

Facility ID: 1677011080 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: 1677011080 Emissions Unit ID: F007 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>
Grinding of mixed construction & demolition debris materials/yard waste	OAC rule 3745-31-05 (PTI 16-1855)	5.0 lbs of total suspended particulates (TSP)/hr; 5.2 tpy of TSP when grinding mixed construction and demolition debris
		0.13 lb of ten micron particulate matter (PM-10)/hr; 0.13 tpy of PM-10 when grinding mixed construction and demolition debris
		3.5 lbs/hr of TSP; 3.64 tpy when grinding wood
		0.09 lb/hr of PM; 0.09 tpy of PM-10 when grinding wood
		2.0 lbs/hr of TSP; 2.08 tpy of TSP when grinding yard waste
		0.05 lb/hr of PM-10; 0.05 tpy of PM-10 when grinding yard waste
		7.5 lbs/hr of TSP; 7.8 tpy of TSP when grinding roofing shingles
		0.19 lb/hr of PM-10; 0.20 tpy of PM-10 when grinding roofing shingles
		3.75 lbs/hr of TSP; 3.9 tpy of TSP when grinding asphalt.
		0.10 lb/hr of PM-10; 0.10 tpy of PM-10 when grinding roofing shingles
	OAC rule 3745-17-07(B)	See A.2.a below.
	OAC rule 3745-17-08(B)	See B.1 below.

**2. Additional Terms and Conditions**

- (a) Visible particulate emissions from any fugitive dust source shall not exceed 20 percent opacity as a 3-minute average.

**B. Operational Restrictions**

1. The permittee has committed to operate a water spray system within the enclosed grinding chamber to minimize or eliminate visible particulate emissions of fugitive dust:
2. The grinding of mixed construction and demolition debris shall not exceed 50 tons/hr.
3. The grinding of wood shall not exceed 35 tons/hr.

4. The grinding of yard waste shall not exceed 20 tons/hr.
  5. The grinding of roofing shingles shall not exceed 75 tons/hr.
  6. The grinding of asphalt shall not exceed 37.5 tons/hr.
  7. Mixed construction and demolition debris loaded into trucks shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust and the loading drop height shall not exceed fifteen (15) feet.
  8. Landscape mulch and compost loaded into trucks shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust and the loading drop height shall not exceed fifteen (15) feet.
  9. Road base and ground cover loaded into trucks shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust and the loading drop height shall not exceed fifteen (15) feet.
  10. Water sprays shall be operated at points necessary to ensure compliance with the visible emission limitations specified for transfer points, crushers, and screening and conveying operations.
  11. The permittee shall not accept for the grinding operations any NESHAP Regulated Asbestos Containing Materials (RACM) as defined in the NESHAP for asbestos 40 CFR Part 61 Subpart M, section 141 amended November 20, 1990 or subsequent revisions.
  12. The permittee shall be limited to accepting only construction and demolition material as defined in Ohio Revised Code (ORC) 3714.01(C) and Class IV lawn wastes.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall maintain daily records of the volume of material received per day on an as-received basis.
  2. The permittee shall also maintain monthly records which document the following:
    - a. the total production of debris for disposal and the total amount of mixed construction & demolition debris crushed;
    - b. the total production of landscape mulch and compost, and the total amount of wood and yard waste crushed; and
    - c. the total production of road base and ground cover, and the total monthly amount of roofing shingles and asphalt crushed.
  3. These records in sections C.1 and C.2 shall be retained in the company's files for a period of not less than five years and shall be made available to the Director, or any authorized representative of the Director, for review during normal business hours.
  4. The permittee shall perform daily checks while the equipment is in operation for any visible emissions of fugitive dust. The presence or absence of any visible emissions shall be noted in an operations log. If any visible emissions are observed from either system, corrective actions shall be taken to minimize or eliminate the visible PE, and these actions shall also be noted in the operations log.
- D. Reporting Requirements**
1. None
- E. Testing Requirements**
1. Compliance with the emission limitation(s) in A.1 above shall be determined in accordance with the following method(s):  
Emission Limitations:
    - i. 5.0 lbs/hr of TSP when grinding mixed construction and demolition debris  
  
Applicable Compliance Method:  
  
The 5.0 lbs/hr emission limitation was developed by multiplying the maximum production of 50 tons/hr by the conversion factor of 2000 lbs/ton, times the 5% of the material which becomes airborne within the grinding chamber, times the uncaptured and uncontrolled portion of (1-99.9%).
    - ii. 5.2 tpy of TSP when grinding mixed construction and demolition debris  
  
