



Environmental  
Protection Agency

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

9/28/2011

ROBERT CLIPPARD  
CLIPPARD INSTRUMENT LAB INC  
7390 COLERAIN RD  
CINCINNATI, OH 45239

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE  
Facility ID: 1431093495  
Permit Number: P0108613  
Permit Type: Renewal  
County: Hamilton

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. Please complete a survey at [www.epa.ohio.gov/dapc/permitsurvey.aspx](http://www.epa.ohio.gov/dapc/permitsurvey.aspx) and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, OH 43215

If you have any questions, please contact Hamilton County Dept. of Environmental Services at (513)946-7777 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPC Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc), by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section, DAPC

Cc: HCDOES





**FINAL**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
CLIPPARD INSTRUMENT LAB INC**

Facility ID:	1431093495
Permit Number:	P0108613
Permit Type:	Renewal
Issued:	9/28/2011
Effective:	9/28/2011
Expiration:	9/28/2021





Division of Air Pollution Control
Permit-to-Install and Operate
for
CLIPPARD INSTRUMENT LAB INC

Table of Contents

Authorization ..... 1
A. Standard Terms and Conditions ..... 3
1. What does this permit-to-install and operate ("PTIO") allow me to do?..... 4
2. Who is responsible for complying with this permit? ..... 4
3. What records must I keep under this permit? ..... 4
4. What are my permit fees and when do I pay them?..... 4
5. When does my PTIO expire, and when do I need to submit my renewal application? ..... 4
6. What happens to this permit if my project is delayed or I do not install or modify my source? ..... 5
7. What reports must I submit under this permit? ..... 5
8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit? ..... 5
9. What are my obligations when I perform scheduled maintenance on air pollution control equipment? ... 5
10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report? ..... 6
11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located? ..... 6
12. What happens if one or more emissions units operated under this permit is/are shut down permanently? ..... 6
13. Can I transfer this permit to a new owner or operator?..... 7
14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"? ..... 7
15. What happens if a portion of this permit is determined to be invalid? ..... 7
B. Facility-Wide Terms and Conditions..... 8
C. Emissions Unit Terms and Conditions ..... 10
1. L004, Vapor Degreaser..... 11



## Authorization

Facility ID: 1431093495  
Application Number(s): A0042547  
Permit Number: P0108613  
Permit Description: Permit Renewal for Open Top Vapor Degreaser - L004  
Permit Type: Renewal  
Permit Fee: \$0.00  
Issue Date: 9/28/2011  
Effective Date: 9/28/2011  
Expiration Date: 9/28/2021  
Permit Evaluation Report (PER) Annual Date: July 1 - June 30, Due Aug 15

This document constitutes issuance to:

CLIPPARD INSTRUMENT LAB INC  
7390 Colerain Avenue  
Cincinnati, OH 45239

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

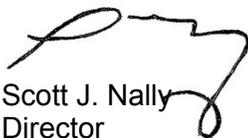
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Hamilton County Dept. of Environmental Services  
250 William Howard Taft Pkwy.  
Cincinnati, OH 45219-2660  
(513)946-7777

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

  
Scott J. Nally  
Director

## Authorization (continued)

Permit Number: P0108613

Permit Description: Permit Renewal for Open Top Vapor Degreaser - L004

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

<b>Emissions Unit ID:</b>	<b>L004</b>
Company Equipment ID:	Vapor Degreaser
Superseded Permit Number:	P0099166
General Permit Category and Type:	Not Applicable

## **A. Standard Terms and Conditions**

**1. What does this permit-to-install and operate ("PTIO") allow me to do?**

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

**2. Who is responsible for complying with this permit?**

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

**3. What records must I keep under this permit?**

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

**4. What are my permit fees and when do I pay them?**

There are two fees associated with permitted air contaminant sources in Ohio:

PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

**5. When does my PTIO expire, and when do I need to submit my renewal application?**

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

**6. What happens to this permit if my project is delayed or I do not install or modify my source?**

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

**7. What reports must I submit under this permit?**

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

**8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?**

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

**9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?**

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

**10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?**

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Hamilton County Dept. of Environmental Services in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

**11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?**

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

**12. What happens if one or more emissions units operated under this permit is/are shut down permanently?**

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting<sup>1</sup> a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emissions unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

---

<sup>1</sup> Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

**13. Can I transfer this permit to a new owner or operator?**

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

**14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?**

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

**15. What happens if a portion of this permit is determined to be invalid?**

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

## **B. Facility-Wide Terms and Conditions**

1. **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).**
  - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
    - (1) None.
  - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
    - (1) None.

