



**Transfer Machine System Inspection, Monitoring & Repair Record**  
**NESHAP: Perchloroethylene Dry Cleaning Facilities**

40 CFR Part 63, Subpart M

Required by 1994 PA 451, as amended, and the Federal Clean Air Act of 1990.

Failure to provide this information may result in penalties and/or imprisonment.

**INSPECTIONS:** All dry-cleaning facilities that use perchloroethylene (perc), except coin-operated machines operated by the customer, are required to inspect machine components for PERCEPTIBLE leaks and record the results. PERCEPTIBLE leaks are those that are detectable by odor, visual observation, such as pools or droplets of liquid, or touch when passing fingers over equipment. If a leak is detected, repairs must be made within 24 hours. If repair parts must be ordered, a written or verbal work order for the parts must be initiated within 2 working days of detecting the leak. Repairs must be completed within 5 working days after receipt of parts.

Facilities were to begin checking and documenting leaks as of December 20, 1993. Facilities designated as a large area or major source are required to conduct inspections on a weekly basis, and a small area source must perform inspections once every two weeks. If you have not been conducting inspections and/or recording the results, begin doing so immediately. Records of the inspection must remain on-site for 5 years.

**Please print or type all information.**

Facility Name		Facility Location		
Machine ID		Date		
Inspection for Perceptible Leaks (Note Location of Leak if Found)	Leak	Date Part Ordered	Date Part Received	Date of Repair
Hose and Pipe Connections	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Fittings, Couplings and Valves	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Heating Coils	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Cooling Coils	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Pumps	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Door Gasket and Seating	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Filter Gasket and Seating	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Solvent Tank and Containers	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Thermo Sensors	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Water Separator	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Muck Cooker	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Still	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Exhaust Damper	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Diverter Valve	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Cartridge Filter Housing	<input type="checkbox"/> Yes <input type="checkbox"/> No			

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**MONITORING:** All dry-cleaning facilities that are required to have process vent control devices installed on their machines must comply with the monitoring requirements. Therefore, only facilities designated as small area sources that only operate EXISTING machines (those installed before December 9, 1991) will not have to monitor because process vent control is not required. For those facilities that have machines subject to the process vent control requirements, the following monitoring schedule must be complied with: **Facilities must be monitoring NEW machines (installed on or after December 9, 1991) on December 20, 1993, or 30 days after installation, whichever is later. Facilities must begin monitoring EXISTING machines on September 23, 1996. Monitoring must be conducted on a weekly basis and results logged.**

If the monitoring parameter values are not within the required range, then the facility must make repairs or adjustments to meet the required range. If repair parts must be ordered, a written or verbal order for the parts must be initiated within 2 working days of detecting such a parameter value. Repairs must be completed within 5 working days after receipt of parts. Records must remain on-site for 5 years.

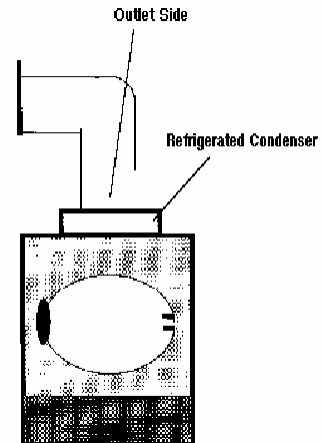
*Please print or type all information.*

Facility Name		Facility Location		
Machine ID		Date		
Monitoring Process Vent Control Devices	PPM <sup>1</sup> or Temp <sup>2</sup>	Date Part Ordered	Date Part Received	Date of Repair
(A) Refrigerated condenser on dryer or reclaimer	outlet= deg C or F			
(B) Refrigerated condenser on washer	inlet-outlet= deg C or F			
(C) Carbon adsorber on transfer machine system	PPM			

<sup>1</sup> Parts per million  
<sup>2</sup> Degrees Celsius or Fahrenheit

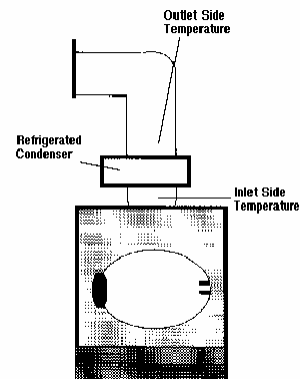
**A - Refrigerated condenser on a dryer.** If you installed a refrigerated condenser on a dryer or reclaimer of a transfer machine system to meet the control requirements, then you must:

Measure the temperature of the air-perc mixture at the outlet of the refrigerated condenser. The temperature must be equal to or less than 45 deg F (7.2 deg C). The thermometer or temperature sensing device should measure up to 45 deg F (7.2 deg C) with an accuracy of 2 deg F (1.1 deg C).



