

Facility ID: 1409000584 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: 1409000584 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>
All	PTI 14-928	5.85 LBS PM/HR; 6.33 TPY PM
Weigh hopper loading of cement, sand and aggregate	OAC 3745-17-07(A)(1)	Stack emissions from the discharge vent of the fabric filter shall not exceed 20% as a 6-minute average.
-	3745-17-07(B)(1)	Fugitive dust emissions from the conveyor leaving the weigh hopper shall not exceed 20% opacity as a 3-minute average.
-	OAC 3745-17-08(B)(3)	See T&C 2.2.a.
Cement silo loading and vent	OAC 3745-17-07(A)(1)	Stack emissions from the discharge vent of the fabric filter shall not exceed 20% as a 6-minute average.
-	3745-17-07(B)(1)	Fugitive dust emissions from the conveyor leaving the cement silo shall not exceed 20% opacity as a 3-minute average.
-	OAC 3745-17-08(B)(3)	See T&C 2.2.b.
Loading of transit mix trucks	OAC 3745-17-07(A)(1)	Stack emissions from the discharge vent of the fabric filter shall not exceed 20% as a 6-minute average.
-	3745-17-07(B)(1)	Fugitive dust emissions from the transit truck loading area shall not exceed 20% opacity as a 3-minute average.
-	OAC 3745-17-08(B)(3)	See T&C 2.2.c.

2. Additional Terms and Conditions

- (a) The weigh hopper shall be adequately enclosed and vented to the fabric filter. The enclosure shall be sufficient so as to eliminate at all times visible emissions of fugitive dust at the point of capture. The fabric filter shall achieve an outlet emissions rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent.
 The cement silo shall be adequately enclosed and vented to a fabric filter. The cement silo vent enclosure shall be sufficient so as to minimize at all times visible emissions of fugitive dust at the points of capture. The fabric filter shall achieve an outlet emissions rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is greater.
 The area used for the loading of transit mix trucks shall be adequately enclosed and vented to a fabric filter. The enclosure shall be sufficient so as to minimize at all times visible emissions of fugitive dust at the points of capture. The fabric filter shall achieve an outlet emissions rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent.

B. Operational Restrictions

1. The concrete batch plant shall not process more than 70,000 tons/yr of cement.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the tons of cement produced for this emissions unit.

D. Reporting Requirements

1. The permittee shall submit annual reports to the Director (district office or local air agency) which identify any exceedance of the production limitations identified in T&C section B.1, as well as any corrective actions that were taken to achieve compliance. These reports shall be submitted by February 15 of each year.

E. Testing Requirements

1. Compliance with the 5.85 LBS PM/HR emission limit in Section A.1 of these terms and conditions shall be the sum of a, b, and c below:
 - a. Weigh hopper emissions - multiply the emission factor of 0.02 pound of PM per ton of material processed (from AP-42 table 11.12-2 for weigh hopper) by the tons of material processed through the weigh hopper per hour and by 0.01 (reflecting the overall control efficiency) = LBS PM/HR.
 - b. Cement silo emissions - multiply the emission factor of 0.27 pound of PM per ton of material processed (from AP-42 table 11.12-2 for cement silo) by the tons of material processed through the cement silo per hour and by 0.01 (reflecting the overall control efficiency) = LBS PM/HR.
 - c. Transit truck mix emissions - multiply the emission factor of 0.02 pound of PM per ton of material processed (from AP-42 table 11.12-2 for transit truck mix) by the tons of material processed in the transit truck mix area per hour and by 0.208 (reflecting the overall control efficiency) = LBS PM/HR.
2. Compliance with the 6.33 TPY PM emission limit in Section A.1 of these terms and conditions shall be the sum of a, b, and c below:
 - a. Weigh hopper emissions - multiply the emission factor of 0.02 pound of PM per ton of material processed (from AP-42 table 11.12-2 for weigh hopper) by the tons of material processed through the weigh hopper per year and by 0.01 (reflecting the overall control efficiency) and divide by 2000 = TPY PM.
 - b. Cement silo emissions - multiply the emission factor of 0.27 pound of PM per ton of material processed (from AP-42 table 11.12-2 for cement silo) by the tons of material processed through the cement silo per year and by 0.01 (reflecting the overall control efficiency) and divide by 2000 = TPY PM.
 - c. Transit truck mix emissions - multiply the emission factor of 0.02 pound of PM per ton of material processed (from AP-42 table 11.12-2 for transit truck mix) by the tons of material processed in the transit truck mix area per year and by 0.208 (reflecting the overall control efficiency) and divide by 2000 = TPY PM.
3. Compliance with the visible emission limitations of Section A.1 of these terms and conditions shall be demonstrated by the following methods:
 - a. Compliance with OAC rule 3745-17-07(A)(1) shall be determined in accordance with OAC rule 3745-17-03(B)(1).
 - b. Compliance with OAC rule 3745-17-07(B)(1) shall be determined in accordance with OAC rule 3745-17-03(B)(3).
4. Compliance with the 0.03 grain per dry cubic foot (g/dcf) of exhaust gases shall be based on a stack test performed in accordance with OAC rule 3745-17-03(B)(8). The stack test shall result in a lbs pm/hr emission rate. The LBS PM/HR emission rate shall be converted to g/dcf by the following equation:
 - a. $\text{Lbs pm/hr from stack test} / \text{cubic feet per minute (cfm) of the baghouse exhaust} / 60 \text{ minutes per hour} \times 7000 \text{ grains per pound} = \text{g/dscf}$.
5. Compliance with the operational restriction in T&C section B.1 shall be demonstrated by the recordkeeping requirement contained in T&C section C.1.

F. Miscellaneous Requirements

None