## **C. Emissions Unit Terms and Conditions**

**1. L004, Vapor Degreaser**

**Operations, Property and/or Equipment Description:**

Open Top Vapor Degreaser

- a) 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.
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<p>Volatile organic compound emissions shall not exceed 408 pounds per week and 5.29 tons per year based upon a rolling, 12-month summation.</p> <p>See c)(3).</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart T.</p>
b.	40 CFR Part 63, Subpart T	<p>Perchloroethylene emissions shall not exceed 4800 kilograms per year (5.29 tons per year) based upon a rolling, 12-month summation.</p> <p>See b)(2)a., b)(2)b., c)(1), c)(2), c)(4), and c)(5).</p>



c.	OAC rule 3745-21-09(O)(3)	Exempt per OAC rule 3745-21-09(O)(6)(b).
----	---------------------------	--

(2) Additional Terms and Conditions

- a. The batch vapor cleaning machine, having a solvent/air interface area of 1.21 square meters (13 square feet) or less, shall employ 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 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), as the chosen control combination selected from Table 1 of Subpart T [40 CFR, Part 63.463(b)].
- b. The permittee shall ensure that the solvent cleaning machine conforms to the following design requirements:
  - i. The degreaser shall heat the solvent with steam. If heater coils are installed to heat up the solvent, a device shall also be installed that shuts off the sump heat if the sump liquid solvent level drops to the sump heater coils.
  - ii. 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 condenser coolant is not circulating, and/or the coolant is too warm.
  - iii. The degreaser shall be equipped with a primary condenser.
  - iv. 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.
  - v. The degreaser shall have an idling and downtime mode cover that may be readily opened and closed, that completely covers the machine openings when in place and is free of cracks holes and other defects. 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.

c) Operational Restrictions

- (1) The permittee shall control air disturbances across the solvent cleaning machine opening(s) by using an idling and downtime mode cover that shall be in place during the idling and downtime modes, unless: (a) the solvent has been removed, (b) solvent is being added or removed, or (c) maintenance, monitoring, and or solvent level

measurements is/are being performed that requires the cover(s) to be removed. The cover shall be able to be readily opened or closed, shall completely cover the cleaning machine openings when in place, and shall be free of cracks, holes and other defects. A continuous web part that completely occupies an entry or exit port when the machine is idle is considered to meet the requirement.

- (2) The permittee shall comply with all of the following work and operational practice requirements:
- a. 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.
  - b. 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).
  - c. 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.
  - d. Parts baskets or parts shall not be removed from the solvent cleaning machine until the dripping has stopped.
  - e. During startup of the solvent cleaning machine, the primary condenser shall be turned on before the sump heater.
  - f. 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.
  - g. 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.
  - h. 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.
  - i. Repair any solvent leaks immediately, or shut down the degreaser.
  - j. Provide a permanent conspicuous label, summarizing the operating procedures.
  - 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.

- I. Sponges, fabric, wood, and paper products shall not be cleaned.
  - (3) The number of gallons of evaporated solvent from this emissions unit shall not exceed 30 gallons per week.
  - (4) The number of gallons of evaporated solvent from this emissions unit shall not exceed 778 gallons per year based upon a rolling, 12-month summation. This amount is equivalent to 4800 kilograms per year.
  - (5) The permittee shall complete and pass the applicable sections of the test of solvent cleaning operating procedures in 40 CFR Part 63, Subpart T, Appendix A, if requested during an inspection by the Hamilton County Environmental Services.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall measure and record the freeboard ratio before each solvent addition to assure compliance with the control requirement limitation.
  - (2) For the freeboard refrigeration device, the facility shall ensure that the chilled air blanket temperature measured at the center of the air blanket, is no greater than 30% of the solvents boiling point (in degrees F).  
  
