

Facility ID: 0829710357 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: 0829710357 Emissions Unit ID: P001 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>
P001 - Portable concrete batch plant; Xenia plant 142	OAC rule 3745-31-05(A)(3) PTI 08-04391	1.16 lbs/hr particulate emissions (PE) /hr
	OAC rule 3745-31-05(D)	5.08 TPY PE, as a rolling, 12-month summation
	OAC rule 3745-31-05(A)(3)	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.
	OAC rule 3745-17-07(B)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(B). The visible PE shall not exceed 20 percent opacity as a 3-minute average.
Transfer of sand and aggregate to elevated bins	OAC rule 3745-17-08	See Section A.2.b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-05(A)(3)	See Section A.2.b. The silo shall be adequately enclosed and vented to the dust collector cartridges.
	OAC rule 3745-17-11	The dust collector cartridges 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.
Cement Silo	OAC rule 3745-31-05(A)(3)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	The opacity limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-05(A)(3)	The weigh hopper shall be adequately enclosed; the enclosure shall be sufficient to eliminate visible emissions of fugitive dust as the last point of capture.
Weigh hopper loading of cement, sand and aggregate	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. The emission limitation specified by this rule is less

Loading of transit-mix truck	OAC rule 3745-31-05(A)(3)	<p>stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).</p> <p>The dust collector cartridge shall achieve an outlet emission rate of not greater than 0.020 grain of PE per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent.</p>
	OAC rule 3745-17-11	<p>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.</p> <p>The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>
	OAC rule 3745-17-07(A)	<p>The opacity limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>
	OAC rule 3745-17-07(B)	<p>The visible PE shall not exceed 20 percent opacity as a 3-minute average.</p>
	OAC rule 3745-17-08	<p>See Section A.2.b.</p> <p>The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>

2. Additional Terms and Conditions

- (a) The 1.16 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. OAC rules 3745-17-07(B) and 3745-17-08 are applicable only when the emissions unit is located in an Appendix A area as specified in OAC rule 3745-17-08.

B. Operational Restrictions

- 1. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the following production rates:

Months Maximum, Cumulative Total particulate emissions (PE) in TPY

- 1 - 6 2.54
- 1 - 7 2.96
- 1 - 8 3.39
- 1 - 9 3.81
- 1 - 10 4.23
- 1 - 11 4.65
- 1 - 12 5.08

- 2. The pressure drop across the cartridges shall be maintained at a range of 6 -8 inches of water while the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the cartridges while the emissions units are in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drops across the cartridges on a once per shift basis.
- 2. The permittee shall maintain monthly records of the following information for this emissions units:
 - a. The production rate, in tons;
 - b. The PE rate, in tons (as calculated in Section E.1.b.);
 - c. The rolling, 12-month PE rate summation, in tons (beginning the 13th calendar month after issuance of this permit).
- 3. The permittee shall perform daily checks while the equipment is in operation for any visible PE from the cartridge control systems and for any visible emissions of fugitive dust. The presence or absence of any visible emissions shall be noted in an operations log. If any visible PEs are observed from either system, corrective actions shall be taken to minimize or eliminate the visible PE, and these actions shall also be noted in the operations log.

D. Reporting Requirements

- 1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of:
 - a. All periods of time during which the pressure drop across the cartridges did not comply with the allowable range specified above;
 - b. The rolling, 12-month PE rate limitation; and,
 - c. For the first 12 calendar months of operation following the issuance of this permit, the maximum allowable PE

rate.

2. The permittee shall submit on a semi-annual basis a report which (a) identifies all days during which any visible PE and/or fugitive dust were observed and (b) describes the corrective actions taken to minimize or eliminate the visible emissions. The report 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 with the specified emission limitations in Section A.1. of this permit shall be demonstrated in accordance with the following methods:

- a. Emission Limitation -
1.16 lbs PE/hr

Applicable Compliance Method -

Compliance shall be determined by totaling the following products:

- i. Sand and aggregate transfer to elevated bins:

The maximum hourly process rate of 139.0 tons/hour aggregate and 106.5 tons/hour sand are multiplied by the emissions factor, 0.0069 lb PE/ton and 0.0021 lb PE/ton, respectively (AP-42, Chapter 11, Table 11.12-2 (10/01)). The results are then multiplied by a moisture control factor of 50%, i.e., (1 - 0.50), resulting in a controlled emission rate of 0.592 lb/hr.

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

The maximum hourly process rate of 54 tons/hour is multiplied by the emission factor, 0.72 lb PE/ton (AP-42, Chapter 11, Table 11.12-2 (10/01)). The results are then multiplied by a control factor of 99%, i.e., (1 - 0.99), resulting in a controlled emission rate of 0.388 lb/hr.

- iii. Weigh hopper loading:

The maximum hourly process rate of 300 tons/hour is multiplied by the emission factor, 0.0051 lb PE/ton (AP-42, Chapter 11, Table 11.12-2 (10/01)). The results are then multiplied by a control factor of 99%, i.e., (1 - 0.99), resulting in a controlled emission rate of 0.0153 lb/hr.

- iv. Transit mix truck loading:

The maximum hourly production rate of 27 tons/hour is multiplied by the emission factor, 0.61 lb PE/ton (AP-42, Chapter 11, Table 11.12-2 (10/01)). The results are then multiplied by a control factor of 99%, i.e., (1 - 0.99), resulting in a controlled emission rate of 0.165 lb/hr.

- b. Emission Limitation -
5.08 TPY PE, as a 12-month, rolling summation

Applicable Compliance Method -

The 5.08 TPY emission limitation was developed by multiplying the maximum emission rate, 1.16 lbs PE/hr, by a maximum annual operating schedule of 8760 hours. Therefore, compliance shall be based upon the record keeping requirements specified in Section C.2.a. of this permit, divided by the maximum hourly production rate of 300 TPH and multiplied by the maximum emission rate of 1.16 lbs PE/hr. The results are then divided by 2000 lbs/ton.

The monthly PE rates shall be added to the total PE rates from the previous eleven months to determine the rolling, 12-month summation.

- c. 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. Notice to Relocate a Portable or Mobile Source

- a. Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- i. The portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- ii. The portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- iii. The applicant has provided proper notice of intent to relocate the portable emissions unit to the RAPCA and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- iv. In RAPCA's and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

- b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:
 - i. The portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
 - ii. The portable emissions unit is equipped with best available technology;
 - iii. The portable emission unit owner has identified the proposed site to Ohio EPA;
 - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - v. A public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;