

EMISSIONS ACTIVITY CATEGORY FORM DRY CLEANING FACILITY

This form is to be completed for each dry cleaning establishment that is not a drop off/pick up store, or does not have coin operated dry cleaning machines. State/Federal regulations which may apply to dry cleaning establishments are listed in the instructions. Note that there may be other regulations which apply to this emissions unit which are not included in this list.

1. Reason this form is being submitted (Check one)

- New Permit
- Renewal or Modification of Air Permit Number (e.g. D001)_____

2. Type of dry cleaning solvent employed (check one or more boxes):

- Perchloroethylene
- Trichlorotrifluoroethane (e.g., "Freon 113", "Valcene", etc.)
- Petroleum solvent (e.g., Stoddard, 140-F, mineral spirits, etc.)

3. Fresh solvent storage method:

- 55 gallon drum
- Separate storage tank capacity:_____gallons
- Other, specify:_____

4. Complete the following table for **maximum** solvent usage and **maximum** amount of fabric dry cleaned per year at your facility. If this is a new dry cleaner, list the proposed maximum rate:

Specific Solvent Name	Maximum Annual Solvent Usage (gal)	Maximum Annual Fabric Cleaned (lbs)

5. Complete the following table for washing and/or drying equipment:

Equipment ID	Equipment Manufacturer	Model Number	Type of Operation (Check one)	Manufacturer's Capacity (lbs)	Control Equipment	Type of Filter
			<input type="checkbox"/> Washer (Transfer) <input type="checkbox"/> Dryer (Transfer) <input type="checkbox"/> Dry-to-Dry		<input type="checkbox"/> Refrigerated Condenser <input type="checkbox"/> Primary Carbon Adsorber <input type="checkbox"/> Supplemental Carbon Adsorber <input type="checkbox"/> None	
			<input type="checkbox"/> Washer (Transfer) <input type="checkbox"/> Dryer (Transfer) <input type="checkbox"/> Dry-to-Dry		<input type="checkbox"/> Refrigerated Condenser <input type="checkbox"/> Primary Carbon Adsorber <input type="checkbox"/> Supplemental Carbon Adsorber <input type="checkbox"/> None	
			<input type="checkbox"/> Washer (Transfer) <input type="checkbox"/> Dryer (Transfer) <input type="checkbox"/> Dry-to-Dry		<input type="checkbox"/> Refrigerated Condenser <input type="checkbox"/> Primary Carbon Adsorber <input type="checkbox"/> Supplemental Carbon Adsorber <input type="checkbox"/> None	
			<input type="checkbox"/> Washer (Transfer) <input type="checkbox"/> Dryer (Transfer) <input type="checkbox"/> Dry-to-Dry		<input type="checkbox"/> Refrigerated Condenser <input type="checkbox"/> Primary Carbon Adsorber <input type="checkbox"/> Supplemental Carbon Adsorber <input type="checkbox"/> None	
			<input type="checkbox"/> Washer (Transfer) <input type="checkbox"/> Dryer (Transfer) <input type="checkbox"/> Dry-to-Dry		<input type="checkbox"/> Refrigerated Condenser <input type="checkbox"/> Primary Carbon Adsorber <input type="checkbox"/> Supplemental Carbon Adsorber <input type="checkbox"/> None	
			<input type="checkbox"/> Washer (Transfer) <input type="checkbox"/> Dryer (Transfer) <input type="checkbox"/> Dry-to-Dry		<input type="checkbox"/> Refrigerated Condenser <input type="checkbox"/> Primary Carbon Adsorber <input type="checkbox"/> Supplemental Carbon Adsorber <input type="checkbox"/> None	
			<input type="checkbox"/> Washer (Transfer) <input type="checkbox"/> Dryer (Transfer) <input type="checkbox"/> Dry-to-Dry		<input type="checkbox"/> Refrigerated Condenser <input type="checkbox"/> Primary Carbon Adsorber <input type="checkbox"/> Supplemental Carbon Adsorber <input type="checkbox"/> None	

6. If your dry cleaning machine uses perchloroethylene and has a refrigerated condenser, please answer the following:

Equipment ID	Vented or Non-vented	For dry-to-dry machines, the condenser outlet temperature at end of dry/cool-down cycle (°F)	For washing machines, condenser temperature (°F) at:		
			Inlet	Outlet	(Inlet - Outlet)

