

Facility ID: 1652010034 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.

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Facility ID: 1652010034 Emissions Unit ID: F001 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>
Ross central mix concrete plant	OAC rule 3745-31-05 (PTI 16-488)	none
Transfer of sand and aggregate to elevated bins	OAC rule 3745-17-07(B)	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.
	OAC rule 3745-17-08(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.
Cement Silo	OAC rule 3745-17-08	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.
		The silo shall be adequately enclosed and vented to baghouse; the enclosure shall be sufficient to eliminate visible emissions of fugitive dust.
Weigh hopper loading of cement, sand and aggregate	OAC rule 3745-17-08	The baghouse 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.
		The weigh hopper shall be adequately enclosed and vented to the mixer loading chute; the enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the point of capture.
Loading of transit-mix truck	OAC rule 3745-17-07(B)	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.
	OAC rule 3745-17-08	A charging boot shall be used around the hopper choke-feed 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.

**2. Additional Terms and Conditions**

- (a) The 58.5 lbs/hr, limitation was established for 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. None
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
    - a. the color of the emissions;
    - b. whether the emissions are representative of normal operations;
    - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    - d. the total duration of any visible emission incident; and
    - e. any corrective actions taken to eliminate the visible emissions.
- D. Reporting Requirements**
1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
- E. Testing Requirements**
1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following method:  
Emission Limitation:  
  
20% opacity as a 3-min average  
  
Applicable Compliance Method:  
  
OAC rule 3745-17-03(B)(3)  
Emission limitation-  
58.5 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 200 tons/hr, is multiplied by the AP-42 emission factor, 0.029 lb/ton. The resulting uncontrolled emissions rate, 5.8 lbs/hr, is then multiplied by a moisture emission control factor of 70% (1 - .70), resulting in a controlled emissions rate of 1.74 lbs/hr.
    - ii. Cement unloading to elevated storage silo (pneumatic):  
  
The maximum hourly production rate of 200 tons/hr, is multiplied by the AP-42 emission factor, 0.27 lb/ton. The resulting uncontrolled emission rate, 54 lbs/hr, is then multiplied by a fabric filter control factor of 99% (1 - .99), resulting in a controlled emission rate of 0.54 lbs/hr.
    - iii. Weigh hopper loading:  
  
The maximum hourly production rate of 200 ton/hr, is multiplied by the AP-42 emission factor, 0.02 lb/ton. The resulting uncontrolled emissions rate, 4.0 lbs/hr, is then multiplied by a fabric filter control factor of 99% (1 - .99), resulting in a controlled emission rate of 0.04 lb/hr.
    - iv. Mixer loading (transit mix):  
  
The maximum hourly production rate of 200 tons/hr, is multiplied by the AP-42 emission factor, 0.02 lb/ton. The resulting uncontrolled emissions rate, 4.0 lbs/hr, is then multiplied by a fabric filter control factor of 99% (1 - .99), resulting in a controlled emission rate of 0.04 lb/hr.  
  
The lb/hr emissions rate for each of the four areas are summed.  
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.  
Emission Limitation-  
0.030 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).
- 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 Permit to Install (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 Permit to Operate (PTO);

iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Akron Regional Air Quality Management District (ARAQMD) 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 the ARAQMD's and the appropriate field offices'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 Environmental Protection Agency (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 ARAQMD and the appropriate field office having jurisdiction over the new site 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 ARAQMD (146 S. High Street, Suite 904, Akron, OH 44308) and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the ARAQMD, 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 Environmental Protection Agency 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 are subject to public disclosure in accordance with OAC rule 3745-49-03.

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**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>
paved roadways and parking areas	OAC rule 3745-31-05 (PTI #16-488)	no visible particulate emissions except for one minute during any 60-minute period
		best available control measures that are sufficient to

		minimize or eliminate visible emissions of fugitive dust (see Section A.2.a)
	OAC rule 3745-17-07 (B)(4)	less stringent than the above-mentioned visible emission limitation
		less stringent than the above-mentioned control measure requirements
unpaved roadways and parking areas	OAC rule 3745-17-08 (B), (B)(8), (B)(9) OAC rule 3745-31-05 (PTI #16-488)	no visible particulate emissions except for 3 minutes during any 60-minute period
		best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b)
	OAC rule 3745-17-07 (B)(5)	less stringent than the above-mentioned visible emission limitation
		less stringent than the above-mentioned control measure requirements
	OAC rule 3745-17-08 (B), (B)(2)	

**2. Additional Terms and Conditions**

(a) For paved roadways:

- i. The permittee shall sweep the paved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. The following equipment shall be used to sweep the roadways and parking areas: sweeper. The paved surfaces shall be swept, at a minimum, twice a week. The permittee shall not be required to sweep during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.
- ii. Any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly to minimize or prevent resuspension.
- iii. A maximum speed limit of 10 miles per hour shall be posted and enforced on the property.
- iv. Open bodied vehicles transporting materials likely to become airborne shall be covered at all times.  
For unpaved roadways:
  - i. The permittee shall apply dust suppressants to the unpaved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. water shall be used as the dust suppressant, and the following equipment shall be used for the periodic applications: water truck. The dust suppressant shall be applied to the unpaved surfaces, at a minimum, every week. This term and condition shall be waived during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.
  - ii. Any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly to minimize or prevent resuspension.
  - iii. A maximum speed limit of 5 miles per hour shall be posted and enforced on the property.
  - iv. Open bodied vehicles transporting materials likely to become airborne shall be covered at all times.

**B. Operational Restrictions**

- 1. None

**C. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain records which include the following information for the paved roadways and parking areas:
  - a. the date the paved surfaces were swept;
  - b. the portions of the paved surfaces that were swept; and
  - c. the name of the equipment operator responsible for the sweeping.
- 2. The permittee shall maintain records which include the following information for the unpaved roadways and parking areas:
  - a. the date dust suppressants were applied to the unpaved surfaces;
  - b. the portions of unpaved surfaces that were treated with dust suppressants;
  - c. the application rate of water and any chemical additives (gallons of each per square yard); and
  - d. the name of the equipment operator responsible for the application of the dust suppressants.

**D. Reporting Requirements**

1. In accordance with paragraph 3 of the General Terms and Conditions, the permittee shall submit deviation reports that identify each week that the roadways and parking areas were not maintained in accordance with sections A.2.a and A.2.b.

**E. Testing Requirements**

1. Compliance with the emission limitation for the paved and unpaved roadways and parking areas identified above shall be determined in accordance with 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)(d) of OAC rule 3745-17-03.

**F. Miscellaneous Requirements**

1. None