

**REGULATION 8  
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**REGULATION 8**  
**ORGANIC COMPOUNDS**  
**RULE 11**  
**METAL CONTAINER, CLOSURE AND COIL COATING**

(Adopted January 24, 1979)

**8-11-100 GENERAL**

**8-11-101 Description:** The purpose of this Rule is to reduce emissions of volatile organic compounds (VOC) from the coating of metal coils, cans, drums, pails, lids and crowns.

**8-11-110 Deleted September 20, 1989**

**8-11-200 DEFINITIONS**

**8-11-201 Coating Line:** An operation or process for applying, drying, baking and/or curing surface coatings, together with associated equipment including a coating applicator, flashoff area and oven.

**8-11-202 Coil Coating:** Any coating applied to metal sheets or strips which are then rolled into coils for further industrial or commercial use.

**8-11-203 Daily Weighted Average:** The amount of volatile organic compounds emitted on a given day, considering actual production, VOC content of coatings used, and the degree of control achieved by any abatement equipment on the coating line or lines included in the submitted plan.

**8-11-204 End Sealing Compound:** A compound which is coated onto can ends and which functions as a gasket when the end is assembled onto the can.

**8-11-205 Exterior Base Coating:** A coating applied to the exterior of a can body, end, or flat sheet to provide protection to the metal or to provide background for any lithographic or printing operation. (Amended December 19, 1984)

**8-11-206 Exterior Body Spray:** A coating sprayed on the exterior of the container body to provide a decorative or protective finish.

**8-11-207 Interior Base Coating:** A coating applied to the interior of a can body, end, or flat sheet to provide a protective lining between the product and the can.

(Amended December 19, 1984)

**8-11-208 Interior Body Spray:** A coating sprayed on the interior of the can body to provide a protective film between the product and the can.

**8-11-209 Metal Container or Closure Coating:** Any coating applied to either the interior or exterior of formed metal cans, drums, pails, lids or crowns or flat metal sheets which are intended to be formed into cans, drums, pails, lids or crowns.

**8-11-210 Overvarnish:** A coating applied directly over a design coating to reduce the coefficient of friction, to provide gloss and to protect the finish against abrasion and corrosion.

**8-11-211 Three-piece Can Side-Seam Spray:** A coating sprayed on the exterior and/or interior of a welded, cemented or soldered seam to protect the exposed metal.

**8-11-212 Two-piece Can Exterior-End Coating:** A coating applied to the exterior bottom end of a can to reduce the coefficient of friction and to provide protection to the metal.

(Amended November 19, 1997)

**8-11-213 Deleted September 20, 1989**

**8-11-214 Deleted September 20, 1989**

**8-11-215 Volatile Organic Compound:** Any organic compound (excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates and ammonium carbonate) which would be emitted during use, application, curing or drying of a solvent or surface coating.

215.1 For purposes of calculating VOC content of a coating, any water or the following non-precursor organic compounds shall not be considered to be part of the coating:

methylene chloride  
 1,1,1 trichloroethane  
 trichlorotrifluoroethane (CFC-113)  
 trichlorofluoromethane (CFC-11)  
 dichlorodifluoromethane (CFC-12)  
 dichlorotetrafluoroethane (CFC-114)  
 chloropentafluoroethane (CFC-115)  
 acetone  
 parachlorobenzotrifluoride (PCBTF)  
 cyclic, branched or linear, completely methylated siloxanes (VMS)  
 (Adopted September 20, 1989; Amended December 20, 1995)

**8-11-216 Reconditioned Drums, Pails, or Lids:** Any metal container which is reused, recycled or remanufactured. (Adopted September 20, 1989)

**8-11-217 Ink:** Any coating used to impart graphical designs, letters, or numerals on the exterior surface of a metal container, closure, or coil.  
 (Adopted September 20, 1989, amended November 19, 1997)

**8-11-218 Food Cans:** Any metal container used for the storage of food products intended for human or animal consumption. (Adopted November 19, 1997)

**8-11-300 STANDARDS**

**8-11-301 Metal Container or Closure Coating Limitations:** Except as provided in Sections 8-11-302 and 305, a person shall not apply any metal container or closure coating with a VOC content in excess of the following limits, expressed as grams VOC per liter (pounds VOC per gallon) of coating, as-applied, excluding water:

