

**REGULATION 8
ORGANIC COMPOUNDS
RULE 27
SYNTHETIC SOLVENT DRY CLEANING OPERATIONS**

INDEX

8-27-100 GENERAL

- 8-27-101 Description
- 8-27-110 Exemption, Other Solvents
- 8-27-111 Exemption, Small Users
- 8-27-112 Exemption, Space and Steam Limitations

8-27-200 DEFINITIONS

- 8-27-201 Control Device
- 8-27-202 Drying Cabinets
- 8-27-203 Drying Tumbler
- 8-27-204 Dry-to-Dry Unit
- 8-27-205 Dry Weight of Articles Cleaned
- 8-27-206 Solvent Liquid Leak
- 8-27-207 Solvent Reclaimer
- 8-27-208 Solvent Still
- 8-27-209 Solvent Vapor Leak
- 8-27-210 Synthetic Solvent
- 8-27-211 Waterproofing Operations

8-27-300 STANDARDS

- 8-27-301 Operating Requirements
- 8-27-302 Emission Control Requirements
- 8-27-303 Equipment Requirements
- 8-27-304 Prohibition of Use, Separate Drying Tumblers
- 8-27-305 Waterproofing Operation Requirements

8-27-400 ADMINISTRATIVE REQUIREMENTS

- 8-27-401 Deleted September 5, 1990
- 8-27-402 Compliance Schedule, Loss of Exemption
- 8-27-403 Space Limitation Petition

8-27-500 MONITORING AND RECORDS

- 8-27-501 Carbon Adsorber Operation Records
- 8-27-502 Solvent Filtration Records

8-27-600 MANUAL OF PROCEDURES

- 8-27-601 Determination of Emissions
- 8-27-602 Analysis of Solvent Still Residue and Solvent Filtration Waste

REGULATION 8
ORGANIC COMPOUNDS
RULE 27
SYNTHETIC SOLVENT DRY CLEANING OPERATIONS

(Adopted March 5, 1980)

8-27-100 GENERAL

- 8-27-101 Description:** The purpose of this Rule is to limit emissions of synthetic solvent from dry cleaning operations. (Amended September 5, 1990)
- 8-27-110 Exemption, Other Solvents:** This Rule does not apply to cleaning plants which do not use synthetic solvents. (Amended September 5, 1990)
- 8-27-111 Exemption, Small Users:** Until December 1, 1991, the provisions of Section 8-27-302 shall not apply to dry cleaning plants which consume less than 1200 liters (320 gallons) of synthetic solvents per year, provided the provisions of Section 8-27-402 are met. (Amended September 5, 1990)
- 8-27-112 Exemption, Space and Steam Limitations:** The provisions of Section 8-27-302 shall not apply to dry cleaners which satisfy one of the following conditions:
- 112.1 A control device cannot be accommodated because of inadequate space provided the requirements in Section 8-27-403 are satisfied.
 - 112.2 Until December 1, 1991, excess steam capacity in the plant is insufficient to regenerate a carbon adsorption system, provided the provisions of Section 8-27-402 are met.
 - 112.3 Until December 1, 1991, the plant operator has demonstrated to the satisfaction of the APCO that other hardships justify such an exclusion, provided the provisions of Section 8-27-402 are met. (Amended September 5, 1990)

8-27-200 DEFINITIONS

- 8-27-201 Control Device:** A device for reducing emissions of synthetic solvent to the atmosphere including but not limited to, carbon adsorbers and refrigerated condensers. (Adopted September 5, 1990)
- 8-27-202 Drying Cabinets:** Dry cleaning equipment consisting of a housing in which articles are hung to dry and used only to steam dry articles which would otherwise be damaged by the heat and tumbling action of a drying tumbler. (Adopted September 5, 1990)
- 8-27-203 Drying Tumbler:** Dry cleaning equipment which dries articles previously cleaned with synthetic solvent. For purposes of this rule, drying tumblers include solvent reclaimers. (Adopted September 5, 1990)
- 8-27-204 Dry-to-Dry Unit:** Dry cleaning equipment which combines the functions of cleaning and drying in one unit and where articles to be cleaned are placed in the equipment and not removed until the drying cycle is complete. (Adopted September 5, 1990)
- 8-27-205 Dry Weight of Articles Cleaned:** The weight of articles prior to being cleaned in synthetic solvent. (Adopted September 5, 1990)
- 8-27-206 Solvent Liquid Leak:** a liquid leak of more than 3 drops per minute. (Adopted September 5, 1990)
- 8-27-207 Solvent Reclaimer:** Dry cleaning equipment used only to dry articles which have been cleaned in a separate piece of equipment and which is vented to a carbon adsorber or other control device. (Adopted September 5, 1990)
- 8-27-208 Solvent Still:** A device used to distill or purify solvent. (Adopted September 5, 1990)
- 8-27-209 Solvent Vapor Leak:** A vapor leak which is a visible vapor mist. (Adopted September 5, 1990)

