

Facility ID: 1431954184 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: 1431954184 Emissions Unit ID: P901 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>
P901 - 350 TPH Portable aggregate crushing plant with diesel engine (ISC-103)	OAC rule 3745-31-05(A)(3) (PTI 14-05734)	<p>Particulate emissions (PE) from the crushing and material handling operations shall not exceed 0.52 pound per hour and 2.27 tons per year.</p> <p>Particulate matter emissions 10 microns and less in diameter (PM10) shall not exceed 0.22 pound per hour and 0.97 ton per year.</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO, OAC rule 3745-17-07(A)(1), OAC rule 3745-17-11(B)(5)(a) and OAC rule 3745-21-08(B).</p> <p>Nitrogen Oxide (NOx) emissions from the diesel engine shall not exceed 4.23 pounds per hour and 18.54 tons per year.</p> <p>Carbon Monoxide (CO) emissions from the diesel engine shall not exceed 0.91 pound per hour and 3.99 tons per year.</p> <p>Sulfur Dioxide (SO2) emissions from the diesel engine shall not exceed 0.28 pound per hour and 1.22 tons per year.</p> <p>Organic Compound (OC) emissions from the diesel engine shall not exceed 0.34 pound per hour and 1.51 ton per year</p> <p>Particulate emissions (PE) and Particulate matter emissions 10 microns and less in diameter (PM10) from the diesel engine shall not exceed 0.30 pound per hour and 1.30 ton per year.</p>
	40 CFR Part 60 Subpart OOO	See terms and conditions B.1. and B.2.
	OAC rule 3745-17-07(A)(1)	See terms A.2.b. through A.2.e. and B.1.
	OAC rule 3745-17-07(B)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-08(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08(B)	The emission limitation specified by this rule is less stringent than the emission limitation established

OAC rule 3745-17-11(B)(5)(a)	pursuant to OAC rule 3745-31-05(A)(3). Particulate emissions from the stationary internal combustion engine shall not exceed 0.310 lb/MMBTU.
OAC rule 3745-18-06(B)	Exempt.
OAC rule 3745-21-08(B)	See term and condition A.2.h.

**2. Additional Terms and Conditions**

- (a) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of water sprays, as necessary, to keep the material moist to meet the opacity limitations and compliance with the emissions limitations.  
Fugitive particulate emissions from any transfer point on belt conveyors and from any other emissions point (excluding crushers and truck dumping) where process materials are not saturated, shall not exceed 10 percent opacity, except as provided by rule 40 CFR 60.672.  
Fugitive particulate emissions from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin shall not exceed 0 percent opacity.  
Fugitive particulate emissions from screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line shall not exceed 0 percent opacity.  
Fugitive particulate emissions from any crusher shall not exceed 15 percent opacity.  
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.  
The hourly and annual emissions limitations for the crushing and material handling operations and the diesel engine outlined above are based upon the emissions unit's potential to emit. Therefore, no records are required to demonstrate compliance with these limits.  
The permittee satisfies the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-08 by complying with the best available technology requirements of OAC rule 3745-31-05(A)(3).

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

**B. Operational Restrictions**

- 1. Water sprays shall be operated at points necessary to ensure compliance with the visible emission limitations specified in section A.2.b, A.2.c, A.2.d and A.2.e for crushing, transfer points, screening, and conveying operations.
- 2. The permittee shall burn only diesel fuel (#2 fuel oil) in this emissions unit.

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

- 1. For each day during which the permittee burns a fuel other than diesel fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

**D. Reporting Requirements**

- 1. A screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to 40 CFR 60.672(h) and subsequently processes unsaturated material shall submit a report of this change within 30 days following such change to the Hamilton County Department of Environmental Services. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit in 40 CFR 60.672(b) and the emission test requirements of 40 CFR 60.11 and 60.675. A screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in 40 CFR 60.672(h).
- 2. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards in 40 CFR 60.672 of Subpart OOO, including reports of observations using Method 9 to demonstrate compliance with terms A.2.b. through A.2.e. of this permit.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

- 3. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:
  - a. Construction date (no later than 30 days after such date);
  - b. Anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
  - c. Actual start-up date (within 15 days after such date); and
  - d. 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

Hamilton County Department of Environmental Services  
250 William Howard Taft Road  
Cincinnati, Ohio 45219

4. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel fuel was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

**E. Testing Requirements**

1. If not previously conducted and reported, the permittee shall conduct, or have conducted, fugitive visible particulate emission testing for emissions unit P901 in accordance with the following requirements:

- a. The emission testing shall be conducted within 60 days after achieving maximum production but no later than 180 days after initial startup.
- b. Compliance with the opacity limits of this permit (terms A.2.b. through A.2.e.) shall be determined by using US EPA Reference Test Method 9 (40 CFR Part 60). The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
- c. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.  
The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency.

The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test (s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

2. Compliance with the emission limitations in Section A. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitations from the crusher and material handling:

0.52 lb/hr, 2.27 TPY PE  
0.22 lb/hr, 0.97 TPY PM10

Applicable Compliance Method:

Compliance with the pounds/hour and tons/year PE and PM10 emission limitations in section A.1. shall be demonstrated by calculations using the emission factors from US EPA AP-42 Fifth Edition, Table 11.19.2-2, dated 8/2004 and production data in PTI application 14-05735 as submitted on June 10, 2005.

- b. Emissions Limitations from the diesel engine:

0.30 lb/hr, 1.30 TPY PE/PM10  
0.310 lb/MMBTU PE  
0.28 lb/hr, 1.22 TPY SO2  
4.23 lbs/hr, 18.54 TPY NOx  
0.91 lb/hr, 3.99 TPY CO  
0.34 lb/hr, 1.51 TPY OC

Applicable Compliance Method:

Compliance with the pounds/hour and tons/year PE, PM10, SO2, NOx, CO, and OC emission limitations and the lb/MMBTU PE emissions limitation in section A.1. shall be demonstrated by calculations using the emission factors from US EPA AP-42 Fifth Edition, Table 3.3-1, dated 10/1996 and production data in PTI application 14-05735 as submitted on June 10, 2005.

c. Emissions Limitation:

Visible emissions limitations specified in term and condition A.2.b. through A.2.e.

Applicable Compliance Method:

Compliance 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.")

- d. Emissions Limitation:

Visible emissions from the diesel engine exhaust stack shall not exceed 20 percent opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance 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, 2002.

3. Compliance with the fuel limitation in term and condition B.2 shall be demonstrated by the recordkeeping in term and condition C.1.

**F. Miscellaneous Requirements**

1. Notice to Relocate a Portable or Mobile Source

Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. The portable emissions unit is equipped with the best available control technology for such portable emissions unit;
- b. The portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- d. In Hamilton County Department of Environmental Services' and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.  
In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:
- e. The portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- f. The portable emissions unit is equipped with best available technology;
- g. The portable emission unit owner has identified the proposed site to Ohio EPA;
- h. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- i. A public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
- j. The owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- k. The portable emissions unit owner has provided Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to F.1. above, shall be valid for no longer than three years and are subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.