

PERCHLOROETHYLENE DRY CLEANERS



COMPLIANCE INSPECTION CHECKLIST

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

AIRS ID#: 103 0451	Date: 12/12/12	Time In: 12:15PM	Time	e Out: 12:50PM
Facility Name:	Phu Enterprises			
Facility Location:	1850 Main Street			
	Dunedin, FL, 34698			
Responsible Official:	Cuong Van Phu	Phor	ne No:	727-734-3353
	New, Large Perchloro	ethylene Dry Cleaner	: Consists of	f 2 1999 Realstar 473 Dry-
Emis. Unit Description:	To-Dry Machines with	h Refrigerated Conder	nsers. A 15	hp natural gas fired boiler
	is on-site.			
Permit Number:	1030451-005-AG	Exp.	Date:	9/26/2012
Facility Contact:	Cuong Van Phu	Phor	ne:	727-734-3353
Compliance Status:		NC 🛛 SNC		

PART I: NOTIFICATION (Check appropriate box)	
1. Existing facility notified DARM by 9/1/96	\boxtimes
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: \square No Notification Form \square Drop-Off Store \square Out of business \square Petroleum SolventA. $\underline{1. Existing small area source}$ Dry-to-dry only, x <140 gal/yr Transfer only, x <200 gal/yr	Only
 This is a correct facility classification	

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	\Box N	□ NA
2. Examining the containers for leakage?	⊠ Y	\Box N	□ NA
3. Closing and securing machine doors except during loading/unloading?4. Draining cartridge filters in their housing or in sealed containers for at	⊠Y	\Box N	
least 24 hours prior to disposal?	$\boxtimes \mathbf{Y}$	\Box N	\Box NA
5. Maintaining solvent-to-carbon ratios and steam pressure for carbon adsorber beds according to the manufacturer's specifications?	ΓY	□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	\Box N	□ NA
4. Measured and recorded the temperature of the outlet exhaust stream of a refrigerated	⊠ Y	□ N	□ NA
condenser on a weekly basis?5. Repaired or adjusted the equipment within 24 hours if the exhaust temperature of the	×Υ	□N	□ NA
condenser exceeded 45 [°] F?			
6. Conducted all temperature monitoring after an appropriate cool down period and after verifying the coolant had been completely charged?	⊠ Y	\Box N	\Box NA
ventying the coolant had been completely charged?			

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 tem ⁻ e at the condenser inlet and outlet weekly?	□Y □N □NA
	Is the temperature differential equal to on $^{\circ}$ F?	□Y □N □NA
3.	Measured and recorded the concentration veekly at the end of the	
	final drying cycle while the pe is venting the period the period with a carbon addition?	ΠΥ ΠΝ ΠΝΑ
	Is the period or less the ppm?	$\square Y \square N \square NA$
4.	Assured that the s g p on adsorber exhaust for measuring perc.	
	concentrations is at duct diameters downstream of any bend, contraction, or	
	expansion; is at least liameters upstream from any bend contraction, or expansion;	
	and downstream from n der inlet?	LY LN LNA
5.	Equipped transfer machines (dryers, reclaimers, and washers) with individual condenser	
	coils?	LY LN LNA
6.	Routed airflow to the carbon adsorber (if used) at all times?	□Y □N □NA

PAR	V: RECORDKEEPING REQUIREMENTS			
	e responsible official: (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:a. Documentation of leaks repaired w/in 24 hrs? or;b. Documentation of parts ordered to repair leak and leak repaired w/in 2 days and parts installed w/in 5 days of receipt?	□Y □Y	□N □N	⊠NA ⊠NA
4.	Maintained calibration data? (direct reading instruments only)	ΠY	□N	⊠NA
5.	Maintained exhaust duct monitoring data on perc concentrations?	ΠY	□N	⊠NA
6.	Maintained startup/shutdown/malfunction plan?	⊠Y	□N	
7.	Maintained deviation reports? Problem corrected?	□Y □Y	□N □N	⊠NA ⊠NA
8.	Maintained compliance plan, if applicable?	ΠY	□N	⊠NA

