

Facility ID: 0634000012 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: 0634000012 Emissions Unit ID: F002 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>
F002 - 60 tph Grinding Building (including milling, screens, 3 bulk additive feeders and 19 enclosed conveyor transfer points, TP5 - TP23) all enclosed	OAC rule 3745-31-05(A)(3) (PTI# 06-07933 issued 1/17/06)	No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions.  Total fugitive particulate emissions (PE) shall not exceed 22 tons per year.  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.c) The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).  The requirements of this rule also include compliance with the requirements of 40 CFR 60.670 - 676.
4 enclosed conveyor transfer points (in existing building, TP24 - TP27) vented to a baghouse	OAC rule 3745-31-05(A)(3)	PE emissions from the stack shall not exceed 0.05g/dscm (0.022 gr/dscf) (3.0 lbs/hr)(13 TPY)  Visible emissions from the stack shall not exceed 7 % opacity. The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).  The requirements of this rule also include compliance with the requirements of 40 CFR 60.670 - 676.
	40 CFR Part 60, Subpart OOO 60.672(e)(1)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR Part 60, Subpart OOO 60.672(a)	The requirements of this rule also include compliance with the requirements of 40 CFR 60.670 - 676.

**2. Additional Terms and Conditions**

- (a) The Grinding Plant operations that are covered by this permit and subject to the above-mentioned requirements are listed below:
  - Grinding processes:
    - Mills,
    - Screens, and
    - Bulk additive addition
  - Transfer points:
    - In new building:
      - TP5 - CB-01 discharge to CB-02 - enclosed
      - TP6 - CB-02 discharge to box hoppers - enclosed headboxes
      - TP7 - box feeders discharge to CB-03 - enclosed
      - TP8 - CB-03 discharge to CB-04 - enclosed
      - TP9 - CB-04 discharge to CB-05 - enclosed

- TP10 - CB-05 discharge to existing hammer mill crusher - contained
- TP11 - Hammer mill crusher feeder discharge to CB-06 - enclosed
- TP12 - CB-06 discharge to CB-07 - enclosed
- TP13 - CB-07 discharge to diverter chute work - enclosed
- TP14 - diverter chute work to customer screens - enclosed/rubber sealed
- TP15 - screen discharges to CB-08 and CB-09 - enclosed/rubber sealed
- TP16 - screen discharges to CB-08 and CB-09 - enclosed/rubber sealed
- TP17 - CB-08 discharge to CB-05 - enclosed
- TP18 - CB-09 discharge to CB-10 - enclosed
- TP19 - CB-10 discharge to CB-11 - enclosed
- TP20 - CB-11 discharge to CB-12 - enclosed
- TP21 - CB-12 discharge to box hoppers - enclosed headboxes
- TP22 - box feeders discharge to CB-13 and CB-14 - enclosed
- TP23 - CB-13 and CB-14 discharge to CB-15 - enclosed

In existing building:

- TP24 - CB-15 discharge to CB-16 - enclosed and vented to a baghouse
- TP25 - CB-16 discharge to existing pug mill - contained and vented to a baghouse
- TP26 - CB-16 discharge to CB-17 - enclosed and vented to a baghouse
- TP27 - CB-17 discharge to existing pug mill - contained and vented to a baghouse

The permittee shall employ best available control measures for the above-identified material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measures to ensure compliance:

material handling operation(s) control measure(s)

grinding process and transfer points maintain covers and sufficient moisture content

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

For each material handling operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measure(s) is unnecessary.

Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

The throughput of this emission unit is limited by the maximum capacity of the kiln (plus waste and product loss on firing) - an inherent physical limitation.

This emission unit is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60. The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

**B. Operational Restrictions**

1. None

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

1. The permittee shall perform daily checks of the 4 enclosed conveyor transfer points in the existing building (TP-24 - TP-27), when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the baghouse stack serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the location and color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. The permittee shall perform daily checks of the new grinding plant building, when the emissions unit is in operation, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) of the building. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. the total duration of any visible emission incident; and
  - c. any corrective actions taken to eliminate the visible emissions.

**D. Reporting Requirements**

1. The permittee shall submit semiannual written reports that:
  - a. identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
  - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted to the Ohio EPA, Southeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

**E. Testing Requirements**

1. Compliance with the limitations contained in Section A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:  
No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions.

Compliance Method: If required, compliance with the visible emission limitation for the operation(s) identified above shall be determined in accordance with Test Method 22 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, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

Emission Limitation:  
Total fugitive particulate emissions (PE) shall not exceed 22 tons per year.

Compliance Method: Compliance with the annual limitations shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational parameters as submitted in PTI application 06-07933, received August 31, 2005.

Emission Limitation: The permittee shall implement best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.

Compliance Method: Compliance shall be demonstrated by the monitoring and recordkeeping in Section C.1. of this permit.

Emission Limitation: PE emissions from the stack shall not exceed 0.05g/dscm (0.022 gr/dscf) (3.0 lbs/hr)

Compliance Method: If required, compliance with the particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

Emission Limitation: Visible emissions from the stack shall not exceed 7 % opacity.

Compliance Method: If required, compliance with the visible emission limitation for the operation(s) identified above shall be determined in accordance with the provisions of 40 CFR Part 60, Subpart A, Section 60.8 and 40 CFR Part 60, Subpart OOO, Section 60.675.

**F. Miscellaneous Requirements**

1. None