



# PERCHLOROETHYLENE DRY CLEANERS



## COMPLIANCE INSPECTION CHECKLIST

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

**AIRS ID#:** 1270153 **DATE:** 04/08/09 **ARRIVE:** 10:45 a.m. **DEPART:** 11:30 a.m.

**FACILITY NAME:** STROUD CLEANERS

**FACILITY LOCATION:** 636 W New York Ave  
 DELAND 32720

**OWNER/AUTHORIZED REPRESENTATIVE:** Edwin Cadelaria **PHONE:** (386)734-5775

**CONTACT NAME:** **PHONE:**

**ENTITLEMENT PERIOD:** 6/24/2004 / 6/24/2009  
 (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 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 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 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 0 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	g) Muck cookers -----	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
b) Door gaskets and seating -----	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	h) Stills -----	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
c) Filter gaskets and seating -----	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	i) Exhaust dampers -----	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
d) Pumps -----	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	j) Diverter valves -----	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
e) Solvent tanks and containers--	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	k) Cartridge filter housings	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
f) Water separators -----	<input type="checkbox"/> Yes <input checked="" 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:** ----- \*\*  N/A

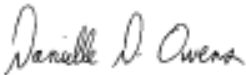
1) Capable of detecting perc vapor concentrations in a range of 0-500 ppm? -----	1) <input type="checkbox"/> Yes <input type="checkbox"/> No
2) Calibrated against a standard gas prior to and after each use (PID/FID only)? -----	2) <input type="checkbox"/> Yes <input type="checkbox"/> No
3) Inspected 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

Danielle D. Owens

April 8, 2009

Inspector's Name (Please Print)

Date of Inspection



Inspector's Signature

Approximate Date of Next Inspection

**COMMENTS:** 1) Facility is operating without Entitlement. A Perchloroethylene Dry Cleaner Air General Permit Notification Form was given to Edwin Cadelaria at time of the inspection. Mr. Cadelaria stated he took ownership of the facility on March 17, 2009. The Department was not notified of ownership change and the general air permit was not transferred. 2) Discarded filters are not properly stored. Approximately 7 filters are sitting on top of the secondary containment, but are not stored in tightly sealed impervious containers and there are approximately 6 filters sitting on top of hazardous waste storage containers, but are not stored in tightly sealed impervious containers. 3) Containers of separator water are open to the atmosphere. 4) Facility does not have a log of dates of when dry cleaning system components were inspected for leaks and could not provide documentation of leak detections being conducted. Facility possesses a halogen leak detector and the owner indicated it is used to perform leak detection checks. 5) The owner did not have the perc purchase receipts or manifest from the previous owner and has not purchased perc or had a waste pick-up since taking ownership in March 2009. There are several hazardous waste containers (2 - 15 gal drums of waste water, 1 - 15 gal drum of lint, 2 - filter containers) that need to be properly disposed of. The owner was instructed to contact a waste management company for a pick-up and to submit the manifest to the Department. 6) The owner stated that he has plans to remove the perc machines from the facility due to the property owner not wanting perc on the premises. He will replace the perc machines with hydrocarbon machines. The owner was instructed to provide the Department with invoices documenting the removal of both perc machines and the purchase of the hydrocarbon machines in order to be inactivated as a dry cleaning facility.