

Dry Cleaner Compliance Calendar

2009



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION



DEP Air Quality Regional Contacts

Southeast Region Office	(484) 250-5920	Bucks, Chester, Delaware, Montgomery
Northeast Region Office	(570) 826-2435	Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, Wyoming
Southcentral Region Office	(717) 705-4702	Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, York
Northcentral Region Office	(570) 327-3648	Bradford, Cameron, Centre, Clearfield, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga, Union
Southwest Region Office	(412) 442-4161	Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, Westmoreland
Northwest Region Office	(814) 332-6940	Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango, Warren

Additional Numbers

Allegheny County Health Department Bureau of Environmental Quality	(412) 687-2243
City of Philadelphia Department of Public Health	(215) 685-7572
Pennsylvania and Delaware Cleaners Association	(215) 830-8495
Korean Drycleaners Association	(215) 827-2140

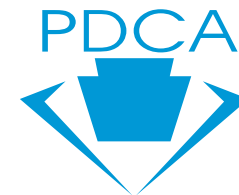
**For more information, visit
www.depweb.state.pa.us,
keyword: **Small Business.****

Special Thanks

The Department of Environmental Protection extends a special thanks to the Virginia DEQ Small Business Assistance Program and the Pennsylvania and Delaware Cleaners Association for their assistance in producing the dry cleaner compliance calendar.



2009 Dry Cleaner Compliance Calendar



Regulatory Overview

The Clean Air Act of 1990 directed the United States Environmental Protection Agency (EPA) to regulate the emissions of 189 chemical compounds designated as Hazardous Air Pollutants (HAPs). The perchloroethylene that you use in your dry cleaning machine, also known as “perc,” is one of the chemicals. Perc is the most commonly used chemical cleaning solvent used by dry cleaners.

In September 1993, EPA issued national regulations to control air emissions of perc from dry cleaners. Pennsylvania adopted the federal regulation as their own. These regulations created operational standards and control technology requirements to reduce perc air emissions from dry cleaning operations.

More recently, EPA was required to strengthen the existing regulations due to potential health risks caused by perc. Perc is considered to be a potential cause of cancer. Congress and EPA mandated that the health hazard caused by perc be regulated to limit exposure to the chemical. On July 27, 2006, EPA published additional new regulations for perc drycleaners revising the 1993 rule. The 2006 rule requires additional emission controls for new drycleaner shops that have erected or installed new or used dry cleaning machine systems after December 21, 2005. The new rule also created special requirements for dry cleaning shops that are located in buildings containing residences, and co-residential properties.

This calendar will help you keep accurate records for both the state and federal reporting requirements. It is an effective tool to maintain your records and your compliance with both the old and revised federal perc dry cleaner regulations. Remember the calendar is your annual record of compliance. You must keep these (records) calendars for a period of 5 years. Also, remember that it is your responsibility to let us know if your address changes or if the ownership of your shop changes.

You must have a copy of the operations manual for your machine, your refrigeration condenser, and carbon adsorber on-site at all times.

Regulatory Citations

Federal EPA requirements: 40 CFR 63.320 through 40 CFR 63.325, Subpart M--Perchloroethylene Dry Cleaning Facilities

For Free and Confidential Assistance
Call 877.ask.emap (877-275-3627)

Calendar Instructions

- This calendar contains all the record-keeping elements that you need to comply with the state and federal rules. Please fasten the calendar directly to your perc dry cleaning machine.
- Complete the logs and charts each month to fulfill your recordkeeping requirements. **Remember the calendar is your annual record of compliance. You must keep the calendar for a period of 5 years.**
- Read the definitions and regulatory requirements found at the end of this calendar.

Weekly Equipment Inspections

- If you have an existing machine and you buy fewer than 140 gallons of perc per year, you must conduct and record leak inspections at least every other week.
- If your machine is existing and you buy 140 gallons or more of perc per year, you must conduct and record leak inspections weekly.
- If your machine is new, you must conduct and record leak inspections weekly.
- Record the results of the inspections on the calendar. If leaks are found, or pressures or temperatures are not correct, your machine must be repaired within 24 hours if replacement parts are on-site. See below instructions for Repair Log.
- Beginning on July 28, 2008, you must inspect your machine and its components on a monthly basis using a “Halogenated Hydrocarbon Detector” if your machine was installed prior to July 27, 2006. If your machine was installed on or after July 27, 2006, you must begin using the Halogenated Hydrocarbon from the date of installation of your machine.
- Circle the method of inspection “P” for perceptible (feel, see or smell), or “D” for using the detector. When you use the Hydrocarbon Detector for your monthly leak check you do not have to do the perceptible leak check for that week. You may use the Hydrocarbon Detector for each of your weekly checks if you prefer this method.
- **How to Use the Detector:** Make sure the batteries are good and that the tip of the wand is clean and not contaminated with perc. Keep the tip 1 inch from the surface of the gaskets, connections, seals, etc. that you are inspecting and move it very slowly approximately 1 inch per second. Remember that you will have to do the testing during each of the cycles of the machine while components of the machine are being used: the wash cycle, the dry cycle and the distillation cycle. Read the directions for your detector to understand the identification of a leak, (e.g. a rapid sound or rapid light pulse). A quantity of 25 parts per million (ppm) is now the definition of a “perc leak.” If the detector registers a leak, the leak must be repaired according to the repair schedules.

Repair Log

If leaks are found, or pressures or temperatures are not correct, your machine must be repaired within 24 hours if replacement parts are on-site. In the Repair Log, please provide the inspection date and a description of the required repair, as well as the dates that the necessary part or parts were ordered, received and installed, and the date that the repair was completed. Parts must be ordered within 2 working days of leak detection and installed within 5 working days of receipt.

