

Facility ID: 0247170841 Issuance type: Title V Draft Permit

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 III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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## Part II - Specific Facility Terms and Conditions

### a State and Federally Enforceable Section

1. None

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### b State Only Enforceable Section

1. The following insignificant emissions units are located at this facility.

K001: Bolt Coating Line 1.  
K002: Bolt Coating Line 2.  
K003: Bolt Coating Line 3.  
K004: Bolt Coating Line 4.  
K005: Coating Line 5 Ovens.  
K006: Oiling Oven.  
Z001: Dip and Spin Coating Line.  
Z002: Stud Coating Line Studley OV-2.  
Z003: Flange Coating Line BC-7/OV-2.  
Z004: Multiple Coating Application Line BC-6/OV-4.  
Z005: Bolt Coating Line IC-2/OV-5.  
Z006: Plug Coating Line P-13/OV-6.  
Z007: Bolt Coating Line Harley 1/OV-7.  
Z009: Bolt Coating Line Harley 2/OV-9.  
Z010: Screw Coating Line Mini-coater/OV-10.  
Z015: Bolt Coating Line BC-5/OV-15.  
Z016: Plug Coating Line P-11/OV-16.  
Z018: Plug Coating Line P-1/OV-18.  
Z019: Filler Tube Coating IC-6/OV-19.  
Z020: Bolt Coating Line IC-8/OV-20.  
Z201: Coating Lines R1/OV-40 (Powdered Nylon Spray Booths).  
Z202: Coating Lines R2/OV-41 (Powdered Nylon Spray Booths).  
Z203: Coating Lines R3/OV-42 (Powdered Nylon Spray Booths).  
Z211: Coating Lines PC-1/OV-1 (Bulk Powdered Nylon).  
Z212: Coating Lines PC-2/OV-159 (Bulk Powdered Nylon).  
Z213: Coating Lines SAND#3/OV-36 (Bulk Powdered Nylon).  
Z214: Coating Lines SAND#1/OV-39 (Bulk Powdered Nylon).  
Z221: Prebake Oven OV-38.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emissions limitations and/or control requirements contained within a Permit to Install for the emissions unit.

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0247170841 Emissions Unit ID: L001 Issuance type: Title V Draft Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. 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 Using Methylene Chloride to Degrease Metal Parts (L001)	40 CFR Part 63 Subpart T OAC 3745-21-09(O)(3)	See additional terms and conditions.

**2. Additional Terms and Conditions**

- a. The permittee shall ensure that the chilled air blanket temperature (in degrees Fahrenheit or Celsius), measured at the center of the air blanket, is no greater than 30 percent of the solvent's boiling point.
- b. The permittee shall maintain a freeboard with a freeboard ratio equal to 1.0 or greater.
- c. General Design Requirements
 

The permittee shall ensure that the solvent cleaning machine conforms to the following design requirements:

  - i. 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 measured using the procedure described in the "Monitoring and/or Recordkeeping Requirements" section of this permit. The permittee shall 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.
  - ii. The solvent cleaning machine 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 cleaned parts.
  - iii. The solvent cleaning machine 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 solvent cleaning machine 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 solvent cleaning machine shall have a primary condenser.

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**II. 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 ensuring that the cover(s) to 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.
  - b. The parts basket or the parts being cleaned in the solvent cleaning machine 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.

- 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 orientated so that the solvent drains from them freely. Parts having cavities or blind holes must be tipped or rotated before being removed from the solvent cleaning machine unless an equally effective approach has been approved by the Ohio EPA, NEDO.
- e. Parts baskets or parts shall not be removed from the solvent cleaning machine until dripping has stopped.
- f. During startup of the solvent cleaning machine, the primary condensers 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 the 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 manufacturers of the equipment or using alternative maintenance practices that have been demonstrated to the satisfaction of the Ohio EPA NEDO 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 test of solvent cleaning operating procedures in 40 CFR part 63, Appendix B if requested during an inspection by the Ohio EPA NEDO.
- k. Waste solvent, still bottoms, 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 in this emissions unit.

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### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall monitor the hoist speed as described below:
  - a. 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).
  - b. The permittee shall conduct monthly monitoring of the hoist speed. If after the first year of monitoring 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 Ohio EPA NEDO 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 the first year of compliance.
2. 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, on, 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.
3. 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 repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to acceptable levels.
  - c. Estimates of annual methylene chloride consumption for the solvent cleaning machine.
4. Freeboard refrigeration device

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.

## 5. Reduced room draft (full or partial enclosure)

The permittee shall conduct an initial monitoring test by December 2, 1997 (compliance date) and, thereafter, monthly monitoring tests of the wind speed within the enclosure using the procedures outlined in 5.a and 5.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.

