

**REGULATION 8
ORGANIC COMPOUNDS
RULE 33
GASOLINE BULK TERMINALS AND GASOLINE DELIVERY VEHICLES**

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REGULATION 8
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RULE 33
GASOLINE BULK TERMINALS AND GASOLINE DELIVERY VEHICLES

(Adopted November 30, 1983)

8-33-100 GENERAL

8-33-101 Description: The purpose of this Rule is to limit emissions of organic compounds from gasoline transfer operations at gasoline bulk terminals and delivery vehicles.

(Amended October 7, 1987; June 1, 1994)

8-33-110 Exemptions

8-33-111 Delivery Vehicle Exemptions: The requirements of subsections 8-33-304.1 and 304.2 do not apply to gasoline delivery vehicles which deliver exclusively to;

111.1 Storage tanks with a capacity of less than 1.0 cubic meter (260 gallons).

111.2 Storage tanks installed prior to February 18, 1987, with an annual throughput of less than 227 cubic meters (60,000 gallons).

111.3 Storage tanks with a capacity of less than 2.2 cubic meters (550 gallons), used primarily for the fueling of implements of husbandry as defined in Division 16, Chapter 1, of the California Vehicle Code.

111.4 Storage tanks where the APCO determines that Phase I vapor recovery is not feasible. (Amended January 9, 1985; October 7, 1987; June 1, 1994)

8-33-112 Tank Gauging and Inspection: Any tank may be opened for gauging or inspection when loading operations are not in progress provided that such tank is not pressurized.

(Amended and Renumbered October 7, 1987)

8-33-113 Maintenance and Repair Exemption: The requirements of Section 8-33-306 shall not apply to spills and vapor leaks resulting from maintenance or repair operations provided proper operating practices are employed to minimize evaporation of gasoline into the atmosphere. (Renumbered October 7, 1987)

8-33-200 DEFINITIONS

8-33-201 CARB Certified Vapor Recovery System: A vapor recovery system which has been certified by the California Air Resources Board (CARB) pursuant to Section 41954 of the Health and Safety Code. (Amended October 7, 1987)

8-33-202 Gasoline Bulk Terminal: A distributing facility which receives gasoline by other than tank truck, or rail car, stores it in stationary tanks, and loads it into tank trucks for delivery to gasoline bulk plants, service stations or other distribution points.

(Amended October 7, 1987; June 1, 1994)

8-33-203 Gasoline: Petroleum distillates used as motor fuel with a Reid vapor pressure greater than 4.0 pounds.

8-33-204 Leak Free: A liquid leak of less than four drops per minute excluding losses which occur upon disconnecting transfer fittings, provided such disconnect losses do not exceed 10 milliliters (0.34 fluid ounces) per disconnect, averaged over three disconnects.

8-33-205 Submerged Fill Pipe: Any discharge pipe or nozzle which meets either of the following conditions:

205.1 Where the tank is filled from the top, the end of the discharge pipe or nozzle must be totally submerged when the liquid level is 15 cm (6 in.) from the bottom of the tank.

205.2 Where the tank is filled from the side, the discharge pipe or nozzle must be totally submerged when the liquid level is 46 cm (18 in.) from the bottom of the tank.

