



HALOGENATED SOLVENT DEGREASERS



COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE: ANNUAL (INS1, INS2) ☒ COMPLAINT/DISCOVERY (CI) ☐
RE-INSPECTION (FUI) ☐ ARMS COMPLAINT NO:

AIRS ID#: 0250983 **DATE:** 10/20/2009 **ARRIVE:** 12:40 PM **DEPART:** 1:10 PM

FACILITY NAME: PROPULSION TECHNOLOGY

FACILITY LOCATION: 8855 NW 35th Lane
MIAMI 33172-1218

OWNER/AUTHORIZED REPRESENTATIVE: MICHEL FIOT **PHONE:** (305)592-1044

CONTACT NAME: **PHONE:**

ENTITLEMENT PERIOD: 12/5/2003 / 12/5/2008 **Facility may be operating without Entitlement!**
(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:

perchloroethylene ----- ☐
methylene chloride ----- ☐
trichloroethylene ----- ☐
1,1,1-trichloroethane ----- ☒
carbon tetrachloride ----- ☐
chloroform ----- ☐

2. Indication on notification form that facility has the following machine type(s).

Batch Vapor, $x \leq 1.21 \text{ m}^2$ ----- ☒
Batch Vapor, $x > 1.21 \text{ m}^2$ ----- ☐
New In-line ----- ☐
Existing In-line ----- ☐
Batch Cold ----- ☐

PART III: CLASSIFICATION – Rule 62-213.300 FAC

Indicate the machine type(s) observed at the facility:

Batch Vapor, $x \leq 1.21 \text{ m}^2$ -- ☒ New In-line ----- ☐ Batch Cold (immersion)----- ☐
Batch Vapor, $x > 1.21 \text{ m}^2$ -- ☐ Existing In-line -- ☐ Batch Cold (remote reservoir)-- ☐

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 type="checkbox"/> g | working mode cover -- <input type="checkbox"/> | 1.0 freeboard ratio - <input type="checkbox"/> | superheated vapor ----- <input 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 checked="" 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? ----- | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> 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. ---- | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 3. Halogenated solvent content for each solvent used? (<i>exempt if <5% by weight</i>) ----- | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 4. Estimates of annual solvent consumption for each machine? ----- | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 5. Dates of solvent additions and amounts added to each machine? (<i>applicable only to those using an alternative emission limit</i>) ----- | <input type="checkbox"/> Yes | <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| 6. Idling emissions limit tests, including values obtained during the initial performance test? (<i>applicable only to those using an idling emissions limit</i>) ----- | <input type="checkbox"/> Yes | <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| 7. All control device and parameter monitoring? (<i>applicable only to batch vapor and in-line machines</i>) ----- | <input type="checkbox"/> Yes | <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| 8. Information on remedial actions in the event of exceedances or other repairs and subsequent monitoring of affected parameters? ----- | <input type="checkbox"/> Yes | <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| 9. Monthly emissions calculations (<i>applicable only to those using an alternative or idling emission limit</i>) ----- | <input type="checkbox"/> Yes | <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| 10. 3-month rolling average emissions calculations? (<i>applicable only to those using an alternative emission limit</i>) ----- | <input type="checkbox"/> Yes | <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| 11. Cleaning capacity calculations? (<i>applicable only to those using an alternative emission limit without a solvent-air interface</i>) ----- | <input type="checkbox"/> Yes | <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |

FRANK DELGADO

10/20/2009

Inspector's Name (Please Print)

Date of Inspection

Inspector's Signature

Approximate Date of Next Inspection

COMMENTS: THE ENTITLEMENT PERIOD EXPIRED ON 12/5/2008. THE FACILITY IS MOVING TO MIRAMAR, FLORIDA WITHIN THREE (3) MONTHS AS PER MARCO ALVAREZ, THE FACILITY'S SUPERVISOR. THEY HAVE MOVED SOME EQUIPMENT BUT THE VAPOR DEGREASER IS STILL ON SITE AND IT IS OPERATIONAL. MR. ALVAREZ WAS TOLD TO SUBMIT A NOTIFICATION FORM TO TALLAHASSEE AS SOON AS POSSIBLE. I E-MAILED THE AIR PERMIT NOTIFICATION FORM THE SAME DAY. THE HOUSEKEEPING IS GOOD.