

Facility ID: 0121010225 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: 0121010225 Emissions Unit ID: F004 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>
Concrete batching	OAC rule 3745-31-05, and see F.1.	1.20 tons/yr of particulate from the equipment identified below.
Cement and fly ash silos	OAC rule 3745-31-05, and see F.1.	Cement shall be transferred pneumatically to storage. The pneumatic system shall be adequately enclosed so as to eliminate at all times visible emissions of fugitive dust. Any visible emissions of cement emanations from the delivery vehicle shall be cause for the immediate halt of the unloading process and the refusal of the cement load until the situation is corrected.  The cement and fly ash silo vents shall be adequately 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 fabric filter shall achieve an outlet emission rate of not greater than 0.040 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent.
Weigh hopper loading of cement, sand and aggregate	OAC rule 3745-31-05, and see F.1.	The weigh hopper shall be adequately enclosed and vented to a fabric filter. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the point of capture.  The aggregate and sand to be loaded into the weigh hopper shall have a moisture content sufficient so as to minimize or eliminate at all times visible emissions of fugitive dust.
Loading of transit-mix truck	OAC rule 3745-31-05, and see F.1.	The visible particulate emissions of fugitive dust shall not exceed 5 percent opacity as a 6-minute average.  A charging boot shall be used around the hopper choke-feed discharge area and 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.
	OAC rule 3745-17-11	Less stringent than above limits.

2. **Additional Terms and Conditions**
  - (a) None

**B. Operational Restrictions**

1. The maximum production rate for this emissions unit shall not exceed 75,000 cubic yards as a rolling, 12-month summation.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall maintain monthly records of the following information:
    - a. The production rate (amounts of sand, stone, cement, and fly ash processed) for each month, in cubic yards.
    - b. The rolling, 12-month summation of monthly production rates.
  2. The permittee shall perform daily checks while the equipment is in operation for any visible particulate emissions from the fabric filter control systems. The presence or absence of any visible emissions from the fabric filter control systems shall be noted in an operations log. If any visible emissions are observed from either system, corrective actions shall be taken to eliminate the visible emissions and these actions shall be noted in the operations log.
- D. Reporting Requirements**
1. The permittee shall submit deviation (excursion) reports to Ohio EPA, Central District Office, which identify any exceedance of the rolling, 12-month production rate limitation in Section B.1. Such reports shall be submitted within 45 days of the exceedance and shall include copies of the monthly records showing the violation.
  2. The permittee shall submit on a semi-annual basis a report which (a) identifies all days during which any visible particulate emissions were observed from the fabric filter control systems and (b) describes the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year to the Director (the appropriate Ohio EPA District Office or local air agency).
- E. Testing Requirements**
1. Compliance Methods
 

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 -  
0.040 gr/dscf from fabric filter outlet

Applicable Compliance Method -  
If required, compliance with this mass particulate emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(7), using the methods and procedures specified in US EPA Method 5 (40 CFR Part 60, Appendix A).

Emission limitation -  
No visible emissions

Applicable Compliance Method  
Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(4) using the methods and procedures specified in US EPA Method 22 (40 CFR Part 60, Appendix A).

Emission limitation -  
5 percent opacity as a 6-minute average

Applicable Compliance Method -  
Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in US EPA Method 9 (40 CFR Part 60, Appendix A).

Emission limitation -  
1.20 tons PM/yr

Applicable Compliance Method -  
If required, compliance shall be determined by totalling the products of the following equations:

    - i. Cement and fly ash unloading to elevated silos (pneumatic):
 

The actual cement and fly ash loading rate in tons/year is multiplied by the emission factor 0.27 lb/ton (AP-42, Fifth Ed., Section 11.12). The resulting uncontrolled emissions rate in lbs/year is then multiplied by a fabric filter control factor of 89% (1.00-0.89).
    - ii. Weigh hopper loading:
 

The actual, 12-month production rate in cu. yards/yr is multiplied by the emission factor 0.04 lb/cu. yard (AP-42, Fifth Ed., Section 11.12). The resulting uncontrolled emissions rate in lbs/year is then multiplied by a fabric filter control factor of 90% (1.0-0.9).
    - iii. Mixer loading (transit mix):
 

The actual production rate in cu. yards/yr is multiplied by the emission factor 0.04 lb/cu. yard (AP-42, Fifth Ed., Section 11.12). The resulting uncontrolled emissions rate in lbs/year is then multiplied by a choke feed control factor of 50% (1.0-0.5).

By substituting the maximum, 12-month cement and fly ash loading rate of 19,750 tons/year into Section E.1.d.i, and the maximum, 12-month production rate of 75,000 cu. yards/year into Sections E.1.d.ii and E.1.d.iii, respectively, the 1.20 tons PM/yr emission limit was developed for permit to install 01-6411 by totalling the products of the above equations.
- F. Miscellaneous Requirements**
1. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install 01-6411, as issued on October 17, 1996: Sections A, B, C, D, E, and F.