

Facility ID: 1652050178 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: 1652050178 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 - central mix | OAC rule 3745-31-05 (PTI 06-4245) | use of wet suppression or enclosures vented to a fabric filter There shall be no visible particulate emissions from the plant. |
| | OAC rule 3745-17-11 | 57.4 lbs/hr of particulates from the equipment identified 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 percent opacity as a 3-minute average. |
| | OAC rule 3745-17-08(B) | The drop height of the front-end buck shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the conveyor loading area. |
| cement and fly ash silos | OAC rule 3745-31-05 (PTI 06-4245) | 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 fabric filter shall achieve an outlet emission rate of not greater than 0.030 grain per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent. |
| | | See portable concrete batch plant above. |
| weigh hopper loading of cement, sand, and aggregate | OAC rule 3745-17-11 OAC rule 3745-31-05 (PTI 06-4245) | The fabric filter shall achieve an outlet emission rate of not greater than 0.030 grain per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent. |
| | | See portable concrete batch plant above. |
| loading of mixer | OAC rule 3745-17-11 OAC rule 3745-31-05 (PTI 06-4245) | The fabric filter shall achieve an outlet emission rate of not greater than 0.030 grain per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent. |
| | | See portable concrete batch plant above. |

OAC rule 3745-17-11

2. Additional Terms and Conditions

(a) None

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks while the equipment is in operation for any visible particulate emissions from the fabric filter control systems and the concrete batch plant. The presence or absence of any visible emissions from the fabric filter control systems and the concrete batch plant shall be noted in an operations log. If any visible emissions are observed from any of the fabric filter control systems or the concrete batch plant, 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 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/or the concrete batch plant 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 with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

Emission Limitation:

0.030 gr/dscf of particulates

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the procedures and test method(s) in OAC rule 3745-17-03(B)(7).

Emission Limitation:

no visible particulate emissions

Applicable Compliance Method:

OAC rule 3745-17-03(B)(4)

Emission limitation:

57.4 lbs/hr of particulates

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 180 tons/hr is multiplied by the AP-42 particulate emission factor of 0.029 lb/ton. The resulting uncontrolled emission rate of 5.22 lbs/hr is then multiplied by a moisture emission control factor of 70% (1-.70), resulting in a controlled emission rate of 1.57 lbs/hr.

ii. Cement and fly ash unloading to elevated silo (pneumatic):

The maximum hourly production rate of 180 tons/hr is multiplied by the AP-42 particulate emission factor of 0.27 lb/ton. The resulting uncontrolled emission rate of 48.6 lbs/hr is then multiplied by a fabric filter control factor of 99% (1-.99), resulting in a controlled emission rate of 0.49 lb/hr.

iii. Weigh hopper loading:

The maximum hourly production rate of 180 tons/hr is multiplied by the AP-42 particulate emission factor of 0.02 lb/ton. The resulting uncontrolled emission rate of 3.6 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 (central mix):

The maximum hourly production rate of 180 tons/hr is multiplied by the AP-42 particulate emission factor of 0.04 lb/ton. The resulting uncontrolled emission rate of 7.2 lbs/hr is then multiplied by a fabric filter control factor of 99% (1-.99), resulting in a controlled emission rate of 0.07 lb/hr.

The controlled particulate emission rates for each of the four areas are summed and the total is 2.17 lbs/hr.

F. Miscellaneous Requirements

1. Notice of Relocation of 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 provided 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 Akron Regional Air Quality Management District 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 Akron Regional Air Quality Management District's and the appropriate field office's judgement, the proposed site is acceptable under OAC rule 3745-15-07.
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 provided 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.