

Facility ID: 0868090193 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: 0868090193 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 - 120 Cubic Yard per Hour Ready Mix Concrete Batch Plant	OAC rule 3745-31-05(A)(3) PTI 08-04596	The particulate emissions from this emissions unit shall not exceed 8.9 lbs/hr and 19.41 tons per year (TPY).
Transfer of sand, fly ash and aggregate to elevated bins	OAC rule 3745-31-05(A)(3)	The drop height of the front-end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the conveyor loading area.
Cement and fly ash delivery to silo (pneumatic)	OAC rule 3745-17-07(B)	The visible fugitive PE shall not exceed 20 percent opacity as a 3-minute average.
	OAC rule 3745-17-08	See Section A.2.b.
	OAC rule 3745-31-05(A)(3)	See Section A.2.b. The silos shall be adequately enclosed and vented to a bin vent filter; the enclosure shall be sufficient to eliminate visible emissions of fugitive dust.
Transit-mix truck loading	OAC rule 3745-17-07(B)	The bin vent filter shall achieve an outlet emission rate of not greater than 0.020 grain of PE per dry standard cubic foot of exhaust gases, combined, or there shall be no visible emissions from the outlet, whichever is less stringent.
	OAC rule 3745-17-08	The visible fugitive PE shall not exceed 20 percent opacity as a 3-minute average.
	OAC rule 3745-31-05(A)(3)	See section A.2.b. See Section A.2.b. The water spray ring shall be used to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from mix truck loading
	OAC rule 3745-17-07(B)	The visible PE shall not exceed 20 percent opacity as a 3-minute average.
	OAC rule 3745-17-08	See Section A.2.b. See Section A.2.b.

2. Additional Terms and Conditions

- (a) The 8.9 lbs/hr limitation was established for PTI purposes to reflect the potential to emit for the emission unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
The emissions unit is not located in an Appendix A area as specified in OAC rule 3745-17-08. Therefore this emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emissions limitations in OAC rule 3745-17-07(B).

B. Operational Restrictions

1. The water spray ring shall be used at all times during transit-mix truck loading.
- 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 this emissions unit. The presence or absence of any visible emissions from this emissions unit shall be noted in an operations log. If visible emissions from this emissions unit are observed, the permittee shall also note the following in the operations log:
 - a. The 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 eliminate the visible emissions.
 2. The permittee shall maintain records of the following information for this emissions unit:
 - a. the annual concrete production rate, in cubic yards;
 - b. the annual particulate emission rate, in tons (as calculated in Section E.1.b.);
- D. Reporting Requirements**
1. The permittee shall submit deviation (excursion) reports that identify any of the following occurrences:
 - a. Each day during which an inspection was not performed by the required frequency; and
 - b. Each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
 - c. all periods of time when concrete was loaded to mix trucks without the use of the water spray ring.

The deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
 2. The permittee shall submit annual reports to the Director (the appropriate Ohio EPA District Office or local air agency) for this emissions unit that specify:
 - a. The total annual concrete production, in cubic yards.
 - b. The total particulate emissions, in tons.

These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
- E. Testing Requirements**
1. Compliance with the specified emission limitations in Section A.1. of this permit shall be demonstrated in accordance with the following methods:
Emission Limitation -
8.9 lbs/hr particulate emissions

Applicable Compliance Method -
Compliance shall be determined by totaling the following products:
 - i. Sand and aggregate transfer to elevated bins:

The maximum process rate of 120 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 0.95 lb/hr.
 - ii. Cement and fly ash unloading to elevated silo (pneumatic):

The maximum process rate of 25 tons of cement unloaded per hour multiplied by multiplied by the emission factor, 0.0003 lb particulate/cubic yard of concrete for cement delivery to the silo (AP-42, Chapter 11, Table 11.12-2 (10/01)) for a controlled emission rate of 0.0075 lb/hr.
 - iii. Weigh hopper loading:

The maximum process rate of 120 cubic yards of concrete multiplied by the emission factor, 0.0079 lb particulate/cubic yard of concrete for weigh hopper loading (AP-42, Chapter 11, Table 11.12-3 (10/01)) for an uncontrolled emission rate of 0.95 lb/hr.
 - iv. Transit-mix truck loading:

The maximum hourly production rate 120 cubic yards/hr multiplied by the emission factor, 0.058 lb particulate/cubic yard of concrete for transit-mix truck loading (AP-42, Chapter 11, Table 11.12-3 (10/01)) for a controlled emission rate of 7.0 lbs/hr.

Emission Limitation -
19.41 TPY particulate emissions

Applicable Compliance Method -
The 19.41 TPY particulate emissions limitation was developed by multiplying the maximum annual production rate, 525,600 cubic yards of concrete per year by the by the emission factor of 0.0742 lb PE/cubic yard of concrete. Therefore, compliance shall be

based upon the record keeping requirements specified in Section C.2.a. of this permit, multiplied by the emission factor of 0.0742 lb PE/cubic yard of concrete, divided by 2000 lbs/ton.

Emission Limitation -

Visible fugitive PE emissions shall not exceed 20 percent 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

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 22.

F. **Miscellaneous Requirements**

1. None