Repair Log - EXAMPLE 1				
Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired
1/4/08 door gasket leaking (no replacement parts onsite)	1/6/08	1/15/08	1/21/08	1/22/08

Repair Log - EXAMPLE 2				
Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired
1/4/08 door gasket leaking (have replacement parts onsite)			1/4/08	1/5/08

Calendar Instructions (continued)

Refrigerated Condenser Monitoring Log

A. If your machine has pressure gauges:

- Record the pressures of the high and low pressure gauges.
- Indicate if the pressures are within the machine specifications by marking Y for yes, or N for no. If you circle N, your machine must be repaired.

B. If your machine does not have pressure gauges:

- Record the outlet temperature of the refrigerated condenser prior to the end of the cool down cycle while the gas-vapor stream is still flowing through the condenser.
- Indicate if the temperature is less than or equal to 45°F (7.2°C) Circle Y for yes, or N for no. If you circle N, the machine must be repaired.

C. If you are still operating a transfer system:

- For the washer only, measure the inlet and outlet temperatures.
- Calculate the difference between the temperatures (subtract the outlet temperature from the inlet).
- Indicate if the difference is greater than or equal to 20°F. Circle Y for yes, or N for no. If you circle N, the machine must be repaired.

Secondary Carbon Adsorber Monitoring

A. When a carbon adsorber is vented and is used on a machine installed before September 22, 1993:

- Measure the perc concentration at the outlet vent of the carbon adsorber on the last machine cycle prior to the desorption of the carbon adsorber or the replacement of the charcoal. You must use a colorimetric tube and the perc concentration must be less than or equal to 100 ppm with an accuracy of ± 25 ppm by volume.
- Indicate whether the perc concentration is less than 100 ppm, by circling Y for yes, or N for no.
- If the readings do not meet the required limits, desorb the carbon adsorber according to the machine manufacturers instructions and take the readings again during another cycle. If they still do not meet the required specification, the machine needs to be repaired.

B. When a non-vented carbon adsorber is used to pass the gas vapor stream through the adsorber prior to the door being opened on a machine installed after December 21, 2005:

- Measure final perc concentration, by placing a colorimetric detector tube or a PCE gas analyzer into the open space above the articles of clothing at the rear of the dry cleaning machine drum immediately upon opening the door. The reading should be less than or equal to 300 ppm with an accuracy of ± 75 ppm by volume.
- Indicate whether the perc concentration is less than 300 ppm, by circling Y for yes, or N for no.
- If the readings do not meet the required limits, desorb the carbon adsorber according to the machine manufacturers instructions and take the readings again during another cycle. If they still do not meet the required specification, the machine needs to be repaired.

Example: Refrigerated Condenser Monitoring Log							
		Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges	Hi	/	/	/	/	/	/
	Lo						
Are pressure gauges within the ranges specified in the manual?			Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.							
Is the temperature gauge $<45^{\circ}\text{F}$?			Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.	Inlet	/	/	/	/	/	/
	Outlet						
Calculate the difference (inlet minus outlet)							
Is the difference $>20^{\circ}\text{F}$?			Y N	Y N	Y N	Y N	Y N

Calendar Instructions (continued)

Perc Purchases Running Total

This chart must be completed on the first day of each month. Below is an example of how to complete the Perc Purchases Running Total chart.

Perc Purchases Running Total		
(12 Month Running) Total from Last Month	55	←
Subtract Perc Purchased JANUARY 2008	- 10	←
Subtotal	45	←
Purchase Date	Purchase Amount	12 Month Running Total For 1/09
7/12	+ 15	60 ←
	+	

Enter running total from previous month.

Enter the amount of perc you purchased during this same month last year, using last year's records or calendar. Subtract that amount.

This is your 12-month running total if you did not purchase Perc this month.

This is your 12-month running total if you purchased perc this month. Record the bottom number in this column on next month's form in line "Total from Last Month."

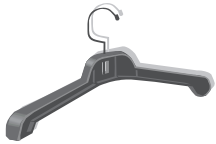
Record date perc was purchased.

If you purchased perc this month, record the amount and add it to the subtotal. This amount will also go on next year's calendar for this same month under Subtract perc Purchased.

Who Can You Call for More Information?

Through the Environmental Management Assistance Program (EMAP) of the Pennsylvania Small Business Development Centers, small businesses can receive free and confidential technical assistance from an outside team of experienced environmental professionals not affiliated with any regulatory agency. EMAP is Headquartered at the Wharton School of the University of Pennsylvania, and provides one-on-one confidential regulatory compliance assistance and environmental management advice through a statewide network of 16 university-based centers. For more information, contact EMAP at:

Telephone: 1-877-ask-emap (1-877-275-3627)
 Web site: www.askemap.org
 Email: questions@askemap.org



January 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector.

		P D	P D	P D	P D	P D	
		Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N	
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N	
	Pumps	Y N	Y N	Y N	Y N	Y N	
	Button trap	Y N	Y N	Y N	Y N	Y N	
	Filter housings	Y N	Y N	Y N	Y N	Y N	
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N	
	Solvent tanks	Y N	Y N	Y N	Y N	Y N	
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N	
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N	
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N	
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N	
	Water separators	Y N	Y N	Y N	Y N	Y N	
	Lint trap	Y N	Y N	Y N	Y N	Y N	
distillation, misc.	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N	
	Water separators	Y N	Y N	Y N	Y N	Y N	
	Distillation unit	Y N	Y N	Y N	Y N	Y N	
	Solvent tanks	Y N	Y N	Y N	Y N	Y N	
	Muck coolers	Y N	Y N	Y N	Y N	Y N	
Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N		

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Example: Refrigerated Condenser Monitoring Log

		Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges	Hi	/	/	/	/	/	/
	Lo	/	/	/	/	/	/
Are pressure gauges within the ranges specified in the manual?		Y N	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.							
	Is the temperature gauge $\leq 45^{\circ}\text{F}$?		Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.	Inlet	/	/	/	/	/	/
	Outlet	/	/	/	/	/	/
Calculate the difference (inlet – outlet)							
Is the difference $\geq 20^{\circ}\text{F}$?		Y N	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

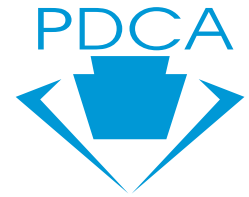
		Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)		Y N	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)		Y N	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

(12 Month Running) Total from Last Month	
Subtract Perc Purchased JANUARY 2008	—
Subtotal	
Purchase Date	Purchase Amount
	+
	+
12 Month Running Total	



2009 Dry Cleaner Compliance Calendar



JANUARY 2009

For Free and Confidential Assistance
Call 877.ask.emap (877-275-3627)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Close and secure machine doors except during loading and unloading.				Calculate Perc Purchase Running Total 1	Condenser Reading Logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 2	3
4	5	6	7	8	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 9	10
11	12	13	14	15	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 16	17
18	19	20	21	22	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 23	24
25	26	27	28	29	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 30	31



February 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector.

