PERCHLOROETHYLENE DRY CLEANERS
COMPLIANCE INSPECTION CHECKLIST

Environmental Compliance

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

AIRS ID#:103 0451	**Date: 12/3/13** **Time In: 10:40am** **Time Out: 11:15am**		
Facility Name:	A1 Cleaners LLC		
Facility Location:	1850 Main Street		
	Dunedin, FL, 34698		
Responsible Official:	Vinay Patel	**Phone No:**	727-734-3353
e-mail:	kpatelfl@yahoo.com		
Emis. Unit Description:	New, Large Perchloroethylene Dry Cleaner: Consists of One 1999 Realstar Model 473, Serial# 42M8.273 and one 2007 Union, , Model #L740, Serial# 301-17-0809 Dry-To-Dry Machines with Refrigerated Condensers. Two 20 hp natural gas fired boilers are on-site.		
Permit Number:	1030451-007-AG	**Exp. Date:**	4/21/2018
Facility Contact:	Vinay Patel	**Renewal Date:**	3/22/2018
e-mail:	kpatelfl@yahoo.com	**Phone:**	727-734-3353
Compliance Status:	☒ **IN** ☐ **MNC** ☐ **SNC**		

PART I: NOTIFICATION (Check appropriate box)

1. **Existing** facility notified DARM by 9/1/96 ☐
2. **New** facility notified DARM 30 days prior to startup ☒
3. Facility **failed to notify** DARM to use general permit ☐

PART II: CLASSIFICATION

Facility indicated on notification form that it is:
☐ No Notification Form ☐ Drop-Off Store ☐ Out of business ☐ Petroleum Solvent Only

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> x <2,100** gal/yr
Transfer only, 200> x <1,800 gal/yr ☐
Both types, 140> x <1,800 gal/yr
(Constructed **before 12/9/91**)

4. **New large** area source
Dry-to-dry only, **140> x <2,100** gal/yr
Transfer only, 200> x <1,800 gal/yr ☒
Both types, 140> x <1,800 gal/yr
(Constructed on or **after 12/9/91**)

This is a correct facility classification ☒ Y ☐ N ☐ Can not determine

If no, please check the appropriate classification:
☐ Facility qualified for a general permit as number ___ above.
☐ Facility exceeds above limits and is not eligible for a general permit

B. Highest 12-month consecutive total of perchloroethylene purchased in the preceding 12-month period: 33 Gallons. Month with highest use was September 2013 . Did facility exceed limits ☐Y ☒N

PART III: GENERAL CONTROL REQUIREMENTS

Is the responsible official of the dry cleaning facility: (Check appropriate boxes)

1. Storing perchloroethylene in tightly sealed and impervious containers?	☒ Y	☐ N	☐ NA
2. Examining the containers for leakage?	☒ Y	☐ N	☐ NA
3. Closing and securing machine doors except during loading/unloading?	☒ Y	☐ N	
4. Draining cartridge filters in their housing or in sealed containers for at least 24 hours prior to disposal?	☒ Y	☐ N	☐ NA
5. Maintaining solvent-to-carbon ratios and steam pressure for carbon adsorber beds according to the manufacturer's specifications?	☐ Y	☐ N	☒ NA

PART IV: PROCESS VENT CONTROLS

In Part II-A:

If classification **(1)** has been checked, no controls are required. **Proceed to Part V.**

If classification **(2)** has been checked, the machine should be equipped with a refrigerated condenser (complete A below)

If classification **(3)** has been checked, the machine should be equipped with either a refrigerated condenser or a carbon adsorber (complete A and B below). A Carbon adsorber must have been installed prior to September 22, 1993.

If classification **(4)** has been checked, machine should be equipped with a refrigerated condenser (complete A and B below.)

