State of Ohio Environmental Protection Agency

STREET ADDRESS:
Lazarus Government Center
50 W. Town St., Suite 700
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-3184
www.epa.state.oh.us

MAILING ADDRESS:
P.O. Box 1049
Columbus, OH 43216-1049

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR
No	CEMS
No	MACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

6/5/2009

Mr. Carroll Shaw, Jr.
Twin Cities Concrete Co.
230 East Smith Road
Medina, OH 44256

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0679010016
Permit Number: P0104919
Permit Type: Renewal
County: Tuscarawas

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.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, www.epa.state.oh.us/dapc, from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of $70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Southeast District Office. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page www.epa.state.oh.us/dapc.

Sincerely,

Michael W. Ahern

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

Cc: Ohio EPA-SEDO

State of Ohio Environmental Protection Agency
Division of Air Pollution Control

FINAL

Air Pollution Permit-to-Install and Operate
for
Twin Cities Concrete Co.

Facility ID:	0679010016
Permit Number:	P0104919
Permit Type:	Renewal
Issued:	6/5/2009
Effective:	6/5/2009
Expiration:	6/5/2019

State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Air Pollution Permit-to-Install and Operate
for
Twin Cities Concrete Co.

Table of Contents

Authorization 1

A. Standard Terms and Conditions 3

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

B. Facility-Wide Terms and Conditions 8

C. Emissions Unit Terms and Conditions 10

1. P901, Concrete batch plant 11

Authorization

Facility ID: 0679010016
Application Number(s): A0037573, A0037643
Permit Number: P0104919
Permit Description: Renewal of PTO for concrete batch plant (P901; replacing F001 and F002 and superseding PTI 06-05409, issued April 8, 1998) and change to general PTIO
Permit Type: Renewal
Permit Fee: $0.00
Issue Date: 6/5/2009
Effective Date: 6/5/2009
Expiration Date: 6/5/2019
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15
This document constitutes issuance to:

Twin Cities Concrete Co.
141 S. Tuscarawas Ave.
Dover, OH 44622

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

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

Ohio EPA DAPC, Southeast District Office
2195 Front Street
Logan, OH 43138
(740)385-8501

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

Chris Korleski
Director

Authorization (continued)

Permit Number: P0104919
Permit Description: Renewal of PTO for concrete batch plant (P901; replacing F001 and F002 and superseding PTI 06-05409, issued April 8, 1998) and change to general PTIO

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:	Concrete batch plant
Superseded Permit Number:	
General Permit Category and Type:	Ready Mix Concrete Batch Plants - Truck Mix (GP4.1)

A. Standard Terms and Conditions

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

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

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

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

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

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

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

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

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

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

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

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

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

   This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

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

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

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

7. What reports must I submit under this permit?

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

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

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

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

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

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

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

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Southeast District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

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

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

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

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

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

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

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

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

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

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

change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

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

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

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

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

B. Facility-Wide Terms and Conditions

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

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

      (1) None.

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

      (1) None.

C. Emissions Unit Terms and Conditions

1. P901, Concrete batch plant

Operations, Property and/or Equipment Description:

300 ton per hour Erie Strayer concrete batch plant; model # MCG-11. The requirements of this PTIO supersede the requirements of PTI 06-05409, issued April 8, 1998, for emissions units F001 and F002.

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 operations(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. 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
(Transfer of Sand and Aggregate to Elevated Bins)		
a.	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 2.85 tons/yr. Visible emissions of fugitive dust shall not exceed 10 percent opacity, as a 3-minute average. 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. 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.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B)	See b)(2)a.
(Portland Cement, Fly Ash and Slag Silos)		
c.	OAC rule 3745-31-05(A)(3)	PE shall not exceed 0.18 ton/yr. 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.
d.	OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B)	See b)(2)a.
e.	OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B)	See b)(2)b.
(Weigh Hopper Loading of Cement, Fly Ash, Slag, and possibly Sand and Aggregate)		
f.	OAC rule 3745-31-05(A)(3)	PE shall not exceed 1.02 tons/yr. The fabric filter serving the 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.
g.	OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B)	See b)(2)a.
h.	OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B)	See b)(2)b.
(Truck Loading of Aggregate, Sand, Cement and Cement Supplement)		
i.	OAC rule 3745-31-05(A)(3)	PE shall not exceed 7.35 tons/yr. Visible emissions of fugitive dust shall not exceed 10 percent opacity, as a 3-minute average. The fabric filter serving truck loading shall achieve an outlet emission rate of not

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		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)e.
j.	OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B)	See b)(2)a.
k.	OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B)	See b)(2)b.

(2) Additional Terms and Conditions

a. For facilities in Appendix A areas as defined in OAC rule 3745-17-08(D), 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 OAC rule 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 transfer of cement/cement supplement/sand/aggregate to the concrete batching weigh hoppers 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:

The permittee shall install and employ a fabric filter dust collection system for the purpose of controlling fugitive dust emissions from the truck mix loading process. The fabric filter dust collection system shall be installed and operational prior to initial start-up of this facility. The control system shall be operated at all times that trucks are being loaded and shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point of capture.

c) Operational Restrictions

(1) The maximum hourly production rate for this truck mix concrete facility shall not exceed 200 cubic yards of concrete (400 tons) per hour.

(2) The maximum annual production rate for this truck mix concrete facility shall not exceed 250,000 cubic yards of concrete (500,000 tons) per year.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain annual records of the cubic yards or tons of concrete produced at this facility.

(2) The permittee shall perform weekly checks, when the emissions unit is in operation, and when the weather conditions allow, for any visible particulate emissions from the 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) 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 emission limitation(s) in b)(1) shall be determined in accordance with the following method(s):

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 and the procedures specified in OAC rule 3745-17-03(B)(10).

b. Transfer of Sand and Aggregate to Elevated Bins Emission Limitation: PE shall not exceed 2.85 tons/yr.