		P D	P D	P D	P D	P D	
		Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N	
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N	
	Pumps	Y N	Y N	Y N	Y N	Y N	
	Button trap	Y N	Y N	Y N	Y N	Y N	
	Filter housings	Y N	Y N	Y N	Y N	Y N	
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N	
	Solvent tanks	Y N	Y N	Y N	Y N	Y N	
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N	
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N	
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N	
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N	
	Water separators	Y N	Y N	Y N	Y N	Y N	
	Lint trap	Y N	Y N	Y N	Y N	Y N	
distillation, misc.	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N	
	Water separators	Y N	Y N	Y N	Y N	Y N	
	Distillation unit	Y N	Y N	Y N	Y N	Y N	
	Solvent tanks	Y N	Y N	Y N	Y N	Y N	
	Muck coolers	Y N	Y N	Y N	Y N	Y N	
Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N		

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Example: Refrigerated Condenser Monitoring Log

		Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges	Hi	/	/	/	/	/	/
	Lo	/	/	/	/	/	/
Are pressure gauges within the ranges specified in the manual?			Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.							
Is the temperature gauge $\leq 45^{\circ}\text{F}$?			Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.	Inlet	/	/	/	/	/	/
	Outlet	/	/	/	/	/	/
Calculate the difference (inlet – outlet)							
Is the difference $\geq 20^{\circ}\text{F}$?			Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

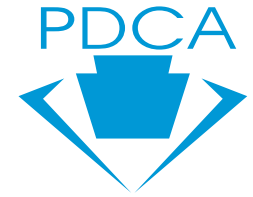
		Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)			Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)			Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased FEBRUARY 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	



2009 Dry Cleaner Compliance Calendar



FEBRUARY 2009

For Free and Confidential Assistance
Call 877.ask.emap (877-275-3627)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Calculate Perc Purchase Running Total 2	3	4	5	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 6	7
8	9	10	11	12	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 13	14
15	16	17	18	19	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 20	21
22	23	24	25	26	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 27	28

Drain cartridge filters in their housings for at least a 25-hour period.



March 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector.

		P D	P D	P D	P D	P D
Week		1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water separators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc.	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water separators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N	

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Example: Refrigerated Condenser Monitoring Log

		Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges	Hi	/	/	/	/	/	/
	Lo	/	/	/	/	/	/
Are pressure gauges within the ranges specified in the manual?			Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.							
Is the temperature gauge $\leq 45^{\circ}\text{F}$?			Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.	Inlet	/	/	/	/	/	/
	Outlet	/	/	/	/	/	/
Calculate the difference (inlet - outlet)							
Is the difference $\geq 20^{\circ}\text{F}$?			Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

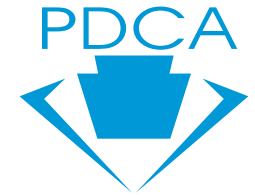
		Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)			Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)			Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased MARCH 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	



2009 Dry Cleaner Compliance Calendar



MARCH 2009

For Free and Confidential Assistance
Call 877.ask.emap (877-275-3627)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Calculate Perc Purchase Running Total 2	3	4	5	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 6	7
8	9	10	11	12	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 13	14
15	16	17	18	19	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 20	21
22	23	24	25	26	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 27	28
29	30	31	Gender charges are illegal. You can charge more for the extra work of hand finishing that is required for ruffles, trim or darts.			



April 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector.

		P D	P D	P D	P D	P D
		1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water separators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc.	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water separators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N	

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Example: Refrigerated Condenser Monitoring Log

		Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges	Hi	/	/	/	/	/	/
	Lo	/	/	/	/	/	/
Are pressure gauges within the ranges specified in the manual?		Y N	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.							
Is the temperature gauge $\leq 45^{\circ}\text{F}$?		Y N	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.	Inlet	/	/	/	/	/	/
	Outlet	/	/	/	/	/	/
Calculate the difference (inlet – outlet)							
Is the difference $\geq 20^{\circ}\text{F}$?		Y N	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

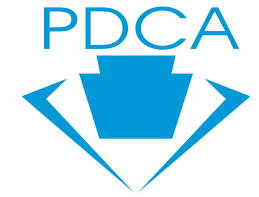
		Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)		Y N	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)		Y N	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased APRIL 2008	-	
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	



2009 Dry Cleaner Compliance Calendar



APRIL 2009

For Free and Confidential Assistance
Call 877.ask.emap (877-275-3627)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Maintain the solvent-to-carbon ratio and steam pressure for carbon beds in accordance with the manufacturer's specifications.			Calculate Perc Purchase Running Total 1	2	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 3	4
5	6	7	8	9	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 10	11
12	13	14	15	16	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 17	18
19	20	21	22	23	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 24	25
26	27	28	29	30		



May 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

Method: choose one. Circle P for touch, sight or smell, or D for use of detector.		P D	P D	P D	P D	P D
Week		1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water separators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc.	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water separators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N	

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Example: Refrigerated Condenser Monitoring Log

