

Facility ID: 0857723119 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: 0857723119 Emissions Unit ID: F006 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>
F006 - Aggregate processing plant; crushers, screens and material handling	OAC rule 3745-31-05(A)(3) PTI 08-04752	The requirements of this rule also include compliance with the requirements of NSPS 40 CFR Part 60, Subpart 000. The fugitive particulate emissions (PE) from this emissions unit shall not exceed 1.44 lbs/hr and 6.32 tons/yr. The visible PE of fugitive dust shall not exceed 15% opacity, as a 6-minute average from the crushers. The visible PE of fugitive dust shall not exceed 10% opacity, as a 6-minute average from any unsaturated screens. The visible PE of fugitive dust shall not exceed 10% opacity, as a 6-minute average from any unsaturated transfer point. There shall be no visible PE from all saturated equipment except crushers.
	NSPS 40 CFR Part 60, Subpart 000	

2. **Additional Terms and Conditions**
 - (a) The hourly and annual emission limitation were established to reflect the maximum throughput for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
 The aggregate materials processed through the equipment identified under this emissions unit shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the crushers, screens, conveyors and transfer points, so that compliance with the opacity requirements specified above is continuously maintained. If the inherent moisture in the aggregate is not sufficient to comply with the opacity restrictions of this permit, the permittee shall apply water or other suitable dust suppressant, at appropriate locations in the production line.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall conduct annual visible emissions evaluations of this emissions unit. The initial compliance demonstration required by 40 CFR 60 Subpart 000 shall be completed within 60 days after reaching maximum production and not later than 180 days after initial startup. The visible emissions evaluations shall be performed at maximum production capacity and during dry weather conditions. Every effort shall also be made to conduct the visible emissions evaluations between May 1 and September 30 to represent a worst case operating scenario. The duration of the Method 9 observations shall be in accordance with the requirements of 40 CFR 60 Subpart 000.
2. The permittee shall employ best available control measures for the 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)
all conveyors and transfer points watering as needed

3. 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.
4. 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.
5. The permittee shall perform daily checks, when the emissions unit is in operation, and when the weather conditions allow, for any visible fugitive particulate emissions from the emissions unit. 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 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.

D. Reporting Requirements

1. The permittee shall report within 30 days, any change in the saturated or unsaturated nature of the material being processed in the screens and conveyors. The affected emissions unit is then subject to the provisions of the standard applicable to the type of material being processed.
2. The permittee shall submit written reports that identify all days during which any visible fugitive particulate emissions were observed that did not demonstrate compliance with the opacity requirements specified above from this emissions unit, and describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. These reports shall be submitted 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 the following information for each piece of equipment that is replaced having the same function as the existing facility:
 - a. for a crusher, grinding mill, bucket elevator, bagging operation, storage bin, enclosed truck or railcar loading station:
 - i. the rated capacity in tons or tons per hour of the existing facility being replaced, and
 - ii. the rated capacity in tons or tons per hour of the replacement equipment.
 - b. for a conveyor belt:
 - i. the width of the existing conveyor belt being replaced, and
 - ii. the width of the replacement conveyor belt.
 - c. for a screening operation:
 - i. the total surface area of the top screen of the existing screening operation being replaced, and
 - ii. the total surface area of the top screen of the replacement, screening operation.
 - d. The permittee shall submit the date of manufacture of each existing facility being replaced and the date of manufacture of the replacement equipment.

The notification shall be submitted 30 days (or as soon as practicable) before construction of the replacement equipment is commenced.

E. Testing Requirements

1. Compliance with the emission limitations in this permit shall be determined in accordance with the following method(s):
Emission Limitation-
The fugitive particulate emissions (PE) from this emissions unit shall not exceed 1.44 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by summing the maximum hourly emission rates for the crushers, screens, and the material handling equipment. (See i. through iii. below)

- i. The maximum hourly emission rate for the crushing equipment was determined by multiplying the maximum hourly production rate of each crusher by the emission factor of 0.0012 lb PM/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (08/04) and summing the emissions rates for the crushing equipment.
- ii. The maximum hourly emission rate for the screens were determined by multiplying the maximum hourly production rate of each screen by the emission factor of 0.0022 lb PM/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (08/04) and summing the emissions rates for the screens.
- iii. The maximum hourly emission rate for the material handling equipment was determined by multiplying the maximum hourly production rates of each piece of material handling equipment by the emission factor of 0.00014 lb PM/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (08/04), and summing the emission rates for each piece of equipment.

Emission Limitation-

The fugitive particulate emissions (PE) from this emissions unit shall not exceed 6.32 tons/yr.

Applicable Compliance Method-

Compliance shall be determined by summing the annual emission rates for the crushers, screens and material handling equipment. (See i. through iii. below)

- i. The annual emission rate for the crushing equipment was determined by multiplying the annual maximum throughput of each crusher, by the emission factor 0.0012 lb PM/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (08/04), and dividing by 2,000 pounds per ton.
- ii. The annual emission rate for the screens were determined by multiplying the annual maximum throughput of each screen, by the emission factor 0.0022 lb PM/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (08/04), and dividing by 2,000 pounds per ton.
- iii. The annual emission rate for the material handling equipment was determined by multiplying the annual maximum throughput of each material handling equipment, by the emission factor 0.00014 lb PM/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (08/04), and dividing by 2,000 pounds per ton.

Emission Limitation-

The visible PE of fugitive dust shall not exceed 15% opacity, as a 6-minute average from the crushers.

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations performed using the methods and procedures specified in USEPA Reference Method 9.

Emission Limitation-

The visible PE of fugitive dust shall not exceed 10% opacity, as a 6-minute average from any unsaturated screens and transfer points.

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations performed using the methods and procedures specified in USEPA Reference Method 9 and 40 CFR 60.675 Subpart OOO.

Emission Limitation-

There shall be no visible PE from all saturated equipment except crushers.

Applicable Compliance Method-

Compliance shall be based on USEPA Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

1. None