Facility ID: 0857040861 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

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
transfer of sand and aggregate to elevated bins	OAC rule 3745-17-07(B)(1)	The visible emissions of fugitive dust shall not exceed 20 percent opacity, as a 3-minute average, except as specified by rule.
	OAC rule 3745-17-08(B)	Reasonably available control measures to minimize or eliminate visible particulate emissions of fugitive dust shall be employed. See A.2.a.
cement unloading and silo vents w/ fabric filter	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the fabric filter exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-08(B)	Reasonably available control measures to minimize or eliminate visible particulate emissions of fugitive dust shall be employed. See A.2.b.
	OAC rule 3745-17-11(B)(1)	The particulate emissions from the fabric filter exhaust shall not exceed 23.45 lbs/hr.
weigh hopper loading	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.
	OAC rule 3745-17-08(B)	Reasonable available control measures to minimize or eliminate visible particulate emissions of fugitive dust shall be employed. See A.2.c.
loading of transit mix trucks	OAC rule 3745-17-07(B)(1)	Visible particulate emssions of fugitive dust shall not exceed 20 percent opacity, as three-minute average, except as specified by rule.
	OAC rule 3745-17-08(B)	Reasonably available control measures to minimize or eliminate visible particulate emissions of fugitive dust shall be employed. See A.2.d.

2. **Additional Terms and Conditions**

   (a) The drop height of the front-end bucket shall be minimized to the extent possible in order to minimize or eliminate visible particulate emissions of fugitive dust from the conveyor area. The sand and gravel loaded into the elevated bins shall have a moisture content sufficient to minimize or eliminate visible particulate emissions of fugitive dust from the conveyor and transfer points to bins.
   The silo vent shall be adequately enclosed and vented to the fabric filter. The enclosure shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point of capture. The fabric filter shall achieve an outlet emission rate of not greater than 0.030 gr/dscf of exhaust gases or there shall be no visible emisisons from the outlet, whichever is less stringent.
   The weigh hopper shall be adequately enclosed and vented to the cement silo fabric filter. The enclosure shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point of capture.
   The charging boot shall be used around the hopper discharge area and the transit-mix opening. The charging boot shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point of capture. Truck loading shall continue to be performed utilizing the three-sided enclosed loading area.

B. **Operational Restrictions**

1. None

C. **Monitoring and/or Record Keeping Requirements**

1. 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 the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

   i. the location and color of the emissions;

   whether the emissions are representative of normal operations;

   iii. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

   iv. the total duration of any visible emission incident; and

   v. any corrective actions taken to minimize or eliminate the abnormal visible emissions.

   If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (iv) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

D. **Reporting Requirements**

1. The permittee shall submit annual reports of the total operating hours for this emissions unit. These reports shall be submitted by January 31 of each year to the Director (the appropriate EPA District Office or local air agency).

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the fabric filter control systems serving this emissions unit and (b) describes any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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 -
   23.45 lbs/hour particulates

   Applicable Compliance Method -
   Compliance may be determined by multiplying the maximum hourly production rate of 13.5 tons/hour from the cement unloading to the elevated storage silo (pneumatic) by the AP-42 Chapter 11.12-2 (10/86) emission factor, 0.27 lb/ton. This uncontrolled emission rate of 3.64 lbs/hour is then multiplied by the fabric filter control efficiency of 99% (1 - 0.99) to give a controlled emission rate of 0.04 lb/hour.

   If required, emission tests shall be performed in accordance with USEPA Methods 1-5.
   Emission Limitation -
   20% opacity as a 3-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 USEPA Reference Method 9.
   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 USEPA Reference Method 22.
   Emission Limitation -
   0.030 gr/dscf

   Applicable Compliance Method -
   If required, emission tests shall be performed in accordance with USEPA Methods 1-5.

F. **Miscellaneous Requirements**

1. None