Week		1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges	Hi	/	/	/	/	/
	Lo	/	/	/	/	/
Are pressure gauges within the ranges specified in the manual?	Y N	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.						
	Is the temperature gauge $\leq 45^{\circ}\text{F}$?	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.	Inlet	/	/	/	/	/
	Outlet	/	/	/	/	/
Calculate the difference (inlet – outlet)						
Is the difference $\geq 20^{\circ}\text{F}$?	Y N	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased MAY 2008	–	
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	



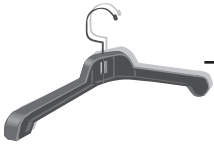
2009 Dry Cleaner Compliance Calendar



MAY 2009

For Free and Confidential Assistance
Call 877.ask.emap (877-275-3627)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
All dry cleaning equipment should be operated and maintained according to the manufacturer's instructions found in the operation and maintenance manuals.					Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> Calculate Perc Purchase Running Total 1	2
3	4	5	6	7	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 8	9
10	11	12	13	14	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 15	16
17	18	19	20	21	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 22	23
24					Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 29	
31	25	26	27	28	29	30



June 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector.

		P	D	P	D	P	D	P	D	P	D
		Week 1		Week 2		Week 3		Week 4		Week 5	
wash cycle	Hose connections, unions, couplings & valves	Y	N	Y	N	Y	N	Y	N	Y	N
	Machine door gasket and seating	Y	N	Y	N	Y	N	Y	N	Y	N
	Pumps	Y	N	Y	N	Y	N	Y	N	Y	N
	Button trap	Y	N	Y	N	Y	N	Y	N	Y	N
	Filter housings	Y	N	Y	N	Y	N	Y	N	Y	N
	Filter gaskets and seating	Y	N	Y	N	Y	N	Y	N	Y	N
	Solvent tanks	Y	N	Y	N	Y	N	Y	N	Y	N
dry cycle	Deodorizing and aeration valves on dryers	Y	N	Y	N	Y	N	Y	N	Y	N
	Air and exhaust ductwork	Y	N	Y	N	Y	N	Y	N	Y	N
	Heating and cooling coil doors	Y	N	Y	N	Y	N	Y	N	Y	N
	Hose connections, unions, couplings & valves	Y	N	Y	N	Y	N	Y	N	Y	N
	Water separators	Y	N	Y	N	Y	N	Y	N	Y	N
distillation, misc.	Lint trap	Y	N	Y	N	Y	N	Y	N	Y	N
	Hose connections, unions, couplings & valves	Y	N	Y	N	Y	N	Y	N	Y	N
	Water separators	Y	N	Y	N	Y	N	Y	N	Y	N
	Distillation unit	Y	N	Y	N	Y	N	Y	N	Y	N
	Solvent tanks	Y	N	Y	N	Y	N	Y	N	Y	N
Muck coolers	Y	N	Y	N	Y	N	Y	N	Y	N	
Waste tanks and storage containers	Y	N	Y	N	Y	N	Y	N	Y	N	

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Example: Refrigerated Condenser Monitoring Log

		Week	1	2	3	4	5		
If your machine has pressure gauges: Record pressures of high and low pressure gauges	Hi	/	/	/	/	/	/		
	Lo	/	/	/	/	/	/		
Are pressure gauges within the ranges specified in the manual?		Y	N	Y	N	Y	N	Y	N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.									
	Is the temperature gauge $\leq 45^{\circ}\text{F}$?	Y	N	Y	N	Y	N	Y	N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.	Inlet	/	/	/	/	/	/		
	Outlet	/	/	/	/	/	/		
Calculate the difference (inlet – outlet)									
Is the difference $\geq 20^{\circ}\text{F}$?		Y	N	Y	N	Y	N	Y	N

Secondary Carbon Absorber Monitoring

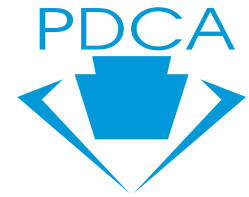
		Week	1	2	3	4	5		
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)		Y	N	Y	N	Y	N	Y	N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)		Y	N	Y	N	Y	N	Y	N

Perc Purchases Running Total

Total from Last Month	
Subtract Perc Purchased JUNE 2008	-
Subtotal	
Purchase Date	Purchase Amount
	12 Month Running Total
+	
+	



2009 Dry Cleaner Compliance Calendar



JUNE 2009

For Free and Confidential Assistance
Call 877.ask.emap (877-275-3627)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	Calculate Perc Purchase Running Total 1	2	3	4	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 5	6
7	8	9	10	11	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 12	13
14	15	16	17	18	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 19	20
21	22	23	24	25	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 26	27
28	29	30	Reduce your energy costs by upgrading lighting in the plant.			



July 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector.

		P	D	P	D	P	D	P	D	P	D
		Week 1		Week 2		Week 3		Week 4		Week 5	
wash cycle	Hose connections, unions, couplings & valves	Y	N	Y	N	Y	N	Y	N	Y	N
	Machine door gasket and seating	Y	N	Y	N	Y	N	Y	N	Y	N
	Pumps	Y	N	Y	N	Y	N	Y	N	Y	N
	Button trap	Y	N	Y	N	Y	N	Y	N	Y	N
	Filter housings	Y	N	Y	N	Y	N	Y	N	Y	N
	Filter gaskets and seating	Y	N	Y	N	Y	N	Y	N	Y	N
	Solvent tanks	Y	N	Y	N	Y	N	Y	N	Y	N
dry cycle	Deodorizing and aeration valves on dryers	Y	N	Y	N	Y	N	Y	N	Y	N
	Air and exhaust ductwork	Y	N	Y	N	Y	N	Y	N	Y	N
	Heating and cooling coil doors	Y	N	Y	N	Y	N	Y	N	Y	N
	Hose connections, unions, couplings & valves	Y	N	Y	N	Y	N	Y	N	Y	N
	Water separators	Y	N	Y	N	Y	N	Y	N	Y	N
	Lint trap	Y	N	Y	N	Y	N	Y	N	Y	N
distillation, misc.	Hose connections, unions, couplings & valves	Y	N	Y	N	Y	N	Y	N	Y	N
	Water separators	Y	N	Y	N	Y	N	Y	N	Y	N
	Distillation unit	Y	N	Y	N	Y	N	Y	N	Y	N
	Solvent tanks	Y	N	Y	N	Y	N	Y	N	Y	N
	Muck coolers	Y	N	Y	N	Y	N	Y	N	Y	N
Waste tanks and storage containers	Y	N	Y	N	Y	N	Y	N	Y	N	