- 8-27-210 Synthetic Solvent:** Any halogenated hydrocarbons including, but not limited to, perchloroethylene, 1,1,1, trichloroethane and trichlorotrifluoroethane (CFC-113).
(Adopted September 5, 1990)
- 8-27-208 Waterproofing Operations:** The immersion of articles into a water-repellant solution.
(Adopted September 5, 1990)
- 8-27-300 STANDARDS**
- 8-27-301 Operating Requirements:** A person shall not operate any dry cleaning equipment which uses synthetic solvents unless all of the following requirements are satisfied:
- 301.1 There shall be no solvent liquid or solvent vapor leaks from any dry cleaning equipment and related connections or the leaking equipment shall not be operated.
 - 301.2 The residue from a solvent still shall not contain more than 0.6 kg of solvent per kg of solvent still waste.
 - 301.3 Used filtration cartridges shall be either drained in the filter housing for at least 24 hours before being discarded or for at least 12 hours provided that they are subsequently dried in a closed container which is vented to a control device approved by the APCO.
 - 301.4 Used diatomaceous earth filters shall be cooked or treated so that the residue contains no more than 0.25 kg of solvent per kg of solvent still or filter waste.
 - 301.5 Any other filtration or distillation system can be used if it can be demonstrated to the satisfaction of the APCO that it reduces waste losses below 0.01 kg per kg of dry weight of articles cleaned.
 - 301.6 All waste from dry cleaning operations including solvent still or filter waste and used filtration cartridges must be maintained and transported in sealed metal containers and shall be disposed of as set forth in California State law regarding hazardous waste disposal as described in Title 22, Division 4, Chapter 30 of the California Code of Regulations.
 - 301.7 All synthetic solvent and waste storage vessels, washers, waterproofing tanks, lint traps, equipment doors and equipment where synthetic solvents may be exposed to the atmosphere must be kept closed at all times, except when required to be open for proper operation or maintenance.
 - 301.8 All carbon adsorbers or other control devices required by this Rule shall be installed, operated and maintained according to the manufacturer's recommendations. (Amended November 21, 1984, September 5, 1990)
- 8-27-302 Emission Control Requirements:** A person shall not operate any dry cleaning equipment which uses synthetic solvents unless one of the following requirements is satisfied:
- 302.1 All exhaust gases from drying tumblers and cabinets are vented through a carbon adsorber or other control device which has been approved in writing by the APCO and which reduces emissions of synthetic solvents to the atmosphere by at least 90 percent by weight, or
 - 302.2 All of the exhaust gases from drying tumblers and cabinets are vented through a carbon adsorber which has been approved in writing by the APCO and which reduces emission of synthetic solvents to the atmosphere to no more than 100 ppm before dilution; or
 - 302.3 The air temperature at the outlet of a refrigerated condenser must reach 45°F or less during the cool-down period. A temperature gauge with a minimum range from 0°F to 150°F must be installed on the condenser outlet duct.
(Amended March 17, 1982, September 5, 1990)
- 8-27-303 Equipment Requirements:** Effective September 5, 1990, no person shall install and subsequently operate any dry cleaning equipment which uses synthetic solvents unless such equipment consists of dry-to-dry units. (Adopted September 5, 1990)

8-27-304 Prohibition of Use, Separate Drying Tumblers: No person shall operate a separate drying tumbler installed after September 5, 1990 in conjunction with dry-to-dry equipment. (Adopted September 5, 1990)

8-27-305 Waterproofing Operation Requirements A person shall not conduct any waterproofing operations which use synthetic solvents unless the following requirements are satisfied:

305.1 All articles which have been immersed in waterproofing solution shall be drained within the waterproofing tank until dripping ceases.

305.2 All articles removed from a waterproofing tank shall be immediately placed into a dryer. (Adopted September 5, 1990)

8-27-400 ADMINISTRATIVE REQUIREMENTS

8-27-401 Deleted September 5, 1990

8-27-402 Compliance Schedule, Loss of Exemption Any person who becomes subject to the requirements of Section 8-27-302 through loss of exemption in Section 8-27-111 or Section 8-27-112 shall comply with the following increments of progress:

402.1 By July 1, 1991, submit a completed application for an Authority to Construct equipment necessary to achieve compliance with this rule.

402.2 By December 1, 1991, be in full compliance with the requirements of this rule.

(Adopted September 5, 1990)

8-27-403 Space Limitation Petition: Any person seeking to satisfy the conditions of Subsection 8-27-112.1 shall comply with the following requirements:

403.1 The person shall petition the APCO in writing that space limitations prohibit the installation of a control device on dry cleaning equipment pursuant to Section 8-27-302. The petition shall include projected yearly synthetic solvent usage, equipment configuration, and a facility plot plan including locations of closest businesses and residences.

403.2 The APCO shall conduct a toxic risk assessment analysis for each space limitation petition received. If the APCO grants written approval, such approval may contain conditions to ensure that any risk is minimized.

403.3 If the APCO grants written approval, such petition will be repeated on an annual basis. (Adopted September 5, 1990)

8-27-500 MONITORING AND RECORDS

8-27-501 Carbon Adsorber Operation Records Any person operating a carbon adsorber which is subject to the provisions of subsections 8-27-302.1 or 302.2 shall maintain records on a daily basis or on the day performed showing the dates on which the carbon was regenerated with steam. Such records shall be retained and available for inspection by the APCO for the previous 24-month period.

(Adopted September 5, 1990)

8-27-502 Solvent Filtration Records: Any person subject to the requirements of Subsection 8-27-301.5 shall maintain records of pre-washed weight of articles cleaned per load. Such records shall be retained and available for inspection by the APCO for the previous 24-month period. (Adopted September 5, 1990)

8-27-600 MANUAL OF PROCEDURES

8-27-601 Determination of Emissions: Emissions of synthetic solvents as specified in Section 8-27-302 shall be measured as prescribed in the Manual of Procedures, Volume IV, ST-31. (Adopted March 17, 1982, Amended September 5, 1990))

8-27-602 Analysis of Solvent Still Residue and Solvent Filtration Waste: Samples of solvent still residue as specified in subsection 8-27-301.2 and samples of solvent filtration waste as specified in subsections 8-27-301.4 and 301.5 shall be analyzed as prescribed in the Manual of Procedures, Volume III, Method 37.

(Adopted September 5, 1990)