

A. Additional Terms and Conditions

1. The permittee shall employ reasonably available control measures on all load-in and load-out operations associated with the storage piles 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 maintain the moisture content of the material sufficient to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
2. The above-mentioned control measures shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during any such operation until further observation confirms that use of the measures is unnecessary.
3. The permittee shall employ reasonably available control measures on all pile working operations associated with the storage piles 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 maintain the moisture content of the material sufficient to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
4. The permittee shall employ reasonably available control measures for wind erosion from pile surfaces associated with the storage piles 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 maintain the moisture content of the material sufficient to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
5. The above-mentioned control measures shall be employed for each pile working operation and wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measures shall not be necessary for a storage pile 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.

6. The permittee shall employ reasonably available control measures on the crusher 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 both maintain the moisture content of the material and a three sided enclosure with a roof to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
7. 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 3745-17-08.

B. Monitoring and Recordkeeping Requirements:

1. Except as otherwise provided in this section, the permittee shall perform inspections of each working operation associated with each storage pile daily.
2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation associated with each storage pile daily.
3. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation associated with each storage pile daily.
4. No inspection shall be necessary for wind erosion from the surface of a pile when the pile is covered with snow and/or ice and for any storage pile activity 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.
5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in or load-out of a storage pile, pile working operations, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. 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.

7. 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 measures.

The information required in B.7.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, (iii) the pile working operations, and (iv) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

8. The permittee shall perform daily checks, while the crusher is in operation, for any visible emissions of fugitive dust escaping from the enclosure, to ensure compliance with the applicable requirement. A record of the necessary and complete corrective actions resulting from the daily checks shall be maintained by the permittee.
9. The permittee shall perform daily checks, while the ring mill is in operation, for any visible particulate emissions from the baghouse exhaust. A record of the necessary and complete corrective actions resulting from the daily checks shall be maintained by the permittee.

C. Reporting Requirements:

The permittee shall submit deviation reports that identify any of the following occurrences:

1. 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

2. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
4. each corrective action taken to eliminate any visible emissions noted during the daily checks.
3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

D. Testing Requirements:

Compliance with the visible emission limitations identified above shall be determined in accordance with the following methods:

1. Emission Limitation:

no visible emissions from the enclosure containing the crusher.

Applicable Compliance Method:

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:

No visible emissions except for 1-minute during any hour

Applicable Compliance Method:

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:

20% opacity as a three minute average

Applicable Compliance Method:

Test method 9 as set fourth 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:

1.8 pounds particulate per hour for Milling

Applicable Compliance Method:

Compliance shall be determined in accordance with 40 CFR 60 Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03(B)(1)

Emission Limitation:

7.9 TPY PM from P926

Applicable Compliance Method:

$(ST) * (TPH) * (\text{Tons material milled per year}) * (0.0005 \text{ T/lb}) = \text{Tons per year emissions}$

ST = Stack tested pound per hour of particulate matter

TPY = Average tons per hour during the stack test.

Emission Limitation:

1.2 TPY PM from F018

Applicable Compliance Method:

$(6.78 \times 10^{-4} \text{ lb/Ton}) * (\text{Ton material loaded/unloaded per year}) * (0.0005 \text{ Ton/lb}) = \text{TPY PM}$

Emission Limitation:

0.7 TPY PM from P925

Applicable Compliance Method:

$(6.78 \times 10^{-4} \text{ lb/Ton}) * (\text{Ton material Handled per year}) * (0.0005 \text{ Ton/lb}) = \text{TPY PM}$

Emission Limitation:

0.1 TPY PM from P929

Applicable Compliance Method:

$(7.0 \times 10^{-4} \text{ lb/Ton}) * (\text{Ton material crushed per year}) * (0.0005 \text{ Ton/lb}) = \text{TPY PM}$

E. **Toxics Modeling:**

This permit allows the use of materials specified by the permittee in the application for PTI number 06-5344. In conjunction with the best available technology requirements of OAC rule 3745-31-05, the emission limitation(s) specified in this permit was (were) established in accordance with the Ohio EPA's "Air Toxics Policy" and is (are) based on the design parameters of the emissions unit's exhaust system, as specified in the application. Compliance with the Ohio EPA's "Air Toxics Policy" was demonstrated for each pollutant based on the Screen 3 model and a comparison of the predicted 1 hour maximum ground-level concentration to the MAGLC. The following summarizes the results of the modeling for each pollutant:

Pollutant: Manganese

TLV (ug/m3): 2,000

Maximum Hourly Emission Rate (lbs/hr): 1.8

Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 3.7

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 4.6

Any of the following changes may be deemed a "modification" to the emissions unit and, as such, prior notification to and approval from the appropriate Ohio EPA District Office or local air agency are required, including the possible issuance of modifications to PTI number 06-5344:

- (a) Any changes in the composition of the materials, or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value specified in the above table.
- (b) Any change to the emissions unit or its exhaust parameters (e.g., increased emission rate, reduction of exhaust gas flow rate, and decreased stack height) that would result in an exceedance of any MAGLC specified in the above table.
- (c) Any change to the emissions unit or its method of operation that would

either require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01.

- (d) Any change in the composition of the materials, or use of new materials, that would result in an increase in emissions of any "Hazardous Air Pollutants" (HAPS) as defined in OAC rule 3745-77-01(V).

F. **Miscellaneous Requirements:**

None