

Facility ID: 1667080014 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.

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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>
rotary drying kiln controlled by a cyclone/settling chamber and wet scrubber	OAC rule 3745-31-05 (PTI 16-280)	See A.2.a and B.1 below.
	OAC rule 3745-17-07	See A.2.b below.
	OAC rule 3745-17-11	17.2 lbs/hr of particulates

2. Additional Terms and Conditions

- (a) The permittee shall employ best available technology (BAT) to control particulate emissions from this emissions unit. The control technology shall include the following:
 - i. the employment of a properly installed cyclone/settling chamber in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate emissions;
 - ii. the employment of a properly installed wet scrubber in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate emissions; and
 - iii. the employment of properly installed hoods, ducts, fans, and other equipment, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately enclose, contain, capture, and vent particulate emissions to the cyclone/settling chamber and wet scrubber control systems.
 Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

B. Operational Restrictions

1. The maximum allowable average hourly process weight rate of this emissions unit shall not exceed 8.5 tons/hr.

Note:

During the compliance stack testing for mass emissions of particulates conducted July 20, 1995, the process equipment operated at a process weight rate of only 7.62 tons/hr as compared to 10 tons/hr that previous testing and permits were based on.
2. The cyclone/settling chamber and wet scrubber control systems shall be employed at all times the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record daily the following information:
 - a. the weight of material processed in this emissions unit, in tons;
 - b. the number of hours of operation of this emissions unit; and
 - c. the average hourly process weight rate of this emissions unit, in tons/hr, i.e., (a)/(b).
2. The permittee shall perform daily checks for any visible particulate emissions from the cyclone/settling chamber and wet scrubber control systems for the rotary drying kiln, while the kiln is in operation. The presence or

absence of any visible emissions from the cyclone/settling chamber and/or wet scrubber control system(s) shall be noted in an operations log. If any visible emissions are observed from the system(s), corrective actions shall be taken to eliminate the visible emissions and these actions shall also be noted in the operations log.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the average hourly process weight rate, as calculated in section C.1, exceeded the maximum allowable average hourly process weight rate of 8.5 tons/hr.
2. The permittee shall submit on a semi-annual basis a report which (a) identifies all days during which any visible particulate emissions were observed from the cyclone/settling chamber and/or wet scrubber control system(s) and (b) describes the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year to the Director (District Office or local air agency).
3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3 of this permit.

E. Testing Requirements

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

Emission Limitation:

17.2 lbs/hr of particulates

Applicable Compliance Method:

Multiply the particulate matter emission factor of 0.22* pound of particulate emissions per ton of iron chips processed by the process weight rate of iron chips, in tons per hour.

Stack testing shall be required, as specified below in section E.2, in accordance with the procedures and test method(s) specified in OAC rule 3745-17-03(B)(10).

*emission factor based on data obtained from the stack test conducted 7/20/95 in which test results showed P005 at that time to be in compliance with the applicable maximum allowable particulate matter emission limit.

Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emissions testing shall be conducted within 6 months prior to permit renewal.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Methods 1-5 of 40 CFR Part 60, Appendix A.
 - d. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time (s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

F. Miscellaneous Requirements

1. None

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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>
cast iron aggregate crushing, screening, and transfer controlled by a fabric filter	OAC rule 3745-31-05 (PTI 16-280)	See A.2.a below.
	OAC rule 3745-17-07	See A.2.b below.
	OAC rule 3745-17-08	0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there are no visible particulate emissions from the exhaust stack(s), whichever is less stringent

2. Additional Terms and Conditions

- (a) The permittee shall employ best available technology (BAT) to control particulate emissions from this emissions unit. The control technology shall include the following:
 - i. the employment of a properly installed fabric filter, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate emissions; and
 - ii. the employment of properly installed hoods, ducts, fans, and other equipment, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately enclose, contain, capture, and vent particulate emissions to the fabric filter.
 Visible particulate fugitive emissions shall not exceed 20% opacity as a 3-minute average.

B. Operational Restrictions

1. The fabric filter control system shall be employed at all times the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks for any visible particulate emissions from the fabric filter control system for the crusher, including screening and transfer operations, while the crusher is in operation. The presence or absence of any visible emissions from the fabric filter control system shall be noted in an operations log. If any visible emissions are observed from the system, corrective actions shall be taken to eliminate the visible emissions and these actions shall also be noted in the operations log.

D. Reporting Requirements

1. The permittee shall submit on a semi-annual basis a report which (a) identifies all days during which any visible particulate emissions were observed from the fabric filter control system and (b) describes the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year to the Director (District Office or local air agency).

E. Testing Requirements

1. Compliance with the emission limitations in sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

Emission Limitation:

0.030 gr/dscf of particulates

Applicable Compliance Method:

If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(7).

Emission Limitation:

no visible particulate emissions

Applicable Compliance Method:

Compliance shall be determined by visible particulate emission evaluations performed in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(4).

F. **Miscellaneous Requirements**

1. None