

Facility ID: 1431093495 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: 1431093495 Emissions Unit ID: L004 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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 (batch cleaning)	OAC rule 3745-31-05 (PTI 14-4053)	408 lbs/week VOC 9.55 TPY VOC
	40 CFR, Part 63, Subpart T	See A.2. and B.1. below. Same as limitations and/or control requirements as established pursuant to OAC rule 3745-31-05.
	OAC rule 3745-21-09(O)(3)	Same as limitations and/or control requirements as established pursuant to OAC rule 3745-31-05.

2. Additional Terms and Conditions

- (a) General Design Requirements:
 - i. The degreaser shall have a cover that completely covers the machine openings. The cover must be closed at all times, except when parts are entering or exiting the machine, when the solvent has been removed from the machinery, or when maintenance or monitoring is being performed that requires the cover to not be in place. The cover must be periodically inspected to ensure that it remains free of cracks, holes and other defects.
 - ii. The degreaser shall have an automated parts handling system capable of moving parts or parts baskets at a speed of 3.4 meters per minute (11 feet per minute) or less from the initial loading of parts through removal of the cleaned parts. Manual hoists can be used if the facility can demonstrate that the hoist can never exceed 3.4 meters per minute.
 - iii. The degreaser shall be equipped with a device that shuts off the sump heat if the sump liquid solvent level drops to the sump heater coils.
 - iv. The degreaser shall be equipped with a vapor level control device that shuts off the sump heat if the vapor level in the vapor cleaning machine rises above the height of the primary condenser.
 - v. The degreaser shall have a primary condenser.
 - vi. The degreaser shall be equipped with a condenser thermostat or any other device which shuts off the sump heat if the condenser coolant is either not circulating or too warm.
 - vii. The degreaser shall be equipped with a safety spray switch which shuts off the spray pump if the vapor level drops below any fixed spray nozzle.
 - viii. The degreaser shall have 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.

Control Combination Requirements:

To comply with the control requirements in 40 CFR, Part 63.463(b), the degreaser shall be equipped with the following:

 - i. a freeboard ratio of 1.0 or higher, where the freeboard ratio is the height of the freeboard divided by the smallest interior freeboard width; and

ii. a freeboard refrigeration device where the temperature of the air in the freeboard must be no greater than 30% of the solvent boiling point (in degrees F).
The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from this facility shall be less than 10 TPY for any single HAP and 25 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling 12-month summation.

