

Facility ID: 0855010449 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: 0855010449 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>
P901 - 117 cubic yard/hr Concrete Batch Plant (transit mix truck loading)	OAC rule 3745-31-05(A)(3) PTI 04570	The particulate emissions (PE) from this emissions unit shall not exceed 8.66 lbs/hr and 37.93 tons/yr.
Transfer of sand and aggregate to elevated bins	OAC rule 3745-31-05(A)(3) PTI 04570	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average. 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.
Cement Silos vented to fabric filter	OAC rule 3745-31-05(A)(3) PTI 04570	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 opacity limitation established pursuant to OAC rule 3745-31-05(A)(3).
Weigh hopper loading of cement vented to fabric filter	OAC rule 3745-17-07(A)(1) OAC rule 3745-31-05(A)(3) PTI 04570	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average. The weigh hopper shall be adequately enclosed and vented to a fabric filter; the enclosure shall be sufficient to minimize or 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 opacity limitation established pursuant to OAC rule 3745-31-05(A)(3).

Weigh hopper loading of aggregate
OAC rule 3745-17-07(A)(1)
OAC rule 3745-31-05(A)(3)
PTI 04570

The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.

The weigh hopper shall be adequately enclosed ; the enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust.

Transit mix truck loading enclosed, rubber telescopic boot and water ring
OAC rule 3745-31-05(A)(3)
PTI 04570

The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.

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.

2. Additional Terms and Conditions

- (b) The 8.66 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.

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 particulate emissions from the stack and for any visible fugitive particulate emissions from transfer of sand and aggregate to elevated bins, weigh hopper loading of aggregate and transit mix truck loading 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 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 (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 permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

D. Reporting Requirements

- 1. The permittee shall submit quarterly deviation (excursion) reports that (a) identify all days during which any visible particulate emissions were observed in excess of the allowable opacity limit specified above from the stack serving this emissions unit, (b) identify all days during which any visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the transfer of sand and aggregate to elevated bins, weigh hopper loading of aggregate and transit mix truck loading serving this emissions unit, and (c) describe any corrective actions taken to minimize the abnormal visible particulate and/or visible fugitive particulate emissions.

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-

particulate emissions shall not exceed 0.03 grain per dry standard cubic foot 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-

8.66 lbs/hr of particulate emissions

Applicable Compliance Method-

Compliance shall be determined by totaling the following operations:

i. Sand and aggregate transfer to elevated bin:

The maximum process rate of 117 cubic yards/hr 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 0.92 lb/hr.

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

The maximum hourly production rate of 117 cubic yards/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 0.02 lb/hr.

iii. Weigh hopper loading:

The maximum hourly production rate of 117 cubic yards/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 0.92 lb/hr.

iv. Transit mix truck loading:

The maximum hourly production rate of 117 cubic yards/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 6.79 lbs/hr.

Emission limitation-

37.93 tons/yr of particulate emissions

Applicable Compliance Method-

The annual emission rate for the Concrete Batch Plant (transit mix truck loading) was developed by multiplying the maximum hourly emissions rate of 8.66 lbs/hr by the maximum operating schedule of 8760 hrs/yr (potential to emit), and divided by 2,000 lbs/ton.

Emission Limitation-

20 percent opacity as a 3-minute average, from fugitives

Applicable Compliance Method-

Compliance shall be demonstrated through visible emissions observations in accordance with OAC rule 3745-17-03(B)(3).

Emissions Limitation-

no visible emissions from the stack

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