

Facility ID: 1318958444 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: 1318958444 Emissions Unit ID: F004 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>
F004 - 100 TPH - Portable Concrete Crushing Plant	OAC rule 3745-31-05 (A)(3) (PTI 13-04560 issued on 10/25/2005)	2.4 lbs/hour and 10.7 tons/year of PE emissions 1.02 lb/hour and 4.4 tons/year of PM10 emissions  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.a)
	OAC rule 3745-17-07 (B)(1)	Visible emissions of fugitive dust shall not exceed ten percent opacity, as a six minute average. The visible particulate emission limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08 (B)	The control measures specified by this rule are equivalent to the control measures established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	twenty percent opacity, as a six-minute average, except as provided by rule
0.9 mmBtu/hr diesel generator	OAC rule 3745-31-05(A)(3) (PTI 13-04560 issued on 10/25/2005)	0.28 lb/hr of PE and 1.2 ton/year of PE emissions 4.0 lbs/hour of NOx emissions and 17.5 tons/year 0.9 lbs/hour of CO emissions and 4.0 tons/year 0.26 lb/hour of SO2 emissions and 1.1 ton/year
	OAC rule 3745-17-11(B)(5)(a)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5) (a) and 3745-17-07(A).
	OAC rule 3745-17-11(B)(5)(a)	0.31 lb/mmBtu of particulate emissions of actual heat input

**2. Additional Terms and Conditions**

- (a) The permittee shall employ best available control measures for the crushing operation for the purpose of ensuring compliance with the applicable requirements. In accordance with the permittee's permit application, the permittee has committed to employing water spray bars at the hopper charging point, after crushing operations, at the end of each conveyor belt and all screening points within the process to ensure compliance. The permittee shall also minimize the free fall distance of the processed material. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.  
For each phase of the crushing operation that is not adequately enclosed, the control measure(s) 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 measure(s) is (are) necessary to ensure compliance with the applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the crusher until further observation confirms that use of the control measure(s)

is unnecessary.

The portable crushing plant that is covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

Front end load to hopper  
100 ton per hour crusher  
Screening operation  
Conveyor belts

**B. Operational Restrictions**

1. The permittee shall only burn low sulfur diesel, containing less than 0.5 % sulfur by weight, in this emissions unit.

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

1. Except as otherwise provided in this section, for crushing operations that are not adequately enclosed, the permittee shall perform daily inspections of such operations.
2. The above mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the Cleveland Division of Air Quality, modify the above mentioned inspection frequencies if operating experience indicated that less frequent inspections would be sufficient to ensure compliance with the applicable requirements.
4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
  - c. the dates the control measure(s) was (were) implemented; and
  - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 4.d shall be kept separately for each material handling operation, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

5. The permittee shall maintain daily records of the following information:
  - a. the application of water and/or chemical additives;
  - b. the name of the equipment operator responsible for the treatment; and,
  - c. the general weather conditions for each day, with respect to temperature, precipitation, wind speed and wind direction.
6. 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. The permittee shall also maintain documentation on the sulfur content of all fuels received.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation reports to the Cleveland Division of Air Quality that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency; and
  - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

These deviation (excursion) reports shall be submitted in accordance with the general terms and conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the BAT limit for fugitive opacity contained in this permit using Method 9.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation:  
Visible emissions of fugitive dust shall not exceed ten percent opacity, as a six minute average  
  
Applicable Compliance Method:  
Compliance with the above visible emission limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A.
  - b. Emission Limitations:  
2.4 pound/hour and 10.7 tons/year of PE emissions  
1.02 pound/hour and 4.4 tons/year of PM10 emissions  
  
Applicable Compliance Method  
Compliance with the hourly PE/PM10 emission limitation shall be determined using the emission factors for crushing and material handling operations in AP-42, Chapter 11.19.2 (Crushed Stone Processing), Fifth Edition,

dated 1/1995 and for truck dumping operations in AP-42, Chapter 13.2.4 (Aggregate Handling and Storage Piles), Fifth Edition, dated 1/1995. The emission factors from AP-42, are 0.000016 for PM10 for hopper loading, 0.0050 for PM and 0.0024 for PM10 for primary crushing, and 0.0029 for PM and 0.0014 for PM10 for conveyors in pounds/ton. The calculated emission factors for truck dumping are 0.046 lb per ton of materials handled for PM emissions and 0.022 lb per ton of materials handled for PM10 emissions. These emissions factors shall be multiplied by the maximum process weight rate, in tons/hour, for each operation identified in A.2 and summed, and multiply by (1-.70) to account for the 70% watering emission control efficiency. For hopper loading PM emissions, multiply the PM10 emissions by a factor of 2.1.