B. Operational Restrictions

1. The permittee shall meet all of the following required work and operational practices:
 - a. Control air disturbances across the solvent cleaning machine opening(s) by incorporating the following control equipment or techniques:
 - i. Cover(s) for the solvent cleaning machine shall be in place during the idling mode and during the downtime mode unless either the solvent has been removed from the machine or maintenance or monitoring is being performed that requires the cover(s) to not be in place.
 - OR
 - ii. The permittee shall employ a reduced room draft that ensures that the flow or movement of air across the top of the freeboard area of the solvent cleaning machine or within the solvent cleaning machine enclosure does not exceed 15.2 meters per minute (50 feet per minute) at any time as measured using the procedures described in the "Monitoring and/or Recordkeeping Requirements" section of this permit. The permittee shall also establish and maintain the operating conditions under which the wind speed was demonstrated to be 15.2 meters per minute (50 feet per minute) or less as described in the "Monitoring and/or Recordkeeping Requirements" section of this permit.
 - b. The parts basket or the parts being cleaned in an open top batch vapor cleaner shall not occupy more than 50 percent of the solvent-air interface area, unless the parts baskets or parts are introduced at a speed of 0.9 meter per minute (3 feet per minute) or less.
 - c. Any spraying operations shall be done within the vapor zone or within a section of the solvent cleaning machine that is not directly exposed to the ambient air (i.e., a baffled or enclosed area of the solvent cleaning machine).
 - d. Parts shall be oriented so that the solvent drains from them freely. Parts having cavities or blind holes shall be tipped or rotated before being removed from the solvent cleaning machine unless an equally effective approach has been approved by the Hamilton County Department of Environmental Services.
 - e. Parts baskets or parts shall not be removed from the solvent cleaning machine until the dripping has stopped.
 - f. During startup of the solvent cleaning machine, the primary condenser shall be turned on before the sump heater.
 - g. During shutdown of the solvent cleaning machine, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off.
 - h. When solvent is added or drained from any solvent cleaning machine, the solvent shall be transferred using threaded or other leakproof couplings and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface.
 - i. The solvent cleaning machine and its associated controls shall be maintained as recommended by the manufacturer of the equipment or using alternative maintenance practices that have been demonstrated to the satisfaction of the Hamilton County Department of Environmental Services to achieve the same or better results as those recommended by the manufacturer.
 - j. The permittee shall complete and pass the applicable sections of the solvent cleaning operating procedures in 40 CFR, Part 63, Appendix B if requested during an inspection by the Hamilton County Department of Environmental Services.
 - k. Waste solvent, still and sump bottoms shall be collected and stored in closed containers. The closed containers may contain a device that would allow pressure relief, but would not allow liquid solvent to drain from the container.
 - l. Sponges, fabric, wood, and paper products shall not be cleaned.
 - m. Repair any solvent leaks immediately or shut down the degreaser.
 - n. Provide a permanent conspicuous label, summarizing the operating procedures.
 - o. The amount of solvent evaporated shall not exceed 30 gallons per week.
 - p. The number of gallons of evaporated solvent from this emissions unit shall not exceed 1,404 gallons per year. Compliance with the annual limitation shall be based upon a rolling, 12-month summation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall conduct monitoring and record the results, on a weekly basis, for the freeboard refrigeration device by using a thermometer or thermocouple to measure the temperature at the center of the air blanket during the idling mode.
2. The permittee shall conduct monitoring and record the results, on a monthly basis, for the working-mode cover by conducting a visual inspection to determine if the cover is opening and closing properly, completely covers the cleaning machine openings when closed, and is free of cracks, holes, and other defects.
3. a. The permittee shall monitor the hoist speed as described below:

- i. The permittee shall determine the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes (meters per minute).
 - ii. The permittee shall conduct monthly monitoring of the hoist speed. If after the first year, no exceedances of the hoist speed are measured, the permittee may begin monitoring the hoist speed quarterly.
 - iii. If an exceedance of the hoist speed occurs during quarterly monitoring, the permittee shall return to a monthly monitoring frequency until another year of compliance without an exceedance is demonstrated.
 - iv. If the permittee can demonstrate to the satisfaction of the the Hamilton County Department of Environmental Services in the initial compliance report that the hoist speed cannot exceed a speed of 3.4 meters per minute (11 feet per minute), the required monitoring frequency is quarterly, including during the first year of compliance.
- b. The permittee shall maintain the following records in written or electronic form for the lifetime of the solvent cleaning machine:
 - i. Owner's manuals or, if not available, written maintenance and operating procedures for the solvent cleaning machine and control equipment.
 - ii. The date of installation for the solvent cleaning machine and all of its control devices. If the exact date for the installation is not known, a letter certifying that the cleaning machine and its control devices were installed prior to, or on, November 29, 1993, or after November 29, 1993, may be substituted.
 - iii. Records of the halogenated HAP solvent content for the solvent used in the solvent cleaning machine.
- c. The permittee shall maintain the following records in written or electronic form for a period of five years for the solvent cleaning machine:
 - i. The results of control device monitoring required in this section of the permit.
 - ii. Information on the actions taken to comply with 40 CFR 63.463 (e) and (f), including records of written or verbal orders for replacement parts, a description of the repair made, and additional monitoring conducted to demonstrate that monitored parameters have returned to acceptable levels.
 - iii. The amount of solvent used, the amount of solvent reclaimed, the solvent content of the waste, and the amount of solvent evaporated, on a weekly basis.
 - iv. The amount of solvent evaporated on a monthly basis to ensure compliance with section B.1.p. After the first twelve calendar months of operation following issuance of this permit, the facility shall also record the rolling twelve-month summation of the total gallons of evaporated solvent for each month.
- 4. The permittee shall collect and record the following information each month for the entire facility:
 - a. the name and identification number of each solvent employed;
 - b. the individual Hazardous Air Pollutant (HAP*) content for each HAP of each solvent in pounds of individual HAP per gallon of solvent, as employed;
 - c. the total combined HAP content of each solvent in pounds of combined HAPs per gallon of solvent, as employed (sum all the individual HAP contents from (b));
 - d. the number of gallons of each solvent employed;
 - e. the total individual HAP usage for each HAP from all solvent materials employed, in pounds or tons per month (for each HAP the sum of (b) times (d) for each solvent);
 - f. the total combined HAP usage from all solvent employed, in pounds or tons per month (the sum of (c) times (d) for each solvent);
 - g. the updated rolling, 12-month summation of usage for each individual HAP emissions**, in pounds or tons (this shall include the information for the current month and the preceding eleven calendar months); and
 - h. the updated rolling, 12-month summation of usage for total combined HAP emissions**, in pounds or tons (this shall include the information for the current month and the preceding eleven calendar months).

