Facility ID: 0857101988 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
200 cubic yard/hr Portable Concrete Batch Plant (truck mix)	OAC rule 3745-31-05(A)(3) PTI 08-1886	14.86 lbs/hr and 6.0 tons/yr of particulate from the equipment below.
Transfer of sand and aggregate to elevated bins	OAC rule 3745-31-05(A)(3) PTI 08-1886	The drop height of the front-end bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the conveyor loading area. The sand and aggregate loaded into the elevated bins shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the conveyor and transfer point to bins. The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average. See Term A.2.b.
	OAC rule 3745-17-07(B)(1)	Reasonable Available Control Measures, (RACM). See Term A.2.b.
	OAC rule 3745-17-08(B)	
Cement Silo w/fabric filter	OAC rule 3745-31-05(A)(3) PTI 08-1886	The silo shall be adequately enclosed and vented to a fabric filter. The 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 or there are no visible emissions from the outlet, whichever is less stringent.
	OAC rule 3745-17-11(B)	The emission limit specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). The opacity limit specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	
Weigh hopper loading of cement, sand and aggregate w/fabric filter	OAC rule 3745-31-05(A)(3) PTI 08-1886	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 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 or there are no visible emissions from the outlet, whichever is less stringent. The emission limit specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The opacity limit specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average. See Term A.2.b.
	OAC rule 3745-17-07(B)(1)	Reasonable Available Control Measures, (RACM). See Term A.2.b.
	OAC rule 3745-17-08(B)	
Truck mix loading w/fabric filter	OAC rule 3745-31-05(A)(3) PTI 08-1886	A charging boot shall be used around the hopper 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. The 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 or there are no visible emissions from the outlet, whichever is less stringent. The emission limit specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The opacity limit specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average. See Term A.2.b.
	OAC rule 3745-17-07(B)(1)	Reasonable Available Control Measures, (RACM). See Term A.2.b.
	OAC rule 3745-17-08(B)	

2. **Additional Terms and Conditions**

   (a) The 14.86 lbs/hr, limitation was established for PTI purposes to reflect the potential to emit for this emission unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
   This rule is applicable only when the emission unit is located in an Appendix A area, as specified in OAC rule 3745-17-08.

B. **Operational Restrictions**

1. The maximum annual production rate for this emissions unit shall not exceed 161,508 cubic yard of concrete.

2. Water shall be applied at all points to ensure compliance with the visible emission limitations.

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 particulate emissions from the stack and 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 emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

   a. the location and color of the emissions;
   b. whether the emissions are representative of normal operations;
   c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
   d. the total duration of any visible emission incident; and
   e. any corrective actions taken to minimize or eliminate the 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 (d) 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.

2. The permitee shall maintain monthly records of the concrete production rate in cubic yards.

D. **Reporting Requirements**

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit, (b) identify all days during which any visible fugitive particulate emissions were observed from the from the egress points (i.e., building windows, doors, roof monitors, etc.) in excess of the allowable opacity limit specified above serving this emissions unit, and (c) describe any corrective actions taken to minimize or eliminate the visible particulate and/or 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.

2. The permittee shall submit annual reports which specify the total concrete produced in cubic yards. These reports shall be submitted to the Director (the appropriate OEPA District Office or local air agency) by January 31 of each year .

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-
   0.030 gr/dscf

   Applicable Compliance Method-
   If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(7).
   Emission limitation-
   14.86 lbs/hr of particulate

   Applicable Compliance Method-
   Compliance shall be determined by totalling the following operations:

   i. Sand and aggregate transfer to elevated bin:

   The maximum process rate of 200 cubic yards of concrete multiplied by 0.0015 lb particulate/cubic yard of concrete for sand transfer and 0.0064 lb particulate/cubic yard of concrete for aggregate transfer (AP-42,Chapter 11, Table 11.12-3 (10/01) for an uncontrolled emission rate of 1.58 lbs/hr.

   ii. Cement unloading to elevated storage silo (pneumatic):

   The maximum hourly production rate of 200 cu.yds/hr, is multiplied by the emission factor, 0.0002 lb PM/cubic yard (AP-42, Chapter 11, Table 11.12-3 10/01) for a controlled emission rate of 0.04 lb/hr.

   iii. Cement supplement delivery to Silo:
   The maximum hourly production rate of 200 cu.yds/hr, is multiplied by the emission factor, 0.0003 lb PM/cubic yard (AP-42, Chapter 11, Table 11.12-3 10/01) for a controlled emission rate of 0.06 lb/hr.

   iv. Weigh hopper loading:

   The maximum hourly production rate of 200 cu.yds/hr, is multiplied by the emission factor, 0.0079 lb PM/cubic yard (AP-42, Chapter 11, Table 11.12-3 10/01) for an uncontrolled emission rate of 1.58 lbs/hr.

   v. Truck mix loading:

   The maximum hourly production rate of 200 cu.yds/hr, is multiplied by the emission factor, 0.058 lb PM/cubic yard (AP-42, Chapter 11, Table 11.12-3 10/01) for a controlled emission rate of 11.6 lbs/hr.
   Emission limitation-
   6.0 tons/yr of particulate

   Applicable Compliance Method-
   Compliance with the annual emission limitation shall be based upon the record keeping in Section C.2., summing the monthly concrete production rates for the calendar year times the total facility emission factor of 0.0743 lb PM/cubic yard divided by 2000.
   Emission Limitation-

20 percent opacity as a 3-minute average

Applicable Compliance Method-
Compliance shall be determined by visible emission evaluations preformed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Method 9.
Emission Limitation-
no visible emissions

Applicable Compliance Method-
Compliance shall be determined by visible emission evaluations preformed in accordance with OAC rule 3745-17-03(B)(4) using the methods and procedures specified in USEPA Method 22.

F. **Miscellaneous Requirements**

1. Notice to Relocate a Portable or Mobile Source

Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing the following criteria are met:

a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;

b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);

c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Director (the appropriate Ohio EPA District Office and/or local air agency having jurisdiction over the new site) within a minimum of thirty days prior to the scheduled relocation; and

d. in the Director's (the appropriate Ohio EPA District Office and/or local air agency) judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.
OR

2. Under OAC rule 3745-31-05(F), portable or mobile emission sources may relocate to sites that have been preapproved by the Director. The permittee may relocate the portable or mobile sources listed in this permit if:

a. the permittee has applied for and obtained a site approval for the new site from the Director;

b. the site approval is current and effective;

c. the permittee has complied with all of the conditions and restrictions contained in the site approval; and

d. the permittee has provided the appropriate Ohio EPA District Office and/or local air agency having jurisdiction over the new site at least 15 days written notice of the relocation.