

Facility ID: 0536020128 Issuance type: Final State Permit To Operate

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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: 0536020128 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>
P902 - Portable Transit-mix Concrete Batch Plant	OAC rule 3745-31-05(A)(3) and PTI 05- 11700	The overall particulate emissions (PE) emissions shall not exceed 17.2 lbs/hr, nor 3.3 tons/yr. Visible emissions from any stack serving this emissions unit shall not exceed 20% opacity, as a 6 minute average. Fugitive visible particulate emissions from any function or operation of this emissions unit shall not exceed 20% opacity, as a 3 minute average This emissions unit shall be employ control measures and be equipped with control devices sufficiently to minimize or eliminate particulate, fugitive, and visible emissions See Sections A.2.b., A.2.c., and A.2.d
	OAC rules 3745-17-11(B)(1) and (2)	The requirements established pursuant to these rules are less stringent than the requirements of OAC rule 3745 31 05(A)(3).
	OAC rule 3745-17-07(A)	The requirements established pursuant to these rules are less stringent than the requirements of OAC rule 3745 31 05(A)(3)
	OAC rule 3745-17-07(B) and 3745-17-08(B)	See Section A.2.a.

**2. Additional Terms and Conditions**

- (a) This emissions unit is subject to the requirements of OAC Rule 3745-17-07(B) and 3745-17-08 (B) when located in a "Appendix A" area as identified in OAC rule 3745-17-08. The emission limitations and control requirements established by OAC rules 3745-17-07 (B) and 3745-17-08 (B) are equivalent or less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3). "Best Available Technology" (BAT) control requirements for emissions unit P901 has been determined to be the following:
  - i. Use of a baghouse for weigh hopper loading of cement, sand and aggregate. The baghouse shall achieve a 97.0% removal efficiency (i.e. 99% capture, 98% control).
  - ii. Best available Control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See 2.A.c)  
The permittee shall employ best available control measures to minimize or eliminate visible emissions of fugitive dust. In accordance with the permittee's permit application, the permittee has committed to perform the following control measures(s) to ensure compliance:
    - i. Silo Vents:  
use of baghouses with 98.0% overall control efficiency
    - ii. Sand and Aggregate Transfer Bins:  
minimize drop heights

- iii. Concrete Truck Loading/Mixing:  
use of charging boot

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05 (A)(3).

**B. Operational Restrictions**

1. The maximum concrete production for the concrete batch plant shall not exceed 50,000 cubic yards per year.
2. This facility shall submit a "Notice of Intent to Relocate a Portable or Mobile Source" form at least 30 days prior to any planned relocation of this source, in accordance with OAC rule 3745-31-03(A)(1)(p). Approval of the planned relocation must be obtained from SWDO prior to the relocation. The "Notice of Intent to Relocate a Portable or Mobile Source" shall include all associated emission units such as Roadways/Parking Areas and Storage Piles.

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

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse serving the weigh hopper while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall monitor and record the following weekly information while the emissions unit is operating:
  - a. the date of the record was recorded;
  - b. the pressure drop across the baghouse, in inches of water; and
  - c. what maintenance steps were taken, if pressure reading is below 0.5 or above 5 inches of wa
2. The permittee shall collect and record the following information each month:
  - a. The total number of cubic yards of concrete produced per month
  - b. The annual, year to date number of cubic yards of concrete produced (summation of C.2.a, for each calendar month to date from January to December).
3. 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) :Sand and AggregateTransfer to Bins minimum inspection frequency:daily
4. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
5. 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 4.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.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
 

These deviation reports shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.
2. The permittee shall submit annual deviation (excursion) reports which identify any exceedances in the maximum concrete production of 50,000 cubic yards per year.
 

These deviation reports shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.
3. 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.

These deviation reports shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.

**E. Testing Requirements**

1. Compliance with the emission limitations in Section A.1. of the terms and conditions of this permit shall be determined in accordance with the following methods:

Emission Limitation -  
17.2 lb PE/hr

Applicable Compliance Method -

The permittee shall demonstrate compliance with this emission limitation by the following method:

- i. Calculate emissions from cement unloading to elevated storage bins by multiplying the maximum hourly cement loading rate (50 tons) by the emission factor of 0.27 lb/ton (AP-42, Table 11.12-2, 10/86);
- ii. Calculate emissions from the transfer of sand and aggregate to elevated bins by multiplying the maximum hourly sand and aggregate loading rate (130 cubic yards) by the emission factor 0.05 lb/cubic yard (AP-42, Table 11.12-2, 10/86);
- iii. Calculate emissions from the weigh hopper loading by multiplying the maximum hourly loading rate rate (130 cubic yards) by the emission factor 0.04 lb/cubic yard (AP-42, Table 11.12-2, 10/86);
- iv. Calculate emissions from the truck loading by multiplying the maximum hourly loading rate (130 cubic yards) by the emission factor 0.04 lb/cubic yard (AP-42, Table 11.12-2, 10/86); and
- v. Sum a., b., c., and d.

If required testing shall be performed for stack emissions in accordance with 40 CFR Part 60 Appendix A Method-5.

Emission Limitation -  
3.3 ton PE/yr

Applicable Compliance Method -

The permittee shall demonstrate compliance with this emission limitation by the following method:

- i. Calculate emissions from cement unloading to elevated storage bins by multiplying the maximum annual cement loading rate (9500 tons) by the emission factor of 0.27 lb/ton (AP-42, Table 11.12-2, 10/86);
- ii. Calculate emissions from the transfer of sand and aggregate to elevated bins by multiplying the maximum annual loading rate (50,000 cubic yards) by the emission factor 0.05 lb/cubic yard (AP-42, Table 11.12-2, 10/86);
- iii. Calculate emissions from the weigh hopper loading by multiplying the maximum annual loading rate (50,000 cubic yards) by the emission factor 0.04 lb/cubic yard (AP-42, Table 11.12-2, 10/86);
- iv. Calculate emissions from the truck loading by multiplying the maximum annual loading rate (50,000 cubic yards) by the emission factor 0.04 lb/cubic yard (AP-42, Table 11.12-2, 10/86); and
- v. Sum a., b., c., and d.

The permittee shall demonstrate compliance by the monitoring and recordkeeping of the concrete production in Section C.2.

Emission Limitation -

Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average

Applicable Compliance Method -

40 CFR Part 60, Appendix A-Method 9

Emission Limitation -

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

Applicable Compliance Method -

40 CFR Part 60, Appendix A-Method 9

**F. Miscellaneous Requirements**

1. None