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Example: Refrigerated Condenser Monitoring Log

		Week	1	2	3	4	5					
If your machine has pressure gauges: Record pressures of high and low pressure gauges	Hi	/	/	/	/	/	/					
	Lo	/	/	/	/	/	/					
Are pressure gauges within the ranges specified in the manual?			Y	N	Y	N	Y	N	Y	N	Y	N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.												
Is the temperature gauge $\leq 45^{\circ}\text{F}$?			Y	N	Y	N	Y	N	Y	N	Y	N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.	Inlet	/	/	/	/	/	/					
	Outlet	/	/	/	/	/	/					
Calculate the difference (inlet – outlet)												
Is the difference $\geq 20^{\circ}\text{F}$?			Y	N	Y	N	Y	N	Y	N	Y	N

Secondary Carbon Absorber Monitoring

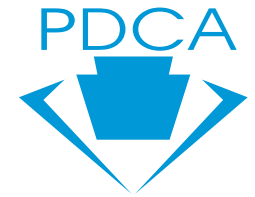
		Week	1	2	3	4	5					
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)			Y	N	Y	N	Y	N	Y	N	Y	N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)			Y	N	Y	N	Y	N	Y	N	Y	N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased JULY 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	



2009 Dry Cleaner Compliance Calendar



JULY 2009

For Free and Confidential Assistance
Call 877.ask.emap (877-275-3627)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Clean the air intake for your boiler regularly and save fuel costs.			Calculate Perc Purchase Running Total 1	2	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 3	4
5	6	7	8	9	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 10	11
12	13	14	15	16	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 17	18
19	20	21	22	23	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 24	25
26	27	28	29	30	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 31	



August 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections						
Are the components without leaks? Circle Y for yes, or N for no.						
Method: choose one. Circle P for touch, sight or smell, or D for use of detector.						
	P D	P D	P D	P D	P D	
	Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water separators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc.	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water separators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N	

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Example: Refrigerated Condenser Monitoring Log

		Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges	Hi	/	/	/	/	/	/
	Lo	/	/	/	/	/	/
Are pressure gauges within the ranges specified in the manual?			Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.							
Is the temperature gauge $\leq 45^{\circ}\text{F}$?			Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.	Inlet	/	/	/	/	/	/
	Outlet	/	/	/	/	/	/
Calculate the difference (inlet – outlet)							
Is the difference $\geq 20^{\circ}\text{F}$?			Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

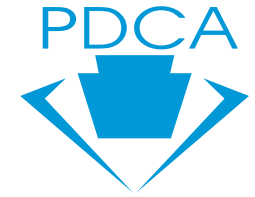
		Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)			Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)			Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased AUGUST 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	



2009 Dry Cleaner Compliance Calendar



AUGUST 2009

For Free and Confidential Assistance
Call 877.ask.emap (877-275-3627)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
All dry cleaning equipment should be operated and maintained according to the manufacturer's instructions found in the operation and maintenance manuals.						1
2	Calculate Perc Purchase Running Total 3	4	5	6	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 7	8
9	10	11	12	13	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 14	15
16	17	18	19	20	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 21	22
23	24				Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 28	
30	31	25	26	27	28	29



September 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections						
Are the components without leaks? Circle Y for yes, or N for no.						
Method: choose one. Circle P for touch, sight or smell, or D for use of detector.						
	P D	P D	P D	P D	P D	
	Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N
	Pumps	Y N	Y N	Y N	Y N	Y N
	Button trap	Y N	Y N	Y N	Y N	Y N
	Filter housings	Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water separators	Y N	Y N	Y N	Y N	Y N
	Lint trap	Y N	Y N	Y N	Y N	Y N
distillation, misc.	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N
	Water separators	Y N	Y N	Y N	Y N	Y N
	Distillation unit	Y N	Y N	Y N	Y N	Y N
	Solvent tanks	Y N	Y N	Y N	Y N	Y N
	Muck coolers	Y N	Y N	Y N	Y N	Y N
Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N	

Repair Log				
Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

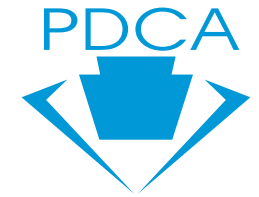
Example: Refrigerated Condenser Monitoring Log						
	Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges	Hi Lo	/	/	/	/	/
Are pressure gauges within the ranges specified in the manual?		Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.						
Is the temperature gauge $\leq 45^{\circ}\text{F}$?		Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.	Inlet Outlet	/	/	/	/	/
Calculate the difference (inlet – outlet)						
Is the difference $\geq 20^{\circ}\text{F}$?		Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring						
	Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)		Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)		Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total		
Total from Last Month		
Subtract Perc Purchased SEPTEMBER 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	



2009 Dry Cleaner Compliance Calendar



SEPTEMBER 2009

For Free and Confidential Assistance
Call 877.ask.emap (877-275-3627)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		Calculate Perc Purchase Running Total 1	2	3	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 4	5
6	7	8	9	10	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 11	12
13	14	15	16	17	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 18	19
20	21	22	23	24	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 25	26
27	28	29	30	Store all solvent and waste materials in containers that are compatible with the storage of perc and perc waste (perc will not damage the inside of a container). These containers must be kept closed and marked as "Hazardous Waste."		



October 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector.

