

Facility ID: 0857042071 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: 0857042071 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 - 200 TPH (100 cubic yard/hour) Portable Concrete Batch Plant	OAC rule 3745-31-05(A)(3) PTI 08-04512	The particulate emissions (PE) from this unit shall not exceed 9.0 lb/hour and 11.3 TPY.
Transfer of sand and aggregate to elevated bins	OAC rule 3745-31-05(A)(3) PTI 08-04512	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 requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(B). The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.
	OAC rule 3745-17-07(B)	See Section A.2.b.
	OAC rule 3745-17-08	See Section A.2.b.
Cement and Auxiliary silos with fabric filter dust collector	OAC rule 3745-31-05(A)(3) PTI 08-04512	The silos shall be adequately enclosed and vented to a fabric filter dust collector; the enclosure shall be sufficient to eliminate visible emissions of fugitive dust. The fabric filter dust collector 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.
	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). 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 3745-17-07(A)	
Weigh hopper loading of sand and aggregate	OAC rule 3745-31-05(A)(3)	The weigh hopper shall be adequately enclosed; the

	PTI 08-04512	enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the last point of capture.
	OAC rule 3745-17-07(B)	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average. See Section A.2.b.
	OAC rule 3745-17-08	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3)
Transit mix truck loading with fabric filter dust collector	OAC rule 3745-31-05(A)(3) PTI 08-04512	A charging boot shall be used around the hopper discharge area and transit-mix truck opening and vented to a fabric filter dust collector; 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. The fabric filter dust collector 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. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). The opacity limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.
	OAC rule 3745-17-11	See Section A.2.b.
	OAC rule 3745-17-07(A)	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(B)	
	OAC rule 3745-17-08	

2. Additional Terms and Conditions

- (a) The 9.0 lb/hr PE limitation was established for PTI purposes to reflect the potential to emit for this emissions 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. The pressure drop across the baghouse shall be maintained within the range of 2 to 6 inches of water when the emissions unit is in operation.
- 2. The maximum annual production for this emissions unit shall not exceed 250,000 cubic yards per year.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the maximum annual production rate for this emissions unit shall not exceed 250,000 cubic yards per year;
 - b. the particulate emissions rate, in tons (as calculated in Section E.1.b.);
- 2. The permittee shall perform daily checks when the equipment is in operation and when the weather conditions allow for any visible particulate emissions from the stack of the fabric filter dust collector serving this emissions unit, and any visible particulate fugitive emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving the 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 location and 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 emissions incident; and
 - e. any corrective actions taken to minimize or eliminate abnormal visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed in excess of the allowable opacity limit specified above from the stack of the fabric filter baghouse serving this emissions unit, (b) identify all days during which any visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit, (c) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate and/or visible fugitive particulate emissions, (d) annual production rate in cubic yards per year, and (e) the annual particulate emissions rate, in tons (as calculated in Section E.1.b.). 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 specified emission limitations in Section A.1. of this permit shall be demonstrated in accordance with the following methods:

Emission Limitation -
9.0 lb PE/hour

Applicable Compliance Method-

Compliance shall be demonstrated by the maximum hourly production rate of 100 cubic yard/hour is multiplied by the emission factor (total facility controlled), 0.090 lb-particulate/cubic yard (AP-42, Chapter 11, Table 11.12-3, 10/2001) resulting in a controlled emission rate of 9.0 lb/hr.

Emission Limitation -
11.3 TPY PE

Applicable Compliance Method-

The 11.3 TPY emission limitation was developed by multiplying the maximum hourly production rate of 100 cubic yard by the maximum operating schedule of 2500 hours/year, resulting in the production rate limitation of 250,000 cubic yard/year. This result was then multiplied by the AP-42 emissions factor of 0.090 lb-particulate/cubic yard and divided by 2000 lb/ton. Therefore, compliance shall be based upon the record keeping requirements specified in Section C.1. of this permit.

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 22.

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)(1) using the methods and procedures specified in USEPA Reference Method 9.

F. Miscellaneous Requirements

1. Notice to Relocate a Portable or Mobile Source
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.

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;

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. 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 Street, 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.