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## IV. Reporting Requirements

1. The permittee shall submit an initial statement of compliance not later than 150 days after December 2, 1997. Each initial statement of compliance shall contain the following:
  - a. The name and address of the permittee.
  - b. The address (i.e., physical location) of the solvent cleaning machine.
  - c. A list of the control equipment used to achieve compliance.
  - d. A list of the parameters that are monitored and the values of these parameters measured on or during the first month after the compliance date for each piece of control equipment required to be monitored.
  - e. Conditions to maintain the wind speed requirements as described in the "Additional Terms and Conditions" section of this permit.
2. 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 the owner's 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 Part 60.463(d)(10)."
  - b. An estimate of solvent consumption during the reporting period.
3. The permittee shall submit exceedance reports on a semiannual basis.

If no operation conditions were established under which the wind speed was demonstrated to be 15.2 meters per minute (50 feet per minute) or more and/or if the flow of air across the top of the freeboard area of the cleaning machine or within the solvent cleaning machine enclosure exceeded 15.2 meters/minute or more 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 Ohio EPA NEDO.

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 Ohio EPA NEDO.
4. 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 Ohio EPA NEDO does not object to the 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.

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## V. Testing Requirements

1. The permittee shall determine the facility's potential to emit (PTE) from all solvent cleaning operations. A facility's total PTE is the sum of the HAP emissions from all solvent cleaning operations plus all HAP emissions from other emissions units from within the facility. The potential to emit shall be determined in accordance with the following procedures:
  - a. Determine the potential to emit for each individual solvent cleaning machine using the following equation:

$$PTE_i = Hi X Wi X SAI_i$$

where:

PTEi = the potential to emit for the solvent cleaning machine i (kilograms solvent per year)

Hi = hours of operation for solvent cleaning machine i (hours per year).

= 8760 hours per year, unless otherwise restricted by a federally enforceable requirement.

Wi = the working mode uncontrolled emission rate (kilograms per square meter per hour).

= 1.95 kilograms per square meter per hour for batch vapor and cold cleaning machines.

= 1.12 kilograms per square meter per hour for in-line cleaning machines.

SALI= solvent/air interface area of solvent cleaning machine i (square meters). Section 63.461 defines the solvent/air interface area for those machines that have a solvent/air interface. Cleaning machines that do not have a solvent area interface shall calculate a solvent/air interface area using the procedure in paragraph (b) below.

b. Cleaning machines that do not have a solvent area interface shall calculate a solvent/air interface area using the following equation:

$$SAI = 2.2 * (Vol)^{0.6}$$

where:

SAI = the solvent/air interface area (square meters).

Vol = the cleaning capacity of the solvent cleaning machine (cubic meters).

c. Sum the PTEi for all solvent cleaning operations to obtain the total potential to emit for solvent cleaning operations at the facility.

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VI. **Miscellaneous Requirements**

1. None

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**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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 Using Methylene Chloride to Degrease Metal Parts (L001)	see section B.VI.	see B.I.2.2.a

2. **Additional Terms and Conditions**

- a. The emissions of organic compound shall not be more than 32.6 tons/year.

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II. **Operational Restrictions**

1. None

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

1. The permittee shall maintain an annual record which lists the name of each degreasing solvent utilized, the number of gallons used in each degreasing unit and the density (pounds per gallon) of each solvent. The permittee shall also record the amount of waste solvent sent off site to a waste treatment facility (TSDF).

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**IV. Reporting Requirements**

1. The permittee shall submit an annual report which summarizes the annual total organic compound emissions as calculated according to the testing requirements of this permit. This report shall be submitted to the Ohio EPA, Northeast District Office by February 15 of each year and shall cover the operations of this emissions unit for the previous calendar year.

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**V. Testing Requirements**

1. Compliance with the emission limitation in Section B.I of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation: 32.6 tons/year

Applicable Compliance Method

To determine the actual organic compound emission rate, the following equation shall be used:

$$E = (L_s - L_w) \times D / 2000$$

E= organic compound emissions rate (tons/year)

L<sub>s</sub>= liquid volume of cleaning solvent employed each year (gallons)

L<sub>w</sub>= liquid volume of cleaning solvent sent off-site as waste (gallons)

D= density of cleaning solvent (pounds/gallon)

If more than one type of cleaning solvent is employed, the above equation shall be used for each cleaning solvent. The total annual organic compound emissions rate shall be determined by the summation of the annual organic compound emission rates for all cleaning solvents.

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**VI. Miscellaneous Requirements**

1. The following terms and conditions shall supersede the air pollution control requirements contained in permit to install number 02-6174 issued for this emissions unit: B.I, B.III.