



PERCHLOROETHYLENE DRY CLEANERS



Environmental Compliance

COMPLIANCE INSPECTION CHECKLIST

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

AIRS ID#: 1270176 **DATE:** 09/15/08 **ARRIVE:** 2:08pm **DEPART:** 2:30pm
FACILITY NAME: ROYAL CLEANERS
FACILITY LOCATION: 3818 North Nova Road
 PORT ORANGE 32129
OWNER/AUTHORIZED REPRESENTATIVE: MERRN BAWLI **PHONE:** (386)788-7482
CONTACT NAME: **PHONE:**
ENTITLEMENT PERIOD: 5/20/2004 / 5/20/2009
 (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)

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 Unknown 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 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 | 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 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 |

Danielle D. Owens

Septemeber 15, 2008

Inspector's Name (Please Print)

Date of Inspection

Inspector's Signature

Approximate Date of Next Inspection

COMMENTS: FACILITY HAD PERC CONTAINING WASTE (MUCK) ON FLOOR BEHIND THE PERC MACHINE. 2) FACILITY DID NOT HAVE A HALOGEN LEAK DETECTOR. 3) FACILITY DID NOT HAVE PERC PURCHASE RECEIPTS AND MANIFEST AVAILABLE FOR REVIEW DURING THE INSPECTION. FACILITY IS BEING REFERED TO HAZARDOUS SECTION FOR ENFORCEMENT