



# PERCHLOROETHYLENE DRY CLEANERS



## COMPLIANCE INSPECTION CHECKLIST

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

<b>AIRS ID#:</b> 1030397	<b>DATE:</b> <u>6/11/2007</u>	<b>ARRIVE:</b> <u>9:45AM</u>	<b>DEPART:</b> <u>10:20AM</u>
<b>FACILITY NAME:</b> TABOR CLEANERS			
<b>FACILITY LOCATION:</b> 945 Huntley Ave DUNEDIN 34698			
<b>RESPONSIBLE OFFICIAL:</b> KENNETH SCHUMANN		<b>PHONE:</b> (727)733-0959	
<b>CONTACT NAME:</b> Kenneth Schumann		<b>PHONE:</b> (	
<b>REMITTANCE YEAR:</b> 2006	<b>ENTITLEMENT PERIOD:</b> 12/13/2002 / 12/13/2007		
	(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)

<p><b>A. 1. Existing small area source</b> <input checked="" type="checkbox"/>          dry-to-dry only, <math>x &lt; 140</math> gal/yr          transfer only, <math>x &lt; 200</math> gal/yr          both types, <math>x &lt; 140</math> gal/yr          (constructed before 12/9/91)</p>	<p><b>2. New small area source</b> <input type="checkbox"/>          dry-to-dry only, <math>x &lt; 140</math> gal/yr          transfer only, <math>x &lt; 200</math> gal/yr          both types, <math>x &lt; 140</math> gal/yr          (constructed on or after 12/9/91)</p>
<p><b>3. Existing large area source</b> <input type="checkbox"/>          dry-to-dry only, <math>140 \leq x \leq 2,100</math> gal/yr          transfer only, <math>200 \leq x \leq 1,800</math> gal/yr          both types, <math>140 \leq x \leq 1,800</math> gal/yr          (constructed before 12/9/91)</p>	<p><b>4. New large area source</b> <input type="checkbox"/>          dry-to-dry only, <math>140 \leq x \leq 2,100</math> gal/yr          transfer only, <math>200 \leq x \leq 1,800</math> gal/yr          both types, <math>140 \leq x \leq 1,800</math> gal/yr          (constructed on or after 12/9/91)</p>

**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 90 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 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	j) Diverter valves -----	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" 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

Shea L. Jackson

6/11/2007

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

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

2008

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

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

**COMMENTS:**

- During the tour of this facility, I met with the responsible official Mr. Kenneth Schumann
- I reviewed the 2006 and 2007 calendar dryer records. The temperature recording is not required for existing small machines. Mr. Schumann stated that he noticed the machine maintains a temperature range of 27 – 32°F during dryer cool down. He stated he checks the rear thermometer on the dryer, because the front digital is not calibrated. He had recently purchased a new condenser.
- The highest 12 month consecutive total was 90 gallons for 1/2007, the present total for June was 60 gallons. Mr. Schumann was maintaining the purchase receipts for the perchloroethylene and Hazardous waste manifest copies within the calendar record. The most previous invoice was 4/2007 for the disposal of 160 & 360 lbs perc waste.
- The purchases are typically 15 gallons of perchloroethylene every third month.
- I observed the HP 25 dryer machine, it was not in operation at this time, had just completed cycle. I did not detect perchloroethylene odors during this inspection and observation of the dryer. (See Photos).
- The black waste drums used for hazardous material were located in the secondary containment to prevent perchloroethylene leakage onto the floor. The water separator was sitting in additional secondary containment containers. The water is then transferred to the Galaxy Mister for evaporations. (See Photos). I gave Mr. Schumann a copy of the Waste water treatment memo from FDEP for guidance. He showed his record log he is maintaining for the amounts of water he is treating in the evaporator on a daily bases.
- I asked Mr. Schumann his procedure for filter change out. He stated he leaves the Perchloroethylene cartridges in over the weekend. He returns runs the dryer through 3 cycles without the drum rotation and this recovers ~ 1 gallon of perchloroethylene.
- I inquired as to his shutdown procedures. He showed the plan and emergency contacts posted on the dryer (See photo). He stated he also had the fire dept emergency procedures for emergency and posted exits over the door.
- The Hurst boiler 15 HP unit is operated by fuel oil is located in a second storage building on the east side of his facility (See Photos).

- I advised Mr. Schumann of the requirement to purchase a leak detector by July 2008, and gave him a copy of the rule requirement.
- I informed Mr. Schumann that permit was close to expiration, and would need to submit 60 days prior to expiration date of 12/13/2007. I told him should receive a notification for re-submittal by the first of October 2007, and he would need to submit at the end of September to prevent a violation. I gave him a blank and informed if he had any questions to contact our office. I advised him to maintain a copy for his own record.
- This facility was operating in compliance.