

Facility ID: 1677120066 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.

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Facility ID: 1677120066 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>
miscellaneous metal parts coating line with drying/curing oven	OAC rule 3745-31-05 (PTI 16-1810)	7.83 lbs/hr of volatile organic compounds (VOC)* 34.3 tpy of VOC*
		0.49 lb/hr of particulates 2.1 tpy of particulates
		See A.2, B.1, and B.2 below.
		* includes VOC emissions from coatings and prepping/cleanup materials
	OAC rule 3745-21-09	3.5 pounds VOC per gallon of coating, excluding water and exempt solvents, for coatings dried at temperatures not exceeding 200 degrees Fahrenheit
	OAC rule 3745-17-07	The visible particulate emissions limitation based on OAC rule 3745-17-07 is less stringent than the limitation based on OAC rule 3745-31-05.
	OAC rule 3745-17-11	The mass particulate emissions limitation based on OAC rule 3745-17-11 is less stringent than the limitation based on OAC rule 3745-31-05.

2. Additional Terms and Conditions

- (a) The hourly and annual VOC and particulate emission limitations are based on the emissions unit's potential to emit. Therefore, no recordkeeping, reporting, or emissions calculations are required to demonstrate compliance with these limits. Pursuant to the best available technology (BAT) requirements for new emissions units, as covered under OAC rule 3745-31-05, the permittee shall perform the following for this emissions unit:
 - i. employment of properly installed and maintained spray booth exhaust fan filter elements in accordance with the manufacturer's recommendations, instructions, and operating manual(s); and
 - ii. employment of electrostatic dry powder coatings and high solids-content liquid coatings. Visible particulate emissions from any stack shall not exceed 5% opacity. There shall be no visible particulate emissions from the building ventilation, including, but not limited to, all doors, windows, and vents.

B. Operational Restrictions

1. The permittee shall only employ natural gas as fuel in the drying/curing oven associated with this emissions unit.
2. The permittee shall employ only the coating formulations, as specified in the permit application, in this emissions unit, except when a lower VOC, hazardous air pollutant (HAP), and/or particulates emitting coating formulation can be employed, provided no violations result of the emission limits and the OEPA "Air Toxics Policy" (see sections C.2, F.1, F.2, and F.3 below), as established in the permit to install.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month for each emissions unit:
 - a. the name and identification number of each coating, as applied; and
 - b. the VOC content of each coating (excluding water and exempt solvents), as applied.
 2. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
 - a. the 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 Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
- E. Testing Requirements**
1. Compliance with the emission limitations in sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:

3.5 pounds of VOC per gallon of coating, excluding water and exempt solvents, for coatings dried at temperatures not exceeding 200 degrees Fahrenheit

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section C.1. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24 shall be used to determine the VOC contents of the coatings. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, the permittee 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.

Emission Limitations:

7.83 lbs/hr of VOC
34.3 tpy of VOC

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above emission limitations based upon the emissions unit's potential to emit.

Emission Limitation:

5% opacity from any stack

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

Emission Limitation:

no visible particulate emissions from the building ventilation

Applicable Compliance Method:

40 CFR Part 60, Appendix A, Method 22

Emission Limitation:

0.49 lb/hr of particulates
2.1 tpy of particulates

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above emission limitations based upon the emissions unit's potential to emit.
- 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 Ohio Administrative Code (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The 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 methyl n-amyl ketone:

Pollutant: methyl n-amyl ketone (CAS 110-43-0)

TWA (ug/m3): 233,000
Maximum Average Hourly Facility-Wide Emission Rate (lbs/hr): 7.5

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 600
 MAGLC (ug/m3): 5550

2. 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 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.
3. The 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 limitation(s) 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.

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Facility ID: 1677120066 Emissions Unit ID: K002 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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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>
miscellaneous metal parts coating line with drying/curing oven	OAC rule 3745-31-05 (PTI 16-1810)	7.83 lbs/hr of volatile organic compounds (VOC)* 34.3 tpy of VOC* 0.49 lb/hr of particulates 2.1 tpy of particulates See A.2, B.1, and B.2 below.
	OAC rule 3745-21-09	* includes VOC emissions from coatings and prepping/cleanup materials 3.5 pounds VOC per gallon of coating, excluding water and exempt solvents, for coatings dried at

OAC rule 3745-17-07	temperatures not exceeding 200 degrees Fahrenheit The visible particulate emissions limitation based on OAC rule 3745-17-07 is less stringent than the limitation based on OAC rule 3745-31-05.
OAC rule 3745-17-11	The mass particulate emissions limitation based on OAC rule 3745-17-11 is less stringent than the limitation based on OAC rule 3745-31-05.

2. Additional Terms and Conditions

- (a) The hourly and annual VOC and particulate emission limitations are based on the emissions unit's potential to emit. Therefore, no recordkeeping, reporting, or emissions calculations are required to demonstrate compliance with these limits.
Pursuant to the best available technology (BAT) requirements for new emissions units, as covered under OAC rule 3745-31-05, the permittee shall perform the following for this emissions unit:
 - i. employment of properly installed and maintained spray booth exhaust fan filter elements in accordance with the manufacturer's recommendations, instructions, and operating manual(s); and
 - ii. employment of electrostatic dry powder coatings and high solids-content liquid coatings.
Visible particulate emissions from any stack shall not exceed 5% opacity.
There shall be no visible particulate emissions from the building ventilation, including, but not limited to, all doors, windows, and vents.

B. Operational Restrictions

- 1. The permittee shall only employ natural gas as fuel in the drying/curing oven associated with this emissions unit.
- 2. The permittee shall employ only the coating formulations, as specified in the permit application, in this emissions unit, except when a lower VOC, hazardous air pollutant (HAP), and/or particulates emitting coating formulation can be employed, provided no violations result of the emission limits and the OEPA "Air Toxics Policy" (see sections C.2, F.1, F.2, and F.3 below), as established in the permit to install.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall collect and record the following information each month for each emissions unit:
 - a. the name and identification number of each coating, as applied; and
 - b. the VOC content of each coating (excluding water and exempt solvents), as applied.
- 2. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
 - a. the 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 Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.

E. Testing Requirements

- 1. Compliance with the emission limitations in sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

3.5 pounds of VOC per gallon of coating, excluding water and exempt solvents, for coatings dried at temperatures not exceeding 200 degrees Fahrenheit

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section C.1. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24 shall be used to determine the VOC contents of the coatings. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, the permittee 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.
Emission Limitations:

7.83 lbs/hr of VOC
34.3 tpy of VOC

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above emission limitations based upon the emissions unit's potential to emit.
Emission Limitation:

5% opacity from any stack

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

Emission Limitation:

no visible particulate emissions from the building ventilation

Applicable Compliance Method:

40 CFR Part 60, Appendix A, Method 22

Emission Limitation:

0.49 lb/hr of particulates

2.1 tpy of particulates

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above emission limitations based upon the emissions unit's potential to emit.

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 Ohio Administrative Code (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The 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 methyl n-amyl ketone:

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MAGLC (ug/m3): 5550

2. 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 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.
3. The 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 limitation(s) 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.