

Facility ID: 0812100418 Issuance type: Final State Permit To Operate

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In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0812100418 Emissions Unit ID: P901 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Truck Mix Concrete Batch Plant: Transfer of Sand and Aggregate to Elevated Bins	OAC rule 3745-17-07(B) OAC rule 3745-17-08(B)	The visible particulate emissions of fugitive dust shall not exceed 20% 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.
Portland Cement, Fly Ash and Slag Silos	OAC rule 3745-17-07(A) OAC rule 3745-17-11(B)	See A.2.a below. The visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule. 15.12 lbs PE/hr (based on Figure II of OAC rule 3745-17-11)
Weigh Hopper Loading of Cement, Fly Ash, Slag, and possibly Sand and Aggregate	OAC rule 3745-17-07(B) OAC rule 3745-17-08(B)	The visible particulate emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average. Each 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 are no visible particulate emissions from the exhaust stack(s), whichever is less stringent.
Truck Loading of Aggregate, Sand, Cement and Cement Supplement	OAC rule 3745-17-07(B) OAC rule 3745-17-08(B)	See A.2.a and A.2.b below. The visible particulate emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average. Each fabric filter serving the truck loading 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 are no visible particulate emissions from the exhaust stack(s), whichever is less stringent.

2. Additional Terms and Conditions

- (a) This emissions unit is located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is subject to the RACM requirements established in OAC rule 3745-17-08(B) and the

See A.2.a and A.2.c below.

visible emission limitations specified in OAC rule 3745-17-07(B).

The permittee shall employ the following reasonably available control measures (RACM) 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.

The permittee shall employ the following reasonably available control measures (RACM) 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.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. 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.

2. 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.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which note the following:
- a. identify all days during which any abnormal visible fugitive particulate emissions were observed from each sand and/or aggregate transfer point and truck loading serving this emissions unit;
- b. describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions;
- c. identify all days during which any visible particulate emissions were observed from any fabric filter serving this emissions unit; and
- d. describe any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31, April 30, July 31, and October 31 of each year.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

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).

Portland Cement, Fly Ash and Slag Silos Emission Limitation: PE shall not exceed 15.12 lb/hr.

Cement unloading uncontrolled emission factor = 0.72 lb PE/ton (AP-42, 11.12-2, 6/06)

105 tons per hour maximum unloading rate
105 TPH x 0.72 lb/ton = 75.6 lb/hr uncontrolled
75.6 lb/hr x (1-0.99) = 0.756 lb/hr controlled

Emission Limitation:

Visible particulate emissions of fugitive dust shall not exceed 20 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 "Appendix on Test methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1997.

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

Emission Limitation:

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

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

F. Miscellaneous Requirements

1. None