

Facility ID: 1483130384 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: 1483130384 Emissions Unit ID: F001 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>
300 TPH Concrete batch plant	OAC rule 3745-31-05 See F. OAC rule 3745-17-11(B) See F.	Particulate emissions from the equipment described in this permit shall not exceed 3.42 lbs/hr and 0.48 TPY. Particulate emission limit is less stringent than the BAT limit above.
Transfer of sand, aggregate, and flyash to elevated bins	OAC rule 3745-17-07(B) See F. OAC rule 3745-17-08(B) See F.	The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average, except as specified by rule. The drop height of the front-end bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the conveyor loading area.
Cement silo with fabric filter	OAC rule 3745-17-08(B)(3) See F.	The sand, aggregate, and flyash 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 fabric filter. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust. The fabric filter shall achieve an outlet emission rate of 0.030 gr/dscf or no visible particulate emissions from the fabric filter exhaust stack.

2. **Additional Terms and Conditions**

None

B. Operational Restrictions

1. The maximum annual concrete production rate for the concrete batch plant shall not exceed 82,000 tons per year for all components mixed.
2. The maximum annual usage rate of sand and aggregate materials in the concrete batch plant shall not exceed 64,370 tons per year. The maximum annual usage rate of cement in the concrete batch plant shall not exceed 10,250 tons per year.
3. This facility shall pneumatically transfer the cement and flyash to the storage silos. The pneumatic system shall be adequately enclosed so as to eliminate at all times visible emissions of fugitive dust. Any visible emissions of cement or flyash emanating from the delivery vehicle shall be cause for the immediate halt of the unloading process and the refusal of the cement/flyash load until the situation is corrected.

C. Monitoring and/or Record Keeping Requirements

1. This facility shall maintain monthly records of the amount of sand, aggregate, and cement used and the amount of concrete produced in the batch plant, in tons.

D. Reporting Requirements

1. This facility shall notify the Hamilton County Department of Environmental Services in writing of any monthly record which shows an exceedance of the usage limitations in section B. of this permit. The report shall include a copy of each such record and shall be submitted within 30 days of the exceedance.

E. Testing Requirements

1. Emission limitation-
3.42 lbs/hr of particulate

Applicable Compliance Method-
Compliance shall be determined by totalling the following products:
 - a. Sand and aggregate transfer to elevated bin:

The maximum hourly production rate of 300 tons/hr is multiplied by the AP-42 emission factor, 0.029 lb/ton. The resulting uncontrolled emission rate, 8.7 lbs/hr, is then multiplied by a moisture emission control factor of 70% (1 - .70), resulting in a controlled emission rate of 2.61 lbs/hr.
 - b. Cement unloading to elevated silo (pneumatic):

The maximum hourly production rate of 300 tons/hr is multiplied by the AP-42 emission factor, 0.27 lb/ton. The resulting uncontrolled emission rate, 81 lbs/hr, is then multiplied by a fabric filter control factor of 99% (1 - .99), resulting in a controlled emission rate of 0.81 lb/hr.
2. Compliance with OAC rule 3745-17-07(B) shall be demonstrated by the test method and procedures in OAC rule 3745-17-03(B)(3).
3. Compliance with OAC rule 3745-17-08(B)(3) shall be demonstrated by one of the following:

Method 5 of 40 CFR Part 60, Appendix A shall be used to demonstrate a 0.030 gr/dscf outlet emission rate from the fabric filter exhaust stack.

Method 9 of 40 CFR Part 60, Appendix A shall be used to demonstrate no visible particulate emissions from the fabric filter exhaust stack.
4. Compliance with the usage limitations shall be demonstrated by record keeping requirement in section C.1. of this permit.

F. Miscellaneous Requirements

1. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install number 14-4170 as issued on 9-5-96:

Part II, Special Terms and Conditions: A-E.