

Facility ID: 1667070002 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

Facility ID: 1667070002 Emissions Unit ID: L001 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>
open top vapor degreaser	OAC rule 3745-31-05 (PTI 16-1662)	1.13 pounds/hour of organic compounds
	OAC rule 3745-21-09(O)	See section A.2 below.

2. Additional Terms and Conditions

- (a) The permittee shall equip the open top vapor degreaser with a cover that can be opened and closed easily without disturbing the vapor zone. The permittee shall install, or have installed, the following safety switches:
 - i. A condenser thermostat or any other device which shuts off the sump heat if the condenser coolant is either not circulating or too warm;
 - ii. A spray safety switch which shuts off the spray pump if the vapor level drops below any fixed spray nozzle;
 - iii. A vapor level control thermostat or any other device which shuts off the sump heat when the vapor level rises too high; and
 - iv. 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. The permittee shall install, or have installed, one of the following devices:
 - i. A freeboard with a freeboard ratio greater than or equal to 0.75, and if the open top vapor degreaser opening is greater than ten 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;
 - ii. Refrigerated chiller;
 - iii. Enclosed design (cover or door opens only when the dry part is actually entering or exiting the open top vapor degreaser);
 - iv. Carbon adsorption system, with ventilation greater than or equal to fifty cubic feet per minute per square foot of air/solvent interface (when cover is open), and exhausting less than twenty-five parts per million of solvent averaged over one complete adsorption cycle; or
 - v. A control system, demonstrated to have control efficiency equivalent to or greater than any of the above, and approved by the director. The permittee shall operate and maintain the open top vapor degreaser in accordance with the following practices to minimize solvent evaporation from the unit:
 - i. Keep the cover closed at all times except when processing work loads through the degreaser.
 - ii. Minimize solvent carryout by:
 - (a) Racking parts so that solvent drains freely and is not trapped;
 - (b) Moving parts in and out of the degreaser at less than eleven feet per minute;

- (c) Holding the parts in the vapor zone at least thirty seconds or until condensation ceases, whichever is longer;
- (d) Tipping out any pools of solvent on the cleaned parts before removal from the vapor zone; and
- (e) Allowing parts to dry within the degreaser for at least fifteen seconds or until visually dry, whichever is longer.
 - iii. Clean only materials that are neither porous nor absorbent.
 - iv. Occupy no more than one-half of the degreaser's open-top area with a workload.
 - v. Always spray within the vapor level.
 - vi. Repair solvent leaks immediately, or shut down the degreaser.
 - vii. Store waste solvent only in covered containers.
 - viii. Operate the cleaner such that water cannot be visually detected in solvent exiting the water separator.
 - ix. Use no ventilation fans near the degreaser opening.

x. When the cover is open, do not expose the open top vapor degreaser to drafts greater than 131 feet/minute, as measured between three and six feet upwind and at the same elevation as the tank lip.

xi. If a lip exhaust is used on the open top vapor degreaser, do not use a ventilation rate that exceeds sixty five cubic feet/minute/square foot of degreaser open area, unless a higher rate is necessary to meet occupational safety and health administration requirements.

xii. Provide permanent, conspicuous label, summarizing the operating procedures.

B. Operational Restrictions

- 1. None

C. Monitoring and/or Record Keeping Requirements

- 1. For units equipped with a refrigerated freeboard chiller, the permittee shall maintain records of the following information:
 - a. The types of solvents employed in the open top vapor degreaser.
 - b. All control equipment maintenance.
- 2. The permittee shall maintain the following monthly records:
 - a. the volume, in gallons, of solvent added to the degreaser;
 - b. the volume, in gallons, of solvent removed from the degreaser;
 - c. the volume of contaminants, in gallons, contained in the removed solvent;
 - d. the hours of operation of the degreaser; and
 - e. the hourly organic compound emissions, in pounds/hour, as calculated below in section E.1

[Note: The solvent level within the machine must be returned to the same fill-line for all additions of solvent to the degreaser. The solvent cleaning machine does not have to be emptied and filled with fresh unused solvent prior to organic compound emissions calculations.]

D. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports which identify each month during which the hourly organic compound emissions exceeded the allowable hourly organic compound emissions rate of 1.13 pounds/hour.
- 2. The deviation (excursion) reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3 of this permit.

E. Testing Requirements

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

1.13 pounds/hour of organic compounds

Applicable Compliance Method:

The hourly organic compound emissions shall be based on the following equation:

$$E = [Si - (So - C)]D/H$$

where:

E = organic compound emissions, in pounds/hour;

Si = clean solvent added during the month, in gallons;

So = contaminated solvent removed for recycling during the month, in gallons;
C = volume of contaminants in the removed solvent, in gallons;
D = density of clean solvent, in pounds/gallon; and
H = number of hours the degreaser was in operation for the month.

[Note: The above emissions information may be determined utilizing the methods and procedures specified in OAC rule 3745-21-10 or alternative engineering calculations, including the use of material safety data sheets and solvent disposal manifest records.]

F. **Miscellaneous Requirements**

1. None