

Facility ID: 1413020182 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: 1413020182 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 - 400 TPH Concrete Batch Plant - Modification - Transfer of sand and aggregate to elevated bins	OAC rule 3745-31-05(A)(3) (PTI 14-05589)	Particulate Emissions (PE) shall not exceed 4.55 pounds per hour and 1.14 TPY. Particulate Emissions 10 microns and less in diameter (PM10) shall not exceed 2.17pounds per hour and 0.54 TPY.
Weigh hopper loading of cement, sand and aggregate vented to the cement silo	OAC rule 3745-17-07(B)(11)(d) OAC rule 3745-31-05(A)(3) (PTI 14-05589)	See terms and conditions A.2.a, A.2.c and A.2.d. Exempt Particulate Emissions (PE) shall not exceed 1.63 pounds per hour and 0.41 TPY. Particulate Emissions 10 microns and less in diameter (PM10) shall not exceed 0.77 pound per hour and 0.19 TPY.
Cement silo with fabric filter	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-07(B)(11)(d) OAC rule 3745-17-11(B)(1) OAC rule 3745-31-05(A)(3) (PTI 14-05589)	See terms and conditions A.2.b through A.2.d. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). Exempt The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). Particulate Emissions (PE) shall not exceed 0.28 pound per hour and 0.07 TPY. Particulate Emissions 10 microns and less in diameter (PM10) shall not exceed 0.15 pound per hour and 0.04 TPY.
Transit mix truck loading w/ enclosure	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(1) OAC rule 3745-31-05(A)(3) (PTI 14-05589)	See terms and conditions A.2.b through A.2.d. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). Particulate Emissions (PE) shall not exceed 9.91 pounds per hour and 2.48 TPY. Particulate Emissions 10 microns and less in diameter (PM10) shall not exceed 2.44 pounds per hour and

0.61 TPY.

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

See terms and conditions A.2.b through A.2.d.
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)(11)(d)
OAC rule 3745-17-11(B)(1)

Exempt
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 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 each fabric filter shall be maintained within the range of 6-12 inches of water 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 each 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 each 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 each fabric filter did not comply with the allowable range specified in term 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 any exceedances of the annual production rate limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

- 1. Compliance with the emission and production limitations in Section A and B of these terms and conditions shall be determined in accordance with the following methods:
Emissions Limitations:

4.55 lbs/hr; 1.14 TPY PM Sand/aggregate transfer to elevated bins
2.17 lbs/hr; 0.54 TPY PM-10 Sand/aggregate transfer to elevated bins
1.63 lbs/hr; 0.41 TPY PM Cement, sand and aggregate weigh hopper loading vented to silo with fabric filter
0.77 lb/hr; 0.19 TPY PM-10 Cement, sand and aggregate weigh hopper loading vented to silo with fabric filter
0.28 lb/hr; 0.07 TPY PM Unloading to cement silos with fabric filter
0.15 lb/hr; 0.04 TPY PM-10 Unloading to cement silos with fabric filter

Applicable Compliance Method:

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.
Emissions Limitations:

9.91 lbs/hr; 2.48 TPY PM Transit mix truck loading w/ fabric filter
2.44 lbs/hr; 0.61 TPY PM-10 Transit mix truck loading w/ fabric filter

Applicable Compliance Method:

Compliance with the particulate emissions limitations in term 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.

Emissions Limitations:

Particulate emissions from the fabric filter outlet stack associated with 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:

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 with the visible emission 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"), as such Appendix existed on July 1, 1996.

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, 1996.

Operational Limitation:

The pressure drop across each fabric filter shall be maintained within the range of 6-12 inches of water 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.

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. None