- 8-33-206 Switch Loading:** For the purpose of this Rule, switch loading is the loading of organic liquids with a Reid vapor pressure of less than 4.0 pounds into a delivery vehicle where the previous load was gasoline.
- 8-33-207 Vapor Tight:** A leak of less than 100 percent of the lower explosive limit on a combustible gas detector measured at a distance of 2.5 cm (1 in.) from the source or no visible evidence of air entrainment in the sight glasses of liquid delivery hoses.
- 8-33-208 Vapor Tight - Gasoline Cargo Tank:** A leak that does not exceed the standards specified in the CARB "Certification and Test Procedures for Vapor Recovery Systems on Gasoline Delivery Tanks. (Adopted January 9, 1985)
- 8-33-209 Deleted June 1, 1994**
- 8-33-210 Organic Compound:** Any compound of carbon, excluding methane, carbon monoxide, carbonic acid, metallic carbides or carbonates and ammonium carbonate. (Adopted June 1, 1994)
- 8-33-300 STANDARDS**
- 8-33-301 Final Gasoline Bulk Terminal Limitations:** Effective April 1, 1989, a person shall not load or permit the loading of gasoline into or out of a gasoline bulk terminal unless a CARB certified vapor recovery system is properly connected and used. Such systems shall not emit into the atmosphere more than 9.6 grams of organic compounds per cubic meter (0.08 lbs per 1000 gallons) of organic liquid loaded. Switch loading shall be subject to this standard. Where multiple processors are used, each processor shall be subject to this standard. (Amended October 7, 1987; July 20, 1988; June 1, 1994)
- 8-33-302 Vapor Recovery System Requirement:** A person shall not install a vapor recovery system unless it is CARB certified. (Amended October 7, 1987)
- 8-33-303 Bottom Fill Requirement:** Delivery vehicle loading operations at gasoline bulk terminals shall be accomplished by bottom fill. (Amended October 7, 1987)
- 8-33-304 Delivery Vehicle Requirements:** Gasoline delivery vehicles are subject to the following requirements:
- 304.1 Vapor Integrity Requirement: A person shall not operate, or allow the operation of, a gasoline delivery vehicle unless valid State of California decals, as required by Section 41962 of the Health and Safety Code which attest to the vapor integrity of the tank, are displayed.
- 304.2 Vapor Recovery Requirement: Any gasoline delivery vehicle loading at a facility subject to the requirements of Section 8-33-301 shall be equipped with and use a vapor recovery system.
- 304.3 Deleted October 7, 1987.
- 304.4 Purging Requirement: A person shall not purge gasoline vapor from the tank of a delivery vehicle to the atmosphere. (Renumbered, Amended January 9, 1985, October 7, 1987)
- 8-33-305 Equipment Maintenance:** All equipment associated with delivery and loading operations shall be maintained to be leak free, vapor tight and in good working order.
- 8-33-306 Operating Practices:** Gasoline shall not be spilled, discarded in sewers, stored in open containers, or handled in any other manner that would result in evaporation to the atmosphere.
- 8-33-307 Loading Practices:** Loading operations which use vapor processing equipment shall be operated in such a manner that the vapor processing capacity is not exceeded.
- 8-33-308 Vapor Diaphragm Requirements:** Diaphragms used in vapor storage tanks shall be maintained such that organic compound emissions from the airspace above the diaphragm do not exceed a concentration of 3,000 parts per million expressed as methane and 6.8 kilograms (15 pounds) per day. (Amended October 7, 1987)
- 8-33-309 Vapor Recovery System Requirements - Loading Rack:** The system shall be maintained and operated in a manner that prevents gauge pressure in the delivery tank from exceeding 46cm (18 in.) of water column during product loading. (Adopted January 9, 1985)

8-33-310 Interim Gasoline Bulk Terminal Limitations: Until April 1, 1989, a person shall not load or permit the loading of gasoline into or out of a gasoline bulk terminal unless a CARB certified vapor recovery system is properly connected and used. Such systems shall not emit into the atmosphere more than 66 grams of organic compounds per cubic meter (0.55 lbs per 1000 gallons) of organic liquid loaded. Switch loading shall be subject to this standard. Where multiple processors are used, each processor shall be subject to this standard.

(Adopted July 20, 1988; Amended June 1, 1994)

8-33-400 ADMINISTRATIVE REQUIREMENTS

8-33-401 Equipment Installation and Modification: A person shall not install or modify stationary gasoline storage tanks greater than 1 cubic meter (260 gallons) or vapor recovery equipment, exclusive of repair, unless an authority to construct has been obtained pursuant to Section 301 of Regulation 2, Rule I.

8-33-402 Implementation: Any person who must install or modify vapor recovery equipment as required by Section 8-33-301 of this rule as amended on October 7, 1987, shall meet the following increments of progress:

(a) By April 1, 1988, submit an application to the APCO for Authority to Construct.

(b) By April 1, 1989, be in final compliance.

(Amended October 7, 1987; December 2, 1987)

8-33-500 MONITORING AND RECORDS

8-33-501 Burden of Proof: The burden of proof of eligibility for exemption from this rule is on the applicant. Persons seeking such an exemption shall maintain adequate records and furnish them to the APCO upon request.

8-33-600 MANUAL OF PROCEDURES

8-33-601 Emission Rate Determination (Vapor Processing Systems): The means by which mass emission rates of vapor processing systems are set forth in the Manual of Procedures, Volume IV, ST-34(Amended October 7, 1987; June 1, 1994)

8-33-602 Emission Rate Determination (Vapor Balance System): The means for determining mass emission rates from vapor balance systems are set forth in the Manual of Procedures, Volume IV, ST-3.

8-33-603 Vapor Recovery System Loading Pressure: The means of determining gauge pressure in the delivery truck are set forth in the Manual of Procedures, Volume IV, ST-34. (Adopted January 9, 1985; Amended June 1, 1994)

8-33-604 Vapor Tight - Delivery Vehicles: The means for determining vapor integrity for delivery vehicles are set forth in the Manual of Procedures, Volume IV, ST-33.

(Adopted October 7, 1987)

8-33-605 Analysis of Samples: Samples of gasoline as specified in Section 8-33-203 shall be analyzed as prescribed in the Manual of Procedures, Volume III, Method 13.

(Renumbered January 9, 1985; October 7, 1987)