

Facility ID: 1431404072 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: 1431404072 Emissions Unit ID: K001 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>
K001-Miscellaneous Metal Parts Paint Spray Booth	OAC rule 3745-31-05(A)(3) (PTI 14-04980)	Volatile Organic Compounds (VOC) emissions shall not exceed 17.5 pounds per day, excluding cleanup and 3.8 tons per year, including cleanup. The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(U)(1)(c)
	OAC rule 3745-21-09(U)(1)(c)	See terms A.2.a, A.2.b, B.1 and B.2. See term A.2.a.

2. **Additional Terms and Conditions**
 - (a) The volatile organic compound (VOC) content of each coating shall not exceed 3.5 pounds of VOC per gallon of coating, as applied, excluding water and exempt solvents.
The volatile organic compound (VOC) content of each cleanup material employed in this emissions unit shall not exceed 6.56 pounds of VOC per gallon.

B. Operational Restrictions

1. The maximum coating usage for this emissions unit shall not exceed 5 gallons per day and 1825 gallons per year, excluding water and exempt solvents.
2. The maximum cleanup material usage for this emissions unit shall not exceed 15.2 gallons per month and 183 gallons per year.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for this emissions unit:
 - a. The name and identification number of each coating, as applied.
 - b. The VOC content of each coating (excluding water and exempt solvents) in pounds per gallon, as applied.
 - c. The number of gallons (excluding water and exempt solvents) of each coating employed.
 - d. The name and identification number of each cleanup material employed.
 - e. The volume, in gallons, of each cleanup material employed.
 - f. The VOC content of each cleanup material, in pounds per gallon.
 - g. The total VOC emissions from all coatings employed in pounds per day (b x c).
2. The permittee shall maintain annual records of the volume, in gallons, of all coatings and cleanup materials employed in this emissions unit. This information can be a summary of the records collected in term C.1.

The permittee shall calculate annual VOC emissions with the following equation:

$$[(A \times B) + (C \times D)] / 2000$$

where:

A = gallons per year coatings employed
 B = VOC content of coatings in pounds per gallon
 C = gallons per year of cleanup material employed
 D = VOC content of cleanup material in pounds per gallon

3. The permit to install for this emissions unit was evaluated based on the actual materials (typically coatings and cleanup 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 for each pollutant emitted by this emissions unit using data from the permit to install application and the Screen 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Xylene

TLV (ug/m3): 434,000

Maximum Hourly Emission Rate (lbs/hr): 3.5

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 947.4

MAGLC (ug/m3): 10,333

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. 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");
- b. 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
- c. 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.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) meet(s) the definition of a "modification" under other provisions of the rule, then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy":

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of the evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit annual reports which identify any exceedances of coating and cleanup material usage limitations, as well as the corrective action that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
2. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record showing the use of noncomplying coatings and/or cleanup materials (i.e., for VOC contents) in this emissions unit. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days following the end of the calendar month.

E. Testing Requirements

1. Compliance with the emission and usage limitations in Sections A. and B. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
17.5 lbs/day VOC, excluding cleanup

Applicable Compliance Method
 Compliance shall be based upon the record keeping requirements as specified in Section C.1.

b. Emission Limitation:

3.8 TPY VOC, including cleanup

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Sections C.2.

c. Usage Limitations:

5 gallons per day and 1825 gallons per year of coating;

15.2 gallons per month and 183 gallons per year of cleanup material

Compliance shall be based upon the record keeping requirements as specified in Sections C.1. and C.2.

d. VOC content limitations:

3.5 pounds of VOC per gallon of coating, as applied, excluding water and exempt solvents;

6.56 pounds of VOC per gallon of cleanup material

Applicable Compliance Method:

USEPA Methods 24 and 24A shall be used to determine the VOC contents for the coatings and cleanup materials employed in this emissions unit. If, pursuant to 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or cleanup materials to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

F. **Miscellaneous Requirements**

1. None