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.
  - (3) 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.
  - (4) The permittee shall monitor the hoist speed as described below:
    - a. The hoist speed shall be determined 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).
    - b. 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.
    - c. 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.
    - d. 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.

- (5) The permittee shall maintain the following records in written or electronic form for the lifetime of the solvent cleaning 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 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.
    - c. Records of the halogenated HAP solvent content for the solvent used in the solvent cleaning machine.
  - (6) The permittee shall maintain the following records in written or electronic form for a period of five years for the solvent cleaning machine:
    - a. The results of control device monitoring required in this section of the permit.
    - b. 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.
    - c. The date and amount of solvent added, the amount of solvent reclaimed, the solvent composition of the waste removed, and the amount of solvent evaporated, on a weekly and annual basis.
    - d. The amount of solvent evaporated on a monthly basis to ensure compliance with c)(3) and c)(4). The facility shall also record the rolling, twelve-month summation of the total gallons of evaporated solvent for each month.
- e) 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 by the standard"; and
    - b. An estimate of solvent consumption during the reporting period and emissions of each HAP.
  - (2) The permittee shall submit an exceedance report on a semiannual basis unless it is determined that more frequent reporting is necessary to accurately assess compliance or if an exceedance occurs. Once an exceedance has occurred 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: (a) the emissions unit has demonstrated a full year of compliance without an exceedance, (b) the permittee continues to comply with all relevant recordkeeping and monitoring requirements specified in 40 CFR 63.1, General Provisions, and (c) 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. An exceedance or omission of any of the following limits, monitoring parameters, and/or requirements from the standard shall be included in the exceedance reports:
  - i. The permittee shall submit a deviation report if the freeboard ratio is not maintained at 1.0 or greater.
  - ii. The permittee shall submit a deviation report 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.
  - iii. The permittee shall submit a deviation report if the cover did not completely cover the cleaning machine openings, when containing the HAP solvent and during any idling or downtime mode, unless solvent is being added or removed, and/or maintenance, monitoring, and/or solvent level measurements were being conducted. Cracks, holes, or other defects to the cover, that were not repaired or the cover not replaced within 15 days of detection, shall also be reported.
  - iv. The permittee shall submit a deviation report if the amount of solvent evaporated exceeds the limitation in c)(3) and c)(4).
  - v. The permittee shall submit a deviation report if any of the following control equipment is not repaired or replaced within 15 days of any malfunction, and/or the machine is not shut down until repaired:
    - (a) The device that shuts off the sump heat if the sump liquid solvent level drops to the sump heater coils.
    - (b) The vapor level control device(s) that shuts off the sump heat if the vapor level in the vapor cleaning machine rises above the

height of the primary condenser, if the condenser coolant is not circulating, or if the coolant is too warm.

- (c) The primary condenser.

Included in the report shall be the length of time the equipment was not in operation or malfunctioning, and the date it was repaired or replaced.

- (3) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

Volatile organic compound emissions shall not exceed 408 pounds per week and 5.29 tons per year.

Perchloroethylene emissions shall not exceed 4800 kilograms per year (5.29 tons per year) based upon a rolling, 12-month summation.

Applicable Compliance Method:

Each owner or operator of an affected facility shall on the first operating day of every month, demonstrate compliance with the applicable facility-wide emission limit on a 12-month rolling total basis using the procedures in paragraphs f)(1)(a)i. through f)(1)(a)(v.) of this section. For purposes of this paragraph, "each solvent cleaning machine" means each solvent cleaning machine that is part of an affected facility regulated by this section.