		P	D	P	D	P	D	P	D		
		Week 1		Week 2		Week 3		Week 4		Week 5	
wash cycle	Hose connections, unions, couplings & valves	Y	N	Y	N	Y	N	Y	N	Y	N
	Machine door gasket and seating	Y	N	Y	N	Y	N	Y	N	Y	N
	Pumps	Y	N	Y	N	Y	N	Y	N	Y	N
	Button trap	Y	N	Y	N	Y	N	Y	N	Y	N
	Filter housings	Y	N	Y	N	Y	N	Y	N	Y	N
	Filter gaskets and seating	Y	N	Y	N	Y	N	Y	N	Y	N
	Solvent tanks	Y	N	Y	N	Y	N	Y	N	Y	N
dry cycle	Deodorizing and aeration valves on dryers	Y	N	Y	N	Y	N	Y	N	Y	N
	Air and exhaust ductwork	Y	N	Y	N	Y	N	Y	N	Y	N
	Heating and cooling coil doors	Y	N	Y	N	Y	N	Y	N	Y	N
	Hose connections, unions, couplings & valves	Y	N	Y	N	Y	N	Y	N	Y	N
	Water separators	Y	N	Y	N	Y	N	Y	N	Y	N
Lint trap	Y	N	Y	N	Y	N	Y	N	Y	N	
distillation, misc.	Hose connections, unions, couplings & valves	Y	N	Y	N	Y	N	Y	N	Y	N
	Water separators	Y	N	Y	N	Y	N	Y	N	Y	N
	Distillation unit	Y	N	Y	N	Y	N	Y	N	Y	N
	Solvent tanks	Y	N	Y	N	Y	N	Y	N	Y	N
	Muck coolers	Y	N	Y	N	Y	N	Y	N	Y	N
Waste tanks and storage containers	Y	N	Y	N	Y	N	Y	N	Y	N	

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Example: Refrigerated Condenser Monitoring Log

		Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges	Hi	/	/	/	/	/	/
	Lo	/	/	/	/	/	/
Are pressure gauges within the ranges specified in the manual?			Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.							
Is the temperature gauge $\leq 45^{\circ}\text{F}$?			Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.	Inlet	/	/	/	/	/	/
	Outlet	/	/	/	/	/	/
Calculate the difference (inlet - outlet)							
Is the difference $\geq 20^{\circ}\text{F}$?			Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

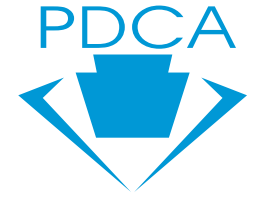
		Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)			Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)			Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month		
Subtract Perc Purchased OCTOBER 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	



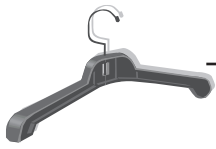
2009 Dry Cleaner Compliance Calendar



OCTOBER 2009

For Free and Confidential Assistance
Call 877.ask.emap (877-275-3627)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
All containers holding perc waste should be kept with the lid on. This includes any cartridge filters or condensate wastes.				Calculate Perc Purchase Running Total 1	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 2	3
4	5	6	7	8	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 9	10
11	12	13	14	15	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 16	17
18	19	20	21	22	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 23	24
25	26	27	28	29	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 30	31



November 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections							
Are the components without leaks? Circle Y for yes, or N for no.							
Method: choose one. Circle P for touch, sight or smell, or D for use of detector.							
	P	D	P	D	P	D	
	Week		1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves		Y N	Y N	Y N	Y N	Y N
	Machine door gasket and seating		Y N	Y N	Y N	Y N	Y N
	Pumps		Y N	Y N	Y N	Y N	Y N
	Button trap		Y N	Y N	Y N	Y N	Y N
	Filter housings		Y N	Y N	Y N	Y N	Y N
	Filter gaskets and seating		Y N	Y N	Y N	Y N	Y N
	Solvent tanks		Y N	Y N	Y N	Y N	Y N
dry cycle	Deodorizing and aeration valves on dryers		Y N	Y N	Y N	Y N	Y N
	Air and exhaust ductwork		Y N	Y N	Y N	Y N	Y N
	Heating and cooling coil doors		Y N	Y N	Y N	Y N	Y N
	Hose connections, unions, couplings & valves		Y N	Y N	Y N	Y N	Y N
	Water separators		Y N	Y N	Y N	Y N	Y N
	Lint trap		Y N	Y N	Y N	Y N	Y N
distillation, misc.	Hose connections, unions, couplings & valves		Y N	Y N	Y N	Y N	Y N
	Water separators		Y N	Y N	Y N	Y N	Y N
	Distillation unit		Y N	Y N	Y N	Y N	Y N
	Solvent tanks		Y N	Y N	Y N	Y N	Y N
	Muck coolers		Y N	Y N	Y N	Y N	Y N
Waste tanks and storage containers		Y N	Y N	Y N	Y N	Y N	

Repair Log				
Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Example: Refrigerated Condenser Monitoring Log							
		Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges	Hi	/	/	/	/	/	/
	Lo	/	/	/	/	/	/
Are pressure gauges within the ranges specified in the manual?			Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.							
Is the temperature gauge $\leq 45^{\circ}\text{F}$?			Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.	Inlet	/	/	/	/	/	/
	Outlet	/	/	/	/	/	/
Calculate the difference (inlet – outlet)							
Is the difference $\geq 20^{\circ}\text{F}$?			Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring							
		Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)			Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)			Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total		
Total from Last Month		
Subtract Perc Purchased NOVEMBER 2008		-
Subtotal		
Purchase Date	Purchase Amount	12 Month Running Total
	+	
	+	



2009 Dry Cleaner Compliance Calendar



For Free and Confidential Assistance
Call 877.ask.emap (877-275-3627)

NOVEMBER 2009

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Calculate Perc Purchase Running Total 2	3	4	5	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 6	7
8	9	10	11	12	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 13	14
15	16	17	18	19	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 20	21
22	23	24	25	26	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 27	28
29	30	Tightly seal bungs and lids on containers of raw materials and wastes to stop evaporation.				