A. Has the responsible official of all new sources and existing large area sources: (check appropriate boxes)

1. Equipped all machines with the appropriate vent controls?	☒ Y	☐ N	☐ NA
2. Equipped dry-to-dry machines with a closed-loop vapor venting system?	☒ Y	☐ N	☐ NA
3. Equipped the condenser with a diverter valve so airflow will be directed away from the condenser upon opening the door?	☒ Y	☐ N	☐ NA
4. Measured and recorded the temperature of the outlet exhaust stream of a refrigerated condenser on a weekly basis?	☒ Y	☐ N	☐ NA
5. Repaired or adjusted the equipment within 24 hours if the exhaust temperature of the condenser exceeded 45^0 F?	☒ Y	☐ N	☐ NA
6. Conducted all temperature monitoring after an appropriate cool down period and after verifying the coolant had been completely charged?	☒ Y	☐ N	☐ NA

B. Has the responsible official of an existing large or new large area source also:

1. Measured and **recorded** the exhaust temperature on the outlet side of the condenser located on dry-to-dry, reclaimer, and dryer machines on a weekly basis?	☒ Y ☐N
2. Measured and recorded the washer exhaust temp[illegible]re at the condenser inlet and outlet weekly?	☐Y ☐N ☐NA
Is the temperature differential equal to o[illegible]e[illegible]° F?	☐Y ☐N ☐NA
3. Measured and recorded th[illegible] concentration [illegible] weekly at the end of the final drying cycle while the [illegible]e is venting [illegible]rber, [illegible] machines are equipped with a carbon ad[illegible]er?	☐Y ☐N ☐NA
Is the pe[illegible]n e[illegible] or less tha[illegible] ppm?	☐Y ☐N ☐NA
4. Assured that the s[illegible]g po[illegible]on adsorber exhaust for measuring perc. concentrations is at [illegible]duct dia[illegible]ers downstream of any bend, contraction, or expansion; is at least [illegible]iameters upstream from any bend contraction, or expansion; and downstream from i[illegible]er inlet?	☐Y ☐N ☐NA
5. Equipped transfer machines (dryers, reclaimers, and washers) with individual condenser coils?	☐Y ☐N ☐NA
6. Routed airflow to the carbon adsorber (if used) at all times?	☐Y ☐N ☐NA

PART V: RECORDKEEPING REQUIREMENTS

Has the responsible official:
(Check appropriate boxes)

1. Maintained receipts for perc purchased?	☒ Y ☐N
2. Maintained rolling monthly averages of perc consumption?	☒ Y ☐N
3. Maintained leak detection inspection and repair reports for the following:	☐Y ☐N ☒NA
a. Documentation of leaks repaired w/in 24 hrs? or;	☐Y ☐N ☒NA
b. Documentation of parts ordered to repair leak and leak repaired w/in 2 days and parts installed w/in 5 days of receipt?	
4. Maintained calibration data? *(direct reading instruments only*)	☐ Y ☐N ☒NA
5. Maintained exhaust duct monitoring data on perc concentrations?	☐Y ☐N ☒NA
6. Maintained startup/shutdown/malfunction plan?	☒Y ☐N
7. Maintained deviation reports?	☐Y ☐N ☒NA
Problem corrected?	☐Y ☐N ☒NA
8. Maintained compliance plan, if applicable?	☐Y ☐N ☒NA

PART VI: LEAK DETECTION AND REPAIRS

1.	**Does the responsible official conduct weekly leak detection and repair inspection?**					☒ Y	☐N
2.	**Which method of detection does the responsible official use?**					☒ Y	☐N
	Visual examination (condensed solvent of exterior surfaces)					☒ Y	☐N
	Physical detection (airflow felt through gaskets)					☒ Y	☐N
	Odor (noticeable perc odor)					☒ Y	☐N
	Use of direct-reading instrumentation (FID/PID/calorimetric tubes)					☐Y	☒N
	If using direct-reading instrumentation, is the equipment:					☐Y	☐N
	a. Capable of detecting perc vapor concentrations in a range of 0-500 ppm					☐Y	☐N
	b. Calibrated against a standard gas prior to and after each use (PID/FID only).					☐Y	☐N
	c. Inspected for leaks and obvious signs of wear on a weekly basis?					☐Y	☐N
	d. Kept in a clean and secure area when not in use.					☐Y	☐N
	e. Verified for accuracy by use of duplicate samples (calorimetric only)?					☐Y	☐N
3.	**Has the facility maintained a leak log?**					☒Y	☐N
4.	**The following area should be checked for leaks by the operator:**					☒Y	☐N
	Hose connections, fitting couplings, and valves	☒Y	☐N	Muck cookers		☐Y	☒N
	Door gaskets and seating	☒Y	☐N	Stills		☒Y	☐N
	Filter gaskets and seating	☒Y	☐N	Exhaust dampers		☒Y	☐N
	Pumps	☒Y	☐N	Diverter valves		☐Y	☒N
	Solvent tanks and containers	☒Y	☐N	Cartridge Filter housing		☒Y	☐N
	Water separators	☒Y	☐N				

