

Facility ID: 1667050040 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: 1667050040 Emissions Unit ID: F008 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>
F008 - Aggregate processing plant - Nordberg Cone Plant.	OAC rule 3745-31-05(A)(3) (PTI 16-02172)	23.0 tons of particulate emissions (PE) per year (See A.2.h below) Use of reasonable available control measures (RACM) (See A.2.b below)
Secondary crusher	40 CFR Part 60, subpart OOO	No permittee shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity (See A.2.g below).
Secondary screening operation	40 CFR Part 60, subpart OOO	No permittee shall cause to be discharged into the atmosphere from any screening operation any fugitive emissions which exhibit greater than 10 percent opacity (See A.2.g below).
Material handling operations: conveying, transfer points, and load-in to the feed hopper	OAC rule 3745-31-05(A)(3)	20% opacity, as a 3-minute average for truck dumping into the feed hopper best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See A.2.d through A.2.f below)
	40 CFR Part 60, subpart OOO	No permittee shall cause to be discharged into the atmosphere from any transfer point any fugitive emissions which exhibit greater than 10 percent opacity (See A.2.g below).

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) and OAC rule 3745-17-07(B)(11)(e), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B) and OAC rule 3745-17-07(B). The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust from emissions unit F008. If the inherent moisture in the crushed stone is not sufficient to comply with the opacity restrictions of this permit, the permittee shall install equipment to apply water, or any other suitable dust suppressant, at appropriate locations in the production line. The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

. Regulatory Basis for
Emission Point Equipment Type Opacity Limit Limit

truck dumping front-end loaders/ 20% as 3-minute OAC rule 3745
into hopper feed hopper average 31-05(A)(3)

transfer points belt conveyors 10% 40 CFR Part 60,
. subpart OOO

The permittee shall employ best available control measures for the above-identified material handling operation (s) 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 measure(s) to ensure compliance:

material handling operation(s) control measure(s)

truck dumping into feed hopper maintain a low drop height and a high moisture content for
. the material being processed

transfer points maintain a high moisture content for the
. material being processed

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 measure(s) 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 measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

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

Compliance with the opacity limitations shall have been achieved on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup.

The 23.0 tons per year PE limitation was established to reflect the potential to emit for this emission unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from the secondary crusher and/or the secondary screening 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. the 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 eliminate the visible emissions.

2. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

material handling operation(s) minimum inspection frequency

. all daily

3. The above-mentioned inspections shall be performed during representative, normal operating conditions.
4. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
5. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates the control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 5.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive were observed from the secondary crusher and/or the secondary screening operation and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
3. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in section 60.672 of 40 CFR Part 60, subpart OOO, including reports of opacity observations made using Method 9 to demonstrate compliance with sections 60.672(b) and (c) of 40 CFR Part 60, subpart OOO.
4. The permittee of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to the no visible emission limit and subsequently processes unsaturated materials, 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 10 percent opacity limit and the emission test requirements of Section 60.11 of 40 CFR Part 60, subpart A and 40 CFR Part 60, subpart OOO. Likewise 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.
5. A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the permittee to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.
6. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.2.

E. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 180 days after the final issuance of this permit.
 - b. The emission testing shall be conducted to demonstrate compliance with opacity emission limitations for the secondary crusher, the secondary screening operation, and the transfer points listed in Section A.2.c of these terms and conditions.
 - c. The following test method(s) shall be employed to demonstrate compliance: for particulate emissions Method 9 of 40 CFR Part 60, Appendix A and the procedures in Section 60.11 of 40 CFR Part 60, subpart A, 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.
 - 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.
 - d. When demonstrating compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under Section 60.672(c) of 40 CFR Part 60, subpart OOO, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:
 - i. There are no individual readings greater than 15 percent opacity; and
 - ii. There are no more than 3 readings of 15 percent for the 1-hour period.
 - e. When demonstrating compliance with the fugitive emissions standard for the secondary screening operation and the transfer points listed in Section A.2.c of these terms and conditions, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:
 - i. There are no individual readings greater than 10 percent opacity; and
 - ii. There are no more than 3 readings of 10 percent for the 1-hour period.
 - f. If emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from any individual affected facility cannot be read, either of the following procedures may be used:
 - i. Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream; or
 - ii. Separate the emissions so that the opacity of emissions from each affected facility can be read.
 - g. 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.
2. 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).

3. 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.
4. 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.
5. The initial performance tests required in Sections E.1 through E.4 of these terms and conditions is not required for wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill, or storage bin.
6. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation

23.0 tons of PE per year

Applicable Compliance Method

Total Emissions = Secondary crusher + Feed hopper screening + Secondary screening operation + Load-in to feed hopper + Transfer and conveying

Secondary crusher: Multiply the AP-42 emission factor (AP-42, Table 11.19.2-2 (1/95)) of 0.00504* pound of particulate emissions per ton of material throughput by the maximum annual material throughput rate. Then multiply the resulting uncontrolled emission rate by a moisture control factor of 80% (1-.80), then divided by 2000.

Feed hopper screening: Multiply the AP-42 emission factor (AP-42, Table 11.19.2-2 (1/95)) of 0.0315* pound of particulate emissions per ton of material throughput by the maximum annual material throughput rate. Then multiply the resulting uncontrolled emission rate by a moisture control factor of 80% (1-.80), then divided by 2000.

Secondary screening operation: Multiply the AP-42 emission factor (AP-42, Table 11.19.2-2 (1/95)) of 0.0315* pound of particulate emissions per ton of material throughput by the maximum annual material throughput rate. Then multiply the resulting uncontrolled emission rate by a moisture control factor of 80% (1-.80), then divided by 2000.

Load-in to Feed Hopper: Multiply the AP-42 derived emission factor (AP-42, Chapter 13.2.4 equation 1 (1/95)) of 0.00331 pound of particulate emissions per ton of loaded-in by the maximum annual amount of material loaded-in, then divided by 2000.

Transfer and Conveying: Multiply the AP-42 emission factor (AP-42, Table 11.19.2-2 (1/95)) of 0.00294* pound of particulate emissions per ton of material throughput by the maximum annual material throughput rate. Then multiply the resulting uncontrolled emission rate by a moisture control factor of 80% (1-.80), then divided by 2000.

Emission Limitation

20% opacity as a three-minute average

Applicable Compliance Method

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

Emission Limitation

15% opacity for the secondary crusher

Applicable Compliance Method

Compliance shall be demonstrated using US EPA Method 9 of 40 CFR Part 60, Appendix A and the procedures in Section 60.11 of 40 CFR Part 60, subpart A as required in sections E.1 through E.4 of these terms and conditions.

Emission Limitation

10% opacity for the secondary screening operation and the transfer points listed in Section A.2.c of these terms and conditions.

Applicable Compliance Method

Compliance shall be demonstrated using US EPA Method 9 of 40 CFR Part 60, Appendix A and the procedures in Section 60.11 of 40 CFR Part 60, subpart A as required in sections E.1 through E.4 of these terms and conditions.

F. Miscellaneous Requirements

1. None