Applicable Compliance Method:  
  
The 5.2 tpy limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 2,080 hrs/yr and dividing by the conversion factor of 2000 lbs/ton. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 5.0 lbs/hr emissions limitation, divided by 2,000 lbs/ton.  
Emission Limitations:
      - i. 0.13 lb/hr of PM-10 when grinding mixed construction and demolition debris  
  
Applicable Compliance Method:  
  
The 0.13 lb/hr emission limitation was developed by multiplying the maximum production of 50 tons/hr by the sum of emission factors in AP-42 Fifth Edition, table 11.19.2-2 (Jan. 1995) for tertiary crushing (controlled), 0.00059 lb/ton, and fines crushing (controlled), 0.0020 lb/ton.
      - ii. 0.13 tpy of PM-10 when grinding mixed construction and demolition debris  
  
Applicable Compliance Method:

The 0.13 tpy limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 2,080 hrs/yr and dividing by the conversion factor of 2000 lbs/ton. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 0.13 lb/hr emissions limitation, divided by 2,000 lbs/ton.

Emission Limitations:

- i. 3.5lbs/hr of TSP when grinding wood

Applicable Compliance Method:

The 3.5 lbs/hr emission limitation was developed by multiplying the maximum production of 35 tons/hr by the conversion factor of 2000 lbs/ton, times the 5% of the material which becomes airborne within the grinding chamber, times the uncaptured and uncontrolled portion of (1-99.9%).

- ii. 3.64 tpy of TSP when grinding wood

Applicable Compliance Method:

The 3.64 tpy limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 2,080 hrs/yr and dividing by the conversion factor of 2000 lbs/ ton. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 3.5 lbs/hr emissions limitation, divided by 2,000 lbs/ton.

Emission Limitations:

- i. 0.09 lb/hr of PM-10 when grinding wood

Applicable Compliance Method:

The 0.09 lb/hr emissions limitation was developed by multiplying the maximum production of 35 tons/hr by the sum of emission factors in AP-42 Fifth Edition, table 11.19.2-2 (Jan. 1995) for tertiary crushing (controlled), 0.00059 lb/ton, and fines crushing (controlled), 0.0020 lb/ton.

- ii. 0.09 tpy of PM-10 when grinding wood

Applicable Compliance Method:

The 0.09 tpy limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 2,080 hrs/year and dividing by the conversion factor of 2000 lbs/ton. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 0.09 lb/hr emissions limitation, divided by 2,000 lbs/ton.

Emission Limitations:

- i. 2.0 lbs/hr of TSP when grinding yard waste

Applicable Compliance Method:

The 2.0 lbs/hr emission limitation was developed by multiplying the maximum production of 20 tons/hr by the conversion factor of 2000 lbs/ton, times the 5% of the material which becomes airborne within the grinding chamber, times the uncaptured and uncontrolled portion of (1-99.9%).

- ii. 2.08 tpy of TSP when grinding yard waste

Applicable Compliance Method:

The 2.08 tpy limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 2,080 hrs/yr and dividing by the conversion factor of 2000 lbs/ton. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 2.0 lbs/hr emissions limitation, divided by 2,000 lbs/ton.

Emission Limitations:

- i. 0.05 lb/hr of PM-10 when grinding yard waste

Applicable Compliance Method:

The 0.05 lb/hr emission limitation was developed by multiplying the maximum production of 20 tons/hr by the sum of emission factors in AP-42 Fifth Edition, table 11.19.2-2 (Jan. 1995) for tertiary crushing (controlled), 0.00059 lb/ton, and fines crushing (controlled), 0.0020 lbs/ton.

- ii. 0.05 tpy of PM-10 when grinding yard waste

Applicable Compliance Method:

The 0.05 tpy limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 2,080 hrs/yr and dividing by the conversion factor of 2000 lbs/ton. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 0.05 lb/hr emissions limitation, divided by 2,000 lbs/ton.

Emission Limitations:

- i. 7.5 lbs/hr of TSP when grinding roofing shingles

Applicable Compliance Methods:

The 7.5 lbs/hr emission limitation was developed by multiplying the maximum production of 75 tons/hr by the conversion factor of 2000 lbs/ ton, times the 5% of the material which becomes airborne within the grinding chamber, times the uncaptured and uncontrolled portion of (1-99.9%).

