

Facility ID: 0855720513 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: 0855720513 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>
Crushing Operations: 500 tons/hr Primary Crusher serial #10683 and Secondary Crusher serial # 41253	OAC rule 3745-31-05 PTI 08-4003	10.5 lbs/hr and 7.87 tons/yr particulates 15% opacity, as a 6-minute average from the primary and secondary crushers
Screening Operations: 500 tons/hr Primary Screen, 6' x 16' 3-deck Deister Screen;		10% opacity, as a 6-minute average from primary and secondary screens
Secondary Screens (2), 6' x 16' 3-Deck Allis Chamber Screen and 6' x 16' 2-Deck Screen*;		10% opacity from any transfer point, as a 6-minute average from primary and secondary conveyors
Tertiary Screens (4), serial nos. 458869**, 05FA07738**, 488938**, and 267409		no visible emissions from the tertiary screens and from the tertiary conveyors
Material Handling: 29 conveyors (500 tons/hr ea.)		10% opacity, as a 6-minute average
*500 ton/hr Secondary Screen, 6' x 16" 2-Deck Screen	NSPS 40 CFR Part 60, Subpart OOO	no visible emissions
**Tertiary Screens serial nos. 458869, 05FA07738, and 488938		10% opacity, as a 6-minute average
Primary and Secondary Conveyors	NSPS 40 CFR Part 60, Subpart OOO	no visible emissions
Tertiary Conveyors	OAC rule 3745-17-07(B)(1)	The visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average (see section 2.b.)
	OAC rule 3745-17-08(B)	Reasonable available control measures (RACM). (see section 2.b.)

2. **Additional Terms and Conditions**
 - (a) The hourly emission limitation was established to reflect the potential to emit for the equipment identified in 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.

B. Operational Restrictions

1. The maximum annual production rate for this facility shall not exceed 750,000 tons.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the total aggregate materials produced in this facility.
2. Upon completing the initial visible emission compliance test as specified in Section E.1., the permittee shall conduct visible emission evaluations at a minimum annually on the crushers and screens that are not saturated. The VE evaluations shall be performed during the period of May 1 through September 30. The duration of the Method 9 observations shall be 1 hour at a minimum (ten 6-minute averages), and twenty 3-minute averages.

D. Reporting Requirements

1. The permittee shall submit annual reports that identify any exceedances of the annual production rate limitation for this 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 DO or IAA) within 30 days after the exceedance occurs.
3. The permittee shall report within 30 days, any change in the saturated or unsaturated nature of the material being processed in the tertiary screen and tertiary conveyors. The affected emissions unit is then subject to the provisions of the standard applicable to the type of material being processed.

E. Testing Requirements

1. Within 60 days of reaching maximum production, this facility shall conduct, or have conducted, an opacity test for the secondary screen (6' x 16' 3-Deck Allis Chamber), and the primary and secondary secondary conveyors of F001 in order to demonstrate compliance with the specified allowable opacity limitation. The opacity test shall be conducted in accordance with the test method specified in 40 CFR Part 60 Subpart OOO, [reference section 60.675].

Not later than 30 days prior to the proposed test date(s), this facility shall submit an Intent to Test notification to the Regional Air Pollution Control Agency (RAPCA). 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 RAPCA's refusal to accept the results of the opacity test(s).

Personnel from RAPCA 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 emission and opacity control at this plant). Data reduction of opacity readings (to determine compliance with opacity limitations) shall be based upon 6-minute averages, and 3-minute averages.

A comprehensive written report on the results of the opacity test(s) (including opacity levels and the source operating parameters) shall be submitted to RAPCA within 30 days following completion of the test(s).

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

1. Emission Limitation-
10.5 lbs/hr particulates

Applicable Compliance Method-
Compliance shall be determined by summing the maximum hourly emission rates for the primary and secondary crushers, the primary, secondary, and tertiary screens, and the conveyors. (See i. through vi. below)
 - i. The maximum hourly emission rate for the primary crusher is determined by multiplying the maximum hourly production rate of 500 tons/hour by the emission factor of 0.00070 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95).
 - ii. The maximum hourly emission rate for the secondary crusher is determined by multiplying the maximum hourly production rate of 500 tons/hour by the emission factor of 0.00504 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95).
 - iii. The maximum hourly emission rate for the primary screen is determined by multiplying the maximum hourly production rate of 500 tons/hour by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95).
 - iv. The maximum hourly emission rate for the secondary screens is determined by multiplying the maximum hourly production rate of 500 tons/hour for each screen by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and summing the emissions rates for the two screens.
 - v. The maximum hourly emission rate for the tertiary screens is determined by multiplying the maximum hourly production rate of 500 tons/hour for each screen by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and summing the emissions rates for the four screens.
 - vi. The maximum hourly emission rate for the conveyors transfer points are determined by multiplying the maximum hourly production rate of 500 tons/hour for each conveyor by the emission factor of 0.0001008 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2(1/95), and summing the emissions rates.

Emission Limitation-
7.87 tons/yr particulates

Applicable Compliance Method-

Compliance shall be determined by summing the annual emission rates for the primary and secondary crushers, the primary, secondary, and tertiary screens, and the conveyors. (See i. through vi. below)

i. The annual emission rate for the primary crusher is determined by multiplying the 12-monthly production records for the calendar year, by the emission factor of 0.00070 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton.

ii. The annual emission rate for the secondary crusher is determined by multiplying the 12-monthly production records for the calendar year, by the emission factor of 0.00504 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton.

iii. The annual emission rate for the primary screen is determined by multiplying the 12-monthly production records for the calendar year, by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton.

iv. The annual emission rate for the secondary screens is determined by multiplying the 12-monthly production records for the calendar year for each screen by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton and summing the emissions rates for the two screens.

v. The annual emission rate for the tertiary screens is determined by multiplying the 12-monthly production records for the calendar year for each screen by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton and summing the emission rates.

vi. The annual emission rate for the conveyors transfer points are determined by multiplying the 12-monthly production records for the calendar year for each conveyor transfer point by the emission factor of 0.0001008 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and summing the emissions rates.

Emission Limitation-
15% opacity, as a 6-minute average for the primary and secondary crushers

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 000.

Emission Limitation-
10% opacity, as a 6-minute average for the primary and secondary screens

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 000.

Emission Limitation-
No visible emissions, for the tertiary screen and the tertiary conveyors (wash plant)

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.

Emission Limitation-
10% opacity from any transfer point, as a 6-minute average from the primary and secondary conveyors

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 000.

Emission Limitation-
20% opacity, as a 3-minute average

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Reference 9.

F. Miscellaneous Requirements

1. None