Shea Jackson	12/3/13
Inspector's Name (Please Print)	Date of Inspection
	Within one year of this inspection
Inspector's Signature	Date of Next Inspection 2014

ADDITIONAL SITE INFORMATION

Facility Name:	A1 Cleaners LLC
ARMS #:	103 0451

A.Q. Program Manager advised A.Q. Division will inform the Responsible official of requirements, and was given a verbal warning. Mr. Patel was advised from the date of previous inspection forward he must be recording the actual observed temperatures into the record calendars, in addition to the circling of the Y for yes in column that states the temperature was below 45F or 7.2C. He was advised to check and record the temperatures from the temperature gauge at the rear of machine, which indicates the condenser temperature. This is to demonstrate properly monitoring the machines are operating below 45F or 7.2C the minimum temperature requirement. An email was sent to his son, co owner Kunj Patel..

Inspection Comments:

- For this re-inspection I met with Vinay Ravi Patel, the R.O. and facility contact. Mr.Kunj Patel was not on site.
- I observed the Perc machines, Realstar RS 473 Serial # 42M8273, and a Union L740 U 2000 perc machine Serial # 301-17-0809
- I reviewed the records in the Phoenix Perc calendar for the temperature checks. The temperature check was circled Y as yes for observed to be below 45F or 7C
- Mr. Patel was now recording the actual temperatures in the condenser column of the Phoenix calendar records for the Union or RealStar dry to dry machines. He had started with 10/21/ 2013 weekly leak check, as requested. (See photo)
- Mr. Vinay Patel stated he was now aware the temperature was to be checked and he had to record the observed temperatures from the condenser guage at the rear of each machine. He pointed out the gauges at the rear of machine he was observing. (See photo)
- I again informed him that the intent of the recording of the actual temperature is so that the operator would be alerted to a possible leak or problem during the cool down cycle and realize a repair should be made before a temperature exceedance occurred. I also informed him loss of perc is loss of profit. Mr. Patel stated the temperatures vary only slightly.
- The facility is now operating in compliance with the permit conditions

ADDITIONAL SITE INFORMATION

Facility Name:	Phu Enterprises Changed to Family Cleaners new owner Patel
ARMS #:	103 0451

Machine #1:			
Manufacturer	Realstar	Capacity	Lbs ~55lbs
Model#	RS 473	Serial#42M8 273	Mfg yr 1999
Machine #2:			
Manufacturer	Union	Capacity	lbs
Model#	L740 U 2000	Serial#301-17-0809	Mfg yr 2007

Notification (unpermitted sources only):

1. Was the facility assisted in filling out the notification by the inspector?	☐Y	☒N
2. Did the facility insist on filling out its own notification, and will send it to FDEP?	☐Y	☒N

Record keeping :

1. Does facility have statement/specs as to the design accuracy of the temperature sensor? (Temperature of 45^0F w/accuracy +/– 2^0F, or 7.2EC w/accuracy of +/– 1.1^0C)	☒Y	☐N

Hazardous Waste:

1. Is all perc. contaminated wastewater either treated or disposed of properly?	☒Y	☐N
2. If wastewater is evaporated, is it an approved system, and using carbon filtration?	☒Y	☐N
3. Does the facility have secondary containment for the dry-dry machine?	☒Y	☐N
4. Does the facility have secondary containment for any perc. waste containers?	☒Y	☐N

