



# PERCHLOROETHYLENE DRY CLEANERS



## COMPLIANCE INSPECTION CHECKLIST

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

**AIRS ID#:** 0910088 **DATE:** 9/21/2006 **ARRIVE:** 1040 **DEPART:** 1200  
**FACILITY NAME:** HIGHTECH CLEANERS  
**FACILITY LOCATION:** 304 NE Eglin Parkway  
 FT WALTON BEACH 32548  
**RESPONSIBLE OFFICIAL:** MICHELLE YOO **PHONE:** (850)862-1480  
**CONTACT NAME:** Jay Yoo **PHONE:** 862-1480  
**REMITTANCE YEAR:** 2005 **ENTITLEMENT PERIOD:** 4/21/2005 / 4/21/2010  
(effective date) (end date)

**PART I: INSPECTION COMPLIANCE STATUS** (check  only one box)

IN COMPLIANCE  MINOR Non-COMPLIANCE  SIGNIFICANT Non-COMPLIANCE

**PART II: FACILITY CLASSIFICATION - Rule 62-213.300 FAC**

(check  only one box in A)

**A. 1. Existing small area source**   
 dry-to-dry only,  $x < 140$  gal/yr  
 transfer only,  $x < 200$  gal/yr  
 both types,  $x < 140$  gal/yr  
 (constructed before 12/9/91)

**2. New small area source**   
 dry-to-dry only,  $x < 140$  gal/yr  
 transfer only,  $x < 200$  gal/yr  
 both types,  $x < 140$  gal/yr  
 (constructed on or after 12/9/91)

**3. Existing large area source**   
 dry-to-dry only,  $140 \leq x \leq 2,100$  gal/yr  
 transfer only,  $200 \leq x \leq 1,800$  gal/yr  
 both types,  $140 \leq x \leq 1,800$  gal/yr  
 (constructed before 12/9/91)

**4. New large area source**   
 dry-to-dry only,  $140 \leq x \leq 2,100$  gal/yr  
 transfer only,  $200 \leq x \leq 1,800$  gal/yr  
 both types,  $140 \leq x \leq 1,800$  gal/yr  
 (constructed on or after 12/9/91)

**5. Ineligible for General Permit**   
 drop store/out of business/petroleum  
 facility exceeds above limits

**B.** The total quantity of perchloroethylene (perc) purchased within the preceding 12 months by this dry cleaning facility was 105 gallons.

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

(check  only one box for each question)

**Does the responsible official of the dry cleaning facility:**

1. Store perc, and wastes containing perc, in tightly sealed & impervious containers?  Yes  No  N/A
2. Examine the containers for leakage? -----  Yes  No  N/A
3. Close and secure machine doors except during loading/unloading? -----  Yes  No
4. Drain cartridge filters in their housing or in sealed containers for at least 24 hours prior to disposal? -----  Yes  No  N/A
5. Maintain solvent-to-carbon ratios and steam pressure for carbon adsorber beds according to the manufacturer's specifications? -----  Yes  No  N/A

**PART IV: PROCESS VENT CONTROLS – Rule 62-213.300 FAC**

(Refer to Part II-A.1.-4. Classification: page 1 of 4, this form)

1. If the facility classification is a **Existing small area source**, no controls are required. **Proceed to Part V.**
2. If the facility classification is a **New small area source**, the machine should be equipped with a refrigerated condenser. **Complete section A. below.**
3. If the facility classification is a **Existing large area source**, the machine should be equipped with either a refrigerated condenser or a carbon adsorber. **Complete both sections A and B below.** *Carbon adsorber must have been installed prior to September 22, 1993*
4. If the facility classification is a **New large area source**, the machine should be equipped with a refrigerated condenser. **Complete both sections A and B below.**

**A. Has the responsible official of all existing large area & new sources:**

(check  only one box for each question)

1. Equipped all machines with the appropriate vent controls? -----  Yes  No
2. Equipped dry-to-dry machines with a closed-loop vapor venting system? -----  Yes  No  N/A
3. Equipped the condenser with a diverter valve so airflow will be directed away from the condenser upon opening the door? -----  Yes  No  N/A
4. Measured and recorded the temperature of the outlet exhaust stream of a refrigerated condenser on a weekly basis? -----  Yes  No
5. Repaired or adjusted the equipment within 24 hours if the exhaust temperature of the condenser exceeded 45° F? -----  Yes  No  N/A
6. Conducted all temperature monitoring after an appropriate cool-down period and after verifying that the coolant had been completely charged? -----  Yes  No

**PART IV: PROCESS VENT CONTROLS – Rule 62-213.300 FAC (continued)**

**B. Does the responsible official of an existing large or new large area source also:**

(check  only one box for each question)

