

Facility ID: 0857041984 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: 0857041984 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>
concrete batch plant #2 - central mix operation	OAC rule 3745-31-05 PTI 08-1852	0.56 lb/hour and 2.0 TPY of particulates
transfer and conveying of sand and aggregate	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)	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 limit based on this rule is less stringent than the limit specified in A.2.b.
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 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.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 point 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 emissions 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 truck 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. The maximum annual operating hours for this emissions unit shall not exceed 7,143 hours.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the operating hours for this emissions unit.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust and for any visible emissions from the stacks 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, the cause of abnormal emissions;
 - c. the total duration of any visible particulate emissions incident; and
 - d. any corrective actions taken to eliminate the visible particulate 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 Ohio EPA District Office or local air agency).
2. The permittee shall submit on a semi-annual basis a report which (a) identifies all days during which any visible emissions of fugitive dust or visible emissions from the fabric filter control systems were observed 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 -
0.56 lb/hour of particulate

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

i. Sand and aggregate transfer to elevated bin: The maximum hourly production rate of 47 tons/hour is multiplied by the AP-42 Chapter 11.12-2 (10/86) emission factor, 0.029 lb/ton. This uncontrolled emission rate of 1.36 lbs/hour is then multiplied by a moisture emission control factor of 70% (1 - 0.70), resulting in a controlled emission rate of 0.41 lb/hour.

ii. Cement unloading to elevated storage silo (pneumatic): The maximum hourly production rate of 50 tons/hour is multiplied by the AP-42 Chapter 11.12-2 (10/86) emission factor, 0.27 lb/ton. This uncontrolled emission rate of 13.5 lbs/hour is then multiplied by the fabric filter control efficiency of 99% (1 - 0.99), resulting in a controlled emissions rate of 0.14 lb/hour.

iii. Weigh hopper loading: The maximum hourly production rate of 47 tons/hour is multiplied by the AP-42 Chapter 11.12-2 (10/86) emission factor, 0.02 lb/ton. This uncontrolled emission rate of 0.94 lb/hour is then multiplied by the fabric filter control efficiency of 99% (1 - 0.99), resulting in a controlled emissions rate of 0.01 lb/hour.

iv. Mixer loading (central mix): The maximum hourly production rate of 10 tons/hour is multiplied by the AP-42 Chapter 11.12-2 (10/86) emission factor, 0.04 lb/ton. This uncontrolled emission rate of 1.88 lbs/hour is then multiplied by the fabric filter control efficiency of 99% (1 - 0.99), resulting in a controlled emissions rate of 0.004 lb/hr.

Emission Limitation -
2.0 TPY particulate emissions

Applicable Compliance Method -
The 2.0 TPY emissions limitation was developed by multiplying the 0.56lb/ hour emissions limitation by a maximum annual operating schedule of 7,143 hours/year. Therefore, compliance shall be based upon the 12-month summation of the number of operating hours times the 0.56lbs/hr emission limitation, divided by 2,000 lbs/ton.

Emission Limitation -
20% opacity as a 3-minute average

Applicable Compliance Method -
Compliance shall be determined by visible emissions 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 -
0.030 gr particulates/dscf of exhaust gases

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-
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 Method 22.

F. **Miscellaneous Requirements**

1. None