Facility ID: 0829710085 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: 0829710085 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
F001- Aggregate Processing Plant	OAC rule 3745-31-05(A)(3) PTI 08-04794	The particulate emissions (PE) from this emissions unit shall not exceed 6.29 lbs/hr and 12.58 tons/yr. The visible PE of fugitive dust shall not exceed 15% opacity, as a 6-minute average from the crushers (not subject to NSPS). The visible PE of fugitive dust shall not exceed 10% opacity, as a 6-minute average from any unsaturated screens, conveyors and transfer points (not subject to NSPS). The requirements of this rule also include compliance with the requirements of NSPS 40 CFR Part 60, Subpart 000. The permittee shall utilize best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See sections A.2.c through A.2.e).
	NSPS 40 CFR Part 60, Subpart OOO	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, conveyors and transfer points. There shall be no visible PE from all saturated equipment except crushers.
	OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B)	See A.2.a.

2. **Additional Terms and Conditions**

   (a) This emissions facility is exempt from the requirements of OAC rule 3745-17-07 and OAC rule 3745-17-08 because the emissions unit is located in an area not identified in Appendix A of OAC rule 3745-17-08.
   The hourly emission limitation was established using the design maximum throughput for this emissions unit. Since the plant operates in ambient conditions only, the annual maximum throughput was based on material size reduction during above freezing temperatures. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with hourly and annual limits.
   The permittee shall employ best available control measures on the crushers, screens, conveyors and transfer points 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 treat the crushers, screens, conveyors and transfer points with water at sufficient frequencies to ensure

compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a crushers, screens, conveyors and transfer points that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.

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

B. **Operational Restrictions**

1. None

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

1. Except as otherwise provided in this section, the permittee shall preform daily inspections of the crushers, screens, conveyors and transfer points.

2. No inspections shall be necessary when the crushers, screens, conveyors and transfer points is covered with snow and/or ice if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

3. The purpose of the inspection is to determine the need for implementing the above-mentioned control measures specified in this permit for crushers, screens, conveyors and transfer points. The inspections shall be performed during representative, normal crushing, screening, conveying and transfer points operating conditions.

4. The permittee may, upon receipt of written approval from the Regional Air Pollution Control Agency (RAPCA), 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, including those inspections that were not performed due to snow and/or ice cover or precipitation;

   b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

   c. the dates the control measures were implemented; and

   d. on a calendar quarter basis, the total number of days the control measures were implemented and, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

   The information required in 5.d. shall be kept 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 quarterly deviation reports that identify any of the following occurrences:

   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.

2. These quarterly deviation (excursion) reports shall be submitted to the Director (district office or local air agency) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarter. If no deviation occurred during a calendar quarter, the permittee shall submit a report which states that no deviation occurred during the calendar quarter.

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.

4. 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.

E. **Testing Requirements**

1. Compliance with the emission limitations in this permit for emissions unit F001 shall be determined in accordance with the following method(s):
Emission Limitation-
The fugitive PE from this emissions unit shall not exceed 6.29 lbs/hr.

Applicable Compliance Method-
Compliance shall be determined by summing the maximum hourly emission rates for the crushers, screens, conveying and the transfer points. (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 conveying and 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 12.58 tons/yr.

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

i. The annual emission rate for the crushing equipment shall be determined by multiplying the annual 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 shall be determined by multiplying the annual 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 conveying and material handling equipment shall be determined by multiplying the annual 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 with the visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

F. **Miscellaneous Requirements**

1. None