

Facility ID: 1652050032 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: 1652050032 Emissions Unit ID: P002 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>        |
|---|---------------------------------------|---|
| Pangborn roto blast bar descaler              | OAC rule 3745-31-05<br>See F.1 below. | 2.0 lbs/hr of particulate matter                                |
|   | OAC rule 3745-17-07<br>See F.1 below. | 20% opacity as a six-minute average, except as provided by rule |
|   | OAC rule 3745-17-11<br>See F.1 below. | no visible emissions from building ventilation                  |

**2. Additional Terms and Conditions**

- (a) The permittee shall install, operate and maintain hoods, fans, and other equipment to enclose, contain, capture, and vent particulate emissions to a fabric filter. The collection efficiency of such equipment shall be sufficient to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with Best Available Technology.

**B. Operational Restrictions**

1. The average hourly process weight rate of steel bar descaling for this emissions unit shall be less than or equal to 24,000 pounds per hour.
2. The average hourly steel shot usage rate for this emissions unit shall be less than or equal to 100 pounds per hour.
3. The pressure drop across the baghouse (fabric filter) shall be maintained within the range of 2 to 4 inches of water while the emissions unit is in operation.

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

1. The permittee shall record the following process material quantities on a daily basis:
  - a. scaled steel bars entering the blaster cabinet, in pounds (i.e., quantity of scaled steel bars weighed prior to blasting);
  - b. steel shot used to blast scaled steel bars, in pounds;
  - c. descaled steel bars exiting the blaster cabinet, in pounds (quantity of descaled steel bars weighed after blasting);
  - d. the quantity of iron oxide and spent shot, resulting from descaling, in pounds;
  - e. the actual time that the blasting equipment operated, in hours;
  - f. the average hourly process weight rate of steel bar descaling, in lbs/hr [This quantity is obtained by dividing the quantity of scaled steel bar processed by the actual blasting time (i.e., a/e, from recorded values above).];
  - g. the average hourly steel shot usage rate, in lbs/hr [This quantity is obtained by dividing the steel shot usage by the actual blasting time (i.e., b/e, from recorded values above).]; and

h. the average hourly particulate matter emission rate, in lbs/hr (See Section E.1.a below for an explanation of how to calculate this quantity).

2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the average hourly steel bar descaling rate and/or the average hourly steel shot usage rate exceeded the rate(s) as specified in Sections B.1 and B.2 above.
2. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range as specified in Section B.3 above.
3. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the average hourly particulate emission limitation exceeded the rate as specified in Section A.1 above.

**E. Testing Requirements**

1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:

2.0 lbs/hr of particulate matter

Applicable Compliance Method:

The following material balance approach, supplied by the company, will be used to determine average hourly particulate emissions:

For each day of operations, subtract the summation of descaled steel bar, iron oxide, and spent steel shot weights from the summation of scaled steel bar and steel shot usage weights and divide the result by the actual blasting time. This yields the average hourly uncontrolled particulate emission rate, in lbs/hr.

This emissions unit is controlled by a baghouse with an assumed overall control efficiency of 98%, resulting in 2% particulate losses. Therefore, multiply the uncontrolled particulate emission rate above by the factor of 0.02 to obtain the average hourly controlled particulate emission rate, in lbs/hr.

Emission Limitation:

20% opacity as a six-minute average

Applicable Compliance Method:

OAC 3745-17-03(B)(1)

Emission Limitation:

no visible emissions from building ventilation

Applicable Compliance Method:

OAC 3745-17-03(B)(4)

**F. Miscellaneous Requirements**

1. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install 16-581, as issued on September 9, 1987: A, B, C, D and E.