Facility ID: 0857103097 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: 0857103097 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Portable concrete batch-truck mix Plant #20; P901	OAC rule 3745-31-05 See F.4.	4.72 lbs/hr and 5.90 tons/yr of particulates from the equipment identified below.
Transfer of sand and aggregate to elevated bins	OAC rule 3745-17-07(B) See F.4.	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.
	OAC rule 3745-17-08(B) See F.4.	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.
Cement Silo	OAC rule 3745-31-05 See F.4.	The silo shall be adequately enclosed and vented to fabric filter No. 2; 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. See A.2.2.b.
	OAC rule 3745-17-11	
Weigh hopper loading of cement , sand and aggregate	OAC rule 3745-31-05 See F.4.	The weigh hopper shall be adequately enclosed and vented to the cement silo; the enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the point of capture. See A.2.2.b.
	OAC 3745-17-11	
Loading of transit-mix truck	OAC rule 3745-17-07(B) See F.4	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.
	OAC rule 3745-31-05 See F.4	The hopper discharge area and transit-mix truck opening shall be enclosed with a charging boot and vented to fabric filter No. 1; the charging boot 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.

See A.2.2.b.

OAC rule 3745-17-11

2. **Additional Terms and Conditions**

(a) The 4.72 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.
The limit based on this rule is less stringent than the limit specified above.

B. **Operational Restrictions**

1. The maximum annual operating hours for this emissions unit shall not exceed 2500 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-
4.72 lbs/hr of particulate

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 400 tons/hr is multiplied by the AP-42 emission factor, 0.029 lb/ton. The resulting uncontrolled emission rate, 11.6 lbs/hr, is then multiplied by a moisture emission control factor of 70% (1 - .70), resulting in a controlled emission rate of 3.48 lbs/hr.

ii Cement unloading to elevated silo (pneumatic):

The maximum hourly production rate of 400 tons/hr is multiplied by the AP-42 emission factor, 0.27 lb/ton. The resulting uncontrolled emission rate, 108 lbs/hr, is then multiplied by a fabric filter control factor of 99% (1 - .99), resulting in a controlled emission rate of 1.08 lbs/hr.

iii. Weigh hopper loading:

The maximum hourly production rate of 400 tons/hr is multiplied by the AP-42 emission factor, 0.02 lb/ton. The resulting uncontrolled emission rate, 8 lbs/hr, is then multiplied by a fabric filter control factor of 99% (1 - .99), resulting in a controlled emission rate of 0.08 lb/hr.

iv. Mixer loading (transit mix):

The maximum hourly production rate of 400 tons/hr, is multiplied by the AP-42 emission factor, 0.02 lb/ton. The resulting uncontrolled emission rate, 8 lbs/hr, is then multiplied by a fabric filter control factor of 99% (1 - .99), resulting in a controlled emission rate of 0.08 lb/hr.

The lb/hr emission rate for each of the four areas are summed. This is how the 4.72 lbs/hr limitation was developed for the PTI.
Emission limitation-
5.90 tons/yr of particulate

Applicable Compliance Method-
The 5.90 tons/yr emission limitation was developed by multiplying the 4.72 lbs/hr emission limitation by a maximum annual operating schedule of 2,500 hrs/yr. Therefore, compliance shall be based upon the 12-month maximum summation of the number of operating hours times the 4.72 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. 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 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.
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 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.
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 three years and are subject to renewal.

In order for the RAPCA and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator 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) and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the RAPCA and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

2. 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).

3. 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.

4. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install 08-3543, as issued on July 17, 1996: A.1, B, C.1, D.1 and F.1.