

Facility ID: 0684000015 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: 0684000015 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>
200 ton per hour concrete batch plant (weigh hopper loading and truck loading) controlled with baghouse	OAC rule 3745-31-05(A)(3) (PTI 06-07331 issued 11/28/03)	There shall be no visible particulate emissions (PE) from the exhaust stack. Total PE shall not exceed 3.66 lb/hr. Total PE shall not exceed 16.0 tons per year. See A.2.a - A.2.d, below. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1). Fugitive visible particulate emissions shall not exceed 20 per cent opacity as a three-minute average. The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-17-07 (B)(1)	
	OAC rule 3745-17-07 (A) OAC rule 3745-17-08 (B) OAC rule 3745-17-11	

2. Additional Terms and Conditions

- (a) The operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:
 - i. Cement/flyash weigh hopper loading
 - ii. Aggregate weigh hopper loading (sand and limestone)
 - iii. Weigh hopper load-out/load chute (cement and aggregate)
 - iv. Truck loading
The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:
 - i. material handling operation
Cement/Flyash weigh hopper loading
control measure
Cement weigh hopper dust collector (baghouse)
 - ii. material handling operation
Aggregate/Sand weigh hopper loading and unloading
control measure
Adequate moisture to control fugitive emissions
 - iii. material handling operation
Weigh hopper load-out/load chute (cement and aggregate)
control measure

Loading hood dust collection system (baghouse)

iv. material handling operation
Truck loading
control measure
Loading hood dust collection system (baghouse)

Nothing in this paragraph shall prohibit the permittee from employing additional control measures to ensure compliance.

For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure (s) is unnecessary.

Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.

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 exhaust, or any visible fugitive particulate emissions from the batch plant. The presence or absence of any visible emissions from the fabric filter exhaust, and/or the batch plant shall be noted in an operations log. If any visible emissions are observed, 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 deviation reports that identify any of the following occurrences:
- each day during which an inspection was not performed by the required frequency, and;
 - each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Southeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. Testing Requirements

1. Emission Limitation:

There shall be no visible particulate emissions from the exhaust stack.

Compliance Method:

Compliance shall be demonstrated through Monitoring Requirement C.1 and Reporting Requirement D.1 and 2, above.

If required, compliance with the no visible emission limit from the exhaust of the fabric filter shall be determined using Test Method 22-like visible emission observations (Although Test Method 22 applies to fugitive emissions units, the visible/no visible emissions observation technique of Test Method 22 can be applied to ducted emissions, i.e., Test Method 22-like visible emission observations).

2. Emission Limitation:

Particulate emissions (PE) shall not exceed 3.66 lb/hr

Compliance Method:

Compliance with the lb/hr emission limitation shall be demonstrated by the following calculations using emission factors from AP 42, Compilation of Air Pollutant Emission Factors, Chapter 11, Table 11.12-2 (issued 10/01) and, for cement/flyash, Table 11.19.2-2 (1/95).

Cement/Flyash weigh hopper:

Total PE = 0.0315 lb PE/ton unloaded * 29 tons/hr * (1 - 0.999 (manufacturer rating)) = 0.00091 lb/hr

Aggregate/Sand weigh hopper loading and unloading:

Aggregate: 0.0069 lb/ton of material transferred * 194 (97 tons/hr loading and 97 tons/hr unloading) = 1.34 lb/hr

Sand: 0.0021 lb/ton of material transferred * 148 (74 tons/hr loading and 74 tons/hr unloading) = 0.31 lb/hr

Total PE = (Aggregate) 1.34 lb/hr + (Sand) 0.31 lb/hr = 1.65 lb/hr

Weigh hopper load-out/load chute (cement/flyash, aggregate, and sand):

Total PE = 0.0315 lb PE/ton unloaded * 29 tons/hr * (1 - 0.999 (manufacturer rating)) = 0.00091 lb/hr

Truck loading:

Total PE = 0.61 lb PE/ton * tons/hr * (1 - 0.999 (manufacturer rating)) = 0.0614 lb/hr

Total emissions = 1.71 lb PE/hr

3. Emission Limitation:

Particulate emissions (PE) shall not exceed 16.0 tons per year

Compliance Method:

Compliance with the TPY emission limitation shall be demonstrated by the following one time calculations using emission factors from AP 42, Compilation of Air Pollutant Emission Factors, Chapter 11, Table 11.12-2 (issued10/01).

Aggregate/sand transfer to weigh hopper: Total PE = 0.0051 lb/ton of material transferred * 255 tons/hr * 8760 hr/yr * 1 ton/2000 lb = 5.70 TPY

Cement unloading to weigh hopper: Total PE = 0.0021 lb PE/ton unloaded * 37.5 tons/hr * 8760 hr/yr * 1 ton/2000 lb = 0.345 TPY

Material transfer to mix truck: Total PE = 0.61 lb PE/ton * 292.5 tons/hr * (1 - 0.999 (manufacturer rating)) * 8760 hr/yr * 1 ton/2000 lb = 0.782 TPY

Total emissions = 6.83 TPY

4. Emission Limitation:

Fugitive visible particulate emissions shall not exceed 20 per cent opacity as a three-minute average

Compliance Method:

Compliance with the fugitive visible emission limitations identified above shall be determined in accordance with Test Method 9 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, 2002, and the modifications listed in paragraph (B)(3) of OAC rule 3745-17-03.

F. **Miscellaneous Requirements**

1. None