

Professional Auto Care  
PTI #01-6899  
0125042367

### Additional Terms and Conditions

#### **A. Operational Restrictions**

1. The permittee shall ensure that all polyester filters are in place and operating correctly during all times of emission unit use.
2. Monthly paint booths coating usage shall be limited as follows:
  - a. Paint booth 1 (K001) - 45 gallons coating/month
  - b. Paint booth 2 (K002) - 130 gallons coating/month
  - c. Paint booth 3 (K003) - 45 gallons coating/month

#### **B. Record Keeping Requirements**

1. The permittee shall collect and record the following information each month for each booth for the purpose of determining VOC emissions:
  - a. The name and identification number of each coating and clean-up material, as applied.
  - b. The VOC content of each coating and clean-up material in pounds per gallon (excluding water and exempt solvents), as applied (see D.2.d below).
  - c. The number of gallons of each coating and clean-up material used.
  - d. The total VOC emissions from all coatings and clean-up materials employed, in pounds or tons. (See D.2.b.ii below).
2. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five (5) years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

#### **C. 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 an exceedance of the annual VOC limitations or gallon usage limitations. The notification shall

include a copy of such record.

2. 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.
3. The permittee shall submit, on an annual basis, a report containing VOC emissions for the previous year. The amount of each coating and clean-up material used and its VOC content shall also be included in this report.
4. The permittee shall submit required reports in the following manner:
  - a. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **D. Compliance Determination**

Compliance with the emissions limitations of these terms and conditions shall be determined in accordance with the following method(s):

##### 1. Emissions Limitations:

Paint booth 1 (K001):

- a. Use of no more than 45 gallons of coating per month;
- b. 1.81 tons VOC per year;
- c. 10 pounds VOC per hour;
- d. Maximum VOC content 6.7 pounds per gallon of coating, "as-applied";
- e. 0.024 ton PM per year.

Paint booth 2 (K002):

- a. Use of no more than 130 gallons of coating per month;
- b. 5.23 tons VOC per year;

- c. 10 pounds VOC per hour;
- d. Maximum VOC content 6.7 pounds per gallon of coating, "as-applied";
- e. 0.069 ton PM per year

Paint booth 3 (K003):

- a. Use of no more than 45 gallons of coating per month;
- b. 1.81 ton VOC per year;
- c. 10 pounds VOC per hour;
- d. Maximum VOC content 6.7 pounds per gallon of coating, "as-applied";
- e. 0.024 ton PM per year

2. Applicable Compliance Methods (D.2.a through D.2.e below correspond to each emissions limitation D.1.a through D.1.e above. Compliance methods are identical for each emission unit):

- a. Compliance with Record keeping requirements B above. Total monthly coating usage shall be determined by adding the number of gallons (B.2 above) of each coating used.
- b. Compliance shall be determined through the following:
  - i. Record keeping requirements (B) above.
  - ii. Each coating/clean-up material VOC content shall be multiplied by the number of gallons of that coating/clean-up material used during the month. The resulting products shall be added for the monthly VOC emissions. These total monthly emissions shall be added for the year to determine annual VOC emissions.
- c. Compliance with VOC coating content limitation. 10 lb VOC/hr represents the maximum hourly VOC emission rate. No record keeping is required.
- d. OAC rule 3745-21-10(B). USEPA Methods 24 and 24A shall be used to determine the VOC contents for (a) coatings and (b) flexographic and rotogravure printing inks and related coatings, respectively. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.
- e. Use of water wash and polyester filter during all periods of paint booth operation. PM emissions are determined by the following equation:

$$(SC) * (Va) * (1-TE) * (1-FE) = PM \text{ emitted}$$

Where:

SC = solids content of the coating applied in pounds per gallon;

Va = volume of coating applied in gallons;

TE = transfer efficiency of painting equipment in decimal form (use 0.40);

FE = filter efficiency in decimal form (use 0.98);

PM emitted = particulate matter emitted in pounds

## **E. Special Terms and Conditions**

Within 30 days of the issuance of this permit, the permittee shall have the following modifications to the existing paint booths completed. The permittee shall submit to the appropriate field office copies of invoices and a statement certifying that all modifications were completed including dates of completion and the name of the contractor completing the modifications. This documentation shall be submitted to the appropriate field office within one week of the work being completed:

1. Paint booth 1 (K001): The stack shall be 18 inch diameter and fitted with an exhaust fan capable of forcing at least 5000 cubic feet per minute of exhaust gas. The stack shall extend two feet above the roof line for a total height of 20 feet. The stack shall direct exhaust gases vertically upward and be unobstructed.
2. Paint booth 2 (K002): The existing 32 inch diameter stack shall be modified to extend two feet above the roof line for a total height of 20 feet. The stack shall exhaust vertically upward and be unobstructed.
3. Paint Booth 3 (K003): The existing 18 inch diameter stack shall be modified to extend two feet above the roof line for a total height of 20 feet. The stack shall exhaust vertically upward and be unobstructed.

## **E. Miscellaneous Terms and Conditions**

The maximum hourly VOC emissions for each emissions unit is 10 lb VOC/hr. This represents the maximum potential hourly emissions. Annual potential to emit is based on the maximum monthly usages of each paint booth. The maximum monthly paint usages for each booth are as follows:

Paint booth 1 (K001) - 45 gallons/month

Paint booth 2 (K002) - 130 gallons/month

Paint booth 3 (K003) - 45 gallons/month

Based on these numbers, the facility annual potential to emit (due to paint usage) is 8.84 tons VOC/yr.