PART VI: LEAK DETECTION AND REPAIRS

1.	Does the responsible official conduct weekly le	ak det	ection a	and repair inspection?	$\boxtimes \mathbf{Y}$	□N
2.	Which method of detection does the responsible	le offic	cial use	?	$\boxtimes \mathbf{Y}$	□N
	Visual examination (condensed solvent of exterior surfaces)					□N
	Physical detection (airflow felt through ga	skets)			$\boxtimes \mathbf{Y}$	□N
	Odor (noticeable perc odor)				$\boxtimes \mathbf{Y}$	□N
	Use of direct-reading instrumentation (FII	D/PID/	calorim	etric tubes)	$\Box Y$	$\boxtimes N$
	If using direct-reading instrumentation, is the	equip	ment:		ΩY	ΠN
	a. Capable of detecting perc vapor concen	tration	s in a ra	inge of 0-500 ppm	ΠY	$\Box N$
	b. Calibrated against a standard gas prior t	o and	after ead	ch use (PID/FID only).	ΩY	ΠN
	c. Inspected for leaks and obvious signs of	f wear	on a we	ekly basis?	ΠY	$\Box N$
	d. Kept in a clean and secure area when no	ot in us	se.		ΠY	ΠN
	e. Verified for accuracy by use of duplicate samples (calorimetric only)?					ΠN
3.	3. Has the facility maintained a leak log?					$\Box N$
4.	The following area should be checked for leaks	s by th	e opera	itor:	$\boxtimes \mathbf{Y}$	$\Box N$
	Hose connections, fitting couplings, and valves	$\boxtimes \mathbf{Y}$	□N	Muck cookers	$\Box Y$	$\boxtimes N$
	Door gaskets and seating	$\boxtimes \mathbf{Y}$	□N	Stills	$\boxtimes \mathbf{Y}$	□N
	Filter gaskets and seating	$\boxtimes \mathbf{Y}$	□N	Exhaust dampers	$\boxtimes \mathbf{Y}$	□N
	Pumps	$\boxtimes \mathbf{Y}$	□N	Diverter valves	$\Box Y$	$\boxtimes N$
	Solvent tanks and containers	$\boxtimes \mathbf{Y}$	$\Box N$	Cartridge Filter housing	$\boxtimes \mathbf{Y}$	□N
	Water separators	$\boxtimes \mathbf{Y}$	□N			

Shea Jackson	December 12, 2012
Inspector's Name (Please Print)	Date of Inspection
	Within one year of this inspection
Inspector's Signature	Date of Next Inspection

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System Inspection and Leak Detection

Are the following dry cleaning system components inspected weekly for perceptible leaks (sight, smell or touch) while the system is in operation (§63.322(k))? (Inspection with a halogenated hydrocarbon detector or PCE gas analyzer also fulfills the requirement for inspection of perceptible leaks.) $\boxtimes Y \quad \Box N \quad \Box NA$

Are the following dry cleaning system components inspected monthly for vapor leaks using a halogenated hydrocarbon detector or PCE gas analyzer while the system is in operation? (Any inspection conducted according to this paragraph shall satisfy the requirements to conduct an inspection for perceptible leaks under §63.322(k) or (l). \boxtimes Y \square N \square NA

- (1) Hose and pipe connections, fittings, couplings, and valves;
- (2) Door gaskets and seatings;
- (3) Filter gaskets and seatings;
- (4) Pumps;
- (5) Solvent tanks and containers;
- (6) Water separators;
- (7) Muck cookers;
- (8) Stills;
- (9) Exhaust dampers;
- (10) Diverter valves; and
- (11) All Filter housings

Is the halogenated hydrocarbon detector or PCE gas analyzer operated according to the manufacturer's instructions? $\boxtimes Y \quad \Box N \quad \Box NA$

Is the vapor leak inspection conducted by placing the probe inlet at the surface of each component interface where leakage could occur and moving it slowly along the interface periphery? $\square Y \square N \square NA$

Is the PCE gas analyzer a flame ionization detector, photo ionization detector, or infrared analyzer capable of detecting vapor concentrations of PCE of 25 parts per million by volume? $\Box Y \quad \Box N \quad \boxtimes NA$

Is the halogenated hydrocarbon detector capable of detecting vapor concentrations of PCE of 25 parts per million by volume and indicating a concentration of 25 parts per million by volume or greater by emitting an audible or visual signal that varies as the concentration changes? \square Y \square N \square NA

ADDITIONAL SITE INFORMATION

Facility Name:	Phu Enterprises
ARMS #:	103 0451

File review Comments:

- 12/7/12- Permit expired 9/26/12 as discovered by SES.
- 12/7/12- call to facility AR not at site, and clerk could not speak English.
- 12/7/12- Attempt call cell phone, changed number, Sent Email to AR, Cuong Phu email to inform facility in violation operating without permit.
- 12/10/12- phone call to facility no answer.
- 12/11/2012- phone call to facility number no answer. Additional phone call to authorized representative's long distance cell phone number, and it was no longer Mr. Cuong Phu's number.

