

Facility ID: 1431073842 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: 1431073842 Emissions Unit ID: F004 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>                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F004 - Weigh hopper loading of cement, sand, and aggregate w/ fabric filter, and transit mix loading - Modification | OAC rule 3745-31-05(A)(3)<br>(PTI 14-05673) | Particulate emissions (PE) from this emission unit shall not exceed 7.3 pounds PE per hour and 4.94 tons PE per year.<br><br>Particulate matter emissions 10 microns and less (PM10) shall not exceed 2.0 lbs per hour and 1.34 tons per year.<br><br>See terms and conditions A.2.d through A.2.f, B.1. and B.2.<br><br>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07 and 3745-17-08(B). |
|                                                                                                                     | OAC rule 3745-17-07(A)(1)                   | See term and condition A.2.b.                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                     | OAC rule 3745-17-07(B)(1)                   | See term and condition A.2.c.                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                     | OAC rule 3745-17-08(B)                      | See term and condition A.2.g.                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                     | 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).                                                                                                                                                                                                                                                                                                |

**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 F004 shall not exceed twenty percent opacity as a six-minute average, except as specified by rule:
  - Transit mix truck loading w/ fabric filter.
  - Cement, sand and aggregate weigh hopper loading w/ fabric filter.
 Fugitive visible particulate emissions from any operation associated with emissions unit F004 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 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. All fabric filters shall achieve an outlet particulate emissions rate of 0.030 gr/dscf. 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 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 150,000 tons per year.

2. The pressure drop across each fabric filter shall be maintained within the range of 2-6 inches of water, or as specified as the normal operating range by the manufacturer, whichever is more stringent, while the emissions unit is in operation.
- C. Monitoring and/or Record Keeping Requirements**
1. The facility shall maintain the following monthly records:
    - a. the total amount of concrete produced by this emissions unit, in tons.
  2. 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.
- 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 and condition B.2. A copy of such record [pressure drop deviation (excursion report)] shall be sent to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
  2. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services that identify the annual production rate in tons per year for this emissions unit. 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:**

Particulate emissions (PE) from this emission unit shall not exceed 7.3 pounds PE per hour and 4.94 tons PE per year.

Particulate matter emissions 10 microns and less (PM10) shall not exceed 2.0 lbs per hour and 1.34 tons per year.

**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.

**Emissions Limitations:**

Visible particulate emission from the following stacks associated with emissions unit F004 shall not exceed twenty percent opacity as a six-minute average, except as specified by rule:

Transit mix truck loading w/ fabric filter.  
Cement, 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, 2002.

**Emissions Limitations:**

Fugitive visible particulate emissions from any operation associated with emissions unit F004 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.

**Emissions Limitation:**

Particulate emissions from each fabric filter outlet stack associated with emissions unit F004 shall achieve an outlet particulate emissions rate of 0.030 gr/dscf.

**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"), as such Appendix existed on July 1, 2002.

**Operational Limitation:**

The pressure drop across each fabric filter shall be maintained within the range of 2-6 inches of water, or as specified as the normal operating range by the manufacturer, whichever is more stringent, while the emissions unit is in operation.

**Applicable Compliance Method:**

Compliance with the operational limitation in term and condition B.2. shall be determined by the monitoring and records maintained pursuant to term and condition C.2.

**Production Limitation:**

The maximum allowable concrete production rate shall not exceed 150,000 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