7. If your dry cleaning machine uses perchloroethylene and has a carbon adsorber, please answer the following:

Equipment ID	Vented or Non-vented	For vented carbon adsorber, concentration of perchloroethylene in the exhaust (ppm)	For non-vented carbon adsorber, concentration of perchloroethylene in the machine drum (ppm)

8. Indicate the minimum amount of time filter cartridges or filter materials are drained prior to disposal.
 _____hrs

9. If applicable, describe test or analysis recently conducted to determine solvent emissions or solvent content of wastes:

INSTRUCTIONS FOR COMPLETION OF THE EMISSIONS ACTIVITY CATEGORY FORM FOR DRY CLEANING FACILITIES

GENERAL INSTRUCTIONS:

Provide complete responses to all applicable questions. If an item does not apply to the emissions unit, write in "Not Applicable" or "NA." If the answer is not known, write in "Not Known" or "NK." If you need assistance in understanding a question after reading the instructions below, contact your Ohio EPA District Office or Local Air Agency for assistance. Submittal of an incomplete application will delay application review and processing. In addition, the application may be returned as incomplete if all applicable questions are not answered appropriately.

APPLICABLE REGULATIONS:

The following State regulations may be among those which apply to dry cleaners. Note that there may be other regulations which apply to this emissions unit which are not included in this list.

- Federal: 40 CFR 63, (MACT) Subpart A, (General Provisions)
40 CFR 63, (MACT) Subpart M (National Perchloroethylene Air Emission Standards for Dry Cleaning Facilities)
- State: OAC rule 3745-31-02 (Permit to Install)
OAC rule 3745-35-02 (Permit to Operate)
OAC rule 3745-21-09(AA) (Perchloroethylene Dry Cleaning Facility)
OAC rule 3745-21-09(BB) (Petroleum Dry Cleaning Facility)

If you would like a copy of these regulations, contact your Ohio EPA District Office or Local Air Agency. State regulations may also be viewed and downloaded from the Ohio EPA web site at <http://www.epa.state.oh.us/dapc/regs/regs.html>. Federal regulations may be viewed and downloaded at <http://www.epa.gov/docs/epacfr40/chapt-I.info/subch-C.htm>.

CALCULATING EMISSIONS:

Dry cleaning operations typically emit solvent vapors to the air. Emissions due to solvent evaporation can be calculated by multiplying the annual amount (in gallons) of solvent used by the solvent weight per gallon:

$$\text{Annual emissions (lbs.yr)} = \text{amount of solvent used* (gallons)} \times \text{weight per gallon (lbs.)}$$

*Usage equals beginning inventory, minus final inventory, plus purchases, minus credits for documented disposal or returns to suppliers.

SPECIFIC INSTRUCTIONS:

1. If a new machine is being installed, there should be a new permit. If an existing permit is expiring for a machine that will continue to operate at your facility, mark the "renewal" box. If your facility has multiple dry cleaning machines, contact the Ohio EPA District Office or Local Air Agency that serves your county for assistance.
2. Check the box for the solvent which you use to clean the fabric. If more than one solvent is used at your facility, check the box for every type that you use.

3. Identify how your incoming solvent is stored. If it is delivered by someone, and pumped directly into your dry cleaning machine(s), mark the "other" box, and describe how this is done.
4. Provide the **total** number of gallons of solvent used throughout an entire year, and the total weight (in pounds) of fabric cleaned throughout an entire year, under maximum operating conditions **facility-wide**. List this information for each type of solvent used.
5. Fill in the information requested. Use one row for each machine at your facility. Check the box to indicate the type of machine (Washer, Dryer, Dry-to-Dry). The control equipment is the air pollution control device(s). Check the box for the type of air pollution control equipment used for each machine at your facility. Provide information on the type of filter used for each machine in your facility. Types of filters include diatomaceous earth, cartridge, tubular, spin disc, etc.
6. For each dry cleaning machine, indicate whether the refrigerated condenser vents or not during the "cool down" phase of its cycle. For a dry-to-dry machine, list the temperature that the gauge measures at the end of the cool down phase. For a washing machine, list the inlet temperature, the outlet temperature and the difference between the two temperatures.
7. For each dry cleaning machine, indicate whether the carbon adsorber vents or not. Measure the concentration of the solvent, and enter this value in parts per million. For a vented carbon adsorber, the concentration is measured in the exhaust duct. For a non-vented carbon adsorber, the concentration is measured in the drum of the dry cleaning machine.
8. State the number of hours that the filter cartridges or filter materials are drained in their housing before disposal.
9. If any emissions testing or waste analysis has been conducted on the solvent that you use, please provide information as requested.