

Facility ID: 0514010170 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: 0514010170 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 - Aggregate Processing and Material Handling which include:<br><br>Three (3) impact crushers rated at 800 tph each;<br><br>Four (4) screens;<br><br>Thirty-four (34) conveyors. | OAC rule 3745-31-05(A)(3) (PTI 05-12556)<br><br><br><br><br><br>NSPS 40 CFR Part 60, Subpart OOO<br><br>OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B) | 10.3 pounds per hour and 9.6 tons per year particulate emissions (PE).<br><br>See A.2.a. through A.2.g.<br><br><br><br><br><br>The requirements of this rule are equivalent to the requirements of OAC rule 3745-31-05(A)(3)<br><br>None (see A.2.h) |

**2. Additional Terms and Conditions**

- (a) Compliance with OAC rule 3745-31-05 (A)(3) shall be demonstrated by the use of water sprays when necessary on crusher(s), 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 Section A. are continuously maintained.  
Fugitive particulate emissions from any transfer point on belt conveyors and from any other emissions point (excluding crushers and truck unloading/loading) where process materials are not saturated, shall not exceed 10 percent opacity, except as provided by rule 40 CFR 60.672.  
Fugitive particulate emissions from any crusher where a capture system is not used shall not exceed 15 percent opacity.  
The discharge of any visible particulate emissions 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 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 this limit.  
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.  
This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).

**B. Operational Restrictions**

1. The maximum aggregate production rate for this facility shall not exceed 1,500,000 tons per year.

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

1. The permittee shall maintain monthly records of the total aggregate materials produced in this facility.
2. The permittee shall conduct visible emissions evaluations for each piece of affected facility equipment. The visible emission evaluations shall be conducted according to Method 9 methodology as outlined under 40 CFR 60.11. The visible emission performance tests shall be performed during the period of May 1 through September 30.
3. The permittee shall perform daily checks, when 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.; 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.

**D. Reporting Requirements**

1. The permittee shall submit annual reports that identify any exceedances of the annual production rate 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.

These reports are due by the date described in Part 1-General Terms and Conditions of this permit under section (A)(2).
4. 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.
5. 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).
6. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:
  - a. Construction date (no later than 30 days after such date);
  - b. Anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
  - c. Actual start-up date (within 15 days of such date); and,
  - d. Date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Permit Management Unit  
P.O. Box 163669  
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency  
Southwest District Office  
DAPC  
401 E. Fifth Street  
Dayton, Ohio 45402-2911

**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-  
10.3 lbs/hr particulates

**Applicable Compliance Method-**

Compliance shall be determined by multiplying the maximum hourly production rate of 800 tons/hr by the emissions factors of 0.0007 lb/ton for each crusher; 0.001764 lb/ton\* for each screen; and 0.0001008 lb/ton\* for each conveyor/hopper and summing the emissions rates.

\* Factors have been adjusted to reflect total particulate as specified in AP-42, Table 11.19.2-2 (1/95).

**Emission Limitation-**

9.6 tons/yr particulates

**Applicable Compliance Method-**

Compliance with the annual particulate emissions limitations shall be shown by multiplying the maximum annual production of 1,500,000 tons/yr by the emission factors of 0.0007lb/to for each crusher; 0.001764 lb/ton\* for each screen; and 0.0001008 lb/ton\* for each conveyor/hopper and summing the emissions rates.

\* Factors have been adjusted to reflect total particulate as specified in AP-42, Table 11.19.2-2 (1/95).

**Emission Limitation-**

0, 10, and 15 percent opacity

**Applicable Compliance Method-**

Compliance with the visible emissions limitations in section 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:

- i. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet);
  - ii. 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
  - iii. 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 F001 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 Ohio EPA, Southwest District Office;  
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);  
and  
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).

**F. Miscellaneous Requirements**

1. None