## ii. 7.8 tpy of TSP when grinding roofing shingles

## Applicable Compliance Methods:

The 7.8 tpy limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 2,080 hrs/yr and dividing by the conversion factor of 2000 lbs/ton. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 7.5 lbs/hr emissions limitation, divided by 2,000 lbs/ton.

## Emission Limitations:

## i. 0.19 lb/hr of PM-10 when grinding roofing shingles

## Applicable Compliance Method:

The 0.19lb/hr emission limitation was developed by multiplying the maximum production of 75 tons/hr by the sum of emission factors in AP-42 Fifth Edition, table 11.19.2-2 (Jan. 1995) for tertiary crushing (controlled), 0.00059 lb/ton, and fines crushing (controlled), 0.0020 lbs/ton.

## ii. 0.20 tpy of PM-10 when grinding roofing shingles

## Applicable Compliance Method:

The 0.20 tpy limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 2,080 hrs/year and dividing by the conversion factor of 2000 lbs/ton. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 0.19 lb/hr emissions limitation, divided by 2,000 lbs/ton.

## Emission Limitations:

## i. 3.75 lbs/hr of TSP when grinding asphalt

## Applicable Compliance Method:

The 3.75lbs/hr emission limitation was developed by multiplying the maximum production of 37.5 tons/hr by the conversion factor of 2000 lbs/ton, times the 5% of the material which becomes airborne within the grinding chamber, times the uncaptured and uncontrolled portion of (1-99.9%).

## ii. 3.9 tpy of TSP when grinding asphalt

## Applicable Compliance Method:

The 3.9 tpy limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 2,080 hrs/yr and dividing by the conversion factor of 2000 lbs/ton. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 3.75 lbs/hr emissions limitation, divided by 2,000 lbs/ton.

## Emission Limitations:

## i. 0.10 lb/hr of PM-10 when grinding asphalt

## Applicable Compliance Method:

The 0.10lb/hr emission limitation was developed by multiplying the maximum production of 37.5 tons/hr by the sum of emission factors in AP-42 Fifth Edition, table 11.19.2-2 (Jan. 1995) for tertiary crushing (controlled), 0.00059 lb/ton, and fines crushing (controlled), 0.0020 lb/ton.

## ii. 0.10 tpy of PM-10 when grinding asphalt

## Applicable Compliance Method:

The 0.10 tpy limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 2,080 hrs/yr and dividing by the conversion factor of 2000 lbs/ton. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 0.10 lb/hr emissions limitation, divided by 2,000 lbs/ton.

## Emission Limitation-

20 percent opacity as a 3-minute average

## Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Method 9.

## 2. The permittee shall conduct, or have conducted, emission tests for this emissions unit in accordance with the following requirements:

a. The visible emission tests shall be conducted within sixty (60) plant operating days of the effective date of this permit.

b. The emission tests shall be conducted to demonstrate compliance with the opacity limitations as set forth in Section A above.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 9 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

d. The tests 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 ARAQMD.

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

3. Personnel from the appropriate Ohio EPA District Office or Akron Regional Air Quality Management District (ARAQMD) 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.

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 ARAQMD or the appropriate Ohio EPA District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or Akron Regional Air Quality Management District (ARAQMD).

**F. Miscellaneous Requirements**

1. Notice to Relocate a Portable or Mobile Source  
Pursuant to Ohio Administrative Code (OAC) rule 3754-31-03 (A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a Permit to Install (PTI) providing the following criteria are met:
  - i. the portable emissions unit is equipped with the best available control technology for such portable emission unit;
  - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
  - iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the ARAQMD and the appropriate field office having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and
  - iv. in the judgement of the ARAQMD's and the appropriate field offices and the appropriate field office having jurisdiction over the new site, proposed site is acceptable under 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:
    - i. the portable emissions unit permittee possesses an Ohio Environmental Protection Agency (Ohio EPA) PTI, PTO or Registration Status;
    - ii. the portable emissions unit is equipped with best available technology;
    - iii. the portable emissions unit owner has identified the proposed site to Ohio EPA;
    - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
    - v. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
    - vi. 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
    - vii. 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.a or F.1.b above, shall be valid for no longer than three years and are subject to renewal.

In order for the ARAQMD and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee 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 ARAQMD (146 S. High Street, Suite 904, Akron, OH 44308) and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the ARAQMD, 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.

2. The permittee shall comply with any applicable State and federal requirements governing the storage, treatment, transport, and disposal of any waste material generated by the operation of the emissions unit.
3. The permittee is hereby notified that this permit, and all agency records concerning the operation of this permitted emissions unit are subject to public disclosure in accordance with OAC rule 3745-49-03.