

Facility ID: 1677010644 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: 1677010644 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Rex Custom model L concrete batch plant	OAC rule 3745-17-11	58.51 lbs/hr 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.
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 cement baghouses one through four, and #5 fly ash baghouse; the enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the point of capture.
Weigh hopper loading of cement, sand and aggregate	OAC rule 3745-17-08	The fabric filters shall each 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 each outlet, whichever is less stringent.
		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.
Loading of (central mix) mixer	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 discharge area and the mixer 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.
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 discharge area and the mixer 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) None
- B. **Operational Restrictions**
 1. None
- 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 fugitive emissions and any visible particulate emissions from 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:
 - 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 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 fugitive emissions and/or visible particulate emissions from the stacks were observed 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:

58.51 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, 5th edition, Table 11.12-2 (1/95):

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 150 tons/hr is multiplied by the AP-42 emission factor, 0.27 lb/ton. The resulting uncontrolled emission rate, 40.5 lbs/hr, is then multiplied by a fabric filter control factor of 99% (1 - .99), resulting in a controlled emission rate of 0.41 lb/hr.
 - iii. Weigh hopper loading:

The maximum hourly production rate of 200 tons/hr is multiplied by the AP-42 emission factor, 0.02 lb/ton, resulting in an uncontrolled emission rate of 4.0 lbs/hr.
 - iv. Mixer loading (central mix):

The maximum hourly production rate of 100 tons/hr is multiplied by the AP-42 emission factor, 0.04 lb/ton, resulting in an uncontrolled emission rate of 4.0 lbs/hr.
 - v. Mixer loading (transit mix):

The maximum hourly production rate of 100 tons/hr is multiplied by the AP-42 emission factor, 0.02 lb/ton, resulting in an uncontrolled emission rate of 2.0 lbs/hr.
 The lb/hr emission rates for the five areas are summed, and the total is 12.15 lbs/hr.
Emission Limitation:

20% 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:

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 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 emissions unit.
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.