Inspection Comments: 12/12/12-

- Performed an inspection of facility and found business to be in operation. (See photos)
- The facility authorized representative, Mr Cuong Phu was not on site.
- I spoke to Facility contact John Phu on site; he called the facility authorized representative, Cuong Phu from his cell phone, and passed the phone to me.
- I informed Mr. Cuong Phu his permit had expired ~ 3 months ago on 9/26/12. He stated he had received the email I sent on 12/7/12, but he did not have the correct permit number for completing the air permit registration. He stated he had tried to call me, but could not get through. His son John Phu brought me a certificate, which was for the waste cleanup for Dry cleaning site. I told him that is different agency, and was not the Air Operations permit.
- During records review in the facility office, we located the GPV registration form, Mr. Cuong Phu had started filling out, but had omitted permit number.
- I gave the permit number to John Phu and he entered the Air Permit number on the hard copy of the registration form. (See photo).
- I reviewed the records for the dry cleaning machines. The leak and temperature checks were up to date 12/7/12.
- The temperature readings average 4EC which is below the 7.2 EC required by operation limitation.
- The most recent purchase order was for October 2012 and 38.6 gallons was divided into the two machines, and brought the totals to 95.6 and 92.6 gallons for the highest 12 month consecutive totals for 2012.
- MCF picked up Hazardous waste 3 15 gallon containers on 9/19/12.
- Mr. John Phu performed halogen leak detection, no leaks were observed, and no Perc odors were detected during inspection of Dry Cleaning machines which were both in operation.
- I advised Mr Choung Phu he needed to submit as soon as possible to avoid further penalties. I informed him the facility is in non compliance pending the registration of general permit, as they are operating without permit.

ADDITIONAL SITE INFORMATION

Facility Name:	Phu Enterprises				
ARMS #:	103 0451				
N/ L ² #1.					
Machine #1: Manufacturer	Deel Ster	Caraaity	50	116 a	
	Real Star	Capacity	50	lbs	1000
Model#	Ultra plus	Serial#		Mfg yr	1999
Machine #2:	Real Star		5 0		
Manufacturer		Capacity	50	lbs	
Model#		Serial#		Mfg yr	1999
N - 4:6 4: (A-			
	permitted sources only) ty assisted in filling out th		nector?	⊠Y	□N
	y insist on filling out its c		-	⊠ I ⊠Y	
Record keeping			I Selid It to FDEF ?		
	• • have statement/specs as to	the design accuracy of t	the temperature sensor?	⊠Y	□N
-	ature of 45 ⁰ F w/accuracy		-		
Hazardous Wa	•	+7 = 2 F, 01 7.2LC w/acc	(1acy 01 + 7 - 1.1 C)		
	ntaminated wastewater eit	ther treated or disposed o	of properly?	⊠Y	□N
2. If wastewater	⊠Y				
	⊠Y				
3. Does the facility have secondary containment for the dry-dry machine?4. Does the facility have secondary containment for any perc. waste containers?					
Boiler:				$\boxtimes Y$	
Manufacturer	Fulton			Hp 15	
Model #		Serial #		Mfg yr	2009
Fuel Type:	Natural gas? □	Propane?	□ Fuel oil? □		
Comments:					

ENFORCEMENT SUMMARY

Facility Name:Phu EnterprisesARMS #:103 0451

Viol#	Violation Description	Frequency	From	То
per00	Failure to notify and obtain a permit		9/26/12	12/12/12
per01	No purchase records	Monthly		
per02	No perc. purchase rolling totals	Monthly		
per03	No leak log	🗌 Weekly 🗌 Bi-weekly		
per04	No temp. log	Weekly		
per05	No SSM plan			
per06	Temp. sensor accuracy verification			
per07	No leak checks	🗌 Weekly 🗌 Bi-weekly		
per08	No temp. checks	Weekly		
per09	Perceptible leaks			
per10	No carbon absorber			
per11	No carbon absorber test	Weekly		
per12	No leak tight containers			
per13	No separator pre-filter			
per14	Leaks not repaired within 24hrs.			
per15	Repair refrig. cond./carbon abs. within 2 days			

Viol#	Comments
Per00	Facility allowed permit to expire 9/26/12.