

Facility ID: 1409970967 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: 1409970967 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>
P901- 360 TPH Portable Concrete Batch Plant Modification	OAC rule 3745-31-05(A)(3) PTI 14-05573	Particulate emissions (PE) shall not exceed 4.1 pounds per hour and 1.14 tons per year (TPY).
		Particulate emissions ten microns and less (PM-10) shall not exceed 2.0 pounds per hour and 0.54 tons per year (TPY).
Weigh hopper loading	OAC rule 3745-17-07(B)(1)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1). See term and condition A.2.c.
	OAC rule 3745-31-05(A)(3) PTI 14-05573	Particulate emissions (PE) shall not exceed 1.5 pounds per hour and 0.41 ton per year (TPY).
		Particulate emissions ten microns and less in diameter (PM-10) shall not exceed 0.7 pound per hour and 0.19 ton per year (TPY).  See terms and conditions A.2.b and A.2.c.
Cement and supplement silos with fabric filter	OAC rule 3745-17-07(A)(1)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1). The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-11(B)(1)	See term and condition A.2.c.
	OAC rule 3745-31-05(A)(3) PTI 14-05573	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). PE shall not exceed 0.3 pound per hour and 0.07 ton per year (TPY).
		PM-10 shall not exceed 0.13 pound per hour and 0.04 ton per year (TPY).  See terms and conditions A.2.b and A.2.d.
Transit mix truck loading w/enclosure	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
Transit mix truck loading w/enclosure	OAC rule 3745-31-05(A)(3) PTI 14-05573	Particulate emissions (PE) shall not exceed 8.9 lbs/hr and 2.48 TPY.

Particulate emissions 10 microns and less (PM10) shall not exceed 2.2 lbs/hr and 0.61 TPY.

See terms and conditions A.2.b and A.2.d.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1).

OAC rule 3745-17-07(B)(1)

See term and condition A.2.c.

OAC rule 3745-17-07(A)(1)

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)(1)

The emission limitation specified by 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 sand and aggregate loaded into the elevated bins shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the conveyor and transfer point to bins. The silo shall be adequately enclosed and vented to a fabric filter. The enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point of capture.

All fabric filters shall achieve an outlet particulate emissions rate of 0.030 gr/dscf or shall have no visible particulate emissions from the exhaust stack.

If complying with the grains/dscf emissions limit then the visible particulate emissions limit from any stack shall not exceed 20% opacity as a six-minute average.

Fugitive visible particulate emissions from any operation associated with emissions unit P901 shall not exceed twenty percent opacity as a three-minute average.

The hourly emissions limitations are based upon the emissions unit's Potential to Emit. Therefore, no hourly records are required to demonstrate compliance with these limits.

Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the maintenance of the sand and aggregate in a moist condition, the use of enclosures and a fabric filter on the truck loading and cement silos, compliance with the operational restriction and the production limitation and compliance with the visible and mass emissions limitations.

**B. Operational Restrictions**

- 1. The pressure drop across the central fabric filter shall be maintained within the range of 1-15 inches of water, or as specified as the normal operating range by the manufacturer, whichever is more stringent, while the emissions unit is in operation.
- 2. The maximum concrete production rate for this emissions unit shall not exceed 200,000 tons per year.

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

- 1. The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the central fabric filter while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the central fabric filter on a daily basis.
- 2. The permittee shall maintain monthly records of the amount of concrete produced in this emissions unit.

**D. Reporting Requirements**

- 1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of all periods of time during which the pressure drop across the central fabric filter did not comply with the allowable range specified in term and condition B.1. A copy of such record [pressure drop deviation (excursion report)] shall be sent to the Director within 45 days after the exceedance occurs.
- 2. The permittee shall submit annual reports that identify the annual production rate in tons per year for this emissions unit. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

- 1. Emissions limitations:
    - The PM emissions from sand/aggregate transfer to elevated bins shall not exceed 4.1 lbs/hr and 1.14 TPY.
    - The PM10 emissions from sand/aggregate transfer to elevated bins shall not exceed 2.0 lbs/hr and 0.54 TPY.
    - The PM emissions from weigh hopper loading shall not exceed 1.5 lbs/hr and 0.41 TPY.
    - The PM10 emissions from weigh hopper loading shall not exceed 0.7 lb/hr and 0.19 TPY.
    - The PM emissions from cement and supplement silos with fabric filter shall not exceed 0.3 lb/hr and 0.07 TPY.
    - The PM10 emissions from cement and supplement silos with fabric filter shall not exceed 0.13 lb/hr and 0.04 TPY.

Applicable Compliance Methods:

Compliance with the particulate emissions limitations in term and condition A.1 shall be determined in a calculation using the applicable emission factors from AP-42, Fifth Edition, Chapter 11.12, Concrete Batching (October 2001), multiplied by the actual process rate in tons material per hour and tons material per year.
2. Emissions limitations:

The PM emissions from transit mix truck loading with enclosure shall not exceed 8.9 lbs/hr and 2.48 TPY.

The PM10 emissions from transit mix truck loading with enclosure shall not exceed 2.2 lbs/hr and 0.61 TPY.  
Applicable Compliance Method:

Compliance with the particulate emissions limitations in term and condition A.1. shall be determined in a calculation using the applicable uncontrolled emission factors from AP-42, Fifth Edition, Chapter 11.12, Concrete Batching (October 2001), multiplied by the actual process rate in tons material per hour and tons material per year and by 29 percent, which accounts for the overall control efficiency due to control with a fabric filter.

3. Emissions Limitations:

Particulate emissions from the fabric filter outlet stack associated with emissions unit P901 shall achieve an outlet particulate emissions rate of 0.030 gr/dscf or have no visible emissions.

If complying with the grains/dscf emissions limit, then the visible particulate emissions limit from any stack shall not exceed 20% opacity as a six-minute average.

Applicable Compliance Method:

If required, compliance with the mass emission limitation shall be determined in accordance with Test Methods 1-5 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, 1996.

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

4. Emissions Limitations:

Fugitive visible particulate emissions from any operation associated with emissions unit P901 shall not exceed twenty percent opacity as a three-minute average, except as specified by rule.

Applicable Compliance Method:

Compliance 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 applicable modifications listed in paragraphs (B)(3)(a) through (B)(3)(e) of OAC rule 3745-17-03.

5. Operational limitation:

The pressure drop across each fabric filter shall be maintained within the range of 1-15 inches of water, or as specified as the normal operating range by the manufacturer, whichever is more stringent, while the emissions unit is in operation.

Applicable Compliance Method:

Compliance with the operational limitation in term and condition B.1. shall be determined by the monitoring and records maintained pursuant to term and condition C.1.

6. Production limitation:

The maximum allowable concrete production rate shall not exceed 200,000 tons per year.

Applicable Compliance Method:

Compliance with the production limitation in term and condition B.2. shall be determined by the records maintained pursuant to term and condition C.2.

F. **Miscellaneous Requirements**

1. Notice to Relocate a Portable or Mobile Source

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 (PTO) or registration status;

c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the Department of Environmental Services 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 Department of Environmental Services 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:

e. The portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;

- f. The portable emissions unit is equipped with best available technology;
- g. The portable emission unit owner has identified the proposed site to the Ohio EPA;
- h. The Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- i. A public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
- j. 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 this proposed site; and
- k. The portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to F.1. above, shall be valid for no longer than three years and are subject to renewal.

In order for the Department of Environmental Services 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 Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive the Ohio EPA's approval prior to relocation of the emissions unit may result in fines and civil penalties.