Maximum throughput and calculations are based on a mix design consisting of 44% aggregate, 36% sand, 7% cement, 7% cement supplement (slag/fly ash) and 6% water.

Aggregate emission factor = 0.0069 lb PE/ton (AP-42, 11.12, 10/01)

Sand emission factor = 0.0021 lb PE/ton (AP-42, 11.12, 10/01)

Aggregate feed hopper loading = 220,000 tons/yr max transfer rate
220,000 tons/yr x 0.0069 lb/ton x ton/2000 lbs = 0.76 ton PE/yr
Aggregate feed hopper to conveyor = 220,000 tons/yr max transfer rate
220,000 tons/yr x 0.0069 lb/ton x ton/2000 lbs = 0.76 ton PE/yr

Aggregate conveyor to bin = 220,000 tons/yr max transfer rate
220,000 tons/yr x 0.0069 lb/ton x ton/2000 lbs = 0.76 ton PE/yr
Sand feed hopper loading = 180,000 tons/yr max transfer rate
180,000 tons/yr x 0.0021 lb/ton x ton/2000 lbs = 0.19 ton PE/yr
Sand feed hopper to conveyor = 180,000 tons/yr max transfer rate
180,000 tons/yr x 0.0021 lb/ton x ton/2000 lbs = 0.19 ton PE/yr
Sand conveyor to bin = 180,000 tons/yr max transfer rate
180,000 tons/yr x 0.0021 lb/ton x ton/2000 lbs = 0.19 ton PE/yr

Aggregate & sand transfer total = 2.85 tons PE/yr

c. Portland Cement, Fly Ash and Slag Silos Emission Limitation: PE shall not exceed 0.18 ton/yr.

Maximum throughput and calculations are based on a mix design consisting of 44% aggregate, 36% sand, 7% cement, 7% cement supplement (slag/fly ash) and 6% water.

Cement emission factor = 0.00099 lb PE/ton (AP-42, 11.12, 10/01)
Supplement emission factor = 0.0089 lb PE/ton (AP-42, 11.12, 10/01)

Truck to cement silo = 35,000 tons/yr max transfer rate
35,000 tons/yr x 0.00099 lb/ton x ton/2000 lbs = 0.02 ton PE/yr
Truck to cement sup silo = 35,000 tons/yr max transfer rate
35,000 tons/yr x 0.0089 lbs/ton x ton/2000 lbs = 0.16 ton PE/yr

Cement & cement supplement unloading total = 0.18 ton PE/yr

d. Weigh Hopper Loading of Cement, Fly Ash, Slag, and possibly Sand and Aggregate Emission Limitation: PE shall not exceed 1.02 tons/yr.

Maximum throughput and calculations are based on a mix design consisting of 44% aggregate, 36% sand, 7% cement, 7% cement supplement (slag/fly ash) and 6% water.

Emission factor = 0.0051 lb PE/ton (AP-42, 11.12, 10/01)

Bins to weigh hopper = 400,000 tons/yr max transfer rate
400,000 tons/yr x 0.0051 lb/ton x ton/2000 lbs = 1.02 tons PE/yr

Weigh hopper loading total = 1.02 tons PE/yr

e. Truck Loading of Aggregate, Sand, Cement and Cement Supplement Emission Limitation: PE shall not exceed 7.35 ton/yr.

Emission factor = 0.21 lb PE/ton (AP-42, 11.12, 10/01)

Weigh hopper to truck = 70,000 tons/yr max transfer rate

70,000 tons/yr x 0.21 lb/ton x ton/2000 lbs = 7.35 tons PE/yr

Truck loading total = 7.35 tons PE/yr

f. Emission Limitation:

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

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 9 set forth in AAppendix on Test methods@ in 40 CFR, Part 60 (AStandards of Performance for New Stationary Sources@), as such appendix existed on July 1, 1997.

g. Emission Limitation:

There shall be no visible particulate emissions from the fabric filters serving this emissions unit.

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 AAppendix on Test methods@ in 40 CFR, Part 60 (AStandards of Performance for New Stationary Sources@), as such appendix existed on July 1, 1997.

g) Miscellaneous Requirements

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

(2) For permittees who qualify as a portable source as defined in OAC rule 3745-31-01, the permittee is subject to the following terms and conditions:

Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable source may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable source shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:

a. The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):

i. the portable source is equipped with the best available technology for such portable source;

ii. the portable source is operating pursuant to a currently effective permit to operate (PTO) or registration status;

iii. the applicant has provided proper notice of intent to relocate the portable source to the permitting Ohio EPA District Office or local air agency, and

the appropriate field office having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and

iv. in permitting Ohio EPA District Office or local air agency, and the appropriate field office's (having jurisdiction over the new site) judgment, the proposed site is acceptable under OAC rule 3745-15-07.

b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable source may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:

i. the portable source permittee possesses an Ohio EPA PTI, PTO or registration status;

ii. the portable source is equipped with best available technology;

iii. the portable source owner has identified the proposed site to Ohio EPA;

iv. Ohio EPA has determined that the portable source, at the proposed site, will have an acceptable environmental impact;

v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;

vi. the owner of the proposed site has provided the portable source owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable source to this proposed site; and

vii. the portable source owner has provided Ohio EPA with 15 days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the permitting Ohio EPA District Office or local air agency, and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable source must file a " Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the source with permitting Ohio EPA District Office or local air agency, and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, permitting Ohio EPA District Office or local air agency, and appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the source may result in fines and civil penalties.

(3) Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.