* A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Hamilton County Department of Environmental Services contact. This information does not have to be kept on a degreaser-by-degreaser basis.

** This assumes the HAP(s) emitted is (are) the same as the amount of HAP(s) used since all HAP(s) used evaporated.
- 5. If the permittee elects to control air disturbances across the solvent cleaning machine opening(s) by employing a reduced room draft, the permittee shall conduct an initial monitoring test and, thereafter, monthly monitoring tests of the wind speed within the enclosure using the procedures outlined in (1) (a) and (1) (b) below and a monthly visual inspection of the enclosure to determine if it is free of cracks, holes and other defects.
 - a. Determine the direction of the wind current in the enclosure by slowly rotating a velometer inside the entrance to the enclosure until the maximum speed is located.
 - b. Record the maximum wind speed.
- D. **Reporting Requirements**
 - 1. The permittee shall submit an annual report by February 1 of each year for the preceding year. Each annual report shall contain the following:
 - a. a signed statement from the facility owner or their designee stating that, "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required pursuant to 40 CFR 60.463(d)(10)."; and
 - b. an estimate of solvent consumption during the reporting period.
 - 2. The permittee shall submit an exceedance report on a semiannual basis. If the temperature of the chilled air blanket, measured at the center of the air blanket, was greater than 30% of the solvent's boiling point, and no

correction was made within 15 days of detection, the permittee shall begin to submit a quarterly report until such time that the permittee requests and receives approval of a less frequent reporting frequency from the Hamilton County Department of Environmental Services. The permittee may receive approval of less frequent reporting if the following conditions are met: (1) the emissions unit has demonstrated a full year of compliance without an exceedance, (2) the permittee continues to comply with all relevant recordkeeping and monitoring requirements specified in 40 CFR 63.1, General Provisions, and (3) the Hamilton County Department of Environmental Services does not object to a reduced frequency of reporting for the affected emissions unit as provided in paragraph (e) (3) (iii) of subpart A, 40 CFR 63.1, General Provisions. Each exceedance report shall be delivered or post marked by the 30th day following the reporting period. Each exceedance report shall contain the following:

- a. The reason and a description of the exceedance and action(s) taken to comply with 40 CFR 63.463 (e) and (f) including written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to acceptable levels.
 - b. If no exceedance has occurred, a statement to that effect shall be submitted.
3. The permittee shall submit semi-annual reports to the Hamilton County Department of Environmental Services indicating any exceedances of the limit in section B.1.p., along with the cause of the exceedance and corrective action taken to prevent further exceedances. The reports shall be submitted by February 15 and August 15 of each year and shall cover the previous 6 calendar months (July through December and January through June, respectively).
 4. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emissions limitations set forth in this permit. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period, then a report is required stating that no exceedances have occurred.
- E. Testing Requirements**
1. Compliance with the emission limitations specified in this permit shall be determined by the emission factors, control efficiencies (if applicable) and the operational parameters in PTI application number 14-4053 as submitted to the Hamilton County Department of Environmental Services on 5/30/96.
- F. Miscellaneous Requirements**
1. None