

Facility ID: 1413020412 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.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1413020412 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>
Batch vapor solvent cleaning machine with	OAC rule 3745-31-05 (PTI 14-4009)	121 LBS VOC/WEEK and 3.1 TPY of VOC
	40 CFR Part 63 Subpart T	See A.2. and B below.
	OAC rule 3745-21-09(O)(3).	Same as limitations outlined in OAC 3745-31-05.

2. Additional Terms and Conditions

- (a) The degreaser shall have a cover that completely, covers the machine openings. The cover must be closed at all times except: when parts are being cleaned, 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 remain free of cracks, holes and other defects.

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.

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.

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.

The degreaser shall have a primary condenser.

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.

The degreaser shall be equipped with a spray safety switch which shuts off the spray pump if the vapor level drops below any fixed spray nozzle.

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.

To comply with the control requirements in 40 CFR 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 air in the freeboard must be no greater than 30% of the solvent boiling point (in degrees fahrenheit).

B. Operational Restrictions

1. The parts baskets 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 meters per minute (3 feet per minute) or less.
2. 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.
3. 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 any solvent cleaning machine unless an equally effective approach

has been approved by the Hamilton County Department of Environmental Services .

4. Parts or parts baskets shall not be removed from any solvent cleaning machine until dripping has stopped.
5. During startup of each vapor cleaning machine, the primary condenser shall be turned on before the sump heater.
6. During shutdown of each vapor cleaning machine, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off.
7. 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.
8. Each solvent cleaning machine and associated controls shall be maintained as recommended by the manufacturers of the equipment or using alternative maintenance practices that have been demonstrated to the Hamilton County Department of Environmental Services satisfaction to achieve the same or better results as those recommended by the manufacturer.
9. Each operator of a solvent cleaning machine shall complete and pass the applicable sections of the test of solvent cleaning operating procedures (in appendix B) if requested during an inspection by the Hamilton County Department of Environmental Services.
10. 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.
11. Sponges, fabric, wood, and paper products shall not be cleaned.
12. The permittee shall repair any solvent leaks immediately or shutdown the degreaser.
13. The permittee shall provide a permanent conspicuous label, summarizing the operating procedures.
14. The amount of solvent evaporated shall not exceed 10 gallons per week and 520 gallons per year.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall comply with the following monitoring requirements:
 - a. Conduct monitoring of each control device used to comply with 40 CFR Part 63.463 of Subpart T;
 - b. For the freeboard refrigeration device, the permittee shall ensure that the chilled air blanket temperature measured at the center of the air blanket, is no greater than 30% of the solvent's boiling point;
 - c. For the idling-mode cover, the permittee shall ensure the following:
 - (i) That the cover is in place whenever parts are not in the solvent cleaning machine and it completely covers the cleaner openings when in place; and
 - (ii) The cover is maintained free of cracks, holes, and other defects.
2. An exceedance has occurred if the permittee fails to comply with term C.1.c.i.
3. An exceedance has occurred if requirements of Term C.1.b and C.1.ii have not been met and are not corrected within 15 days of detection. Adjustments or repairs shall be made to the solvent cleaning system or control device to re-establish required levels. The parameter must be remeasured immediately upon adjustment or repair and demonstrated to be within required limits. All exceedances and all corrections and adjustments shall be reported.
4. On a weekly basis, the permittee shall use a thermometer or thermocouple to measure the temperature at the center of the air blanket during the idling-mode.
5. On a monthly basis, the permittee shall conduct a visual inspection of the cover to determine if it is opening and closing properly, completely covers the cleaning machine openings when closed and is free of cracks, holes and other defects.
6. The permittee shall monitor the hoist speed as follows:
 - a. The hoist speed shall be determined by measuring the time it takes the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes;
 - b. The monitoring shall be conducted monthly. If after the first year no exceedances of the hoist speed are measured, the permittee may begin monitoring the hoist speed quarterly;
 - c. If an exceedance occurs during the quarterly monitoring, the frequency shall return to monthly until another year of compliance without an exceedance is demonstrated; and
 - d. If in the initial compliance report it can be demonstrated to the Hamilton County Department of Environmental Services that the hoist speed cannot exceed 3.4 meters per minute, the required frequency shall be quarterly including during the first year of compliance.
7. The permittee shall determine their potential to emit from all solvent cleaning operations using the procedures described in 40 CFR Part 63.465(e)(1) through (e)(3). The permittee's total potential to emit shall be the sum of the HAP emissions from all solvent cleaning operations plus all HAP emissions from other sources within the facility.
8. The permittee shall maintain records, in written or electronic form, of the following for the lifetime of the machine:

