

Facility ID: 0660010246 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: 0660010246 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>
P901 - Portable 800 ton per hour Central Mix Concrete Plant including Cement / Fly Ash Silo and Mixer Loading (central mix) vented to 13,000 cfm baghouse.	OAC rule 3745-31-05(A)(3)	Total particulate emissions shall not exceed 2.51 tons in any 12-month period from the concrete plant and silo combined. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1), and OAC rule 3745-31-02(A)(2). The fabric filter 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 emissions from the exhaust stack.
	OAC rule 3745-31-02 (A)(2)	See A.2.a, b, and c The permittee shall limit the emissions of this air contaminant source by limiting the production rate.
	OAC rule 3745-17-07 (B)(1)	See A.2.d and B.1 20 % opacity as a three minute average for fugitive emissions during any 60-minute period
	OAC rule 3745-17-07 (A) OAC rule 3745-17-08 (B) OAC rule 3745-17-11	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 permittee shall employ best available control measures on the central mix concrete plant for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee shall maintain enclosures and vent emissions to a fabric filter baghouse and/or filter sock to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing additional measures to ensure compliance. Cement shall be transferred pneumatically to storage. The pneumatic system shall be adequately enclosed so as to eliminate at all times visible emissions of fugitive dust. Any visible emission of cement from the delivery vehicle shall be cause for the halt of the unloading process until the situation is corrected. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05. The permittee has volunteered to limit the production rate of the P901 air contaminant source, therefore the terms and conditions of this permit causes the limit imposed in B.1 to be enforceable.

B. Operational Restrictions

1. The maximum annual production rate for this emissions unit shall not exceed 1,200,000 tons of concrete, based upon a rolling, 12-month summation of production rates.

 To ensure compliance during the first 12 calendar months following the startup of emissions unit P901, the

permittee shall not exceed the monthly cumulative restrictions specified in the following table:

Month	Maximum Allowable Cumulative Production (tons of concrete produced)
1	200,000
1-2	400,000
1-3	600,000
1-4	800,000
1-5	1,000,000
1-6	1,200,000
1-7	1,200,000
1-8	1,200,000
1-9	1,200,000
1-10	1,200,000
1-11	1,200,000
1-12	1,200,000

After the first 12 calendar months following the startup of emissions unit P901, compliance with the annual production restriction shall be based on a rolling, 12-month summation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. The production rate for each month.
 - b. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the production rates.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative production rate for each calendar month.
2. The permittee shall perform daily checks while the equipment is in operation for any visible emissions from the fabric filter exhaust, or any visible fugitive emissions from the central mix plant. The presence or absence of any visible emissions from the fabric filter exhaust, and/or the central mix 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 semi-annual deviation (excursion) reports that identify all exceedances of the rolling, 12 month production rate limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative production levels. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).
2. The permittee shall also submit semi-annual reports which (a) identify all days during which any visible emissions were observed from the central mix plant and silo fabric filter exhaust and (b) describe the corrective actions taken to eliminate the visible emissions.

The reports shall be submitted on:

- a. July 15 and shall cover the period from January 1 until June 30 for each calendar year.
- b. January 15 and shall cover the period from July 1 until December 31 for each calendar year.

If no visible emissions are observed during a given period, the permittee shall submit a report which states that no visible emissions were observed during that period. (These reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Notice of Intent to Relocate

Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. the portable emissions unit is operating pursuant to a currently effective permit to install, permit to operate or registration;
- c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Southeast District Office (SEDO) and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and,

d. in the SEDO's and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- a. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- b. the portable emissions unit is equipped with best available technology;
- c. the portable emission unit owner has identified the proposed site to Ohio EPA;
- d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;

e. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;

f. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to the proposed site; and,

g. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

In order for the SEDO and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the SEDO (2195 Front Street, Logan, Ohio 43138) and the appropriate office having jurisdiction over the new site. Upon receipt of the notice, the SEDO and/or the appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

The permittee should be advised that when portable emission units are located at a stationary source or at a source comprised of portable emission units, potential emissions from the portable emission units are included in the facility potential to emit calculations for Title V and PSD applicability.

The permittee shall include a potential to emit analysis of facility-wide emissions (including the portable sources) for the proposed relocation in the "Notice of Intent to Relocate".

E. Testing Requirements

1. Compliance with the emission limitations identified in A.1. above shall be determined in accordance with the following methods:
Emission Limitation:

The fabric filter 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 emissions from the exhaust stack.

Applicable Compliance Method:

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

Compliance with the no visible emission limit from the exhaust of the fabric filter shall be based upon the monitoring / recordkeeping requirements outlined in Section A.II.C.2 noted above.

Emission Limitation:

Total particulate emissions shall not exceed 2.51 tons in any 12-month period from the concrete plant and silo combined.

Compliance Determination:

Compliance with the tons per year 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 (issued 10/01). Average material composition of concrete from AP 42 is: Aggregate 37 %, Sand 37 %, Cement 13 %, Cement Supplement 2% and approximately 20 gallons of water.

$0.030 \text{ gr/dscf} \times 13,000 \text{ acfm} \times 60 \text{ minutes/hr} \times 1 \text{ lb/7000} = 3.34 \text{ lbs/hr} \times 1 \text{ hr/800 tons} \times 0.0005 \text{ t/lb} = 2.51 \text{ tons per year}$

Total allowable emissions - 2.51 tons per year

Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20 % opacity as a three minute average.

Compliance Method:

Compliance with the above visible fugitive emission limit shall be determined using Test Method 9, if required.

F. Miscellaneous Requirements

1. The terms and conditions of this permit does not include roadways and parking areas. A permit to install may need to be obtained, by the applicant, prior to the relocation of this portable source.