Comment: *The containment was on site, drums sitting inside the containment holder. (See photo)*

Boiler:

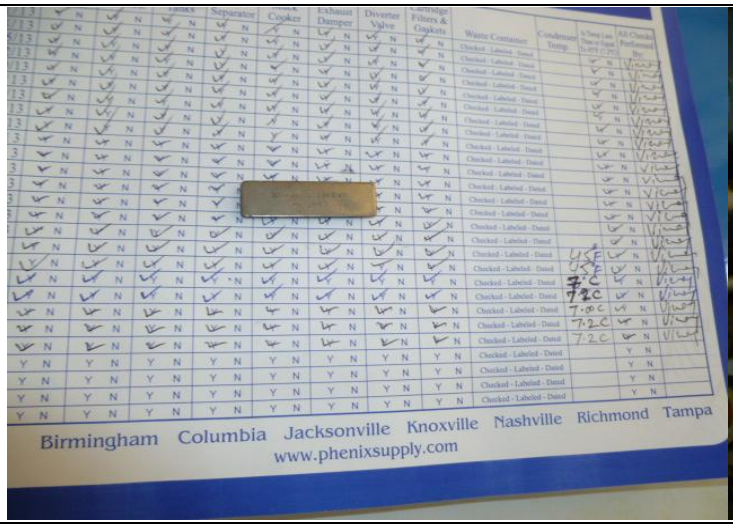
Manufacturer	Fulton		Hp 25
Model #		Serial #	Mfg yr 2009

Fuel Type: Natural gas? ☒ Propane? ☐ Fuel oil? ☐

Comments: Same Boiler exempt from permitting

A1 Cleaners LLC Family Cleaners

1850 Main Street, Dunedin



Project Id: 88164 **Permit No:** 1030451-007-AG **Arms Number:** 0451

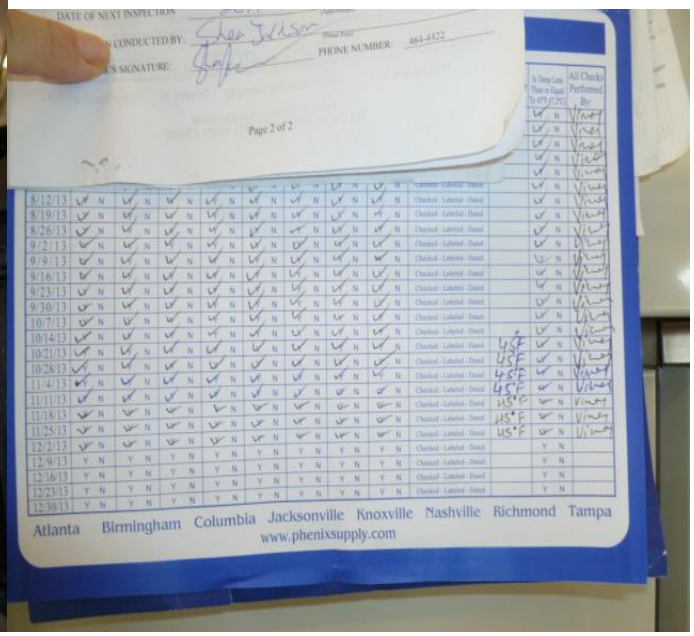
Inspector: Shea Jackson **Inspection Date / Time:** 10/24/2013 / _____

Source (EU): New, Large Perchloroethylene Dry Cleaner: Consists of One 1999 Realstar Model 473, Serial# 42M8.273 and one 2007 Union, , Model #L740, Serial# 301-17-0809 Dry-To-Dry Machines with Refrigerated Condensers. Two 20 hp natural gas fired boilers are on-site.

Description: The Realstar 473 calendar showing actual temperature as 7.2C, behind the machine the condenser guage the facility contact is checking.

A1 Cleaners LLC Family Cleaners

1850 Main Street, Dunedin



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Description: [The Union L740 record now has the actual 45F observed temperature recorded. temperature guage he is observing]