The tons/year limitations were developed by multiplying the pound/hour by 8760 hours/year, and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitation.

c. Emission Limitation:

1.2 ton/year of PM from the diesel fired engine

Applicable Compliance Method

The ton/year limitation was developed by multiplying the lb/hour by the maximum operating schedule of 8760 hours/year, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitation.

d. Emission Limitation:

4.0 lbs/hour of NOx emissions from the diesel fired engine

Applicable Compliance Method

Compliance with the hourly NOx emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 3.3, Table 3.3-1 (4.41 lbs NOx/mmBtu), by the capacity (0.9 mm Btu/hr).

e. Emission Limitation:

17.5 tons/year of NOx emissions from the diesel fired engine

Applicable Compliance Method

The tons/year limitations were developed by multiplying the pound/hour by the maximum operating schedule of 8760 hours/year, and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitation.

f. Emission Limitation:

0.9 lbs/hour of CO emissions from the diesel fired engine

Applicable Compliance Method

Compliance with the hourly CO emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 3.3, Table 3.3-1 (0.95 lb CO/mmBtu), by the capacity (0.9 mm Btu/hr).

g. Emission Limitation:

4.0 tons/year of CO emissions from the diesel fired engine

Applicable Compliance Method

The tons/year limitations were developed by multiplying the pound/hour by the maximum operating schedule of 8760 hours/year, and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitation.

h. Emission Limitation:

0.26 lb/hour of SO2 emissions from the diesel fired engine

Applicable Compliance Method

Compliance with the hourly CO emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 3.3, Table 3.3-1 (0.29 lb SO2/mmBtu) by the capacity (0.9 mm Btu/hr).

i. Emission Limitation:

1.1 tons/year of SO2 emissions from the diesel fired engine

Applicable Compliance Method

The tons/year limitations were developed by multiplying the pound/hour by the maximum operating schedule of 8760 hours/year, and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitation.

j. Emission Limitation:

0.31 lb PE/mmBtu and 0.28 lb PE/hr from the diesel fired engine

Applicable Compliance Method

Compliance with the hourly PE limitation shall be determined from the emission factor taken from the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 3.3, Table 3.3-1 (0.31 lb PE/mmBtu). Multiply the emission factor by the capacity (0.9 mmBtu/hr) to determine the hourly emission rate. If required, compliance shall be determined using Method 5 of 40 CFR Part 60, Appendix A.

k. Emission Limitation:

twenty percent opacity, as a six-minute average, except as provided by rule (from the diesel fired engine)

Applicable Compliance Method:

Compliance shall be determined using USEPA Method 9 of 40 CFR Part 60.

**F. Miscellaneous Requirements**

- 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 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 Cleveland Division of Air Quality 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 the Cleveland Division of Air Quality's and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.
2. 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:
  - a. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
  - b. the portable emissions unit is equipped with best available technology;
  - c. the portable emission unit owner has identified the proposed site to Ohio EPA;
  - d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
  - e. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
  - f. 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 the proposed site; and
  - g. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.
3. Any site approvals issued by the Ohio EPA, pursuant to F.2 above, shall be valid for no longer than three years and are subject to renewal.

In order for the Cleveland Division of Air Quality 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 to 15 days) prior to the relocation of the emissions unit with the Cleveland Division of Air Quality (1925 St. Clair Avenue, Cleveland, Ohio 44114) and the appropriate office jurisdiction over the new site. Upon receipt of the notice, the Cleveland Division of Air Quality and/or the 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.

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.