (BAT) to control particulate emissions from the transfer of sand and aggregate to elevated bins. The control technology shall include the following:
 - i. the satisfactory employment of properly installed bin enclosures for the sand and aggregate bins, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate emissions;
 - ii. the enclosures for the sand and aggregate bins shall be sufficient to minimize visible emissions of fugitive dust at the point of capture to the extent possible with good engineering design;
 - iii. the sand and aggregate loaded into the elevated bins shall have a moisture content sufficient to minimize visible emissions of fugitive dust from the conveyor and transfer point to bins; and
 - iv. the drop height of the front-end bucket shall be minimized to the extent possible in order to minimize visible emissions of fugitive dust from the conveyor loading area.

- b. The permittee shall employ best available technology (BAT) to control particulate emissions from the three cement silo vents. The control technology shall include the following:
 - i. the satisfactory employment of properly installed fabric filters for each of the silo vents, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate emissions;
 - ii. the installation and employment of hoods, fans, ducts, and other equipment, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately enclose, contain, capture, and vent particulates to the fabric filters; and



- iii. the enclosures for the cement silo vents shall be sufficient to minimize visible emissions of fugitive dust at the points of capture to the extent possible with good engineering design.
- c. The permittee shall employ best available technology (BAT) to control particulate emissions from the weigh hopper loading of cement, and sand and aggregate. The control technology shall include the following:
 - i. the satisfactory employment of a properly installed fabric filter, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate emissions from the cement weigh hopper;
 - ii. the installation and employment of hoods, fans, ducts, and other equipment, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately enclose, contain, capture, and vent particulates to the fabric filter; and
 - iii. the enclosures for the weigh hoppers shall be sufficient to minimize visible emissions of fugitive dust at the points of capture to the extent possible with good engineering design.
- d. The permittee shall employ best available technology (BAT) to control particulate emissions from the loading of the transit-mix truck. The control technology shall include the following:
 - i. the satisfactory employment of a properly installed telescoping charging boot used as an enclosure around the hopper discharge area and transit-mix truck opening; and
 - ii. the charging boot shall have a collection efficiency sufficient to minimize visible emissions of fugitive dust at the point of capture to the extent possible with good engineering design.
- e. This permit only covers the portable concrete batch plant (OEPA ID #1667000061P901), owned and operated by Associated Associates, Inc., situated on land leased from the S & S Aggregate, Inc. facility (OEPA ID #1667000020) located at 9551 Elliman Road, Mantua, OH 44255.

According to both Associated Associates, Inc. and S & S Aggregate, Inc., all other operations and activities (except the concrete plant), including roadways/parking areas, storage piles, material handling outside of the concrete plant, etc., at this location are owned and operated, with full responsibility, by S & S Aggregate, Inc.

c) Operational Restrictions

- (1) The permittee shall employ all fabric filters serving this emissions unit at all times the emissions unit is in operation.



d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall document when any fabric filter serving this emissions unit was not in service when the emissions unit was in operation.
- (2) The permittee shall maintain annual records of the amounts of sand, aggregate, and cement processed at this plant along with the annual cubic yards or tons of concrete produced.
- (3) The permittee shall perform daily checks, when the emissions unit is in operation and when weather conditions allow, for any visible particulate emissions from any fabric filter serving this emissions unit. The presence or absence of any visible particulate emissions from such fabric filter shall be noted daily in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in an operations log:
 - a. the total duration of the visible emissions 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.

e) **Reporting Requirements**

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.
- (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) above:
 - a. all days during which any visible particulate emissions were observed from any fabric filter serving this emission unit;
 - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

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:

Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined by visible emission evaluations performed in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 9 and the methods and procedures specified in OAC rule 3745-17-03(B)(1).

b. Emission Limitation:

Particulate emissions (PE) shall not exceed 6.47 tons per year.

Applicable Compliance Method:

Compliance shall be determined using the following equation:

$$E = E_1 + E_2 + E_3 + E_4 + E_5$$

where:

E = total particulate emissions, in tons per year.

E₁ = controlled particulate emissions from the silos using the following equation:

$$E_1 = (0.00099 \text{ lb/ton})(R_1)(1 \text{ ton}/2000 \text{ lbs})$$

where:

0.00099 lb/ton = emission factor for Concrete Batching (AP42, Section 11.12, table 11.12-2, 6/06); and

R₁ = maximum loading rate in tons of material loaded per year.

E₂ = particulate emissions from the aggregate transfer to elevated storage operation using the following equation:

$$E_2 = (0.0069 \text{ lb/ton})(PWR_2)(1 \text{ ton}/2000 \text{ lbs})$$

where:

0.0069 lb/ton = emission factor for Concrete Batching (AP42, Section 11.12, table 11.12-2, 6/06);

R₂ = maximum transfer rate in tons of aggregate transferred per year.

E₃ = particulate emissions from the sand transfer to elevated storage operation using the following equation:



$$E_3 = (0.0021 \text{ lb/ton})(R_3)(1 \text{ ton}/2000 \text{ lbs})$$

where:

0.0021 lb/ton = emission factor for Concrete Batching (AP42, Section 11.12, table 11.12-2, 6/06);

R_3 = maximum transfer rate in tons of sand transferred per year.

E_4 = particulate emissions from the weigh hopper loading operation using the following equation:

$$E_4 = (0.0048 \text{ lb/ton})(R_4)(1 \text{ ton}/2000 \text{ lbs})$$

where:

0.0048 lb/ton = emission factor for Concrete Batching (AP42, Section 11.12, table 11.12-2, 6/06);

R_4 = maximum loading rate in tons of material loaded per year.

E_5 = controlled particulate emissions from the truck loading operation using the following equation:

$$E_5 = (0.098 \text{ lb/ton})(R_5)(1 \text{ ton}/2000 \text{ lbs})$$

where:

0.098 lb/ton = emission factor for Concrete Batching (AP42, Section 11.12, table 11.12-2, 6/06);

R_5 = maximum loading rate in tons of material loaded per year.

g) Miscellaneous Requirements

- (1) None.