

Facility ID: 1409010914 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: 1409010914 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>
Transit Ready Mix Concrete Batch Plant - P901 Cement, flyash, sand and aggregate weigh hopper loading w/fabric filter	(PTI14-04892 modified 2/26/08)	
	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 0.37 lb/hr or 0.31 ton per year (TPY) from the fabric filter.
		Particulate emissions with a diameter of 10 microns and less (PM10) shall not exceed 0.18 lb/hr or 0.14 TPY from the fabric filter.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) & (B)(1) and OAC rule 3745-17-08(B)(1)&(3). See term A.2.b. See term A.2.c. PE shall not exceed 0.030 grain of PM/dscf from the fabric filter outlet.
Transit mix truck loading w/fabric filter	OAC rule 3745-17-11(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 3745-31-05(A)(3)	PE shall not exceed 43.3 lbs/hr or 36.1 TPY from the fabric filter.
		PM10 shall not exceed 12.1 lbs/hr or 10.08 TPY from the fabric filter.
		See term B.1. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) &(B)(1) and OAC rule 3745-17-08(B)(1)&(3). See term A.2.b. See term A.2.c. PE shall not exceed 0.030 grain of PE/dscf from the fabric filter outlet or have no visible emissions from the stack.
Sand/aggregate transfer to elevated bins	OAC rule 3745-17-11(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 3745-31-05(A)(3)	PE shall not exceed 0.77 lb/hr or 0.64 TPY.

PM10 shall not exceed 0.37 lb/hr or 0.31 TPY from the fabric filter.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1). See term A.2.c.

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 8.69 lbs/hr or 7.24 TPY from the fabric filter.

OAC rule 3745-17-07(B)(1)
OAC rule 3745-17-08(B)

Unloading to cement / flyash silos w/fabric filter OAC rule 3745-31-05(A)(3)

PM10 shall not exceed 3.52 lbs/hr or 2.92 TPY from the fabric filter.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). See term 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 3745-17-07(A)(1)
OAC rule 3745-17-11(B)

2. Additional Terms and Conditions

- (a) Sand and aggregate shall be maintained in a moist condition in order to minimize or eliminate visible emissions of fugitive dust. Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except as specified by rule. Visible particulate emissions of fugitive dust shall not exceed 20% opacity, as a three-minute average. The cement/flyash/sand and aggregate weigh hopper shall be partially enclosed and vented to a fabric filter with at least a 95% control efficiency for PE and PM10. The transit mix truck loading station shall be partially enclosed and vented to a fabric filter with at least a 95% control efficiency for PE and PM10. The sand/aggregate weigh hopper shall be partially enclosed in order to minimize or eliminate visible emissions of fugitive dust. The hourly emission limitations outlined above 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 partial enclosure of the transit mix truck loading station and sand and aggregate weigh hopper, the use of a fabric filter, visible emission limitations and production limits.

B. Operational Restrictions

- 1. The maximum concrete production rate for this emissions unit shall not exceed 500,000 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.

D. Reporting Requirements

- 1. The permittee shall submit annual reports to Hamilton County Department of Environmental Services that identify the annual production rate in tons per year for this emission unit. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

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

- a. Emission Limitations
 - 0.77 lb/hr; 0.64 TPY PE Sand/aggregate transfer to elevated bins
 - 0.37 lb/hr; 0.31 TPY PM10 Sand/aggregate transfer to elevated bins
 - 0.37 lb/hr; 0.31 TPY PE Weigh hopper loading
 - 0.18 lb/hr; 0.14 TPY PM10 Weigh hopper loading
 - 8.69 lbs/hr; 7.24 TPY PE Unloading to silos with fabric filter
 - 3.52 lbs/hr; 2.92 TPY PM10 Unloading to silos with fabric filter
 - 43.3 lbs/hr; 36.1 TPY PE Transit mix loading with fabric filter
 - 12.1 lbs/hr; 10.08 TPY PM10 Transit mix loading with fabric filter

Applicable Compliance Method:

Compliance with the particulate emission 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 (June 2006), multiplied by the actual process rate in tons material per hour and tons material per year.

b. Emissions Limitation

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

If complying with the grains/dscf emission limitation, then the visible particulate emission limitation 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")

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, 2002.

c. Emission Limitation:

Fugitive visible particulate emissions from any operation associated with this emissions unit 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.

d. Emission Limitation:

Fugitive visible particulate emissions from any operation associated with this emissions unit 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").

e. Production limitation:

The maximum allowable concrete production rate shall not exceed 500,000 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