- a. Owner's manuals, or if not available, written maintenance and operating procedures for the solvent cleaning machine and control equipment.
 - b. The date of installation for the solvent cleaning machine and all of its control devices. If the exact date is not known, a letter certifying that the cleaning machine and its control devices were installed prior to, on, or after 11/29/93.
 - c. Records of the halogenated HAP solvent content for each solvent used in a solvent cleaning machine subject to the provisions of Subpart T.
9. The permittee shall maintain records, in written or electronic form, of the following for a period of five years:
- a. The results of control device monitoring required in term C.1, C.4 and C.5;
 - b. Information on the actions taken to comply with the provisions of 40 CFR Part 63.463(e). This information shall include records of 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 accepted levels; and
 - c. The amount of solvent evaporated on a weekly basis and the annual amount of solvent evaporated.
- D. Reporting Requirements**
1. The permittee shall submit an initial notification report to the Ohio EPA and the Hamilton County Department of Environmental Services as soon as practicable before the construction or reconstruction is planned to commence.
- The initial notification report shall include all the information required in 40 CFR Part 63.5(d)(1) of Subpart A with the following revisions and additions:
- a. A brief description of each solvent cleaning machine including machine type (batch vapor, batch cold, vapor in-line, or cold in-line), solvent/air interface area, and existing controls;
 - b. The anticipated compliance approach for each solvent cleaning machine; and
 - c. In lieu of 40 CFR Part 63.5(d)(1)(ii)(H) of Subpart A, the facility shall report an estimate of annual halogenated HAP solvent consumption for each solvent cleaning machine.
2. The permittee shall submit a compliance report to the Ohio EPA and the Hamilton County Department of Environmental Services no later than 150 days after startup.
- The compliance report shall include all the following information:
- a. The name and address of the owner or operator;
 - b. The address (i.e., physical location) of the solvent cleaning machine(s);
 - c. A statement, signed by the owner or operator of the solvent cleaning machine, stating that the solvent cleaning machine for which the report is being submitted, is in compliance with the provisions of Subpart T; and
 - d. The compliance approach for each solvent cleaning machine.
3. The permittee shall submit, to the Ohio EPA and the Hamilton County Department of Environmental Services, an initial statement of compliance report no later than 150 days after startup.
- The statement of compliance shall include the following:
- a. The name and address of the owner or operator;
 - b. The address (i.e., physical location) of the solvent cleaning machine(s);
 - c. A list of the control equipment used to achieve compliance for each solvent cleaning machine; and
 - d. For each piece of control equipment required to be monitored, a list of the parameters which are monitored and the values of these parameters measured on or during the first month after the compliance date.
4. The permittee shall submit an annual report by February 1 of the year following the one for which the reporting is being made. This report shall include the following requirements:
- a. A signed statement from the permittee or his 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 in 40 CFR Part 63.463(d)(10)."
 - b. An estimate of solvent consumption for each solvent cleaning machine during the reporting period.
5. The permittee shall submit an exceedance report to the Ohio EPA and Hamilton County Department of Environmental Services semi-annually except when the Administrator determines on a case-by-case basis that more frequent reporting is necessary. Once the exceedance has occurred, a quarterly reporting format shall be followed until a request to reduce reporting frequency is approved.
- Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. The report shall include the applicable information as follows:
- a. Information on the actions taken to comply with 40 CFR Part 63.463(e)&(f). This information shall include records of written or verbal orders of replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels;

- b. If an exceedance has occurred, the reason for the exceedance and a description of the actions taken; and
 - c. If no exceedances have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.
6. The permittee is subject to Title V permitting requirements and may be exempt by the State from applying for a part 70 permit until 42 months after the State's part 70 program is approved by USEPA. Another date may be established to assure that subject sources obtain a permit by 5 years after a part 70 program is approved.
- E. Testing Requirements**
- 1. Compliance with the emission limitations outlined in this permit shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational parameters as submitted in the PTI application 14-4009 submitted 2/20/96.
- F. Miscellaneous Requirements**
- 1. The permittee is subject to Title V permitting requirements and may be exempt by the state from applying for a 70 permit until 42 months after the State's part 70 program is approved by the USEPA. Another date may be established to assure that the subject sources obtain a permit by 5 years after a part 70 program is approved.