December 2009

Week:	1	2	3	4	5
Date:					
Staff Initials:					

Weekly Equipment Inspections

Are the components without leaks? Circle Y for yes, or N for no.

Method: choose one. Circle **P** for touch, sight or smell, or **D** for use of detector.

		P D	P D	P D	P D	P D	
		Week	1	2	3	4	5
wash cycle	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N	
	Machine door gasket and seating	Y N	Y N	Y N	Y N	Y N	
	Pumps	Y N	Y N	Y N	Y N	Y N	
	Button trap	Y N	Y N	Y N	Y N	Y N	
	Filter housings	Y N	Y N	Y N	Y N	Y N	
	Filter gaskets and seating	Y N	Y N	Y N	Y N	Y N	
	Solvent tanks	Y N	Y N	Y N	Y N	Y N	
dry cycle	Deodorizing and aeration valves on dryers	Y N	Y N	Y N	Y N	Y N	
	Air and exhaust ductwork	Y N	Y N	Y N	Y N	Y N	
	Heating and cooling coil doors	Y N	Y N	Y N	Y N	Y N	
	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N	
	Water separators	Y N	Y N	Y N	Y N	Y N	
Lint trap	Y N	Y N	Y N	Y N	Y N		
distillation, misc.	Hose connections, unions, couplings & valves	Y N	Y N	Y N	Y N	Y N	
	Water separators	Y N	Y N	Y N	Y N	Y N	
	Distillation unit	Y N	Y N	Y N	Y N	Y N	
	Solvent tanks	Y N	Y N	Y N	Y N	Y N	
	Muck coolers	Y N	Y N	Y N	Y N	Y N	
Waste tanks and storage containers	Y N	Y N	Y N	Y N	Y N		

Repair Log

Inspection Date and Description of Repair	Date Part Ordered	Date Part Received	Date Part Installed	Date Repaired

Example: Refrigerated Condenser Monitoring Log

		Week	1	2	3	4	5
If your machine has pressure gauges: Record pressures of high and low pressure gauges	Hi	/	/	/	/	/	/
	Lo	/	/	/	/	/	/
Are pressure gauges within the ranges specified in the manual?		Y N	Y N	Y N	Y N	Y N	Y N
If your machine does NOT have pressure gauges: Record refrigerated condenser outlet temperature.							
Is the temperature gauge $\leq 45^{\circ}\text{F}$?		Y N	Y N	Y N	Y N	Y N	Y N
If you are operating a transfer machine: Record inlet and outlet temperatures weekly.	Inlet	/	/	/	/	/	/
	Outlet	/	/	/	/	/	/
Calculate the difference (inlet – outlet)							
Is the difference $\geq 20^{\circ}\text{F}$?		Y N	Y N	Y N	Y N	Y N	Y N

Secondary Carbon Absorber Monitoring

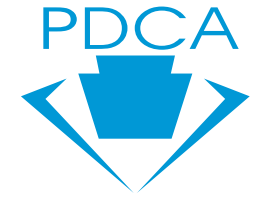
		Week	1	2	3	4	5
Is perc concentration less than 100 ppm? (for machines that vent to carbon adsorbers immediately upon machine door opening)		Y N	Y N	Y N	Y N	Y N	Y N
Is perc concentration less than 300 ppm? (for machines that vent to carbon adsorbers prior to machine door opening)		Y N	Y N	Y N	Y N	Y N	Y N

Perc Purchases Running Total

Total from Last Month	
Subtract Perc Purchased DECEMBER 2008	-
Subtotal	
Purchase Date	Purchase Amount
	+
	+
12 Month Running Total	



2009 Dry Cleaner Compliance Calendar



DECEMBER 2009

For Free and Confidential Assistance
Call 877.ask.emap (877-275-3627)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
After replacing filter gaskets and seals, check for tightness.		Calculate Perc Purchase Running Total 1	2	3	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 4	5
6	7	8	9	10	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 11	12
13	14	15	16	17	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 18	19
20	21	22	23	24	Condenser Reading logged <input type="checkbox"/> Inspect logged <input type="checkbox"/> 25	26
27	28	29	30	31		

Definitions

Ancillary equipment - the equipment used with a dry cleaning machine in a dry cleaning system including, but not limited to, emission control devices, pumps, filters, muck cookers, stills, solvent tanks, solvent containers, water separators, exhaust dampers, diverter valves, interconnecting piping, hoses and ducts.

Biweekly - any 14-day period of time.

Carbon adsorber - a bed of activated carbon into which an air-perc vapor stream is routed and which adsorbs the perc on the carbon.

Colorimetric detector tube - a glass tube (sealed prior to use), containing a chemical that changes color when exposed to perc and is designed to measure the concentration of perc in air.

Construction - the onsite fabrication, erection or installation of a dry cleaning system.

Diverter valve - a flow control device that prevents room air from passing through a refrigerated condenser when the door of the dry cleaning machine is open.

Dry cleaning machine drum - the perforated (meaning with holes in it) container inside the dry cleaning machine that holds articles during dry cleaning.

Dry cleaning system - a dry-to-dry machine and its ancillary equipment or a transfer machine system and its ancillary equipment.

Dryer - a machine used to remove perc from articles by tumbling them in a heated air stream (sometimes called reclaimer).

Dry-to-dry machine - a one-machine dry cleaning operation in which washing and drying are performed in the same machine.

Exhaust damper - a flow control device that prevents the air-perc vapor stream from exiting the dry cleaning machine into a carbon adsorber before room air is drawn into the dry cleaning machine.

Existing (for **September 1993** rule) - commenced construction or reconstruction before December 9, 1991.

Existing (for **July 2006** rule) - commenced construction or reconstruction before December 21, 2005.

Filter - a porous device through which perc is passed to remove contaminants in suspension. Examples include, but are not limited to, lint filter, button trap, cartridge filter, tubular filter, regenerative filter, prefilter, polishing filter and spin disc filter.

