

Facility ID: 1677010106 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: 1677010106 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>
Central-mix concrete batching plant (electrically-driven) used to produce concrete burial vaults; baghouse to control particulate emissions (PE) from pneumatic loading of cement silo, all other PE from sand/aggregate transfer, weigh hopper loading, and mixer loading are fugitive.	OAC rule 3745-31-05(A)(3) (PTI 16-02385)	PE shall not exceed:  0.1 pound/hour (stack emissions); 3.4 pounds/hour (fugitive emissions); and 15 tons/year (stack + fugitive emissions).  The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-07(B), and 3745-17-08(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	Visible emissions of fugitive dust shall be minimized or eliminated using the following procedures and strategies to the extent possible:  Minimizing front-end loader drop height; Water applied, as needed, to storage piles and front-end loader work area; Housekeeping of front-end loader work area; Sand/aggregate with sufficient moisture content during transfer from storage pile to mixer; Enclosed bucket elevators and weigh hoppers, and use of a choke feed for the mixer; and The cement silo shall be enclosed and vented to a baghouse.
	OAC rule 3745-17-11(B)	The emission limitation from this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- (a) The PE emissions limits established pursuant to OAC rule 3745-31-05(A)(3) reflect the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure ongoing compliance with the PE emissions limits.

However, the permittee shall apply for and, if required, obtain a final permit to install prior to equipment replacement or any proposed change such as equipment modification that would increase the potential to emit for any air pollutant.

**B. Operational Restrictions**

1. The permittee shall employ the baghouse serving this emissions unit at all times this emissions unit is in operation.

**C. Monitoring and/or Record Keeping Requirements**

1. The permittee shall document when the baghouse serving this emissions unit was not in service when the emissions unit was in operation.
2. The permittee shall perform weekly checks, when the emissions unit is in operation and when weather conditions allow, for any visible emissions of fugitive dust from the emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted weekly in an operations log. If visible emissions of fugitive dust are observed, the permittee shall also note the following in an 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 determined cause of the abnormal emissions if a cause can be determined upon investigation;
  - d. the total duration of the visible emissions incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.
3. The permittee shall perform weekly checks, when the emissions unit is in operation and when weather conditions allow, for any visible particulate emissions from the baghouse serving this emissions unit. The presence or absence of any visible particulate emissions from the baghouse shall be noted weekly in an operations log. If visible particulate emissions are observed from the baghouse, the permittee shall also note the following in an 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 determined cause of the abnormal emissions if a cause can be determined upon investigation;
  - d. the total duration of the visible emissions incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

**D. Reporting Requirements**

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing the baghouse serving this emissions unit was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.
2. The permittee shall submit on a semiannual basis a report which (a) identifies all days during which any visible emissions of fugitive dust were observed from the emissions unit and (b) describes the corrective actions taken to minimize or eliminate the visible emissions of fugitive dust. These reports shall be submitted by January 31 and July 31 of each year to the Director (District Office or local air agency).
3. The permittee shall submit on a semiannual basis a report which (a) identifies all days during which any visible particulate emissions were observed from the baghouse 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 6-minute average (stack emissions)  
  
Applicable Compliance Method: If required, compliance shall be determined by visible emission evaluations performed in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 9 and the methods and procedures specified in OAC rule 3745-17-03(B)(1).  
Emission Limitation: 20% opacity as a 3-minute average (fugitive emissions)  
  
Applicable Compliance Method: If required, compliance shall be determined by visible emission evaluations performed in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 9 and the methods and procedures specified in OAC rule 3745-17-03(B)(3).  
Emission Limitation: 0.1 lb/hr of PE (stack emissions)  
  
Applicable Compliance Method: The above emission limitation is greater than the potential to emit, as established in the following equation:  
  
$$S = EP$$
  
Where,  
  
$$S = 0.024 \text{ lb/hr PE [hourly potential stack emissions];}$$
  
$$E = 0.00099 \text{ lb PE/ton cement unloading [AP-42, 10/01, Table 11.12-2]; and}$$
  
$$P = 24 \text{ tons cement/hour.}$$
  
Emission Limitation: 3.4 lbs/hr of PE (fugitive emissions)  
  
Applicable Compliance Method: The above emission limitation is based on the potential to emit, as established in the following equation:  
  
$$F = (Ea)(Pa) + (Es)(Ps) + (Ew)(Pw) + (Em)(Pm)$$
  
Where,  
  
$$F = 3.4 \text{ lbs/hr PE [hourly potential fugitive emissions];}$$
  
$$Ea = 0.0069 \text{ lb PE/ton aggregate transfer [AP-42, 6/06, Table 11.12-2];}$$

Es = 0.0021 lb PE/ton sand transfer [AP-42, 6/06, Table 11.12-2];  
Ew = 0.0051 lb PE/ton weigh hopper loading [AP-42, 6/06, Table 11.12-2];  
Em = 0.544 lb PE/ton mixer loading [AP-42, 6/06, Table 11.12-2];  
Pa = 50 tons aggregate transferred/hour;  
Ps = 50 tons sand transferred/hour;  
Pw = 90 tons aggregate & sand weighed/hour; and  
Pm = 4.5 tons mixer load/hour.  
Emission Limitation: 15 TPY of PE (stack + fugitive emissions)

Applicable Compliance Method: The above emission limitation is based on the potential to emit, as established in the following equation:

$$A = (S + F)(8760 \text{ hours/year})(1 \text{ ton}/2000 \text{ pounds})$$

Where,

A = 15 TPY of PE [annual potential to emit, includes stack and fugitive emissions];  
S = 0.024 lb/hr PE [hourly potential stack emissions]; and  
F = 3.4 lbs/hr PE [hourly potential fugitive emissions].

**F. Miscellaneous Requirements**

1. None