

Facility ID: 1483060447 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: 1483060447 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>
K001 - Binks miscellaneous metal parts paint spray booth	OAC rule 3745-31-05(A)(3) PTI 14-05500	Volatile Organic Compound (VOC) emissions shall not exceed 18.4 pounds per day from the application of coatings and 6.7 pounds per day from cleanup material usage. Volatile Organic Compound (VOC) emissions shall not exceed 2.76 tons per year from the application of coatings and 0.34 ton per year from cleanup material usage. See terms and conditions (T&Cs) A.2.a, A.2.b, B.1, and B.2. The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(U)(2)(e)(ii). VOC emission exemption, based on maximum daily coating usage not exceeding 3 gallons of coating in any one day.
	OAC rule 3745-21-09(U)(2)(e)(ii)	

2. Additional Terms and Conditions

- (a) The maximum VOC content of each coating employed in emissions unit K001 shall not exceed 6.13 pounds of VOC per gallon of coating, as applied.
The maximum VOC content of each cleanup material employed in emissions unit K001 shall not exceed 6.7 pounds of VOC per gallon of cleanup material, as applied.
Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the VOC content limitations, compliance with the usage limitations and compliance with the VOC emissions limitations.

B. Operational Restrictions

1. The maximum daily usage of coatings employed in emissions unit K001 shall not exceed 3 gallons per day as applied. The maximum annual usage of coatings employed in emissions unit K001 shall not exceed 900 gallons per year as applied.
2. The maximum daily usage of cleanup materials employed in emissions unit K001 shall not exceed 1 gallon per day, as applied. The maximum annual usage of cleanup materials employed in emissions unit K001 shall not exceed 100 gallons per year, as applied.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for emissions unit K001:
 - a. the name and identification number of each coating and cleanup material;
 - b. the volume in gallons, as applied, of each coating employed;
 - c. the total volume, in gallons, of all of the coatings employed;

- d. the volume in gallons, as applied, of each cleanup material employed;
 - e. the VOC content of each coating employed, in pounds VOC per gallon of coating, as applied;
 - f. the VOC content of each cleanup material employed, in pounds VOC per gallon of coating, as applied; and
 - g. the VOC emissions from the application of coatings and cleanup materials, in pounds VOC per day [the summation of b multiplied by e for the coating(s) and d multiplied by f for the cleanup material(s) employed in K001, respectively].
2. The permit to install for this emissions unit (K001) 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 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: n-butyl acetate

TLV (ug/m3): 712,600

Maximum Hourly Emission Rate (lbs/hr): 2.43

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 149.9

MAGLC (ug/m3): 16,967

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 notify the Hamilton County Department of Environmental Services of any daily record showing that emissions unit K001 employed coatings and/or cleanup materials that exceeded the applicable maximum VOC content limits outlined in T&Cs A.2.a and A.2.b. A copy of such record shall be sent to the Hamilton County Department of Environmental Services within 45 days after the exceedance(s) occurred. For each VOC content limit exceedance the permittee shall also identify if an exceedance of the applicable daily VOC emissions limit occurred.
- 2. The permittee shall notify the Hamilton County Department of Environmental Services of any daily record showing that emissions unit K001 employed more than the applicable maximum daily coating usage limit outlined in T&C B.1. A copy of such record shall be sent to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurred. For each usage limit exceedance the permittee shall also identify if an exceedance of the applicable daily VOC emissions limit occurred.
- 3. The permittee shall notify the Hamilton County Department of Environmental Services of any daily record showing that emissions unit K001 employed more than the applicable maximum daily cleanup material usage limit outlined in T&C B.2. A copy of such record shall be sent to the Hamilton County Department of Environmental

Services within 45 days after the exceedance occurred. For each usage limit exceedance the permittee shall also identify if an exceedance of the applicable daily VOC emissions limit occurred.

4. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services which specify the total VOC emissions from emissions unit K001 for the previous calendar year. This report shall also specify the total volume, in gallons, of coatings employed in emissions unit K001 and the total volume, in gallons, of cleanup materials employed in emissions unit K001 for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Emissions Limitations:

18.4 lbs of VOC/day from the application of coatings.
6.7 lbs of VOC/day from cleanup material usage.

Applicable Compliance Method:

Compliance with the daily VOC emissions limitations shall be demonstrated by the recordkeeping requirement in T&C C.1.g.

2. Emissions Limitations:

2.76 TPY of VOC from the application of coatings.
0.34 TPY of VOC from cleanup material usage.

Applicable Compliance Method:

Compliance with the annual VOC emissions limitations shall be demonstrated by a summation of the daily VOC emissions as recorded in T&C C.1.g for coatings and a summation of the daily VOC emissions as recorded in T&C C.1.g for cleanup materials, and the summations divided by 2000 pounds, such that the summations equal tons per year (TPY) VOC emissions.

3. Emissions Limitations:

6.13 pounds of VOC per gallon of coating, as applied,
6.7 pounds of VOC per gallon of cleanup material, as applied

Applicable Compliance Method:

USEPA methods 24 and 24A shall be used to determine the VOC content for coatings and cleanup materials, respectively. 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 cleanup material, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or cleanup material to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

4. Compliance with the usage limitations in T&C B.1 and B.2 shall be demonstrated by the record keeping in T&C C.1 and D.4.

F. Miscellaneous Requirements

1. None