



# PERCHLOROETHYLENE DRY CLEANERS

## COMPLIANCE INSPECTION CHECKLIST



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

**AIRS ID#:** 1030418 **DATE:** 1/24/2007 **ARRIVE:** 12:30pm **DEPART:** 1:02pm

**FACILITY NAME:** HACIENDA DRY CLEANING FACILITY

**FACILITY LOCATION:** 551 Saturn Street  
CLEARWATER 33756

**RESPONSIBLE OFFICIAL:** DAVIN THOMPSON **PHONE:** (727)442-4791

**CONTACT NAME:** DAVIN THOMPSON **PHONE:** ( )

**REMITTANCE YEAR:** 2005 **ENTITLEMENT PERIOD:** 3/2/2003 / 3/2/2008  
(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 96.3 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? -----	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
2. Does the facility maintain a leak log? -----	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> 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
b) Door gaskets and seating -----	<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
d) Pumps -----	<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
f) Water separators -----	<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
h) Stills -----	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A
i) Exhaust dampers -----	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
j) Diverter valves -----	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
k) Cartridge filter housings	<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 type="checkbox"/>	
b) Physical detection (airflow felt through gaskets) -----	b) <input type="checkbox"/>	
c) Odor (noticeable perc odor) -----	c) <input 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: ----- ** <input checked="" type="checkbox"/> 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	

Shea L. Jackson

1/24/2007

Inspector's Name (Please Print)

Date of Inspection

1/1/2008

Inspector's Signature

Approximate Date of Next Inspection

#### COMMENTS:

- During the inspection of the facility, I met with the responsible official Mr. Davin Thompson and Kelsi Nuez. I observed the RealStar T35 dryer machine, it was not in operation at this time, had completed cycle.
- I observed the calendar record logs, and the dryer maintains a temperature range of -2°C thru - 8 °C during dryer cool down.
- I reviewed the 2006 and 2007 dryer records. The highest 12-month consecutive total was 96 gallons through calendar year. Mr. Thompson and his new assistant Kelsi Nuez are maintaining the calendar records, Perc purchase receipts and Hazardous waste manifest copies, by stapling them into the. The purchase invoices observed are typically 19.3 gallons of perchloroethylene.
- Mr. Thompson stated he has the maintenance contractor (MFI) check all the hoses and replaces if any leaks are observed. The dry cleaning equipment was not in operation at this time.
- The hazardous material black waste drums and separator water is disposed of with Hazardous waste. The containers are located in the secondary containment behind the drying equipment to prevent perchloroethylene from leaking onto floor. (See Photos).
- I asked in regards to the disposal of the filter cartridges. He stated they bake, and cool down before disposal into drums. I advised him to make sure allows to stay in containment cylinder for 24 hours prior to the removal.
- Mr. Thompson stated the facility is still in process of purchase a new dryer a DF 2000 Hydro Carbon machine, which will use a solvent, instead of perchloroethylene. He stated he now hopes it will be installed by the June 2007.
- There continues to be residents living quarters in the building adjacent to the dryer.
- I advised him of the rule updates, and gave copies of handouts, regarding the requirements to purchase Halogen detector devices as of July 27, 2008, and the restriction regarding residents in buildings where perc dryers were operated by 2020, dry cleaner must be removed. .
- I advised him to be aware of the rule changes requiring the need to obtain a Halogen Detector, if they do not get the Hydro Carbon, and I gave him additional information regarding the rule and detector. He stated he hopes the Perc cleaners will be removed from building this year, and Kelsi will take over the laundry operations. I told him to contact me if they remove the dryer.

- This facility was operating in compliance at the time of inspection, the responsible official signed the annual certification and I gave him copy of the inspection summary report.