Facility ID: 1677000246 Issuance type: Final State Permit To Operate

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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

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
vapor degreaser - solvent metal cleaning	OAC rule 3745-31-05 (PTI 16-1793)	6.0 lbs/hr of volatile organic compounds (VOC) 26.3 tpy of VOC See A.2 below.
	OAC rule 3745-21-09(O)	

2. **Additional Terms and Conditions**

   (a) The open top vapor degreaser shall employ a cover and safety switches as described below:

   i. a cover that can be opened and closed easily without disturbing the vapor zone;

   ii. a condenser flow switch and thermostat or any other device which shuts off the sump heat if the condenser coolant is either not circulating or too warm;

   iii. a spray safety switch which shuts off the spray pump if the vapor level drops below any fixed spray nozzle;

   iv. a vapor level control thermostat or any other device which shuts off the sump heat when the vapor level rises too high; and

   v. a water flow switch, water pressure switch, or any other device which shuts off the sump heat if the water in a water-cooled condenser has no flow or no pressure, whichever is being monitored.
   A freeboard with a freeboard ratio greater than or equal to 0.75 shall be maintained, and if the open top vapor degreaser opening is greater than 10 square feet, the cover must be powered or equipped with mechanical features whereby it can be readily closed when the degreaser is not in use.
   The permittee shall operate and maintain a refrigerated chiller for the open top vapor degreaser.

B. **Operational Restrictions**

1. The permittee shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit.

2. The open top vapor degreaser shall be operated and maintained in accordance with the following practices to minimize solvent evaporation from the unit:

   a. keep the cover closed at all times except when processing work loads through the degreaser;

   b. minimize solvent carry-out by:

   i. racking parts so that solvent drains freely and is not trapped;

   ii. moving parts in and out of the degreaser at less than 11 feet per minute;

   iii. holding the parts in the vapor zone at least 30 seconds or until condensation ceases, whichever is longer;

   iv. tipping out any pools of solvent on the cleaned parts before removal from the vapor zone;

v. allowing parts to dry within the degreaser for at least 15 seconds or until visually dry, whichever is longer;

c. clean only materials that are neither porous nor absorbent;

d. occupy no more than one-half of the degreaser's open-top area with a workload;

e. always spray within the vapor level;

f. repair solvent leaks immediately, or shut down the degreaser;

g. store waste solvent only in covered containers;

h. operate the cleaner such that water cannot be visually detected in solvent exiting the water separator;

i. use no ventilation fans near the degreaser opening;

j. when the cover is open, do not expose the open top vapor degreaser to drafts greater than 131 feet per minute, as measured between 3 and 6 feet upwind and at the same elevation as the tank lip; and

k. if a lip exhaust is used on the open top vapor degreaser, do not use a ventilation rate that exceeds 65 cubic feet per minute per square foot of degreaser open area, unless a higher rate is necessary to meet Occupational Safety and Health Administration.

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

1. The permittee shall maintain records of all control equipment maintenance.

2. The permittee shall collect and record the following information for each month:

a. the type of solvent employed in the open top vapor degreaser;

b. the VOC content of each solvent employed, in pounds per gallon;

c. the amount of solvent employed, in gallons;

d. the amount of solvent recycled, in gallons;

e. the number of hours the emissions unit was in operation; and

f. the calculated average hourly VOC emissions rate, ie. [(c) - (d)] * (b) / (e), in pounds of VOC per hour (average).

D. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which include an identification of each period during which the average hourly volatile organic compound emissions exceeded 6.0 pounds per hour, and the actual average hourly volatile organic compound emissions for each such period.

2. The deviation reports shall be submitted in accordance with the requirements specified in General Term and Condition 3 of this permit.

E. **Testing Requirements**

1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following method:
Emission Limitation:

6.0 lbs/hr of VOC
26.3 tpy of VOC

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above emissions limitations based upon the record keeping requirements of section C.2 of this permit.

F. **Miscellaneous Requirements**

1. None