

Facility ID: 0857013042 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: 0857013042 Emissions Unit ID: K003 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>
K003 - Pneumatic Cylinder Painting Line	OAC rule 3745-31-05(A)(3) PTI 08-04837	The volatile organic compound (VOC) emissions from this emissions unit shall not exceed 84.0 pounds per day and 15.3 tons per year including manual wipe cleaning solvent and booth clean up.
		See A.2.a and B.1.
		The requirements established pursuant to this rule also include the requirements of OAC rule 3745-21-09(U)(1).
	OAC rule 3745-21-09(U)(2)(e)(i)	The permittee shall not use more than 8 gallons of coating material per day for the coating of miscellaneous metal parts.

2. **Additional Terms and Conditions**
  - (a) The 84.0 lbs VOC/day emissions limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

**B. Operational Restrictions**

1. The permittee shall operate the dry filtration system for control of particulate emissions whenever this emissions unit is in operation.

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

1. The permittee shall collect and record the following information each day for the coating line:
  - a. the name and identification of each coating employed;
  - b. the volume, in gallons, of each coating employed; and
  - c. the total volume, in gallons, of all of the coatings employed.
2. The permittee shall collect and record the following information each month for the purpose of determining annual VOC emissions:
  - a. the name and identification of each coating, solvent wipe, and booth cleanup material employed;
  - b. the number of gallons of each coating, solvent wipe, and booth cleanup material employed;
  - c. the VOC content of each coating, solvent wipe, and booth cleanup material, in pounds per gallon;
  - d. the total VOC emissions from all coatings, solvent wipe, and cleanup materials employed, in pounds or tons (the sum of b x c for all coatings, solvent wipe and cleanup materials).
3. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.

4. The permit to install for this emissions unit K003 was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied to this emissions unit for each toxic pollutant, using data from the permit to install application, and modeling was performed for the toxic pollutant(s) emitted at over a ton per year using the SCREEN 3.0 model or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the use of the SCREEN 3.0 (or other approved) model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as required in Engineering Guide #70. The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: 2-butoxyethanol (lowest MAGLC)  
 TLV (mg/m3): 96,663  
 Maximum Hourly Emission Rate (lbs/hr): 4.96 (toluene - highest emission rate)  
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 920  
 MAGLC (ug/m3): 2,301

5. The above described evaluation determined that the maximum ground level concentration for the new or modified source was less than 80% of the MAGLC. Per ORC 3704.03(F)(4)(b), the owner or operator shall submit an annual report that describes any changes to the emissions unit that affect the air toxic modeling. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
- changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound or chemical with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled, as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" ("Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices");
  - changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
  - physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

**D. Reporting Requirements**

- The permittee shall notify the Director (appropriate District Office or local air agency) in writing of any record showing that the dry filtration system was not in service when this emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (appropriate District Office or local air agency) within 30 days after the event occurs.
- The permittee shall notify the director (appropriate District Office or local air agency) in writing of any daily record showing that the coating line employed more than the applicable maximum daily coating usage limit of 8 gallons per day. The notification shall include a copy of such record and shall be sent to the Director (appropriate District Office or local air agency) within 45 days after the exceedance occurs.
- The permittee shall submit annual reports that describe any changes to this emissions unit which affect the air toxic modeling. If no changes were made during the year, then a report shall be submitted stating that no changes were made. This report is due by January 31 of each year and shall cover the previous calendar year.

**E. Testing Requirements**

- Compliance with the emission limitations in Section A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:  
 Emissions Limitation:  
 The permittee shall not use more than 8 gallons of coating material per day for the coating of miscellaneous metal parts.  
  
 Applicable Compliance Method:  
 Compliance shall be based upon the record keeping specified in Section C.1.  
 Emissions Limitation:  
 The VOC emissions from this emissions unit shall not exceed 84.0 pounds per day including manual wipe cleaning solvent and booth clean up.  
  
 Applicable Compliance Method:  
 Compliance shall be based upon the maximum daily VOC emissions from coating operations (8 gallons/day x 6.0 lbs VOC/gallon) plus the maximum daily VOC emissions from solvent wipe cleaning and booth clean up (6 gallons/day x 6.0 lbs VOC/gallon).  
 Emissions Limitation:  
 The VOC from this emissions unit shall not exceed 15.3 tons per year including manual wipe cleaning solvent and booth clean up.  
  
 Applicable Compliance Method:  
 Compliance shall be based upon the record keeping specified in Section C.2. and shall be the sum of the monthly VOC emission rates for each calendar year.

**F. Miscellaneous Requirements**

- None