

Facility ID: 0671010152 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

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: 0671010152 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>
F001 - Crushing (300 TPH Hazemag Crusher) and Screening (Fabtech Screen) including associated conveyors, transfer points, and feeder.	OAC rule 3745-31-05(A)(3)	Total particulate emissions (PE) shall not exceed a 10.7 tons per year.  The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c through A.2.h).  See A.2.a. below. See A.2.a. below.
	40 CFR 60 Subpart OOO	

**2. Additional Terms and Conditions**

- (a) No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point or the belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity.  
 No owner or operator 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.  
 The permittee shall employ best available control measures for the crushing and screening operation 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 install water sprays and/or enclosures at transfer points and screens 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 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 best available technology requirements of OAC rule 3745-31-05.  
 The crushing screening operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:  
  
 Primary Screen  
 Secondary Crusher  
 Secondary Screen  
 Feeder  
 Conveyors and transfer points  
 The permittee shall employ best available control measures for the above-identified crushing/screening operations 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 measures to ensure compliance:  
  
 crushing/screening operations control measures

Primary Screen watering and good operating practices  
 Secondary Crusher watering and good operating practices  
 Secondary Screen watering and good operating practices  
 Feeder watering and good operating practices  
 Conveyors and transfer points watering and good operating practices

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

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.

The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

**B. Operational Restrictions**

1. None

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

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

material handling operations minimum inspection frequency

Primary Screen daily  
 Secondary Crusher daily  
 Secondary Screen daily  
 Feeder daily  
 Conveyors and transfer points daily

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the Ohio EPA Southeast District Office, 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.
4. The permittee shall maintain records of the following information:  
 the date and reason any required inspection was not performed;  
 the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;  
 the dates the control measures were implemented; and  
 on a calendar quarter basis, the total number of days the control measures were implemented.

The information in 4.d. shall be kept separately for each crushing/screening 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 deviation reports that identify any of the following occurrences:  
 each day during which an inspection was not performed by the required frequency; and  
 each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

2. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:  
 construction date (no later than 30 days after such date);  
 anticipated start-up date (not more than 60 days or less than 30 days prior to such date);  
 actual start-up date (within 15 days after such date); and  
 date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
 DAPC - Permit Management Unit  
 P. O. Box 163669  
 Columbus, Ohio 43216-3669

and

Southeast District Office of the Ohio EPA  
 Division of Air Pollution Control  
 2195 Front Street  
 Logan, Ohio 43138.

**E. Testing Requirements**

1. Emission limitation: Visible emissions of fugitive dust discharging from the transfer points and conveyor shall not

exceed 10% opacity.

Applicable Compliance Method: Compliance with the visible emission limits shall be determined in accordance with Test Method 9 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.

2. Emission limitation: Visible emissions of fugitive dust discharging from the crusher shall not exceed 15% opacity.

Applicable Compliance Method: Compliance with the visible emission limits shall be determined in accordance with Test Method 9 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.

3. Emission limitation: Total particulate emissions shall not exceed 10.7 tons per year.

Applicable Compliance Method: Aggregate Plant

Total tons particulate controlled / year emitted is calculated as follows:

Emission Points

Feeder:

$(0.0018 \text{ lb particulate/ton}) \times (300 \text{ tons/hr}) = 0.54 \text{ lb/hr emission rate}$   
 $(0.54 \text{ lb/hr})(8760 \text{ hr/ year}) (1 \text{ ton /2000 pounds}) = 2.36 \text{ TPY}$

Primary Screen:

$(0.0018 \text{ lb particulate/ton}) \times (325^* \text{ tons/hr}) = 0.59 \text{ lb/hr emission rate}$   
 $(0.59 \text{ lb/hr})(8760 \text{ hr/ year}) (1 \text{ ton /2000 pounds}) = 2.56 \text{ TPY}$   
 \*( 300 TPH feed plus 25 TPH re-grind)  
 (Moisture content > 1.5%)

Secondary Crushing: (Moisture content > 1.5%)

$(0.0012 \text{ lb particulate/ton}) \times (300 \text{ tons/hr}) = 0.36 \text{ lb/hr emission rate}$   
 $0.36 \text{ lb/hr}(8760 \text{ hr/ year})(1 \text{ ton /2000 pounds}) = 1.58 \text{ TPY}$

Secondary Screen:

$(0.0018 \text{ lb particulate/ton}) \times (325^* \text{ tons/hr}) = 0.59 \text{ lb/hr emission rate}$   
 $(0.59 \text{ lb/hr})(8760 \text{ hr/ year}) (1 \text{ ton /2000 pounds}) = 2.56 \text{ TPY}$   
 \*( 300 TPH feed plus 25 TPH re-grind)  
 (Moisture content > 1.5%)

Material Handling:

Conveyor Transfer Points

Egress Points #1 and #2

$(0.00010 \text{ lb particulate/ton}) \times (300 \text{ tons/hr}) = 0.03 \text{ lb/hr}$   
 $(0.03 \text{ lb/hr})(8760 \text{ hr/ year})(2^*)(1 \text{ ton /2000 pounds}) = 0.27 \text{ TPY}$   
 \*( Values times two to account for the egress points)

Egress Points #3 and #7

$(0.00010 \text{ lb particulate/ton}) \times (325 \text{ tons/hr}) = 0.0325 \text{ lb/hr}$   
 $(0.0325 \text{ lb/hr})(8760 \text{ hr/ year})(2^*)(1 \text{ ton /2000 pounds}) = 0.28 \text{ TPY}$

Egress Points #4 and #6

$(0.00010 \text{ lb particulate/ton}) \times (40 \text{ tons/hr}) = 0.004 \text{ lb/hr}$   
 $(0.004 \text{ lb/hr})(8760 \text{ hr/ year})(2^*)(1 \text{ ton /2000 pounds}) = 0.04 \text{ TPY}$

Egress Points #5

$(0.00010 \text{ lb particulate/ton}) \times (285 \text{ tons/hr}) = 0.0285 \text{ lb/hr}$   
 $(0.0285 \text{ lb/hr})(8760 \text{ hr/ year})(7)(1 \text{ ton /2000 pounds}) = 0.87 \text{ TPY}$

Egress Points #8 and #9

$(0.00010 \text{ lb particulate/ton}) \times (25 \text{ tons/hr}) = 0.00025 \text{ lb/hr}$   
 $(0.00025 \text{ lb/hr})(8760 \text{ hr/ year})(2^*)(1 \text{ ton /2000 pounds}) = 0.02 \text{ TPY}$

Egress Points #10 and #15

$(0.00010 \text{ lb particulate/ton}) \times (75 \text{ tons/hr}) = 0.00075 \text{ lb/hr}$   
 $(0.00075 \text{ lb/hr})(8760 \text{ hr/ year})(6^*)(1 \text{ ton /2000 pounds}) = 0.20 \text{ TPY}$

Total Emissions from crushing/screening/material handling operations =

$2.36 + 2.56 + 1.58 + 2.56 + 0.27 + 0.28 + 0.04 + 0.87 + 0.02 + 0.20 = 10.7 \text{ TPY}$

NOTE: For a complete discussion on the egress points and facility diagram, please see the PTI Application No. 06-06974, dated August 9, 2002, EAC Form - Material Handling: Fugitive Dust Emissions.

**F. Miscellaneous Requirements**

1. None