



# HALOGENATED SOLVENT DEGREASERS



## COMPLIANCE INSPECTION CHECKLIST

**INSPECTION TYPE:** ANNUAL (INS1, INS2)  COMPLAINT/DISCOVERY (CI)   
 RE-INSPECTION (FUD)  ARMS COMPLAINT NO:

**AIRS ID#:** 0112272 **DATE:** 6/2/11 **ARRIVE:** 1315 **DEPART:** 1500  
**FACILITY NAME:** AERO PRECISION REPAIR & OVERHAUL  
**FACILITY LOCATION:** 580 S Military Trail  
 DEERFIELD BEACH 33442  
**RESPONSIBLE OFFICIAL:** ALEX TEARLE **PHONE:** (954)428-9500  
**CONTACT NAME:** Brian Meyer **PHONE:**  
**REMITTANCE YEAR:** 2006 **ENTITLEMENT PERIOD:** 1/26/2007 / 1/26/2012  
(effective date) (end date)

**PART I: INSPECTION COMPLIANCE STATUS** (check  only one box)  
 IN COMPLIANCE  MINOR Non-COMPLIANCE  SIGNIFICANT Non-COMPLIANCE

**PART II: NOTIFICATION – Rule 62-210.300 FAC**  
 (check  appropriate box(es))

|   |   |
|---|---|
| 1. Halogenated solvent used at facility:                    | 2. Indication on notification form that facility has the following machine type(s). |
| perchloroethylene ----- <input type="checkbox"/>            | Batch Vapor, $x \leq 1.21 \text{ m}^2$ ----- <input type="checkbox"/>               |
| methylene chloride ----- <input type="checkbox"/>           | Batch Vapor, $x > 1.21 \text{ m}^2$ ----- <input type="checkbox"/>                  |
| trichloroethylene ----- <input checked="" type="checkbox"/> | New In-line ----- <input type="checkbox"/>  |
| 1,1,1-trichloroethane ----- <input type="checkbox"/>        | Existing In-line ----- <input type="checkbox"/>                                     |
| carbon tetrachloride ----- <input type="checkbox"/>         | Batch Cold ----- <input type="checkbox"/>   |
| chloroform ----- <input type="checkbox"/>                   |   |

**PART III: CLASSIFICATION – Rule 62-213.300 FAC**  
 Indicate the machine type(s) observed at the facility:

|   |  |  |
|---|--|--|
| Batch Vapor, $x \leq 1.21 \text{ m}^2$ -- <input checked="" type="checkbox"/> | New In-line ----- <input type="checkbox"/>   | Batch Cold (immersion)----- <input type="checkbox"/>     |
| Batch Vapor, $x > 1.21 \text{ m}^2$ -- <input type="checkbox"/>               | Existing In-line -- <input type="checkbox"/> | Batch Cold (remote reservoir)-- <input type="checkbox"/> |

**PART IV: GENERAL CONTROL REQUIREMENTS – Rule 62-213.300 FAC**

**A. Batch Vapor and In-Line Machines**

1. Does the facility maintain an idling and downtime mode cover that is readily opened and closed, that completely covers, has no cracks, holes, or defects; OR maintain a room designed with reduced draft according to Part II, Section (5)(c)6.b of the permit notification? -----  Yes  No
2. Does the facility maintain a freeboard ratio of 0.75 or greater? -----  Yes  No
3. Does the facility utilize a parts basket or parts whose size is less than 50% of the solvent-air interface area; OR introduce parts or parts basket at 0.9 m/min (3 ft/min) or less? -----  Yes  No
4. Does the facility conduct all spraying operations within the vapor zone or an area not directly exposed to ambient air? -----  Yes  No
5. Does the facility install and maintain an automated parts handling system capable of moving the parts/parts basket at 3.4 m/min. (11 ft/min) or less? -----  Yes  No
6. Does the facility install and maintain a carbon adsorber on all machines using a lip exhaust? The exhaust concentration should not exceed 100 ppm halogenated solvent, the carbon adsorber should not be by-passed, the lip exhaust shall be located above the closed machine cover. ----  Yes  No  N/A
7. Does the facility have each machine equipped with:
- a. a device to shut off sump heat if the solvent level drops to the heater coils? -----  Yes  No
  - b. a device to shut off sump heat if the vapor level rises above the height of the vapor condenser? -----  Yes  N
  - c. a primary condenser? -----  Yse  N
8. Does the facility store all waste solvent, still bottoms, and sump bottoms in closed containers? -----  Yes  No

