

Facility ID: 1431424086 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: 1431424086 Emissions Unit ID: P001 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>
P001-Squeeze rolls resin coater with drying oven - Modification	OAC rule 3745-31-05(A)(3) PTI 14-05460	Volatile Organic Compound (VOC) emissions shall not exceed 4.92 pounds per hour and 17.1 TPY from coatings only. See terms A.2.b and B.1. Dryer emissions from natural gas: 0.046 lb PM/PM10/hr, 0.20 TPY PM/PM10 0.004 lb SO2/hr, 0.016 TPY SO2 0.6 lb NOx/hr, 2.63 TPY NOx 0.5 lb CO/hr, 2.21 TPY CO 0.066 lb VOC/hr, 0.29 TPY VOC The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D). See term A.2.d.
	OAC rule 3745-31-05(C)	

2. **Additional Terms and Conditions**
 - (a) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emissions limitations, the VOC content limitation, the usage limitation and the Air Toxics Policy. The VOC content of the coatings employed in this emissions unit shall not exceed 0.322% by weight. The hourly emission limitations outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limits. The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act from emissions units P001, P002, other de minimus air contaminant source, as defined in OAC rule 3745-15-05, and other air contaminant sources exempt from the requirement to obtain a permit-to-install pursuant to OAC rule 3745-31-03 installed subsequent to the issuance of this permit, combined, shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

B. Operational Restrictions

1. The maximum annual coating usage for this emissions unit shall not exceed 10,577,400 pounds.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each month for this emissions unit:
 - a. The company identification for each coating employed.
 - b. The number of pounds of each coating employed.
 - c. The volatile organic compound content of each coating, in percent by weight.
 - d. The total VOC emission rate for all coatings employed, in tons per month (b x c) /2000.
2. The permit to install for this emissions unit P001 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: Acrylamide
 TLV (ug/m3): 30
 Maximum Hourly Emission Rate (lbs/hr): 0.00003
 Predicted 1-Hour Maximum Ground-Level
 Concentration (ug/m3): 0.00187
 MAGLC (ug/m3): 0.714

Pollutant: Formaldehyde
 TLV (ug/m3): 368 (Ceiling Value)
 Maximum Hourly Emission Rate (lbs/hr): 0.06
 Predicted 1-Hour Maximum Ground-Level
 Concentration (ug/m3): 3.7
 MAGLC (ug/m3): 6.5

Physical changes to or in the method of operation of the emissions unit after it's 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 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 the "Air Toxic 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 Toxic Policy" will be satisfied with the above changes, the 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 Toxic Policy:"

- a. A description of the parameters changed(composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. Documentation of it's evaluation and determination that the changed emissions unit still satisfies the "Air Toxic 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 Toxic Policy" for the change.

3. The permittee shall collect and record the following information each month for the emission units identified in term A.2.d:
 - a. the name and identification number of each coating, employed;
 - b. the individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
 - c. the total combined HAP content of each coating in pounds of combined HAPs per gallon of coating, as applied [sum all the individual HAP contents from (b)];
 - d. the number of gallons of each coating employed;
 - e. the name and identification of each cleanup material employed;
 - f. the individual HAP content for each HAP of each cleanup material, in pounds of individual HAP per gallon of cleanup material, as applied;
 - g. the total combined HAP content of each cleanup material, in pounds of combined HAPs per gallon of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. the number of gallons of each cleanup material employed;
 - i. the total individual HAP usage for each HAP from all coatings and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) for each coating plus the sum of (f) times (h) for

each cleanup material];

- j. the total combined HAP usage from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) for each coating plus the sum of (g) times (h) for each cleanup material];
- k. the updated rolling, 12-month summation of usage for each individual HAP emissions**, in pounds or tons. This shall include the information for the current month and the preceeding eleven calender months.
- l. the updated rolling, 12-month summation of usage for total combined HAP emissions**, in pounds or tons. This shall include the information for the current month and the preceeding eleven calender months.

* A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Hamilton County Department of Environmental Services contact. This information does not have to be kept on a individual emissions unit basis.

** This assumes the HAP(s) emitted are the same as the amounts of HAP(s) used since all HAP(s) used evaporated.

D. Reporting Requirements

- 1. The permittee shall submit annual reports which identify any exceedance of the annual coating usage or VOC content limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
- 2. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP usage limitations set forth in term A.2.d. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.

E. Testing Requirements

- 1. Compliance with the coating usage limitation in section B.1 shall be demonstrated by the required recordkeeping in section C.1.
- 2. Formulation data or USEPA method 24 shall be used to determine the organic compound contents of the coatings employed in this emissions unit.
- 3. Compliance with the HAP emissions limitation in term A.2.d will be demonstrated by the record keeping in section C.2.
- 4. Emissions Limitation:
Volatile Organic Compound (VOC) emissions shall not exceed 4.92 pounds per hour and 17.1 TPY from coatings only.

Applicable Compliance Method:

The OC emissions are calculated by multiplying the pounds of coating used by the maximum VOC content, by weight, as identified in term A.2.b. The annual limit is determined by multiplying the maximum usage rate identified in term B.1 by maximum VOC content, by weight, as identified in term A.2.b, and dividing by 2000 lb/ton.

- 5. Emissions Limitation:
0.046 lb/hr PM/PM10
0.20 TPY PM/PM10

Applicable Compliance Method:

The hourly limit is determined by multiplying the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 7.6 lbs PM/MM ft3 by the maximum natural gas usage rate of 0.006 MM ft3/hr. The annual limit is determined by multiplying the hourly rate by the maximum hours of operation, 8760 hr/yr, and dividing by 2000 lb/ton.

- 6. Emissions limitation:
0.004 lb/hr SO2
0.016 TPY SO2

Applicable Compliance Method:

The hourly limit is determined by multiplying the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 0.6 lbs SO2/MM ft3 times the natural gas usage of 0.006 MM ft3/hr. The annual limit is determined by multiplying the hourly rate by the maximum hours of operation, 8760 hr/yr, and dividing by 2000 lb/ton.

- 7. Emissions limitation:
0.066 lb/hr VOC
0.29 TPY VOC

Applicable Compliance Method:

The hourly limit is determined by multiplying the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 11 lbs VOC/MM ft3 times the natural gas usage of 0.006 MM ft3/hr. The annual limit is determined by multiplying the hourly rate by the maximum hours of operation, 8760 hr/yr, and dividing by 2000 lb/ton.

- 8. Emissions limitation:
0.6 lb/hr NOx
2.63 TPY NOx

Applicable Compliance Method:

The hourly limit is determined by multiplying the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 100 lbs NO_x/MM ft³ times the natural gas usage of 0.006 MM ft³/hr. The annual limit is determined by multiplying the hourly rate by the maximum hours of operation, 8760 hr/yr, and dividing by 2000 lb/ton.

9. Emissions limitation:
0.5 lb/hr CO
2.21 TPY CO

Applicable Compliance Method:

The hourly limit is determined by multiplying the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 84.0 lbs CO/MM ft³ times the natural gas usage 0.006 MM ft³/hr. The annual limit is determined by multiplying the hourly rate by the maximum hours of operation, 8760 hr/yr, and dividing by 2000 lb/ton.

F. **Miscellaneous Requirements**

1. The following terms and conditions of this permit are federally enforceable: A., B., C.1, C.2, C.4 D. and E.