

Facility ID: 0536020004 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: 0536020004 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 - Limestone Processing Plant (including all material handling activities)	OAC rule 3745-31-05(A)(3) (PTI: 05-12539)	6.4 lbs particulate emissions (PE) per hour; 12.0 tons PE per year; Visible particulate emissions of fugitive dust shall not exceed 10% opacity, as a six-minute average, from truck dumping (i.e. loading/unloading) activities. The requirements of this rule also include compliance with the requirements of NSPS 40 CFR Part 60, Subpart OOO.
	NSPS 40 CFR Part 60, Subpart OOO	See A.2.c. through A.2.h. 0.05g/dscm from any stack which control emissions from any transfer point on belt conveyors or from any other affected facility
	OAC rule 3745-17-08(A)	See A.2.a
	OAC rule 3745-17-07(B)(11)(e)	See A.2.b
	OAC rule 3745-17-11(B)(3)	The limit based on this rule is less stringent than the particulate limit established above as Best Available Technology (BAT) under 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
Compliance with OAC rule 3745-31-05 (A)(3) shall be demonstrated by the application and utilization of water (or comparable chemical dust suppressant). The use of water sprays shall be used when necessary on crushers, screens and transfer points such that the material is maintained in a moist condition during processing. The moisture content shall be sufficient to minimize or eliminate visible emissions of fugitive dust so that compliance with the opacity requirements specified under Part II. A.1. is continuously maintained
Fugitive particulate emissions from any transfer point on belt conveyors and from any other emissions point (excluding crushers and truck unloading/loading activities) where process materials are not saturated or where a capture and control system for particulate emissions is not utilized, shall not exceed 10 percent opacity, except as provided by rule 40 CFR 60.672.
Fugitive particulate emissions from any crusher (i.e. jaw, gyratory, cone, roll, rod mill, hammermill, impactor, etc.) where a capture and control system for particulate emissions is not used shall not exceed 15 percent opacity.
Particulate emissions from any transfer point on belt conveyors or from any other affect facility shall not exceed 7 percent opacity nor emit particulate matter in excess of 0.05 g/dscm from the baghouse stack.

The discharge of any visible particulate emissions (i.e. 0% opacity) at the point of capture found between the crusher(s) and baghouse collection hood is prohibited

The discharge of any visible particulate emissions (i.e. 0% opacity) from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin is prohibited

The discharge of any visible particulate emissions from screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line is prohibited.

The hourly mass emissions limitation outlined above in Part II. A.1. is based upon the emissions unit's potential to emit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to demonstrate compliance with these limits

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

B. Operational Restrictions

1. The maximum annual hours of operation for this facility shall not exceed 3,744.
2. The pressure drop across the baghouse shall be maintained within the range of 2 -5 inches of water while the emissions unit is in operation

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when each piece of crushing equipment is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from each crushing, screening and conveying operation. 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. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the estimated total duration of any visible emissions incident which exceeds the specified opacity limitations under Part II. A.1; and
 - d. any corrective actions taken to eliminate the visible emissions.

The log shall be maintained on-site and available upon request by Ohio EPA representatives

2. 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 daily basis.

D. Reporting Requirements

1. The permittee shall submit annual reports that identify any exceedances of the annual hours of operation limitation for the facility, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
2. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) of any Method 9 evaluation that did not demonstrate compliance with the opacity requirement(s) specified above. The notification shall be in writing and shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the exceedance occurs
3. The permittee shall submit quarterly deviation (excursion) reports which identify the occurrences identified below:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented
4. The permittee shall submit pressure drop quarterly 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 above.

These reports are due by the date described in Part 1-General Terms and Conditions of this permit under section (A)(2).
5. A screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to 40 CFR 60.672(h) and subsequently processes unsaturated material shall submit a report of this change within 30 days following such change to the Ohio EPA -Southwest District Office. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit in 40 CFR 60.672(b) and the emission test requirements of 40 CFR 60.11 and 60.675. A screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in 40 CFR 60.672(h)

E. Testing Requirements

1. Compliance with the emissions limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation-

6.4 lbs/hr particulate emissions

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly production rate for each affected facility by the respective emissions factor, as identified below:

No. Source Emissions Factors

5 Crushers 7.0 E-4 lb/ton;
 10 Screens 1.764 E-3 lb/ton; *
 34 Conveyors 1.008 E-4 lb/ton; *
 3 Hoppers/Bins 1.008 E-4 lb/ton; *
 3 Feeders 1.008 E-4 lb/ton; *
 2 Screw conveyors 1.008 E-4 lb/ton; *

* AP-42 Factors have been adjusted to reflect total particulate.

(AP-42 Fifth Edition, Table 11-19.2-2)

(where applicable assume a 75.40% emission control from the baghouse)

Emission Limitation-

12.0 tons/yr particulate emissions

Applicable Compliance Method-

Compliance with the tons per year particulate emissions limitations in Part II. A.1. of these terms and conditions shall be demonstrated by calculations using the emission factors (EF) from AP-42, Table 11.19.2-2, Fifth Edition, September, 1995

Applicable Compliance Method-

0, 7, 10, and 15 percent opacity

Compliance with the visible emissions limitations in Part II. A.1. of these terms and conditions shall be determined by Method 9 and the procedures in 40 CFR 60.11 with the following additions:

- a. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet);
 - b. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed; and
 - c. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
2. The permittee shall conduct, or have conducted, fugitive particulate emission testing for the appropriate equipment permitted under emissions unit F002 in accordance with the following requirements
 The emission testing shall be conducted within 60 days after achieving maximum production but no later than 180 days after initial startup
 The emission testing shall be conducted to demonstrate compliance with 40 CFR 60 Subpart OOO
 Compliance with the opacity limits of this permit shall be determined by using US EPA Reference Test Method 9.
 The test(s) 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), this facility shall submit an Intent to Test notification to the Ohio EPA, Southwest District Office. The Intent to Test notification shall describe in detail the proposed test methods and procedures, the source operating parameters, the time(s) and the date(s) of the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in Ohio EPA, Southwest District Office's refusal to accept the results of the opacity test(s).
 Personnel from Ohio EPA, Southwest District Office shall be permitted to witness the test(s). Personnel from this facility shall acquire data and information regarding the source operating parameters (including but not limited to, water flow rates and pressure employed for particulate emissions and opacity control at this plant
 A comprehensive written report on the results of the opacity test(s) (including opacity levels and the source operating parameters) shall be submitted to Ohio EPA, Southwest District Office within 30 days following completion of the test(s).
 3. The permittee shall conduct, or have conducted, emission testing for the baghouse unit in accordance with the following requirements:
 The emission testing shall be conducted within 60 days after issuance of the permit to install and within 6 months prior to the renewal of the permit to operate.
 The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate matter (0.05g/dscm).
 The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate: Method 5 or Method 17. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 The test(s) 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