Facility ID: 1431404110 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: 1431404110 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
miscellaneous metal parts paint booth	OAC rule 3745-31-05(A)(3) (PTI 14-05232)	98 lbs of volatile organic compound (VOC) emissions/day 5.25 tons per year (TPY) of VOC emissions The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(U)(1)(c). See Sections A.2.b and A.2.c below.
	OAC rule 3745-21-09(U)(1)(c)	See Section A.2.a below.

2. **Additional Terms and Conditions**

   (a) The VOC content, as applied, of each coating employed shall not exceed 3.5 pounds of VOC per gallon of coating, excluding water and exempt solvents.
   The VOC content from each cleanup material employed shall not exceed 7.0 pounds of VOC per gallon of cleanup material.
   The daily VOC emission limitation specified above is based on the emissions unit's potential to emit. Therefore, no daily records are required to demonstrate compliance with this limit.

B. **Operational Restrictions**

1. The maximum annual coating usage for this emissions unit shall not exceed 2,000 gallons per year, excluding water and exempt solvents.

2. The maximum annual cleanup material usage for this emissions unit shall not exceed 500 gallons per year.

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

1. The permittee shall collect and record the following information each month for this emissions unit:

   a. the name and identification number of each coating, as applied;

   b. the name and identification of each cleanup material employed;

   c. the VOC content of each coating, excluding water and exempt solvents, in pounds per gallon, as applied;

   d. the VOC content of each cleanup material employed, in pounds per gallon;

   e. the number of gallons of each cleanup material employed;

   f. the number of gallons of each coating, excluding water and exempt solvents;

   g. the total amount, in gallons, of all coatings employed, excluding water and exempt solvents [summation of (f) for all coatings employed in the calendar month];

   h. the total amount, in gallons, of all cleanup materials employed [summation of (e) for all cleanup material employed in the calendar month];

   i. the total VOC emissions from all coatings and cleanup materials employed, in pounds [the summation of (c x

f) for all coatings + (d x e) for all cleanup material].

2. The permittee shall maintain annual records of the following information for this emissions unit:

a. the total amount, in gallons, of all coating employed, excluding water and exempt solvents (summation of C.1.g for each month of the calendar year);

b. the total amount, in gallons, of all cleanup materials employed (summation of C.1.h for each month of the calendar year); and

c. the total VOC emissions, in tons (summation of C.1.i for each month of the calendar year, and divided by 2,000 lbs/ton).

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. Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxics 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 Acceptable Ground-Level Concentration (MAGLC).

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

Pollutant: 1,2,4-trimethylbenzene

TLV (ug/m3): 123,000

Maximum Hourly Emission Rate (lbs/hr): 3.5

Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m3): 233.3

MAGLC (ug/m3): 2,926

Physical changes to or 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 Toxics 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 Toxics Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxics Policy" will not be satisfied, the permittee shall not make the change. Changes that can affect the parameters used in the "Air Toxics Policy" include the following:
a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

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 Toxics Policy" will be satisfied with the above changes, Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], 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 satisfy the Air Toxics Policy":

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxics Policy"; and

c. when the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxics Policy" for the change.

D. **Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record showing the use of noncomplying coatings or cleanup materials (i.e., for VOC content) 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.

2. The permittee shall submit annual reports that summarize the total coating and cleanup material usages, in gallons, for the calendar year and the total VOC emissions, in tons, for the calendar year. These reports shall be submitted by January 31 of each year.

E. **Testing Requirements**

1. Compliance with the VOC emission limitations, VOC content limitations, and coating and cleanup material usage restrictions specified in Sections A and B shall be determined in accordance with the following methods:
VOC Emission Limitation: 98 lbs of VOC emissions/day

Applicable Compliance Method: The daily VOC emission limitation represents the emissions unit's potential to emit and was established by considering the maximum amount of coating and cleanup material to be employed

in a 24-hour period and multiplied by each constituent's maximum VOC content.

VOC Emission Limitation: 5.25 TPY of VOC emissions

Applicable Compliance Method: Compliance with the annual VOC emission limitation shall be based upon the record keeping requirements specified in Section C.2.

VOC Content Limitations: 3.5 lbs of VOC/gallon for coatings; 7.0 lbs of VOC/gallon for cleanup materials

Applicable Compliance Method: Compliance with the VOC content limitations shall be determined by the record keeping requirements specified in Section C.1.

Material Usage Restrictions: 2,000 gallons/year for coatings, excluding water and exempt solvents; 500 gallons/year for cleanup materials

Applicable Compliance Method: Compliance with the annual coating and cleanup material usage restrictions shall be determined by the record keeping requirements specified in Section C.2.

F. **Miscellaneous Requirements**

1. None