

Facility ID: 1483060155 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: 1483060155 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>
cement silos and weigh hopper loading with fabric filter	OAC rule 3745-31-05 (PTI 14-1803)	Visible particulate emissions from the fabric filter stack associated with this emissions unit shall not exceed 0% opacity.
		0.15 lb of particulate emissions (PE)/hr (combined from the cement loading and weigh hopper loading)
	OAC rule 3745-17-07(A)	See B.1. The visible emission limitation established in this rule is less stringent than that established by OAC rule 3745-31-05.
transit mix truck loading	OAC rule 3745-17-11	The particulate emissions limitation established in this rule is less stringent than that established by OAC rule 3745-31-05.
	OAC rule 3745-31-05 (PTI 14-1803)	The permittee shall employ a choke feed system and water ring in such a manner as to eliminate or minimize visible fugitive particulate emissions.
aggregate transfer to elevated storage bins	OAC rule 3745-31-05 (PTI 14-1803)	2.18 lbs of PE/hr 5.46 TPY of PE
		The permittee shall ensure that the sand/aggregate remains wet during all periods of transfer to the elevated storage bins.

**2. Additional Terms and Conditions**

- (a) None

**B. Operational Restrictions**

1. The maximum annual cement loading rate for this emissions unit shall not exceed 80,000 tons per year.
2. The maximum annual concrete production for this emissions unit shall not exceed 640,000 tons per year.

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

1. The permittee shall maintain monthly records of the amount of cement loaded into the silos for this emissions unit, in tons. The permittee shall also maintain monthly records of the amount of concrete produced in this emissions unit, in tons.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions from the stack serving this emissions unit and for any visible fugitive dust emissions from 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 location and color of the emissions;

- b. the cause of the visible emissions;
- c. the total duration of any visible emission incident; and
- d. any corrective actions taken to eliminate the visible emissions.

**D. Reporting Requirements**

1. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that summarize the total cement loaded and the total concrete produced for the calendar year. These reports shall be submitted by January 31 of each year.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit or any abnormal visible fugitive dust emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions or visible fugitive dust emissions. These reports shall be submitted to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year and shall cover the previous six-month period.

**E. Testing Requirements**

1. Compliance with the emission limitations specified in section A.1. and the loading and production restrictions specified in section B of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation -  
0% opacity from the fabric filter stack serving the cement silos and weigh hopper loading

Applicable Compliance Method -  
Compliance with the above visible particulate emissions limitation 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").

Emission Limitation -  
0.15 lb of PE/hr from the fabric filter stack serving the cement silos and weigh hopper loading

Applicable Compliance Method -  
Compliance with the above hourly PE limitation shall be determined by using the emission factors (EFs) from AP-42, Chapter 11.12 (Concrete Batching), Fifth Edition, dated 1/1995, in the following equation with a control efficiency for the use of a fabric filter:

Summation of: [maximum silos loading rate (TPH) x (EF of 0.27 lb of PE/ton) x (1-0.99)] + [maximum weigh hopper loading rate (TPH) x (EF of 0.02 lb of PE/ton) x (1-0.99)] = lbs of PE/hr

Emission Limitation -  
2.18 lbs of PE/hr from the aggregate transfer to elevated storage bins

Compliance with the above hourly PE limitation shall be determined by using the emission factor from AP-42, Chapter 11.12 (Concrete Batching), Fifth Edition, dated 1/1995, in the following equation with a control efficiency for the use of wet sand/aggregate:

[maximum aggregate bins transfer rate (TPH) x (EF of 0.029 lb of PE/ton) x (1-0.25)] = lbs of PE/hr

Emission Limitation -  
5.46 TPY of PE from aggregate transfer to elevated storage bins

Applicable Compliance Method -  
Compliance with the above annual PE limitation shall be determined by using the emission factor from AP-42, Chapter 11.12 (Concrete Batching), Fifth Edition, dated 1/1995 in the following equation with a control efficiency for the use of wet sand/aggregate:

[maximum aggregate bins transfer rate (TPY) x (EF of 0.029 lb of PE/ton) x (1-0.25)] x ton/2000 lbs = TPY of PE

Loading and Production Restrictions -  
80,000 TPY of cement loaded  
640,000 TPY of concrete produced

Applicable Compliance Method -  
Compliance with the above annual restrictions shall be determined by the record keeping in section C.1. of these terms and conditions and shall be the sum of the monthly totals of cement loaded and concrete produced for the calendar year.

**F. Miscellaneous Requirements**

1. If probable cause exists indicating this emissions unit is causing or contributing to a nuisance in violation of OAC rule 3745-15-07, the permittee shall be required to submit and implement a control program which will bring this emissions unit into compliance.