

Facility ID: 1677010978 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: 1677010978 Emissions Unit ID: P901 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> |
|--|--------------------------------------|---|
| portable concrete batch plant | OAC rule 3745-31-05 (PTI 16-566) | 9.50 lbs/hr and 17.10 tpy of particulate emissions from the equipment below |
| transfer of sand and aggregate to elevated bins | OAC rule 3745-17-07(B) | The visible emissions of fugitive dust shall not exceed 20% 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. 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. |
| three cement silos | OAC rule 3745-31-05 | Each silo shall be adequately enclosed and vented to its baghouse; 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. |
| | | See A.2.b below. |
| weigh hopper loading of cement, sand and aggregate | OAC rule 3745-17-11 | The weigh hopper shall be adequately enclosed; the enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the point of capture. See A.2.b below. |
| | OAC rule 3745-31-05 | |
| loading of transit-mix truck | OAC rule 3745-17-11 | The visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average. 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 |
| | OAC rule 3745-17-07(B) | |
| | OAC rule 3745-31-05 | |

extent possible with good engineering design.

See A.2.b below.

OAC rule 3745-17-11

2. Additional Terms and Conditions

- (a) The 9.50 lbs/hr particulate emissions limitation was established 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 particulate emissions limitation based on OAC rule 3745-17-11 is less stringent than the particulate emissions limitation established by best available technology under OAC rule 3745-31-05.

B. Operational Restrictions

1. The maximum annual operating hours for this emissions unit shall not exceed 3,600 hours.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the operating hours for this emission unit.
2. 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 fugitive dust capture points and the stacks 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:
- the color of the emissions;
 - whether the emissions are representative of normal operations;
 - if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.

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 semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the fugitive dust capture points and 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 methods:
Emission limitation:

9.50 lbs/hr of particulates

Based on application data, a maximum hourly design production capacity for each of the four concrete plant operations is listed below, along with the appropriate uncontrolled particulate emission factor from the AP-42, 4th edition, Table 8.10-1.

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 90 tons/hr is multiplied by the AP-42 particulate emission factor of 0.029 lb/ton. The resulting uncontrolled emissions rate, 2.61 lbs/hr, is then multiplied by a moisture emission control factor of 70% (1 - .70), resulting in a controlled emissions rate of 0.78 lbs/hr.

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

The maximum hourly production rate of 90 tons/hr is multiplied by the AP-42 particulate emission factor of 0.27 lb/ton. The resulting uncontrolled emission rate, 24.3 lbs/hr, is then multiplied by a fabric filter control factor of 95% (1 - .95), resulting in a controlled emission rate of 1.22 lbs/hr.

- iii. Weigh hopper loading:

The sum of the maximum hourly production rates of 90 tons aggregate/hr and 35 tons cement/hr, totalling 125 tons/hr, is multiplied by the AP-42 particulate emission factor of 0.02 lb/ton, resulting in an uncontrolled emissions rate is 2.5 lbs/hr.

- iv. Mixer loading (transit mix):

The maximum hourly production rate of 250 tons/hr is multiplied by the AP-42 particulate emission factor of 0.02 lb/ton, resulting in an uncontrolled emission rate of 5.0 lb/hr.

The particulate emissions rate, in lbs/hr, for each of the four areas are summed to develop the 9.50 lbs/hr particulate emissions limitation.

Emission limitation:

17.10 tpy of particulates

Applicable Compliance Method:

The 17.10 tpy particulate emissions limitation was developed by multiplying the 9.50 lbs/hr particulate emissions limitation by a maximum annual operating schedule of 3,600 hrs/yr. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 9.50 lbs/hr particulate emissions limitation, divided by 2,000 lbs/ton.

Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined by visible particulate 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:

0.030 gr/dscf of particulates

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:

no visible particulate emissions

Applicable Compliance Method:

Compliance shall be determined by visible particulate 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. 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).
2. 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.