

Facility ID: 1409010995 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: 1409010995 Emissions Unit ID: P001 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

**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>
P001 - Sandblasting	OAC rule 3745-17-07(B) (PTI 14-05874)	Visible particulate emissions of fugitive dust shall not exceed 20 per cent opacity as a three-minute average. The permittee shall utilize reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See section A.2.b. Particulate emissions (PE) shall not exceed 0.68 pound/hour and 2.98 tons/year.  Particulate matter emissions 10 microns and less in diameter (PM10) shall not exceed 0.10 pound/hour and 0.44 ton/year.  See sections A.2.a and A.2.c.  The requirements of this rule shall include compliance with the requirements of OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B).
	OAC rule 3745-17-08(B)	
	OAC rule 3745-31-05(A)(3)	

**2. Additional Terms and Conditions**

- (a) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of a water induction nozzle system, the use of tarping around the blast area and compliance with the visible emission limitations and mass emission limitations.  
The permittee shall employ reasonably available control measures while sandblasting metal parts 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 employ a water induction nozzle system and install tarping around the blast area to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.  
The hourly and annual emission limitations outlined above are based on the emission unit's potential to emit (PTE). Therefore, no emission records or reports are required to demonstrate compliance with these limitations.

**B. Operational Restrictions**

1. None

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

1. The permittee shall maintain records of the following information:
  - a. the dates the reasonably available control measures in term A.2.b were not employed while sandblasting metal parts.

**D. Reporting Requirements**

1. The permittee shall submit deviation reports to the Hamilton County Department of Environmental Services that identify the following occurrences:
  - a. each day during which sandblasting metal parts took place without employing the reasonably available control measures in term A.2.b.

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

**Emission Limitation:**

Visible particulate emissions of fugitive dust shall not exceed 20 percent opacity as a three-minute average.

**Applicable Compliance Method:**

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

**Emission Limitations:**

Particulate emissions (PE) shall not exceed 0.68 pound/hour and particulate matter emissions 10 microns and less in diameter (PM10) shall not exceed 0.10 pound/hour.

**Applicable Compliance Method:**

Hourly emissions of particulate emissions (PE) and particulate matter less than or equal to 10 microns in diameter (PM10) shall be calculated and compliance determined using the following equations.

$$\text{lb PE/hr} = (A) \times (B) \times (D)$$

$$\text{lb PM10/hr} = (A) \times (C) \times (D)$$

Where,

A = maximum hourly amount of abrasive used, in pounds/hour.

B = PE emission factor of 91 lbs/thousand lbs of abrasive used, from AP-42 Section 13.2.6 (September, 1997).

C = PM10 emission factor of 13 lbs/thousand lbs of abrasive used, from AP-42 Section 13.2.6 (September, 1997).

D = 0.975 = one minus an overall control efficiency of 97.5 percent, accounting for the use of a water nozzle and tarps.

**Emission Limitations:**

Particulate emissions (PE) shall not exceed 2.98 tons per year and Particulate matter emissions 10 microns and less in diameter (PM10) shall not exceed 0.44 ton per year.

**Applicable Compliance Method:**

Annual emissions of particulate emissions (PE) and particulate matter less than or equal to 10 microns in diameter (PM10) shall be calculated and compliance determined using the following equations.

$$\text{Tons PE/yr} = (A) \times (B) \times (D) \times 0.0005 \text{ tons/lb} \times 8760 \text{ hours per year.}$$

$$\text{Tons PM10/yr} = (A) \times (C) \times (D) \times 0.0005 \text{ tons/lb} \times 8760 \text{ hours per year.}$$

Where,

A = 300 pounds of abrasive per hour = maximum annual amount of abrasive used, in pounds/year.

B = PE emission factor of 91 pounds of PE/thousand pounds of abrasive used, from AP-42 Section 13.2.6 (September, 1997).

C = PM10 emission factor of 13 pounds of PE/thousand pounds of abrasive used, from AP-42 Section 13.2.6 (September, 1997).

D = 0.975 = one minus an overall control efficiency of 97.5 percent, accounting for the use of a water nozzle and tarps.

**F. Miscellaneous Requirements**

1. None