PERCHLOROETHYLENE (PERC) DRY CLEANER WORKSHEET INSTRUCTIONS

How to Complete this Worksheet

- Submit this worksheet as a supplemental document to an *Application for a Minor Source Authority to Construct/Permit to Operate*. If submitting this worksheet without a permit application, or in response to an AQMD request for supplemental information, locate and check the "Supplemental Information" box at the top left of Page 2.
- The worksheet must be filled out completely for all items that are applicable, except where noted as optional.
- The *Application for a Minor Source Authority to Construct/Permit to Operate*, all applicable emission unit and/or control device worksheet(s), and payment should be hand delivered to the AQMD drop box located (here), or mailed to:
  NNPH, AQMD
  1001 E. Ninth Street, Suite B171
  Reno, NV 89512
- Other forms that may be required in addition to this worksheet:
  - Use the *Boiler Worksheet* if there is a boiler on site.
  - If not operating on grid power and/or if there is an engine on site, use the *Internal Combustion Engine Worksheet*.
- More detailed instructions can be found on page 4.

NORTHERN NEVADA Public Health | Air Quality

FOR AQMD USE ONLY
Permit No.:

PERCHLOROETHYLENE (PERC) DRY CLEANING WORKSHEET

☐ **Supplemental Information**

Facility Information

1. ☐ New Permit ☐ Permit Modification	2. **Existing facilities only.** Permit Number:	
3. Facility Name:		
4. Facility Address:		
City:	State:	ZIP Code:

Specifications

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.

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.

5. Are the machines new or existing? ☐ New ☐ Existing
   - 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**.

6. Indicate the source size: ☐ Small Area Source ☐ Large Area Source ☐ Major Source

7. Specify PERC usage (gal/yr):	8. Specify PERC emissions (lbs/yr):

9. List the manufacturer, date of manufacture, capacity, model number, and serial number for each machine. Attach manufacturer specification sheets for each machine.

Specifications	Machine No. 1	Machine No. 2	Machine No. 3	Machine No. 4
Manufacturer				
Date of Manufacture				
Capacity (lbs)				
Model Number				
Serial Number				

10. Indicate the machine type and emission control type for each machine.[1]				
Machine Type	**Machine No. 1**	**Machine No. 2**	**Machine No. 3**	**Machine No. 4**
Date of Installation				
Date of Reconstruction (if any)				
Dry-to-Dry OR Transfer				
Refrigerated Condenser				
Carbon Adsorber				
Other (specify)				
Refrigerator System				
High/Low Pressure Ranges				

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

Materials Information

11. List information for any other solvents that will be used. Attach SDS for each material and duplicate as needed.

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

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

DETAILED WORKSHEET INSTRUCTIONS

Facility Information

1. Specify if the worksheet is for a new permit or for modification of an existing permit by checking the appropriate box.
2. **For existing facilities only.** Provide the Permit Number, which can be found at the top of page 1 of the existing Permit to Operate (ex. AAIRXX-XXXX).
3. Provide the facility name as it appears on the *Application for a Minor Source Authority to Construct/Permit to Operate.* If a permit already exists for this operation, enter the name as it appears on the existing permit, which can be found at the top of page 1 of the existing Permit to Operate where it says, "Permit Issued To".
4. Provide the facility address.

Specifications

5. Specify the status of the machines at the facility, either new or existing.
6. Specify the source size. Determine the total volume of PERC purchased for all machines at the facility over the past 12 months, compare it to the ranges in the table below, and select the appropriate source size.
   - If PERC purchase records have not been kept at the facility, estimate the volume.
   - 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 Area (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

7. Specify PERC usage in gallons based on the methods described in #5 above.
8. 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.
9. Specify the manufacturer, date of manufacture, capacity (lbs), model number, and serial number of each machine used. Duplicate as needed.
10. Indicate the machine type and emission control type for each machine used. Duplicate as needed.
11. List information for any other solvents that will be used at the facility. Attach SDS for each material and duplicate as needed.