

Facility ID: 1409030906 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: 1409030906 Emissions Unit ID: K001 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>
paint spray booth for miscellaneous metal parts	OAC rule 3745-31-05 (PTI 14-4798)	All coatings: 23.16 lbs of volatile organic compound (VOC) per day and 4.23 tons per year (TPY) of VOC All cleanup materials: 9.94 lbs of VOC/day and 1.78 TPY of VOC See terms A.2. and B. exempt pursuant to OAC rule 3745-21-09(U)(2)(e)(ii)
	OAC rule 3745-21-09 (U)(1)	

2. **Additional Terms and Conditions**
 - (a) The VOC content of each coating employed in this emissions unit shall not exceed 7.72 pounds of VOC per gallon of coating, excluding water and exempt solvents, as applied.
The VOC content of each cleanup material employed in this emissions unit shall not exceed 7.1 pounds of VOC per gallon of cleanup material.

B. Operational Restrictions

1. The coating material usage shall not exceed 3.0 gallons per day and 1095 gallons per year.
2. The cleanup material usage shall not exceed 1.4 gallons per day and 500 gallons per year.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day of the coating operation:
 - a. The company identification number of each coating material employed.
 - b. The VOC content of each coating material, as applied, in pounds per gallon, excluding water and exempt solvents.
 - c. The number of gallons of each coating material employed, excluding water and exempt solvents.
 - d. The number of gallons of each coating material employed.
 - e. The name and identification of each cleanup material employed.
 - f. The number of gallons of each cleanup material employed.
 - g. The VOC content of each cleanup material, in pounds per gallon.
 - h. The total VOC emissions from all coatings employed (i.e., summation of b x c for each coating), in pounds.
 - i. The total VOC emissions from all cleanup materials employed (i.e., summation of f x g for each cleanup material), in pounds.
 - j. The total VOC emissions from all coatings and cleanup materials (i.e., the sum of h and i), in pounds.
 - k. The total coating material usage, in gallons per day (i.e., the summation of d for each coating material).

- I. The total cleanup material usage, in gallons per day (i.e., the summation of f for each cleanup material).
 2. The permittee shall collect and record the following information each year for this emissions unit:
 - a. The total VOC emissions (this is calculated as the sum of the daily VOC emissions in section C.1.j. for the calendar year divided by 2000 lbs/ton), in tons.
 - b. The total coating usage (this is calculated as the sum of the daily coating usage in section C.1.k. for the calendar year), in gallons.
 - c. The total cleanup material usage (this is calculated as the sum of the daily cleanup material usage in section C.1.l. for the calendar year), in gallons.
 3. The permittee shall collect and record the following information for each change where air toxic modeling was required pursuant to the Air Toxic Policy:
 - a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and
 - b. 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 notify the Hamilton County Department of Environmental Services in writing of any daily record showing the use of noncomplying coatings or cleanup materials (i.e., for VOC contents), any exceedance of the daily emission limitations for coatings and for cleanup materials, and/or any exceedance of the coating or cleanup material usage limitations. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
 2. The permittee shall submit annual reports which specify the total annual VOC emissions from this emissions unit and the annual coating and cleanup material usages in this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
- E. Testing Requirements**
1. Compliance with the emission limitations in Section A.1. and the material usage restrictions in Section A.2. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
23.16 lbs/day and 4.23 TPY of VOC from all coatings
9.94 lbs/day and 1.78 TPY of VOC from all cleanup materialsApplicable compliance method:
Compliance with the daily VOC emission limitations shall be based upon the record keeping performed pursuant to Section C.1. of this permit.

Compliance with the annual VOC emission limitations shall be based upon the record keeping performed pursuant to Section C.2.
 - b. Materials Usage Restrictions:
Coatings: 3.0 gallons per day and 1095 gallons per year
Cleanup: 1.4 gallons per day and 500 gallons per yearApplicable Compliance Method:
Compliance with the daily usage restrictions shall be based upon the record keeping performed pursuant to Section C.1. of this permit.

Compliance with the annual usage restrictions shall be based upon the record keeping performed pursuant to Section C.2. of this permit.
 2. USEPA method 24 shall be used to determine the VOC content for coatings. If, pursuant to section 4.3 of Method 24, 40 CFR, Part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24. USEPA Method 24 or formulation data shall be used to determine the VOC content for cleanup materials.
- F. Miscellaneous Requirements**
1. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. To fulfill the best available technology requirements of OAC rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitations specified in this permit were established using the Ohio EPA's "Air Toxic Policy" and are based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Pollutant 1: Methyl Silicate
TLV (ug/m3): 6,230
Maximum Hourly Emission Rate (lbs/hr): 0.125
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 78.71
MAGLC (ug/m3): 148

Pollutant 2: Ethyl Silicate

TLV (ug/m3): 85,200

Maximum Hourly Emission Rate (lbs/hr): 0.312
Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m3): 197.0
MAGLC (ug/m3): 2029

Pollutant 3: Xylene

TLV (ug/m3): 434,200
Maximum Hourly Emission Rate (lbs/hr): 2.17
Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m3): 1371.0
MAGLC (ug/m3): 10,338

Pollutant 4: Toluene

TLV (ug/m3): 188,400
Maximum Hourly Emission Rate (lbs/hr): 0.93
Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m3): 587.6
MAGLC (ug/m3): 4486

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

- 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 specified in the above table;
- b. Changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
- c. Changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and
- d. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

- a. The change is not otherwise considered a "modification" under OAC Chapter 3745-31;
- b. The permittee can continue to comply with the allowable emission limitations specified in its permit to install; and
- c. Prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitations established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.