

Facility ID: 1677010937 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: 1677010937 Emissions Unit ID: P001 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>
Induction heating, followed with drying and grit blasting	OAC rule 3745-31-05 See F.1 below.	0.34 lb/hr of particulate matter 1.5 tpy of particulate matter
	OAC rule 3745-17-07 See F.1 below.	20% opacity as a 6-minute average, except as provided by rule, for stack emissions
	OAC rule 3745-17-08	no visible particulate emissions from building ventilation (includes vents, windows, doors, etc.)  See A.2.e below.
	OAC rule 3745-17-11 See F.1 below.	

**2. Additional Terms and Conditions**

- (a) The permittee shall employ hoods, ducts, fans, and other equipment to adequately enclose, contain, capture, and vent odor emissions from the induction heaters to the two venturi scrubbers, that are currently installed and being used.  
The permittee shall employ hoods, ducts, fans, and other equipment to adequately enclose, contain, capture, and vent particulate matter from the grit blaster to a fabric filter (baghouse).  
The collection efficiencies of such equipment, for both the venturi scrubbers and the baghouse, shall be sufficient to eliminate or minimize odor and particulate emissions at their respective points of capture to the extent possible with Best Available Technology (BAT).  
Both the venturi scrubbers and the baghouse shall be installed and operated in accordance with the manufacturer's recommendations, instructions, and operating manual(s).  
The particulate matter mass emission limitation required in OAC rule 3745-17-11 is less stringent than the emission limitation required by BAT.

**B. Operational Restrictions**

1. The average hourly process weight rate of metal-cleaning for this emissions unit shall be less than or equal to 1500 pounds per hour.
2. The static gas stream pressure drop across each venturi scrubber shall be continuously maintained at a value of not less than 12 inches of water at all times, while the emissions unit is in operation.
3. Proper scrubber water flow for each venturi scrubber shall be continuously maintained, according to manufacturer's specifications, at all times, while the emissions unit is in operation.
4. The pH of the scrubber liquor for each venturi scrubber shall be maintained at pH 7.0 or above.
5. The pressure drop across the baghouse 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 information on a per customer job order basis to determine the average hourly process weight rate of metal-cleaning:

- a. identification of the customer job order of metal to be cleaned;
  - b. date(s) the job order was processed;
  - c. weight of metal to be cleaned, in pounds per job order;
  - d. actual metal-cleaning time, in hours per job order; and
  - e. the average hourly process weight rate for each job order, in pounds per hour (i.e., divide the metal weight of the job order by the actual metal-cleaning time of the job order).
2. The permittee shall properly calibrate, operate, and maintain equipment, in accordance with the manufacturer's recommendations, instructions and operating manual(s), to continuously monitor the static gas stream pressure drop across each venturi scrubber, while the emissions unit is in operation.
 

The permittee shall be able to determine the presence of proper scrubber water flow in each venturi scrubber, according to manufacturer's specifications, while the emissions unit is in operation.

The permittee shall collect and record the following information on a daily basis:

  - a. the static gas stream pressure drop across each venturi scrubber, in inches of water;
  - b. the presence of proper scrubber water flow in each venturi scrubber; and
  - c. a log or record of the downtime for the capture (collection) systems, control devices (venturi scrubbers), monitoring equipment, and the associated emissions unit.
3. The permittee shall properly monitor the pH of the scrubber liquor of each venturi scrubber on a daily basis, in accordance with the manufacturer's specifications, while the emissions unit is in operation.
4. The permittee shall have properly installed and shall properly calibrate, operate, and maintain equipment, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to monitor the pressure drop across the baghouse, while the emissions unit is in operation. The permittee shall record the pressure drop across the baghouse on a daily basis.

**D. Reporting Requirements**

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any job order record showing that the facility processed more than the allowable average hourly process weight rate, as listed in Section B.1 of this permit. A copy of such record shall be sent to the Director within 45 days after the exceedance occurs.
2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
  - a. the static gas stream pressure drop across each of the two venturi scrubbers; and
  - b. the presence of proper scrubber water flow, according to manufacturer's specification, in each venturi scrubber.
3. The permittee shall submit pH deviation (excursion) reports that identify all periods of time during which the scrubber liquor pH, for either or both venturi scrubbers, did not comply with the pH requirement as specified above.
4. 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 specified above.

**E. Testing Requirements**

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

Emission Limitation:

0.34 lb/hr of particulate matter  
1.5 tpy of particulate matter

Applicable Compliance Method:

Assume the metal pieces to be processed are 99% metal and 1% non-metal material (to be removed by the cleaning process). Also assume 100% of the non-metal material becomes airborne particulate matter during the process, but the overall particulate matter control efficiency (capture and design control) is 99%.

Therefore, to show compliance, multiply the average hourly process weight rate, in pounds per hour, by 0.01 (the assumed non-metal fraction of the metal process weight), then multiply by 0.01 (99% control efficiency), to calculate the average hourly controlled emission rate of particulate matter, in pounds per hour.

The 1.5 tpy limitation is based on an 8760 hrs/yr operating schedule.

Stack testing may be required to demonstrate compliance per OAC rule 3745-17-03(B)(10).

Emission Limitation:

no visible particulate emissions from building ventilation

Applicable Compliance Method:

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

Emission Limitation:

20% opacity from any stack, as a six-minute average

Applicable Compliance Method:

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

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 16-479, as issued on October 22, 1986: A, B, C, D and E.