

Facility ID: 1413080179 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: 1413080179 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 - Concrete batch plant - Unloading to cement/flyash silos with fabric filter - Modification	OAC rule 3745-31-05(A)(3) 14-02023	Particulate emissions (PE) shall not exceed 0.04 pounds per hour (lb/hr) and 0.01 tons per year (TPY). Particulate matter emissions 10 microns and less in diameter (PM10) shall not exceed 0.01 lb/hr and 0.004 TPY.
	OAC rule 3745-17-07(A)(1)	See term and conditions A.2.a and A.2.b. 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).
P901 - Cement, flyash, sand and aggregate weigh hopper loading with fabric filter	OAC rule 3745-31-05(A)(3) 14-02023	PM emissions shall not exceed 1.2 lb/hr and 0.26 TPY. PM10 shall not exceed 0.6 lb/hr and 0.12 TPY.
	OAC rule 3745-17-07(A)(1)	See term and conditions A.2.a, A.2.b and A.2.d.
	OAC rule 3745-17-07(B)(11)(d)	See term and condition A.2.f. 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)	Exempt
P901 - Transit mix truck loading w/ fabric filter	OAC rule 3745-31-05(A)(3) 14-02023	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). Fugitive PE shall not exceed 44.2 lbs/hr and 17.70 TPY. Fugitive PM10 shall not exceed 4.4 lbs/hr and 1.74 TPY. Stack PE shall not exceed 10.8 lb/hr and 4.32 TPY. Stack PM10 shall not exceed 1.1 lb/hr and 0.43 TPY.
	OAC rule 3745-17-07(A)(1)	See term and conditions A.2.a, A.2.d and A.2.g.
	OAC rule 3745-17-07(B)(11)(d)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). See term and condition A.2.c.
	OAC rule 3745-17-11(B)	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).

P901 - Sand/aggregate transfer to elevated bins	OAC rule 3745-31-05(A)(3) 14-02023	PE shall not exceed 2.3 lbs/hr and 0.72 TPY. PM10 shall not exceed 1.1 lbs/hr and 0.35 TPY.
		See term and conditions A.2.a and A.2.d.
	OAC rule 3745-17-07(B)(11)(d)	Exempt

2. **Additional Terms and Conditions**

- (a) The hourly emission limitation is based upon the emissions unit's potential to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with the limit.
Visible particulate emission from the following stacks associated with emissions unit P901 shall not exceed ten percent opacity as a six-minute average, except as specified by rule:

Unloading to cement/flyash silos with fabric filter; and Cement, flyash, sand and aggregate weigh hopper loading with fabric filter.

Visible particulate emission from the following stacks associated with emissions unit P901 shall not exceed twenty percent opacity as a six-minute average, except as specified by rule:

Transit mix truck loading w/ fabric filter

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.

Sand and aggregate shall be maintained in a moist condition to minimize or eliminate visible emissions of fugitive dust.

The cement/flyash weigh hopper shall be partially enclosed and vented to a fabric filter with a 99% control efficiency.

The transit mix truck loading station shall be partially enclosed and vented to a fabric filter with a 99% control efficiency.

Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by partial enclosure of the transit mix truck loading station and sand and aggregate weigh hopper; the use of fabric filters on the unloading to the cement/flyash silos, weigh hopper loading and the transit mix truck loading; and visible emission, emission rate and production limitations.

B. Operational Restrictions

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

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain monthly records of the amount of concrete produced in this emissions unit, in tons.

D. Reporting Requirements

- 1. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services (HCDOES) which specify the annual concrete production from emissions unit P901 for the previous calendar year. 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:

a. Emissions Limitations:

PE shall not exceed 0.04 lb/hr and 0.01 TPY from the unloading to cement/flyash silos with fabric filter.

PM10 shall not exceed 0.01 lb/hr and 0.004 TPY from the unloading to cement/flyash silos with fabric filter.

PM emissions shall not exceed 1.2 lb/hr and 0.26 TPY from the cement, flyash, sand and aggregate weigh hopper loading with fabric filter.

PM10 shall not exceed 0.6 lb/hr and 0.12 TPY from the cement, flyash, sand and aggregate weigh hopper loading with fabric filter.

PE shall not exceed 2.3 lbs/hr and 0.72 TPY from the sand/aggregate transfer to elevated bins.

PM10 shall not exceed 1.1 lbs/hr and 0.35 TPY from the sand/aggregate transfer to elevated bins.

Applicable Compliance Method:

Compliance with the particulate emissions limitations in term 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.

b. Emissions Limitations

Fugitive PE shall not exceed 44.2 lbs/hr and 17.70 TPY from the transit mix truck loading w/ fabric filter.

Fugitive PM10 shall not exceed 4.4 lbs/hr and 1.74 TPY from the transit mix truck loading w/ fabric filter.

Stack PE shall not exceed 10.8 lb/hr and 4.32 TPY from the transit mix truck loading w/ fabric filter.

Stack PM10 shall not exceed 1.1 lb/hr and 0.43 TPY from the 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 accounting for a 99 percent control efficiency on the partition of captured emissions due to control with a fabric filter.

c. Emissions Limitations:

Visible particulate emission from the following stacks associated with P901 shall not exceed ten percent opacity as a six-minute average, except as specified by rule:

Unloading to cement/flyash silos with fabric filter; and Cement, flyash, sand and aggregate weigh hopper loading with fabric filter.

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.

d. Emissions Limitations:

Visible particulate emission from the following stacks associated with P901 shall not exceed twenty percent opacity as a six-minute average, except as specified by rule:

Transit mix truck loading w/ fabric filter.

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.

e. Emissions Limitations:

Fugitive visible particulate emissions from any operation associated with 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.

f. 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.1. shall be determined by the records maintained pursuant to term and condition C.1.

F. **Miscellaneous Requirements**

1. None