

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: 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>
F001 - Raw Material Unloading, a 300 tph Crusher (including a four enclosed transfer points) with a three-sided building and a door - and a covered conveyor	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 particulate emissions (PE) shall not exceed a 0.9 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.d)
Crusher and three enclosed transfer points, TP2 - TP4.	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).
Material Handling: Raw Material Unloading (truck dump into primary bin, TP1)	OAC rule 3745-31-05 (A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR 60.670 - 676. Visible emissions shall not exceed 10% opacity as a three minute average.
Material Handling: Covered conveyor between the crusher building and the grinding building.	OAC rule 3745-31-05(A)(3)	Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.d) Visible emissions shall not exceed 10% opacity.
	40 CFR Part 60, Subpart OOO 60.672(b)	Particulate emissions shall not exceed 0.7 ton per year from all material handling operations combined. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.d)
		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.

2. **Additional Terms and Conditions**

- (a) The material handling operations that are covered by this permit and subject to the above-mentioned requirements are listed below:

Raw Material Unloading (truck dump); Crusher with screen, and the following transfer points:

TP1 - truck dump into primary bin
 TP2 - primary bin feeder discharge to crusher
 TP3 - crusher discharge to conveyor (CB-01 A)
 TP4 - CB-01A discharge to CB-01.

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)

unloading into primary crusher maintain covered dump area, low drop height and sufficient moisture content

crusher and transfer points TP-2 - TP-4 maintain three sided building enclosure and sufficient moisture content

conveyor between crusher and grinding maintain covers and sufficient moisture content plant

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(A)(3).

The throughput of this emission unit is limited by the maximum capacity of the kiln (plus waste and product lost 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. The maximum annual production rate for the kiln can not exceed 52,998 tons of fired brick. The potential to emit of this emission unit is determined by the following equation:

Maximum raw material per year = Maximum TPY fired brick x Percent loss to wastes (1/0.9) x Percent loss on ignition (1/0.9)

52,998 TPY fired brick (1/0.9) (1/0.9) = 65430

Emission limits and calculations in this permit are therefore based on a maximum of 65430 tons per year of raw material throughput.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks of the truck dump, TP-1 and covered conveyor between the crusher building and the grinding building, when the emissions units are in operation and when the weather conditions allow, for any visible fugitive particulate emissions. 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:
- the location and color of the emissions;
 - whether the emissions are representative of normal operations;
 - if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - the total duration of any visible emission incident; and
 - 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 buildings enclosing the crusher and transfer points TP2 - TP4, when the emissions unit components are in operation, excluding the raw material unloading operations (truck dump), 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.) and for any visible fugitive particulate emissions from the area immediately above the capture system 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:

Crusher and three enclosed transfer points, TP2 - TP4: 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 the provisions of 40 CFR Part 60, Subpart A, Section 60.8 and 40 CFR Part 60, Subpart OOO, Section 60.675 and the monitoring and recordkeeping in Section C.2 of this permit.
Emission Limitation:
Material Handling - Raw Material Unloading (truck dump into primary bin, TP1): Visible emissions shall not exceed 10% opacity as a three minute average.

Compliance Method: If required, visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" as such appendix existed on July 1, 2002, with the modifications found in OAC 3745-17-03(B)(4).
Emission Limitation:
Material Handling: Total particulate emissions (PE) shall not exceed 0.7 tons per year for all material handling operations combined.
Crusher and three enclosed transfer points, TP2 - TP4.: Total particulate emissions (PE) shall not exceed a 0.9 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, revised November 21, 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 and C.2 of this permit of this permit.
Emission Limitation:
Material handling (Covered conveyor between the crusher building and the grinding building): Visible emissions shall not exceed 10% 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