1. Measure and record the exhaust temperature on the outlet side of the condenser located on dry-to-dry, reclaimer, and dryer machines on a weekly basis? -----  Yes  No
2. Measure and record the washer exhaust temperature at the condenser inlet and outlet weekly? -----  Yes  No  N/A
  - a) Is the temperature differential equal to, or greater than 20° F? -----  Yes  No  N/A
3. Measure and record the perc concentration in the exhaust stream weekly at the end of the final drying cycle while the machine is venting to the adsorber, if machines are equipped exclusively with a carbon adsorber? -----  Yes  No  N/A
  - a) Is the perc concentration equal to, or less than 100 ppm? -----  Yes  No  N/A
4. Assure that the sampling port on the carbon adsorber exhaust for measuring perc concentrations is at least 8 duct diameters downstream of any bend, contraction, or expansion; is at least 2 duct diameters upstream from any bend, contraction, or expansion; and downstream from no other inlet? -----  Yes  No  N/A
5. Equip transfer machines (dryers, reclaimers, and washers) with individual condenser coils? -----  Yes  No  N/A
6. Route airflow to the carbon adsorber (if used) at all times? -----  Yes  No  N/A

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

**Does the responsible official:**

(check  only one box for each question)

1. Maintain receipts for perc purchased? -----  Yes  No
2. Maintain rolling monthly total of yearly perc consumption? -----  Yes  No
3. Maintain leak detection inspection and repair reports for the following:
  - a) documentation of leaks repaired w/in 24 hrs? or; -----  Yes  No  N/A
  - b) documentation of parts ordered to repair leak and leak repaired w/in 2 days and parts installed w/in 5 days of receipt? -----  Yes  No  N/A
4. Maintain calibration data? (*for applicable direct reading instruments*) -----  Yes  No  N/A
5. Maintain exhaust duct monitoring data on perc concentrations? -----  Yes  No  N/A
6. Maintain a startup/shutdown/malfunction plan? -----  Yes  No
7. Maintain deviation reports? -----  Yes  No  N/A
  - a) Problem corrected? -----  Yes  No  N/A
8. Maintain a compliance plan, if applicable? -----  Yes  No  N/A

**PART VI: LEAK DETECTION AND REPAIRS – Rule 62-213.300 FAC**

(check  only one box for each question)

1. Does the responsible official conduct a weekly (for small sources, bi-weekly) leak detection and repair inspection? -----  Yes  No
2. Does the facility maintain a leak log? -----  Yes  No
3. Does the responsible official check the following areas for leaks?
- |  |   |                             |                              |                              |   |                             |   |
|--|---|-----------------------------|------------------------------|------------------------------|---|-----------------------------|---|
| a) Hose connections, fittings, couplings, and valves ----- | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | g) Muck cookers -----        | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| b) Door gaskets and seating -----                          | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | h) Stills -----              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A            |
| c) Filter gaskets and seating -----                        | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | i) Exhaust dampers -----     | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| d) Pumps -----   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | j) Diverter valves -----     | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A            |
| e) Solvent tanks and containers--                          | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | k) Cartridge filter housings | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A            |
| f) Water separators -----                                  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |                              |   |                             |   |

4. Which method(s) of detection (is/are) used by the responsible official?
- |   |   |
|---|---|
| a) Visual examination (condensed solvent on exterior surfaces) -----        | a) <input checked="" type="checkbox"/>    |
| b) Physical detection (airflow felt through gaskets) -----                  | b) <input checked="" type="checkbox"/>    |
| c) Odor (noticeable perc odor) -----  | c) <input checked="" type="checkbox"/>    |
| d) Use of direct-reading instrumentation (FID/PID/calorimetric tubes) ----- | d) <input type="checkbox"/> **(see below) |
| e) Halogen leak detector -----  | e) <input type="checkbox"/>               |

- \*\*If using direct-reading instrumentation, is the equipment:** ----- \*\*  N/A
- |  |                                 |                             |
|--|---------------------------------|-----------------------------|
| 1) Capable of detecting perc vapor concentrations in a range of 0-500 ppm? -----       | 1) <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| 2) Calibrated against a standard gas prior to and after each use (PID/FID only)? ----- | 2) <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| 3) Inspected for leaks and obvious signs of wear on a weekly basis? -----              | 3) <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| 4) Kept in a clean and secure area when not in use? -----                              | 4) <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| 5) Verified for accuracy by use of duplicate samples (calorimetric only)? -----        | 5) <input type="checkbox"/> Yes | <input type="checkbox"/> No |

Charles Norman

9/21/2006

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

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

12 months

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

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

**COMMENTS:** Recordkeeping was incomplete. Mr. Yoo said his perc calendar had gotten wet and while it was lying out to dry it was inadvertently thrown away. He had been keeping some records on a ruled writing tablet. I provided a new 2006 perc calendar trained him in its use. I told him to start with January 2006 and complete the entries as best as he could. The dry cleaning machine was operating. The refrigerated condenser temperature reached a low of 39 deg F. I informed him of the new requirement to record the high and low refrigerated condenser pressure readings in lieu of recording the temperature readings. I also informed him that by July 27, 2008, he must obtain and use a halogen leak detector monthly to detect perc leaks. This requirement is in addition to the existing leak check program. I left the Statement of Compliance form for Ms. Yoo to complete and mail to us. She is currently listed as the responsible official. The minor non-compliance for recordkeeping is being closed without formal enforcement.