

Facility ID: 1431071187 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: 1431071187 Emissions Unit ID: F001 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

**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>
F001 - Truck unloading with enclosure and baghouse.(Modification)	OAC rule 3745-31-05(A)(3) (PTI 14-05426)	Particulate Emissions (PE) shall not exceed 11.53 lbs/hr* and 4.87 TPY*.  Particulate matter 10 microns and less in diameter (PM10) emissions shall not exceed 3.95 lbs/hr* and 1.67 TPY*.  * The hourly emission limitations are based on the emission unit's potential to emit, therefore no hourly records are required to demonstrate compliance with these limitations.  See terms A.2.c, A.2.d and A.2.e.
	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-08(B)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). See term A.2.b. Exempt per OAC rule 3745-17-08(A)(3)(a). Current capacity is 1,708,076 bushels per year. If this capacity exceeds capacity in OAC rule 3745-17-08, then the permittee shall contact field office within 30 days of occurrence.
	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) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of a three sided enclosure vented to a fabric filter with a 95% control efficiency, the use of mineral oil, visible emission limitations and totally enclosed conveyors vented to a fabric filter.  
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.  
Fugitive visible particulate emissions shall not exceed 20 percent opacity as a three- minute average, except as specified by rule.  
All truck unloading shall be performed in a three-sided enclosure vented to a baghouse.  
A mineral oil spray shall be used at the transfer points of the belt conveyors to the bucket elevators.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 2.0 to 3.0 inches of water while the emissions unit is in operation.

**C. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated,

operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual (s). The permittee shall record the pressure drop across the baghouse on a daily basis.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in term B.1.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

**E. Testing Requirements**

1. Compliance with visible particulate emission limitations shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. Compliance with the pressure drop limit in term B.1 shall be determined by the records maintained pursuant to term C.1.
3. The hourly particulate emission limitation was determined by the following equation:

$$[A \times B \times (100-C)] + [D \times E \times (100-F)] = \text{lbs/hr PE}$$

where:

A = amount of grain received in tons per hour = 1200

B = AP-42 emission factor\* for straight truck receiving in pounds PE per ton of grain = 0.18

C = control efficiency of baghouse + 3-sided enclosure = 95%

D = amount of grain received in tons per hour = 1200

E = AP-42 emission factor\* for headhouse and grain handling in pounds PE per ton of grain = 0.061

F = control efficiency of total enclosure = 99%

\* emission factors are from the U.S.EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 9.9 - Table 9.9.1-1 (3/03).

4. The hourly PM10 limitation was determined by the following equation:

$$[A \times B \times (100-C)] + [D \times E \times (100-F)] = \text{lbs/hr PM10}$$

where:

A = amount of grain received in tons per hour = 1200

B = AP-42 emission factor\* for straight truck receiving in pounds PM10 per ton of grain = 0.059

C = control efficiency of baghouse + 3-sided enclosure = 95%

D = amount of grain received in tons per hour = 1200

E = AP-42 emission factor\* for headhouse and grain handling in pounds PM10 per ton of grain = 0.034

F = control efficiency of total enclosure = 99%

\* emission factors are from the U.S.EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 9.9 - Table 9.9.1-1 (3/03).

5. The annual particulate emission limitation was determined by the following equation:

$$[A \times B \times (100-C)] + [D \times E \times (100-F)]/2000 = \text{TPY PE}$$

where:

A = amount of grain received in tons per year = 1,013,507

B = AP-42 emission factor\* for straight truck receiving in pounds PE per ton of grain = 0.18

C = control efficiency of baghouse + 3-sided enclosure = 95%

D = amount of grain received in tons per year = 1,103,507

E = AP-42 emission factor\* for headhouse and grain handling in pounds PE per ton of grain = 0.061

F = control efficiency of total enclosure = 99%

\* emission factors are from the U.S.EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 9.9 - Table 9.9.1-1 (3/03).

6. The annual PM10 limitation was determined by the following equation:

$$[A \times B \times (100-C)] + [D \times E \times (100-F)]/2000 = \text{TPY PM10}$$

where:

A = amount of grain received in tons per year = 1,013,507

B = AP-42 emission factor\* for straight truck receiving in pounds PM10 per ton of grain = 0.059

C = control efficiency of baghouse + 3-sided enclosure = 95%

D = amount of grain received in tons per year = 1,013,507

E = AP-42 emission factor\* for headhouse and grain handling in pounds PM10 per ton of grain = 0.034

F = control efficiency of total enclosure = 99%

\* emission factors are from the U.S.EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 9.9 - Table 9.9.1-1 (3/03).

F. **Miscellaneous Requirements**

1. None