



**B. Highest 12-month consecutive total of perchloroethylene purchased in the preceding 12-month period: 120 Gallons. Month with highest use was September 2010 . 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?   | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 2. Examining the containers for leakage?  | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 3. Closing and securing machine doors except during loading/unloading?  | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |                             |
| 4. Draining cartridge filters in their housing or in sealed containers for at least 24 hours prior to disposal?                     | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 5. Maintaining solvent-to-carbon ratios and steam pressure for carbon adsorber beds according to the manufacturer's specifications? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> 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?   | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 2. Equipped dry-to-dry machines with a closed-loop vapor venting system?   | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 3. Equipped the condenser with a diverter valve so airflow will be directed away from the condenser upon opening the door?                 | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 4. Measured and recorded the temperature of the outlet exhaust stream of a refrigerated condenser on a weekly basis?                       | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 5. Repaired or adjusted the equipment within 24 hours if the exhaust temperature of the condenser exceeded 45° F?                          | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 6. Conducted all temperature monitoring after an appropriate cool down period and after verifying the coolant had been completely charged? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> 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?   | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |                             |
| 2. Measured and recorded the washer exhaust temperature at the condenser inlet and outlet weekly?<br>Is the temperature differential equal to or greater than 10° F?   | <input type="checkbox"/> Y            | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 3. Measured and recorded the solvent concentration weekly at the end of the final drying cycle while the machine is venting through a carbon adsorber, if machines are equipped with a carbon adsorber?<br>Is the peak concentration or less than 100 ppm? | <input type="checkbox"/> Y            | <input type="checkbox"/> N | <input type="checkbox"/> NA |

4. Assured 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?

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:

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?

Y  N  NA

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**

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

Shea Jackson	October 20, 2010
Inspector's Name (Please Print)	Date of Inspection
	Within one year of this inspection
Inspector's Signature	Date of Next Inspection

## 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.) Y N 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).) Y N 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? Y N 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? Y N 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? Y N 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? Y N NA

## ADDITIONAL SITE INFORMATION

**Facility Name:** Spartan Enterprises, Inc.

**ARMS #:** 103 0296

### Inspection Comments:

- *Inspection of the facility, I met with Mr. Keith McNamara, the responsible official and Mr. Terry Kincaide, the facility maintenance technician. Mr. Kincaide performs maintenance and leak check observations of the dry to dry and maintains the calendar records*
- *I reviewed the records. The Perc totals and leak check observations were up to date 10/18/2010. Mr. Kincaide, stated they had obtained the Perc from their other plant, in 2009. The Perc usage totals were reviewed from January 2009 through September 2010. The Perc purchase invoices were in binder. I observed 4 purchase orders from 2010, each for 30 gallons. The highest 12 month total was for September 2010 was for 120 gallons*
- *The Hazardous waste manifest is also maintained in a binder. The most recent amounts dispose of was 2 drums on 9/1/2010.*
- *The temperature indicated on the record was 7 °C. This is acceptable temperatures below 7.5 °C.*
- *Mr. Kincaide demonstrated the use of the Halogen detector. He turned on, and detector emits a low beeping, he went around the door, button traps, piping, and area previous leaks had been found. The halogen detector did not alarm. (see photos) Mr. Kincaide indicated the filter cartridges had been drained for a day, and replaced on 10/19/2010.*
- *There were no perc odors detected during observations of the dry to dry operation.*
- *The Hazardous waste containers were in secondary containment. (see Photos)*
- *The facility collects the separator water and puts into the Galaxy mister evaporator.*
- *I gave Mr. Kinkaide the two P2 information brochures for Dry Cleaning industry.*
- *The facility was in compliance at the time of this inspection.*

**ADDITIONAL SITE INFORMATION**

<b>Facility Name:</b>	Spartan Enterprises, Inc.
<b>ARMS #:</b>	103 0296

<b>Machine #1:</b>			
Manufacturer	Union	Capacity	lbs
Model#		Serial#	Mfg yr
<b>Machine #2:</b>			
Manufacturer		Capacity	lbs
Model#		Serial#	Mfg yr

**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?  Y  N  
 (Temperature of 45<sup>0</sup>F w/accuracy +/- 2<sup>0</sup>F, or 7.2EC w/accuracy of +/- 1.1<sup>0</sup>C)

**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

**Boiler:**

Manufacturer	Hurst	Hp	25
Model #	4VTD25\50	Serial #	VGI-150-1233
		Mfg yr	2002

Fuel Type:    Natural gas?                          Propane?                        Fuel oil?           

**Comments:**    Boiler is exempt from permitting



# Spartan Enterprises, Inc. Spartan Cleaners - Plant #1

32646 U.S. Highway 19 North, Palm Harbor



**Project Id:** 75684      **Permit No:** 1030296-003-AG      **Arms Number:** 0296

**Inspector:** Shea Jackson      **Inspection Date / Time:** 10/20/2010

**Source (EU):** New, Large Perchloroethylene Dry Cleaner. One Dry-to-dry machine, purchased in December 1994, with a refrigerated condenser. 25 HP, natural gas fired boiler is on-site slj

**Description:** [Mr. Kincaide demonstrating the use of the Halogen detector for leak checks for Perc around the door ]

# Spartan Enterprises, Inc. Spartan Cleaners - Plant #1

32646 U.S. Highway 19 North, Palm Harbor



**Project Id:** 75684      **Permit No:** 1030296-003-AG      **Arms Number:** 0296

**Inspector:** Shea Jackson      **Inspection Date :** 10/20/2010

**Source (EU):** New, Large Perchloroethylene Dry Cleaner. One Dry-to-dry machine, purchased in December 1994, with a refrigerated condenser. 25 HP, natural gas fired boiler is on-site

**Description:** [ Mr. Kincaide demonstrating the use of the Halogen detector for leak checks for Perc in the rear of the dry to dry machine ]



# Spartan Enterprises, Inc. Spartan Cleaners - Plant #1

32646 U.S. Highway 19 North, Palm Harbor



**Project Id:** 75684      **Permit No:** 1030296-003-AG      **Arms Number:** 0296

**Inspector:** Shea Jackson      **Inspection Date:** 10/20/2010

**Source (EU):** New, Large Perchloroethylene Dry Cleaner. One Dry-to-dry machine, purchased in December 1994, with a refrigerated condenser. 25 HP, natural gas fired boiler is on-site slj

**Description:** [The hazardous waste containers in the secondary containment are stored at the rear of the machine.]





# Spartan Enterprises, Inc. Spartan Cleaners - Plant #1

32646 U.S. Highway 19 North, Palm Harbor



**Project Id:** 75684      **Permit No:** 1030296-003-AG      **Arms Number:** 0296

**Inspector:** Shea Jackson      **Inspection Date / Time:** 10/20/2010 / \_\_\_\_\_

**Source (EU):** New, Large Perchloroethylene Dry Cleaner. One Dry-to-dry machine, purchased in December 1994, with a refrigerated condenser. 25 HP, natural gas fired boiler is on-site slj

**Description:** [This is the facilities boiler which is located in an outside room connected to the building]