



PERCHLOROETHYLENE DRY CLEANERS



COMPLIANCE INSPECTION CHECKLIST

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

AIRS ID#: 1030459 **DATE:** 10/11/2007 **ARRIVE:** 10:45AM **DEPART:** 11:30AM

FACILITY NAME: HI TECH CLEANERS

FACILITY LOCATION: 5523 Roosevelt Blvd
CLEARWATER 33760-3425

RESPONSIBLE OFFICIAL: TAEK MA

PHONE: (727)536-1288

CONTACT NAME: SAME

PHONE: (

REMITTANCE YEAR: 2006

ENTITLEMENT PERIOD: 7/18/2004 / 7/18/2009
(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 265 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 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 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: ----- ** <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 JACKSON

10/11/2007

| | |
|---------------------------------|-------------------------------------|
| Inspector's Name (Please Print) | Date of Inspection |
| | 2008 |
| Inspector's Signature | Approximate Date of Next Inspection |

COMMENTS:

- I performed an annual compliance inspection of this facility, and met with the responsible official, Mr. Taek Ma. Mr. Ma informed me, he had purchased and installed a new machine.
- I observed the dryer, a Multi Matic L 40, Serial Number # 40SL-R1-0807-7572, the dry to dry cleaner was not in operation at this time. I asked Mr. Ma if he had informed the FDEP or our department of new machine. I informed him we were not aware of the new machine. He stated he believed the mfg or installer had contacted them. I informed him this was not likely. I asked when he had purchased. He was not sure of the date. I asked if he could show me the purchase invoice. He did not have a purchase invoice.
- I reviewed the 2006 and 2007 calendar records, with Mr. Taek Ma. He is making weekly temperature and dryer observation entries for the required weekly observations. The records were up to date. The weekly cool down temperature checks were noted in the September calendar as consistently 20°F. The temperatures for June – August were still ranging from 35 – 39°F. The second week of August 8/10/2007 entries for the weekly check was 20°F and through the rest of the month. Mr. Ma stated the installer had informed him that the optimum temperature for machine operation Cool down cycle was to maintain 20°. He was not sure if F° or C°. I reviewed the operations manual. I could not locate information which referred to the optimum temperatures for dry to dry operations. The temperature is observed from the control panel at the left front of the machine. Mr. Ma stated he also checks the thermometer on the back in the left corner to the side of the condenser. I observed there were two gauges which showed temperatures. They were in tight quarters, and small print was not easily readable. (manufacturer stated this is temp for Perc distillation only not solvent temperature)
- There was also a temperature gauge under the condenser coil area. This gauge had a set point red needle (manufacturer stated this is temp for separator water not the solvent temperature)
- I observed around the dryer, and the associated equipment, and the Fulton 15 HP boiler.
- All receptacles and containers were closed. The Hazardous waste drums were in secondary containment. Mr. Ma showed how he can now operate the still, and it automatically dispenses waste through hose to the Haz waste receptacle. (See photo) The waste is picked up by Saftey Kleen, and MCF performs maintenance.

- He also showed how the evaporator is directly connected to the dry to dry, so the water goes directly into the evaporator. (see Photo)
- There were no Perchloroethylene odors detected during the observations of the facility. The Halogen detector as used did not register a Perc leak.
- I reviewed the perchloroethylene purchase and waste manifest receipts and 12/2/2006 was most recent copy, for waste disposal. I could not locate a equipment removal invoice for the old Donni Dry to Dry Machine.
- The invoices are kept with the calendar records. The most recent purchase for Perchloroethylene on 6/20/2007 was 20 gallons.
- The Highest perchloroethylene consecutive total for month (August and September) was 265 gallons. Mr. Ma stated they had drained the old machine into his new dry to dry.
- I obtained signature on annual certification, which stated discrepancy due to failure to notify department of equipment change. I informed Mr. Taek, I would let him know what we need to do to in regards to notification to Departments. I informed him a warning letter was possible.

10/15/2007 – I called 404-409-7094 and spoke to Mr. Chris Waan manufacturer contact for the 40L Multi Matic. He stated that the front panel was measuring the Fahrenheit, and he stated a probe to machine detects the temperature during the cool down at the condenser. He stated that one of the temperature gauges on the back next to the condenser is measuring and controlling the separator water temperature, which will shut the machine off if goes above 60°F. The other two gauges to the left of the condenser are for the measuring of the Perc temperature during the distilling process. He stated the only place the cool down cycle temperature could be monitored by the operator was on the front panel. I asked him if he had notified FDEP of the installation of the dry to dry. He stated he did not contact the department.