

Facility ID: 0215000282 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.

- [Go to Part II for Emissions Unit F001](#)
- [Go to Part II for Emissions Unit F002](#)
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Facility ID: 0215000282 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> |
|---|--------------------------------------|--|
| unpaved roadways and parking areas | OAC rule 3745-17-07 (B)(5) | no visible particulate emissions except for 13 minutes during any 60-minute period |
| | OAC rule 3745-17-08 (B), (B)(2) | reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.g) |

2. Additional Terms and Conditions

- (a) The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

unpaved roadways: plant entrance and service road

unpaved parking areas: office area parking

The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas 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 treat the unpaved roadways and parking areas with water at sufficient treatment frequencies 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 for an unpaved roadway or parking area 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. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled using sweeping or water flushing. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas specified in OAC rule 3745-17-07(B)(4).

The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.

Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.

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. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each of the unpaved roadways and parking areas in accordance with the following frequencies:
 - unpaved roadways minimum inspection frequency
 - plant entrance and service daily road
 - unpaved parking areas minimum inspection frequency
 - office parking area daily
2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area 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. 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.
3. 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.
4. 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 4.d. 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:
 - a. 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
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitation for the unpaved roadways and parking areas identified above shall be determined in accordance with 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)(d) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

1. None

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Part II - Special Terms and Conditions

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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> |
|---|--------------------------------------|--|
| transfer, conveying and material handling | OAC rule 3745-31-05 PTI # 17-927 | See section A.2.a. |
| | OAC rule 3745-17-07(B)(1) | See section A.2.b. |
| | OAC rule 3745-17-08(B)(3) | See section A.2.a. |

2. Additional Terms and Conditions

- (a) The material handling system shall be adequately enclosed and vented to a fabric filter. The enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point of capture.

The fabric filter shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent.
Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

B. Operational Restrictions

1. The permittee shall dump only brick having sufficient moisture content to minimize or eliminate visible emissions of fugitive dust. Truck drivers and operators shall be instructed and required not to dump dry material until adequate water has been applied to minimize or eliminate visible emissions of fugitive dust.
2. The permittee shall maintain and employ an enclosure around each transfer point and vent the captured emissions to a fabric filter

C. Monitoring and/or Record Keeping Requirements

1. None

D. Reporting Requirements

1. None

E. Testing Requirements

1. Compliance with the fabric filter outlet emission rate shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B)(7).
2. Compliance with the visible particulate emission limitation shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(3).

F. Miscellaneous Requirements

1. None

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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> |
|---|--------------------------------------|--|
| aggregate processing | OAC rule 3745-31-05 | See section A.2.a. |

PTI 17-927

OAC rule 3745-17-07(B)(1)

See section A.2.b.

OAC rule 3745-17-08(B)(3)

See section A.2.a.

2. Additional Terms and Conditions

- (a) The aggregate processing system shall be adequately enclosed and vented to a fabric filter; the enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point of capture.

The fabric filter shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent.

The visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

B. Operational Restrictions

1. The permittee shall instruct and require all operators to crush and screen only fire brick having sufficient moisture content to minimize or eliminate visible emissions of fugitive dust. Dry fire brick shall not be crushed or screened until sufficient moisture has been applied in order to minimize or eliminate visible emissions of fugitive dust.
2. The permittee shall maintain and employ the secondary crusher and screen enclosure such that fugitive dust is contained to the extent possible with good engineering design and the fabric filter possesses sufficient capacity to minimize or eliminate visible emissions of fugitive dust at the point of collection.
3. The permittee shall maintain and employ the tertiary crusher and screen enclosure such that fugitive dust is contained to the extent possible with good engineering design and the fabric filter possesses sufficient capacity to minimize or eliminate visible emissions of fugitive dust at the point of collection.
4. The permittee shall maintain and employ the recrush and rescreen enclosure such that fugitive dust is contained to the extent possible with good engineering design and the fabric filter possesses sufficient capacity to minimize or eliminate visible emissions of fugitive dust at the point of collection.
5. The permittee shall maintain and employ the product loading enclosure such that fugitive dust is contained to the extent possible with good engineering design and the fabric filter possesses sufficient capacity to minimize or eliminate visible emissions of fugitive dust at the point of collection.

C. Monitoring and/or Record Keeping Requirements

1. None

D. Reporting Requirements

1. None

E. Testing Requirements

1. Compliance with the fabric filter outlet emission rate shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B)(7).
2. Compliance with the visible particulate emission limitation shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(3).

F. Miscellaneous Requirements

1. None

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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> |
|---|--------------------------------------|--|
| rotary dryer, fired by natural gas or #2 fuel oil, with impingement scrubber | OAC rule 3745-31-05 PTI 17-927 | Emissions of particulate matter shall not exceed 0.03 grain per dry standard cubic foot of exhaust gases. Emissions of sulfur dioxide shall not exceed 0.4 lb/hr. |
| | OAC rule 3745-18-06(D)(2) | Visible particulate emissions shall not exceed 5% opacity as a 6-minute average. See B.1. Less stringent than PTI limit. |
| | OAC rule 3745-17-07(A)(1) | Less stringent than PTI limit. |
| | OAC rule 3745-17-11 | Less stringent than PTI limit. |
| 2. Additional Terms and Conditions | | |
| (a) None | | |
| B. Operational Restrictions | | |
| 1. The dryer shall be fired with #2 fuel oil having a sulfur content of 0.5% or less and/or natural gas. Compliance with the above-mentioned specifications shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil. | | |
| 2. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 4 inches of water at all times while the emissions unit is in operation. | | |
| C. Monitoring and/or Record Keeping Requirements | | |
| 1. The permittee shall maintain the daily records in a bound notebook which include the following information for each shipment of #2 fuel oil: | | |
| a. The amount of #2 fuel oil purchased. | | |
| b. The percent of sulfur content of the #2 fuel oil. | | |
| c. The heat content of the #2 fuel oil. | | |
| d. The SO2 emission rate in lb/mmBtu. | | |
| 2. The permittee shall properly operate and maintain equipment to monitor and record the pressure drop across the scrubber while the emissions unit is in operation. The monitoring devices and recorder(s) shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals. The permittee shall collect and record the following information each day: | | |
| (a) The pressure drop across the scrubber, in inches of water. | | |
| (b) A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit. | | |
| D. Reporting Requirements | | |
| 1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the passive drop across the scrubber was not maintained at or above the required level. | | |
| E. Testing Requirements | | |
| 1. Compliance with the venturi scrubber outlet emission rate shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B)(10). | | |
| 2. Compliance with the visible particulate emission limitation shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(1). | | |
| 3. Compliance with the sulfur dioxide emission limitation shall be determined in accordance with the test method and procedures in OAC 3745-18-04(A). | | |
| 4. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements: | | |
| a. The emission testing shall be conducted within 6 months prior to expiration of the permit. | | |
| b. The emission testing shall be conducted to demonstrate compliance with the particulate emission rate of 0.030 grain per dry standard cubic foot. | | |
| c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): USEPA Methods 1-5. | | |
| d. The test(s) shall be conducted while the emissions unit is operating at 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.

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).

F. **Miscellaneous Requirements**

1. None