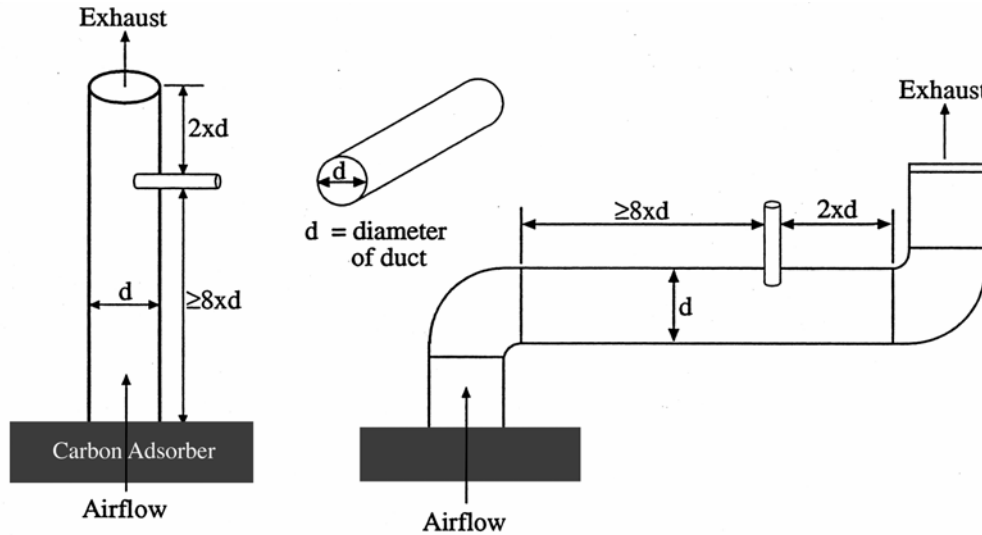
**B - Refrigerated condenser on a washer.** If you installed a refrigerated condenser on a washer of a transfer machine system to meet the control requirements, then:

Measure the temperature difference between the air-perc mixture entering and exiting the refrigerated condenser. This temperature difference must be equal to or greater than 20 deg F (11.1 deg C). The thermometer or temperature sensor should measure a range from 32 deg F (0 deg C) to 120 deg F (48.9 deg C) with an accuracy of 2 deg F (1.1 deg C).

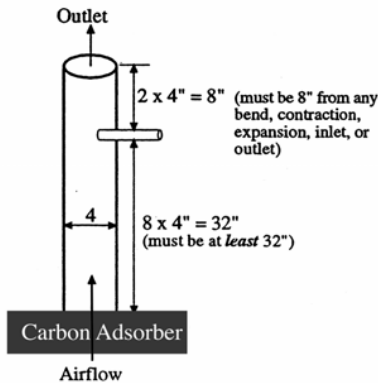


**C - Carbon adsorber.** If you installed a carbon adsorber on a transfer machine system to meet the control requirements:

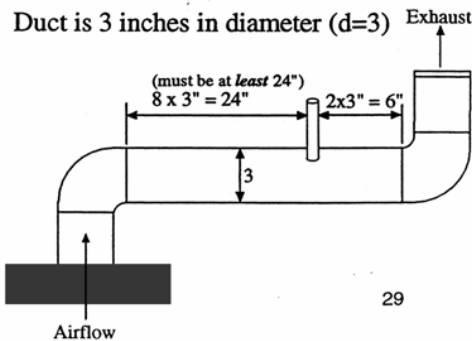
Use a colorimetric detector to measure the concentration of perc at the exhaust outlet of the carbon adsorber. The concentration should be less than or equal to 100 ppm by volume. Accuracy should be  $\pm 25$  ppm by volume. Measurement must be made after the last dry-cleaning cycle prior to desorption of the carbon adsorber. A sampling port for monitoring within the exhaust outlet of the carbon adsorber must be provided that is easily accessible: located at least eight times the diameter of the stack or duct downstream from any flow disturbance (bend, expansion, contraction or outlet); not downstream from any other inlet and two times the diameter of the stack or duct upstream from any flow disturbance.



Duct is 4 inches in diameter (d=4)



**Example:**



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