

Facility ID: 0857701901 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

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: 0857701901 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>
portable concrete dry mix batch plant	OAC rule 3745-31-05(A)(3) PTI 08-1224	2.84 lbs/hr and 6.20 tons/yr of particulate emissions (PE) from the equipment below
transfer of sand and aggregate to elevated bins	OAC rule 3745-31-05(A)(3)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(B)(1) and 3745-17-08(B).  The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.
	OAC rule 3745-17-07(B)	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 3745-17-08(B)	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 silo	OAC rule 3745-31-05(A)(3)	The silo shall be adequately enclosed and vented to the 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 0.030 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.
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). (See Section E.1.b for calculation methodology)  The visible particulate emissions shall not exceed 20 percent opacity as a 6-minute average, except as provided by rule.
weigh hopper loading of cement, sand and aggregate	OAC rule 3745-17-07(A) OAC rule 3745-31-05(A)(3)	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.

	OAC rule 3745-17-11	<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). (See Section E.1.b for calculation methodology)</p> <p>The visible PE shall not exceed 20 percent opacity as a 6-minute average, except as provided by rule.</p>
loading of transit-mix truck	<p>OAC rule 3745-17-07(A)</p> <p>OAC rule 3745-31-05(A)(3)</p>	<p>The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(B)(1).</p> <p>The fabric filter shall achieve an outlet emission rate of not greater than 0.030 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> <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 visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.</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). (See Section E.1.b for calculation methodology)</p>
	OAC rule 3745-17-07(B)	<p>The emission limitation specified by this rule is equal to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). (See Section E.1.b for calculation methodology)</p>
	OAC rule 3745-17-11	<p>The visible PE shall not exceed 20 percent opacity as a 6-minute average, except as provided by rule.</p>
	OAC rule 3745-17-08	
	OAC rule 3745-17-07(A)	
<b>2. Additional Terms and Conditions</b>		
(a)		The 2.84 lbs/hr of PE 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)		OAC rules 3745-17-07(B) and 3745-17-08(B) are applicable only when the emissions unit is located in an Appendix A area as specified in OAC rule 3745-17-08.
<b>B. Operational Restrictions</b>		
1.		The maximum annual operating hours for this emissions unit shall not exceed 4,368 hours.
<b>C. Monitoring and/or Record Keeping Requirements</b>		
1.		The permittee shall maintain monthly records of the operating hours for this emission unit.
2.		The permittee shall perform daily checks while the equipment is in operation for any visible PE from the fabric filter 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 emissions 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.
<b>D. Reporting Requirements</b>		
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 PE and/or fugitive dust were observed and (b) describes the corrective actions taken to minimize or eliminate

the visible 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-  
0.030 gr/dscf or no visible emission

Applicable Compliance Method-

If required by the appropriate Ohio EPA District Office or local air agency, compliance shall be demonstrated using Test Method 5 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996; otherwise, compliance shall be demonstrated by the absence of any visible emissions from the fabric filter serving any silo vents and using Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B) (4)(a) through (B)(4)(c) of OAC rule 3745-17-03\*

Emission limitation-  
2.84 lbs/hr of PE

Applicable Compliance Method-

Compliance shall be determined by totalling the following products:

i. Sand and aggregate transfer to elevated bin:

The maximum hourly production rate of 240 tons/hr, is multiplied by the AP-42 emission factor, 0.029 lb/ton. The resulting uncontrolled emissions rate, 6.96 lbs/hr, is then multiplied by a moisture emission control factor of 70% (1 - .70), resulting in a controlled emissions rate of 2.09 lbs/hr.

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

The maximum hourly production rate of 240 tons/hr, is multiplied by the AP-42 emission factor, 0.27 lb/ton. The resulting uncontrolled emission rate, 64.8 lbs/hr, is then multiplied by a fabric filter control factor of 99% (1 - .99), resulting in a controlled emission rate of 0.65 lb/hr.

iii. Weigh hopper loading:

The maximum hourly production rate of 240 tons/hr, is multiplied by the AP-42 emission factor, 0.48 lb/ton. The resulting uncontrolled emissions rate, 4.8 lbs/hr, is then multiplied by a fabric filter control factor of 99% (1 - .99), resulting in a controlled emission rate of 0.05 lb/hr.

iv. Mixer loading (transit mix):

The maximum hourly production rate of 240 tons/hr, is multiplied by the AP-42 emission factor, 0.02 lb/ton. The resulting uncontrolled emissions rate, 4.8 lbs/hr, is then multiplied by a fabric filter control factor of 99% (1 - .99), resulting in a controlled emission rate of 0.05 lb/hr.

The lb/hr emissions rate for each of the four areas are summed. This is how the 2.84 lbs/hr limitation was developed for the PTI.

Emission limitation-  
6.20 tons/yr of PE

Applicable Compliance Method-

The 6.20 tons/yr emissions limitation was developed by multiplying the 2.84 lbs/hr emissions limitation by a maximum annual operating schedule of 4,368 hrs/yr. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 2.84 lbs/hr emissions 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 preformed 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 or 20 % opacity as a 6-minute average

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations preformed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Method 9.

**F. Miscellaneous Requirements**

1. Notice to Relocate a Portable or Mobile Source

Pursuant to Ohio Administrative Code (OAC) rule 3754-31-03 (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 emission unit;

ii. the portable emissions unit is operating pursuant to a currently effective (PTO);

iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the RAPCA within a minimum of thirty days prior to the scheduled relocation; and

- iv. in the RAPCA's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.  
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 owner or operator possesses an Ohio EPA PTI, PTO or Registration Status;
  - ii. the portable emissions unit is equipped with best available technology;
  - iii. the portable emissions 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;
  - vi. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site;and
  - vii. the portable emissions unit owner has provided Ohio EPA with fifteen days written notice of the relocation.
2. Any site approvals issued by the Ohio EPA, pursuant to F.1.a or F.1.b above, shall be valid for no longer than five years and are subject to renewal.
- In order for the RAPCA to determine compliance with all of the above criteria, the permittee of the portable or mobile emissions unit must file a " Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the RAPCA , 451 W. Third St., Dayton, OH 45422. Upon receipt of the notice, the RAPCA, or the RAPCA authorized representative, will evaluate the request in accordance with the above criteria.
- Failure to submit said notification and to receive Ohio Environmental Protection Agency approval prior to relocation of the emissions unit may result in fines and civil penalties.
3. The permittee shall comply with any applicable State and federal requirements governing the storage, treatment, transport, and disposal of any waste material generated by the operation of the source(s).
4. The permittee is hereby notified that this permit, and all agency records concerning the operation of this permitted emissions unit is subject to public disclosure in accordance with OAC rule 3745-49-03.