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For DAQ Use Only

Form SS-PER-009-01: Perchloroethylene Dry Cleaning Worksheet

Please see instructions on page 3 before filling out the form.

Supplemental Information

IDENTIFICATION	
1. Source Name:	2. Source ID No.:
3. Brief project description:	
<p>Perchloroethylene (PERC) is a hazardous air pollutant suspected of causing cancer and other serious health effects in humans. In an effort to reduce 187 identified hazardous air pollutants, the U.S. Environmental Protection Agency (EPA) has developed Maximum Achievable Control Technology (MACT) standards that affect different types of industries.</p> <p>EPA issued a MACT standard for dry cleaning operations in 1993 (40 CFR 63 Subpart M: "Dry Cleaning MACT for Perc Dry Cleaners") and amended it in 2006. The requirements of this standard apply depending on source size (small/large area source or major source) and whether the source has new or existing machines. Different machines at the same business may be subject to different requirements.</p>	
4. Are the machines new or existing? <input type="checkbox"/> New <input type="checkbox"/> Existing <ul style="list-style-type: none"> If the machines were installed before December 9, 1991, they are existing. If the machines were installed on or after December 9, 1991, they are new. 	
5. Indicate source size: <input type="checkbox"/> Small area source <input type="checkbox"/> Large area source <input type="checkbox"/> Major source	
6. Specify PERC usage (gal/year):	
7. Specify PERC emissions (lbs/year):	

8. List the specifications of each machine at the plant.

	Machine 1	Machine 2	Machine 3	Machine 4
Manufacturer				
Capacity				
Model Number				
Serial Number				
Manufacture date				

9. Indicate machine type and emission control type for each machine at the plant.

Machine Type	Machine 1	Machine 2	Machine 3	Machine 4
Dry-to-dry transfer				
Date of installation				
Date of reconstruction (if any)				
Emission Control Type¹				
Refrigerated condenser				
Carbon adsorber				
Other (Specify)				
Date of installation				

Machine Type	Machine 1	Machine 2	Machine 3	Machine 4
Refrigerator System				
High and low pressure ranges during the drying phase (if present)				

¹Dry cleaning machines installed after December 21, 2005, shall be equipped with refrigerated condenser and a nonvented carbon adsorber or equivalent control device.

10. List total usage for other solvents.

Material	Density (lbs/gal)	Annual Ink/Coating Usage (gal/yr)	VOC Content (% by weight)	VOC Content (% by volume)	HAP Content (% by weight)	HAP Content (% by volume)

Attach SDS for each solvent, etc.

All information above this line is required for this form to be considered complete. Duplicate sheet as needed.

The information in this section guides you to other forms that may have to accompany this worksheet.

- For emission control equipment, use the appropriate **CONTROL EQUIPMENT** form (Baghouse: SS-PER-008-01, Particulate Control Equipment: SS-PER-008-05, Scrubber: SS-PER-008-06) and duplicate as needed. Be sure to indicate the emission unit that the control equipment is affecting.
- Use the Engine form (SS-PER-007-03) if not operating on grid power and/or if there is an engine on-site.
- Use the Boiler form (SS-PER-007-01) if there is a boiler/dryer on-site.

Form Instructions

Before filling out this worksheet, locate the **Supplemental Information** box at the top right.

- If submitting this worksheet with a permit application, do not check the box.
- If submitting this worksheet without a permit application, or in response to a DAQ request for supplemental/requested information, check the box.

1. Provide the source name as it appears on the application. If a permit already exists for this operation, the source name should match the name on the permit.
2. If the source is existing and already has a permit, provide the Source ID number as it appears on the permit. Otherwise, enter "New."
3. Provide a brief description of the proposed project as it appears on the permit application.

USE ATTACHMENT IF ADDITIONAL SPACE IS REQUIRED.

4. Specify the status of the machines at the facility, either **new** or **existing**.
5. Specify the source size. Determine the total volume of PERC purchased for **all** machines at the plant over the past 12 months, compare it to the ranges in the table below, and select the appropriate source size.
 - a. If PERC purchase records have not been kept at the plant, estimate the volume.
 - b. For new plants, determine the total volume of PERC expected to be purchased over the first 12 months the plant will be operating.

Source Size Definitions

Machine Type	Small Area (purchasing less than)	Large Area (purchasing)	Major (purchasing more than)
Only dry-to-dry	140 gals of perc per year	140 – 2,100 gals of perc per year	2,100 gals of perc per year
Only transfer	200 gals of perc per year	200 – 1,800 gals of perc per year	1,800 gals of perc per year
Both dry-to-dry and transfer	140 gals of perc per year	140 – 1,800 gals of perc per year	1,800 gals of perc per year

6. Specify PERC usage in gallons based on the methods described in #5 above.
7. Calculate PERC emissions by multiplying the volume of PERC (from #6 above) by 9.52 pounds per gallon. The total will equal the pounds of PERC emissions released over the previous year.
8. Specify the manufacturer, capacity, model and serial numbers, and date of manufacture of each machine used.
9. Specify the machine type and emission control type for each machine used.
10. Specify the total usage of required solvents at the plant.