**B. Batch Cold Cleaning Machines**

1. Does the facility collect and store all waste solvent in closed containers? -----  Yes  No
2. Does the facility use a flexible hose or flushing device only within the freeboard area? -----  Yes  No
3. Does the facility drain cleaned parts for 15 seconds or longer or until dripping ceases, whichever is longer? -----  Yes  No
4. Does the facility maintain the solvent level inside the machine at or below the fill line? -----  Yes  No
5. Does the facility immediately clean up spills during solvent transfer? Store wipe rags in a covered container? -----  Yes  No
6. Does the facility operate the agitator to produce a rolling motion? (*applicable only when air or pump agitated solvent bath used*). -----  Yes  No  N/A
7. Does the facility ensure that the machine is not exposed to drafts greater than 40 m/min (132 ft/min) when the cover is open? -----  Yes  No
8. Does the facility ensure that sponges, fabrics, wood and paper products are not placed in the machine? -----  Yes  No

**Remote Reservoir Type Only**

9. Does the facility employ a tightly fitting cover over the solvent sump? The cover must be closed at all times except during parts cleaning. -----  Yes  No  N/A

**Immersion Type Only**

10. Does the facility employ a tightly fitting cover and a water layer with a thickness of at least 2.5 cm (1 in.); OR employ a tightly fitting cover and maintain a freeboard ratio of 0.75? Tightly fitting cover must be closed at all times except during parts entry and removal. -----  Yes  No  N/A

**PART V: PROCESS VENT CONTROLS – Rule 62-213.300 FAC** (not applicable to batch cold cleaning machines)

**Facility chose to meet requirements using:**

- control device combination / work practice standards -----
- alternative solvent emission limit (proceed to Part VI) -----
- idling emission limit / work practice standards (proceed to Part VI) -----

**A. Batch Vapor Machines,  $x \leq 1.21 \text{ m}^2$**

(Select control combination)

**DEVICE IN USE**

- |  |   |   |   |
|--|---|---|---|
| 1. <input checked="" type="checkbox"/> g | working mode cover -- <input checked="" type="checkbox"/> | 1.0 freeboard ratio - <input checked="" type="checkbox"/> | superheated vapor ----- <input checked="" type="checkbox"/> |
| 2. <input type="checkbox"/> g            | reduced room draft --- <input type="checkbox"/>           | 1.0 freeboard ratio - <input type="checkbox"/>            | superheated vapor ----- <input type="checkbox"/>            |
| 3. <input type="checkbox"/> g            | reduced room draft --- <input type="checkbox"/>           | 1.0 freeboard ratio - <input type="checkbox"/>            | dwel ----- <input type="checkbox"/>                         |
| 4. <input type="checkbox"/> g            | freeboard refrig. device <input type="checkbox"/>         | superheated vapor -- <input type="checkbox"/>             |   |
| 5. <input type="checkbox"/> g            | freeboard refrig. device <input type="checkbox"/>         | working mode cover <input type="checkbox"/>               |   |
| 6. <input type="checkbox"/> g            | freeboard refrig. device <input type="checkbox"/>         | reduced room draft <input type="checkbox"/>               |   |
| 7. <input type="checkbox"/> g            | freeboard refrig. device <input type="checkbox"/>         | 1.0 freeboard ratio - <input type="checkbox"/>            |   |
| 8. <input type="checkbox"/> g            | freeboard refrig. device <input type="checkbox"/>         | dwel ----- <input type="checkbox"/>                       |   |
| 9. <input type="checkbox"/> g            | freeboard refrig. device <input type="checkbox"/>         | carbon adsorber ---- <input type="checkbox"/>             |   |
| 10. <input type="checkbox"/> g           | carbon adsorber ----- <input type="checkbox"/>            | 1.0 freeboard ratio - <input type="checkbox"/>            | superheated vapor ----- <input type="checkbox"/>            |

