

Facility ID: 0125042330 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: 0125042330 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 booth for automotive refinishing with water wash and filter on the booth exhaust outlet. | OAC rule 3745-31-05 (PTI 01-6601) | Volatile organic compound (VOC) emissions shall not exceed 4.0 lbs/hr and 1.4 tons/yr. |
| | OAC rule 3745-17-11(B)(1) (Table 1) | See B.2 below. Particulate emissions shall not exceed 0.551 lb/hr. |
| | OAC rule 3745-21-09(U) | None, exempt pursuant to paragraph (U)(2)(c) of OAC rule 3745-21-09. |

2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

1. The permittee shall use the water wash and filter on the emissions unit's exhaust outlet when the emissions unit is in operation.
2. The permittee shall use no more than 424 gallons of coatings/yr in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for the coating operation:
 - a. The company identification for each coating and cleanup material employed.
 - b. The number of gallons of each coating and cleanup material employed.
 - c. The total number of gallons of all coatings employed.
 - d. The VOC content of each coating and cleanup material, in pounds per gallon.
 - e. The total VOC emission rate for all coatings and cleanup materials, in pounds per day.
 - f. The total number of hours the emissions unit was in operation.
 - g. The average hourly VOC emission rate for all coatings and cleanup materials, i.e., (e)/(f), in pounds per hour (average).

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include an identification of each day during which the average hourly total VOC emissions exceeded 4.0 lbs/hr, and the actual average hourly organic compound emissions for each such day.
2. The permittee shall also submit annual reports which specify the following information for this emissions unit for

the previous calendar year:

- a. The total VOC emissions, in tons.
- b. The total number of gallons of all coatings employed.

These reports shall be submitted by January 31 of each year.

E. Testing Requirements

- 1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitations:
VOC emissions shall not exceed 4.0 lbs/hr and 1.4 tons/yr.

Applicable Compliance Method:
Compliance with these emission limitations shall be determined based upon the records required pursuant to Section C. Formulation data or USEPA Method 24 shall be used to determine the VOC content of the coatings and cleanup materials.
Emission Limitations:
Particulate emissions shall not exceed 0.551 lb/hr.

Applicable Compliance Method:
To determine the actual worst case emission rate for particulates, the following equation shall be used:

$$E = (M) * (1-TE) * (1-CE)$$

where:

E = particulate matter emission rate (lb/hr),
M = maximum coating solids usage rate (lb/hr),
TE = transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, 0.65 for HVLP spray guns),
CE = control efficiency of the control equipment (90% for panel filters; assume 90% for water wash unless manufacturer's data available). If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) terms for each additional piece of equipment.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

F. Miscellaneous Requirements

- 1. None

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Facility ID: 0125042330 Emissions Unit ID: K002 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 booth for automotive refinishing with water wash and filter on the booth exhaust outlet. | OAC rule 3745-31-05 (PTI 01-6601) | Volatile organic compound (VOC) emissions shall not exceed 4.0 lbs/hr and 1.4 tons/yr. |
| | OAC rule 3745-17-11(B)(1) (Table 1) | See B.2 below. Particulate emissions shall not exceed 0.551 lb/hr. |
| | OAC rule 3745-21-09(U) | None, exempt pursuant to paragraph (U)(2)(c) of OAC rule 3745-21-09. |

2. **Additional Terms and Conditions**

(a) None

B. **Operational Restrictions**

1. The permittee shall use the water wash and filter on the emissions unit's exhaust outlet when the emissions unit is in operation.
2. The permittee shall use no more than 424 gallons of coatings/yr in this emissions unit.

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

1. The permittee shall collect and record the following information for each day for the coating operation:
 - a. The company identification for each coating and cleanup material employed.
 - b. The number of gallons of each coating and cleanup material employed.
 - c. The total number of gallons of all coatings employed.
 - d. The VOC content of each coating and cleanup material, in pounds per gallon.
 - e. The total VOC emission rate for all coatings and cleanup materials, in pounds per day.
 - f. The total number of hours the emissions unit was in operation.
 - g. The average hourly VOC emission rate for all coatings and cleanup materials, i.e., (e)/(f), in pounds per hour (average).

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

D. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which include an identification of each day during which the average hourly total VOC emissions exceeded 4.0 lbs/hr, and the actual average hourly organic compound emissions for each such day.
2. The permittee shall also submit annual reports which specify the following information for this emissions unit for the previous calendar year:
 - a. The total VOC emissions, in tons.
 - b. The total number of gallons of all coatings employed.

These reports shall be submitted by January 31 of each year.

E. **Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitations:
VOC emissions shall not exceed 4.0 lbs/hr and 1.4 tons/yr.

Applicable Compliance Method:

Compliance with these emission limitations shall be determined based upon the records required pursuant to Section C. Formulation data or USEPA Method 24 shall be used to determine the VOC content of the coatings and cleanup materials.

Emission Limitations:

Particulate emissions shall not exceed 0.551 lb/hr.

Applicable Compliance Method:

To determine the actual worst case emission rate for particulates, the following equation shall be used:

$$E = (M) * (1-TE) * (1-CE)$$

where:

E = particulate matter emission rate (lb/hr),

M = maximum coating solids usage rate (lb/hr),

TE = transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, 0.65 for HVLP spray guns),

CE = control efficiency of the control equipment (90% for panel filters; assume 90% for water wash unless manufacturer's data available). If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) terms for each additional piece of equipment.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

F. **Miscellaneous Requirements**

1. None