

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: P902 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>
Material handling operations including cement transfer to silo, cement unloading, and aggregate handling with two fabric filters.	OAC rule 3745-31-05(A)(3) (PTI 06-07331 issued 11/28/03)	Particulate emissions (PE) shall not exceed 18.2 tons/yr  The reverse air baghouse shall achieve an outlet emission rate of not greater than 0.030 grain of PE per dry standard cubic foot of exhaust gases and no visible PE from the exhaust stack;  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.d)
	OAC rule 3745-17-07 (B)(1)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08 (B). Visible PE shall not exceed 20 per cent opacity as a three-minute average;
	OAC rule 3745-17-08 (B)	The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05 (A)(3).

**2. Additional Terms and Conditions**

- (a) The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:
  - i. Aggregate hopper loading
    - (a) Sand
    - (b) Limestone
  - ii. Aggregate hopper load-out
    - (a) Sand
    - (b) Limestone
  - iii. Storage bin load-in
    - (a) Sand
    - (b) Limestone
  - iv. Pneumatic cement unloading operations
    - (a) Bulk tanker to pig
    - (b) Pig to silo 1

- (c) Pig to silo 2  
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:  
  
material handling operation(s)  
i. Aggregate hopper loading
- (a) Sand
- (b) Limestone  
control measure(s)  
Water  
  
material handling operation(s)  
ii. Aggregate hopper load-out
- (a) Sand
- (b) Limestone  
control measure(s)  
Maintain material moisture  
  
material handling operation(s)  
iii. Storage bin load-in
- (a) Sand
- (b) Limestone  
control measure(s)  
Maintain material moisture  
  
material handling operation(s)  
iv. Pneumatic cement unloading operations
- (a) Bulk tanker to pig
- (b) Pig to silo 1
- (c) Pig to silo 2  
control measure(s)  
Reverse air 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. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:  
  
material handling operation(s)  
a. Aggregate hopper loading  
  
i. Sand  
  
ii. Limestone  
minimum inspection frequency  
Daily  
  
material handling operation(s)  
b. Aggregate hopper load-out  
  
i. Sand  
  
ii. Limestone  
minimum inspection frequency  
Daily  
  
material handling operation(s)  
c. Storage bin load-in

- i. Sand
  - ii. Limestone
    - minimum inspection frequency  
Daily
    - material handling operation(s)  
d. Pneumatic cement unloading operations
  - i. Bulk tanker to pig
  - ii. Pig to silo 1
  - iii. Pig to silo 2
    - minimum inspection frequency  
Once during each unloading event
2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
  - c. the dates the control measure(s) was (were) implemented; and
  - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.
- The information in 3.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.
4. 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:
- a. each day during which an inspection was not performed by the required frequency; and
  - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
3. 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:
- Visible particulate emissions shall not exceed 20 per cent opacity as a three-minute average
- Compliance Method:
- Compliance with the visible emission limitations for the material handling operations 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.
2. Emission Limitation:
- Particulate emissions shall not exceed 18.2 tons/yr
- Compliance Method:
- Compliance with the 18.2 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 (10/01):
- Aggregate transfer: Total PE = 0.0069 lb/ton of material transferred\*  
150 tons/hr \* 8760 hr/yr \* 3 transfer points = 13.6 TPY
- Sand Transfer: Total PE = 0.0021 lb/ton of material transferred \* 105 tons/hr \* 8760 hr/yr \* 3 transfer points = 2.90 TPY
- Cement unloading to elevated storage silo: 0.00099 lb PE/ton \* 37.5 tons/hr \* 8760 hr/yr \* 1 ton/2000 lb = 0.163 TPY

Total PE = 16.7 tons PE/yr

3. Emission Limitation:

The reverse air baghouse shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions(PE) per dry standard cubic foot of exhaust gases and no visible particulate emissions from the exhaust stack.

Compliance Method:

Compliance shall be demonstrated through Monitoring Requirement C.5 and Reporting Requirement D.3, above.

If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(7).

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).

F. **Miscellaneous Requirements**

1. None