**B. Batch Vapor Machines,  $x > 1.21 \text{ m}^2$**

(Select control combination)

**DEVICE IN USE**

- |                               |   |   |  |
|-------------------------------|---|---|--|
| 1. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | superheated vapor -- <input type="checkbox"/> | 1.0 freeboard ratio ----- <input type="checkbox"/> |
| 2. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | superheated vapor -- <input type="checkbox"/> | working mode cover --- <input type="checkbox"/>    |
| 3. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | superheated vapor -- <input type="checkbox"/> | reduced room draft ----- <input type="checkbox"/>  |
| 4. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | superheated vapor -- <input type="checkbox"/> | carbon adsorber ----- <input type="checkbox"/>     |
| 5. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | reduced room draft - <input type="checkbox"/> | dwel ----- <input type="checkbox"/>                |
| 6. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | reduced room draft - <input type="checkbox"/> | 1.0 freeboard ratio ----- <input type="checkbox"/> |
| 7. <input type="checkbox"/> g | 1.0 freeboard ratio <input type="checkbox"/>      | reduced room draft - <input type="checkbox"/> | superheated vapor ----- <input type="checkbox"/>   |

**C. Existing In-Line Machines**

(Select control combination)

**DEVICE IN USE**

- |                               |   |  |
|-------------------------------|---|--|
| 1. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | 1.0 freeboard ratio - <input type="checkbox"/> |
| 2. <input type="checkbox"/> g | superheated vapor ---- <input type="checkbox"/>   | 1.0 freeboard ratio - <input type="checkbox"/> |
| 3. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | dwel ----- <input type="checkbox"/>            |
| 4. <input type="checkbox"/> g | carbon adsorber ----- <input type="checkbox"/>    | dwel ----- <input type="checkbox"/>            |

**D. New In-Line Machines**

(Select control combination)

**DEVICE IN USE**

- |                          |   |   |
|--------------------------|---|---|
| <input type="checkbox"/> | freeboard refrig. device <input type="checkbox"/> | superheated vapor - <input type="checkbox"/>  |
| <input type="checkbox"/> | freeboard refrig. device <input type="checkbox"/> | carbon adsorber ---- <input type="checkbox"/> |
| <input type="checkbox"/> | superheated vapor ----- <input type="checkbox"/>  | carbon adsorber ---- <input type="checkbox"/> |

**PART VI: RECORDKEEPING REQUIREMENTS – Rule 62-213.300(3) FAC**

**Has the responsible official maintained the following:**

- 1. Owner's manuals, design specifications, and other instructional materials for cleaning machine and control equipment? -----  Yes  No
- 2. Date of installation for cleaning machine and all control devices? If the exact date is unknown, they must have a letter stating installation occurred before or after 11/29/93. -----  Yes  No
- 3. Halogenated solvent content for each solvent used? (*exempt if <5% by weight*) -----  Yes  No
- 4. Estimates of annual solvent consumption for each machine? -----  Yes  No
- 5. Dates of solvent additions and amounts added to each machine? (*applicable only to those using an alternative emission limit*) -----  Yes  No  N/A
- 6. Idling emissions limit tests, including values obtained during the initial performance test? (*applicable only to those using an idling emissions limit*) -----  Yes  No  N/A
- 7. All control device and parameter monitoring? (*applicable only to batch vapor and in-line machines*) -----  Yes  No  N/A
- 8. Information on remedial actions in the event of exceedances or other repairs and subsequent monitoring of affected parameters? -----  Yes  No  N/A
- 9. Monthly emissions calculations (*applicable only to those using an alternative or idling emission limit*) -----  Yes  No  N/A
- 10. 3-month rolling average emissions calculations? (*applicable only to those using an alternative emission limit*) -----  Yes  No  N/A
- 11. Cleaning capacity calculations? (*applicable only to those using an alternative emission limit without a solvent-air interface*) -----  Yes  No  N/A

Art Pennetta

6/2/11

\_\_\_\_\_  
Inspector's Name (Please Print)

\_\_\_\_\_  
Date of Inspection

6/12

\_\_\_\_\_  
Inspector's Signature

\_\_\_\_\_  
Approximate Date of Next Inspection

**COMMENTS:**