Coating Category		Effective July 1, 1998	Effective Jan 1, 2000	Effective Jan 1, 2002
<b><u>CANS</u></b>				
301.1	Sheet basecoat (interior and exterior) and overvarnish	225 (1.9)		
301.2	Deleted September 20, 1989			
301.3	Two-piece can exterior basecoat, overvarnish, and end coating	250 (2.1)		
301.4	Interior body spray			
	4.1 Two-piece cans	510 (4.2)	420 (3.5)	
	4.2 Three-piece cans	510 (4.2)	360 (3.0)	
301.5	Three-piece can side seam spray	660 (5.5)		
301.6	End sealing compound			
	6.1 Food cans	440 (3.7)		20 (0.1)
	6.2 Non-Food cans	440 (3.7)	20 (0.1)	
	6.3 Beverage cans	440 (3.7)	20 (0.1)	
301.7	Exterior body spray	420 (3.5)		
<b><u>DRUMS, PAILS, AND LIDS</u></b>				
301.8	Body Spray			
	8.1 Reconditioned Interior	510 (4.2)		
	8.2 Reconditioned Exterior	420 (3.5)		
	8.3 New Interior	510 (4.2)	420 (3.5)	
	8.4 New Exterior	420 (3.5)	340 (2.8)	
301.9	End Sealing Compound			
	9.1 Food Drums	440 (3.7)		60 (0.5)
	9.2 Non-Food Drums	440 (3.7)	60 (0.5)	
301.10	Inks, all applications	300 (2.5)		

(Amended 12/19/84; 9/20/89; 10/6/93; 11/19/97)

**8-11-302 Emission Control Device Limitation for Metal Container or Closure Coatings:** The use of coatings with VOC contents in excess of the limits specified in Section 8-11-301 shall be allowed, provided emissions of VOC to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with an

abatement device efficiency of at least 90 percent that meets the requirements of Regulation 2, Rule 1.(Amended September 20, 1989; October 6, 1993)

**8-11-303 Coil Coating Limitation:** Except as provided in Sections 8-11-304, a person shall not apply any coil coating with a VOC content in excess of 200 grams per liter of coating applied (1.7 lb/gal), excluding water. (Amended December 19, 1984)

**8-11-304 Emission Control Device Limitation for Coil Coating:** The requirements of Section 8-11-303 shall not apply to a coil coating line from which emissions of VOC to the atmosphere are controlled to no more than 120 grams per liter of coating applied (1.0 lb/gal), excluding water, by air pollution abatement equipment with an abatement device efficiency of at least 90 percent that meets the requirements of Regulation 2, Rule 1.(Amended December 19, 1984; September 20, 1989; October 6, 1993)

**8-11-305 Alternative Emission Control Plan:** The requirements of Sections 8-11-301 shall not apply to any coating line or coating lines which comply with an alternative emission control plan which satisfies all the following requirements:

305.1 Emissions of VOC, on a daily weighted average, shall be no greater than that amount which would result if the affected coating line or lines complied with all applicable requirements of Sections 8-11-301. Air pollution abatement devices used to control VOC emissions must achieve an abatement device efficiency of at least 90 percent and meet the requirements of Regulation 2, Rule 1.

305.2 The plan shall be submitted to the APCO for review and approval on an annual basis.

305.3 The plan shall include methods acceptable to the APCO for demonstrating compliance with the plan on a daily basis. Such demonstration shall include the following:

3.1 List of products which will be coated on each line

3.2 Type of coatings which will be applied on each product

3.3 Amount of those coatings which will be applied on each coating product

3.4 VOC content or equivalent emission level for each coating, per gallon or liter of solids for each coating

3.5 Detailed description of compensation reduction to be achieved for each non-complying product.

305.4 The information required in subsection 305.3 shall be available for inspection by the APCO on each production day and maintained for two years.

305.5 The plan shall contain credit only for reductions achieved on coating lines subject to this Rule and not for emission reductions required by other District rules or regulations.

305.6 Failure to comply with any provision of an approved plan shall constitute a violation of this Rule.

305.7 The person submitting the plans shall retain such records for two years and submit such information on coating usage, coating composition, laboratory analysis, source tests, or other information as required by the APCO to determine compliance with the plan.

305.8 If any District regulation is adopted or amended after approval of the plan, which requires emission reductions which are included in the plan, a new plan shall be submitted which does not include credit for those reductions.