- i. Each owner or operator of an affected facility shall, on the first operating day of every month, ensure that each solvent cleaning machine system contains only clean liquid solvent. This includes, but is not limited to, fresh unused solvent, recycled solvent, and used solvent that has been cleaned of soiled materials. A fill line must be indicated during the first month the measurements are made. The solvent level within the machine must be returned to the same fill-line each month, immediately prior to calculating monthly emissions as specified in paragraphs f)(1)(a)ii. and f)(1)(a)iii. of this section. The solvent cleaning machine does not have to be emptied and filled with fresh unused solvent prior to the calculations.

- ii. Each owner or operator of an affected facility shall, on the first operating day of the month, using the records of all solvent additions and deletions for the previous month, determine solvent emissions ( $E_{unit}$ ) from each solvent cleaning machine using equation 10:

$$E_{unit} = SA_i - LSR_i - SSR_i \quad (\text{Eq. 10})$$

Where:

$E_{unit}$  = the total halogenated HAP solvent emissions from the solvent cleaning machine during the most recent month  $i$ , (kilograms of solvent per month).

$SA_i$  = the total amount of halogenated HAP liquid solvent added to the solvent cleaning machine during the most recent month  $i$ , (kilograms of solvent per month).

$LSR_i$  = the total amount of halogenated HAP liquid solvent removed from the solvent cleaning machine during the most recent month  $i$ , (kilograms of solvent per month).

$SSR_i$  = the total amount of halogenated HAP solvent removed from the solvent cleaning machine in solid waste, obtained as described in paragraph f)(1)(a)iii. of this section, during the most recent month  $i$ , (kilograms of solvent per month).

- iii. Each owner or operator of an affected facility shall, on the first operating day of the month, determine  $SSR_i$  using the method specified in paragraph f)(1)(a)iii(a). or f)(1)(a)iii(b). of this section.

(a) From tests conducted using EPA reference method 25d.

(b) By engineering calculations included in the compliance report.

- iv. Each owner or operator of an affected facility shall on the first operating day of the month, after 12 months of emissions data are available, determine the 12-month rolling total emissions,  $ET_{unit}$ , for the 12-month period ending with the most recent month using equation 11:

$$ET_{unit} = \left[ \sum_{j=1}^{12} E_{unit} \right] \quad (\text{Eq. 11})$$

Where:

$ET_{unit}$  = the total halogenated HAP solvent emissions over the preceding 12 months, (kilograms of solvent emissions per 12-month period).

$E_{unit}$  = halogenated HAP solvent emissions for each month ( $j$ ) for the most recent 12 months (kilograms of solvent per month).

- v. Each owner or operator of an affected facility shall on the first operating day of the month, after 12 months of emissions data are available, determine the 12-month rolling total emissions,  $ET_{\text{facility}}$ , for the 12-month period ending with the most recent month using equation 12:

$$ET_{\text{facility}} = \left[ \sum_{j=1}^i ET_{\text{unit}} \right] \quad (\text{Eq. 12})$$

Where:

$ET_{\text{facility}}$  = the total halogenated HAP solvent emissions over the preceding 12 months for all cleaning machines at the facility, (kilograms of solvent emissions per 12-month period).

$ET_{\text{unit}}$  = the total halogenated HAP solvent emissions over the preceding 12 months for each unit  $j$ , where  $i$  equals the total number of units at the facility (kilograms of solvent emissions per 12-month period).

Compliance with the weekly limit shall be determined by the recordkeeping in d)(6)c.

- b. Emission Limitation:

The permittee has selected or has installed and shall employ a freeboard ratio of 1.0 or higher and a freeboard refrigeration device as the control combination required from Table 1, found in 40 CFR 63.463.

Applicable Compliance Method:

The permittee shall demonstrate compliance with the freeboard ratio of 1.0 or higher and a freeboard refrigeration device through compliance with the *“Additional Terms and Conditions”*, *“Operational Restrictions”*, and *“Monitoring and Record keeping Requirements”* and *“Testing Requirement”* sections of this permit.

- g) Miscellaneous Requirements

- (1) None.