

Facility ID: 0829710595 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: 0829710595 Emissions Unit ID: P901 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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>
ready mix concrete batch plant	OAC rule 3745-31-05(A)(3) PTI #08-04143	10.65 lbs/hr and 15.98 tons/yr of particulates from the equipment identified below.
transfer of sand and aggregate to elevated bins	OAC rule 3745-31-05(A)(3) PTI #08-04143	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.
sand and aggregate weigh hopper loading	OAC rule 3745-31-05(A)(3) PTI #08-04143	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.
cement silo loading	OAC rule 3745-31-05(A)(3) PTI #08-04143	The silo shall be adequately enclosed and vented to a fabric filter; the enclosure shall be sufficient to eliminate visible emissions of fugitive dust. The fabric filter shall achieve an outlet emission rate of not greater than 0.020 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 emission limit specified in this rule is less stringent than the particulate limit established as BAT under 3745-31-05.
cement weigh hopper loading	OAC rule 3745-17-11(B) OAC rule 3745-31-05(A)(3) PTI #08-04143	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.
sand, aggregate and cement loading into concrete trucks	OAC rule 3745-31-05(A)(3) PTI #08-04143	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average. The hopper discharge area and transit-mix truck opening shall be enclosed and vented to a fabric filter; the enclosure shall be sufficient to minimize or

eliminate visible emissions of fugitive dust to the extent possible with good engineering design.

The fabric filter shall achieve an outlet emission rate of not greater than 0.020 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 emission limit specified in this rule is less stringent than the particulate limit established as BAT under 3745-31-05.

OAC rule 3745-17-11(B)

2. **Additional Terms and Conditions**

- (b) The 10.65 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. The maximum annual operating hours for this emissions unit shall not exceed 3000 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 while the equipment is in operation for any visible particulate emissions from the fabric filter control systems. The presence or absence of any visible emissions from the fabric filter control systems shall be noted in an operations log. If any visible emissions are observed from either system, corrective actions shall be taken to eliminate the visible emissions and these actions shall also be noted in the operations log.

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 (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 particulate emissions were observed from the fabric filter control systems 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 (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-
0.020 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-
10.65 lbs/hr of particulate

Applicable Compliance Method-

Compliance shall be determined by totaling the following products:

- i. sand and aggregate transfer to elevated bins storage bins:

The maximum hourly production rate of 360 tons/hr is multiplied by the AP-42 emission factor, 0.029 lb/ton. The resulting uncontrolled emission rate, 10.44 lbs/hr, is then multiplied by a moisture emission control factor of 70% (1 - .70), resulting in a controlled emission rate of 3.13 lbs/hr.

- ii. sand and aggregate weigh hopper loading:

The maximum hourly production rate of 360 tons/hr is multiplied by the AP-42 emission factor, 0.02 lb/ton. The resulting uncontrolled emission rate, 7.2 lbs/hr, is then multiplied by a partial enclosure emission factor of 70% (1 - .70), resulting in a controlled emission rate of 2.16 lbs/hr.

- iii. cement silo loading (pneumatic):

The maximum hourly production rate of 360 tons/hr is multiplied by the AP-42 emission factor, 0.27 lb/ton. The resulting uncontrolled emission rate, 97.2 lbs/hr, is then multiplied by a fabric filter control factor of 99% (1 - .95), resulting in a controlled emission rate of 4.86 lbs/hr.

- iv. cement weigh hopper loading:

The maximum hourly production rate of 65 tons/hr is multiplied by the AP-42 emission factor, 0.02 lb/ton. The resulting uncontrolled emission rate, 1.3 lbs/hr, is then multiplied by a fabric filter control factor of 95% (1 - .95), resulting in a controlled emission rate of 0.07 lb/hr.

v. sand, aggregate and cement loading into concrete trucks (transit mix):

The maximum hourly production rate of 425 tons/hr, is multiplied by the AP-42 emission factor, 0.02 lb/ton. The resulting uncontrolled emission rate, 8.5 lbs/

Emission limitation-
15.98 tons/yr of particulate

Applicable Compliance Method-

The 15.98 tons/yr emission limitation was developed by multiplying the 10.65 lbs/hr emission limitation by a maximum annual operating schedule of 3,000 hrs/yr. Therefore, compliance shall be based upon the 12-month maximum summation of the number of operating hours times the 10.65 lbs/hr emission limitation, divided by 2,000 lbs/ton.

Emission Limitation-
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 Method 9.

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