(Amended December 19, 1984; September 20, 1989; October 6, 1993)

**8-11-306 Surface Preparation and Cleanup Solvent:** The requirements of this Section shall apply to any person using organic solvent for surface preparation or cleanup.

306.1 A person shall use closed containers for storage or disposal of cloth or paper used for solvent surface preparation and cleanup.

306.2 A person shall store fresh or spent solvent in closed containers.

306.3 A person shall not use organic compounds for the cleanup of spray equipment including paint lines unless equipment for collecting the cleaning compounds and minimizing their evaporation to the atmosphere is used.

**8-11-400 ADMINISTRATIVE REQUIREMENTS**

**8-11-401 Deleted September 20, 1989**

**8-11-402 Operation and Maintenance Plan:** Every twelve months, at least 60 days prior to permit renewal, any person subject to the provisions of Section 8-11-302, 304 or 305 where applicable shall submit to the APCO for approval an Operation and Maintenance (O/M) plan. Such plan will contain the following elements:

Afterburner Temperatures:

flame unit: minimum operating temperature

catalytic unit: minimum preheat temperature, temperature increase across catalyst bed

Burner maintenance schedule

Catalyst cleaning/recharging schedule, where applicable

Duct inspection schedule

(Adopted December 19, 1984; Amended September 20, 1989)

**8-11-403 Compliance Schedule:** Any person subject to the provisions of Section 8-11-504 shall comply with the following increment of progress:

403.1 By January 1, 1990, be in full compliance. (Adopted September 20, 1989)

**8-11-500 MONITORING AND RECORDS**

**8-11-501 Coating Records:** Any person subject to Section 8-11-301, 302, 303 or 304 shall comply with the following requirements.

501.1 A person shall maintain a current list of coatings in use which provides all of the coating data necessary to evaluate compliance.

501.2 A person shall maintain records on a daily basis showing the type and amount of each coating used.

501.3 A person shall maintain records on a monthly basis showing the types and amounts of solvent used for surface preparation and cleanup.

501.4 A person shall have available monthly records that provide information on a daily basis of the types of inks used. The amounts of ink used shall be maintained on a monthly basis.

501.5 Such records shall be retained and made available for inspection by the APCO for the previous 24-month period.

(Adopted December 19, 1984; Amended September 20, 1989)

**8-11-502 Deleted September 20, 1989**

**8-11-503 Alternate Emission Control Plan Records:** Any person subject to Section 8-11-305 shall comply with the provisions of Section 8-11-501, in addition to the elements already required in subsection 305.3.

503.1 Excess Reporting: Any record showing violation of subsection 305.1 shall be reported by sending a copy of such record to the Enforcement Division of the District within 96 hours following the occurrence. Such report will include an explanation of the cause of the violation and the corrective action taken.

(Adopted December 19, 1984; Amended September 20, 1989)

**8-11-504 Afterburner Temperature, Monitoring:** Any person incinerating gases, vapors or gas entrained effluent pursuant to the provisions of Sections 8-11-302, 8-11-304, and, where applicable, 8-11-305 shall install, calibrate and maintain in good working order a device which continuously records the operating temperature of the incineration unit. (Adopted September 20, 1989)

**8-11-600 MANUAL OF PROCEDURES**

**8-11-601 Analysis of Samples:** Samples of volatile organic compounds as specified in Sections 8-11-301 and 303 and subsection 8-11-305.7 shall be analyzed as prescribed in the Manual of Procedures, Volume III, Method 21 or 22.

(Adopted March 17, 1982; Amended December 19, 1984)

**8-11-602 Determination of Emissions:** Emissions of volatile organic compounds as specified in Sections 8-11-302 and 304 and subsection 8-11-305.7 shall be measured as prescribed by any of the following methods 1) BAAQMD Manual of Procedures, Volume IV, ST-7, 2) EPA Method 25 or 25A. When either EPA Method 25 or 25A is used, control device equivalency shall be determined as prescribed in 55 FR 26865 (June 29, 1990). A source shall be considered in violation if the VOC emissions measured by any of the referenced test methods exceed the standards of this rule.

(Adopted March 17, 1982; Amended December 19, 1984; June 15, 1994)

**8-11-603 Deleted October 6, 1993**