Halogenated hydrocarbon detector - a portable device capable of detecting vapor concentrations of perc of 25 parts per million (ppm) by volume and indicating a concentration of 25 ppm by volume or greater by emitting an audible or visual signal that varies as the concentration changes.

New (for **September 1993** rule) - commenced construction or reconstruction on or after December 9, 1991.

New (for **July 2006** rule) - commenced construction or reconstruction on or after December 21, 2005.

PCE gas analyzer - a flame ionization detector, photoionization detector, or infrared analyzer capable of detecting vapor concentrations of perc of 25 parts per million by volume.

Definitions (continued)

Perceptible leaks - any perc vapor or liquid leaks that are obvious from:

1. the odor of perc;
2. visual observation, such as pools or droplets of liquid; or
3. the detection of gas flow by passing the fingers over the surface of equipment.

Reconstruction - replacement of a washer, dryer, or reclaimer; or replacement of any components of a dry cleaning system to such an extent that the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable new source.

Refrigerated condenser - a vapor recovery system into which an air-perc vapor stream is routed and the perc is condensed by cooling the gas-vapor stream.

Still - any device used to volatilize and recover perc from contaminated perc.

Transfer machine system - a multiple-machine dry cleaning operation in which washing and drying are performed in different machines. Examples include, but are not limited to:

1. a washer and dryer(s);
2. a washer and reclaimer(s); or
3. a dry-to-dry machine and reclaimer(s).

Vapor leak - a perc vapor concentration exceeding 25 parts per million by volume (50 parts per million by volume as methane) as indicated by a halogenated hydrocarbon detector or perc gas analyzer.

Washer - a machine used to clean articles by immersing them in perc. This includes a dry-to-dry machine when used with a reclaimer.

Water separator - any device used to recover perc from a water-perc mixture, includes evaporators.

Store Classification and Requirements

This chart will help you classify your facility, determine what controls you need, and determine what leak detection and monitoring is required.

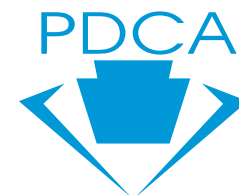
Classification Based on Yearly Perc Usage	Classification Based on Date Machine Purchased and Installed	Controls Required	Leak Detection Monitoring Required
Small Area Source dry-to-dry only: less than 140 gallons transfer only: less than 200 gallons* both types: less than 140 gallons*	Existing New or used dry cleaning machine initially installed before December 21, 2005.	Refrigerated Condenser (unless installed before December 9, 1991, then no controls are required)	Monthly: halogenated hydrocarbon detector (starting July 28, 2008) Every 2 Weeks: perceptible leak check (smell, touch, sight)
	New New or used dry cleaning machine initially installed on or after December 21, 2005.	Refrigerated Condenser Must recirculate perc vapor stream through non-vented carbon absorber before door can open	Monthly: halogenated hydrocarbon detector (starting on date installed) Every Week: perceptible leak check (smell, touch, sight)
Large Area Source dry-to-dry only: 140 gallons up to 2,100 gallons transfer only: 200 gallons up to 1,800 gallons* both types: 140 gallons up to 1,800 gallons*	Existing New or used dry cleaning machine initially installed before December 21, 2005.	Refrigerated Condenser (unless installed before September 22, 1993, then Refrigerated Condenser, or Existing Carbon Absorber)	Monthly: halogenated hydrocarbon detector (starting July 28, 2008) Every Week: perceptible leak check (smell, touch, sight)
	New New or used dry cleaning machine initially installed on or after December 21, 2005.	Refrigerated Condenser Must recirculate perc vapor stream through non-vented carbon absorber before door can open	Monthly: halogenated hydrocarbon detector (starting on date installed) Every Week: perceptible leak check (smell, touch, sight)
Major Source dry-to-dry: 2,100 gallons or more transfer only: 1,800 gallons or more* both types: 1,800 gallons or more*	Date of purchase or installation does not make any difference in determination of this category.	Refrigerated Condenser + Room Enclosure + Carbon Absorber	Monthly: perc (PCE) gas analyzer (starting July 27, 2006) Every Week: perceptible leak check (smell, touch, sight)

* **IMPORTANT:** Transfer systems may not be used after July 27, 2008 at any dry cleaning facility.

See last page for additional requirements that apply to perc machines in co-residential facilities (dry cleaning stores in the same building as a residence, such as house, apartment building, condominium building or hotel).



2009 Dry Cleaner Compliance Calendar



Co-Residential Requirements

The requirements listed below apply only to dry cleaning machines located in buildings with a residence, such as a house, apartment building, hotel or condominium.

EPA has strengthened the requirements for dry cleaning facilities located in buildings in which people reside such as houses, apartments, condos and co-ops. Because residences in these buildings are located very close to these dry cleaners, exposures and potential health risks to residents can be much higher than for a typical residential facility.

Co-Residential Facilities with Machines Installed before December 21, 2005

- May not use a transfer machine.
- May continue to use an existing installed perc machine at the shop until it wears out, but not beyond December 21, 2020.
- May not relocate an existing perc machine from elsewhere to the shop.

Co-Residential Facilities with Machines Installed on or after December 21, 2005 but before July 12, 2006

- May not use a transfer machine.
- May use an existing installed perc machine at the shop, but only inside a vapor barrier enclosure with its exhaust system operating at all times the dry cleaning machine operates and during maintenance.
 - The door to the enclosure may only be open when a person is entering or leaving the enclosure.
 - The perc dry cleaning machine must have a refrigerated condenser and carbon adsorber (also called a "generation 4" machine).
- May not use a perc machine on or after July 27, 2009.

New Machines (Installed at Co-Residential Facilities)

- No new perc machines may be installed at Co-Residential Facilities on or after July 27, 2006.

**Department of Environmental Protection
Bureau of Air Quality
P.O. Box 8468
Harrisburg, PA 17105-8468**

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