

**REGULATION 8
ORGANIC COMPOUNDS
RULE 46
MARINE TANK VESSEL TO MARINE TANK VESSEL LOADING**

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REGULATION 8
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RULE 46
MARINE TANK VESSEL TO MARINE TANK VESSEL LOADING

(Adopted July 12, 1989)

8-46-100 GENERAL

~~8-46-101 Description: The purpose of this Rule is to limit emissions of precursor organic compounds into the atmosphere resulting from the loading of liquid into a marine tank vessel from another marine tank vessel.~~

~~8-46-110 Exemption, Loading Events: Sections 8-46-301 through 305 of this Rule shall not apply to loading events of less than 159 cubic meters (1,000 bbls).~~

8-46-200 DEFINITIONS

~~8-46-201 Crude Oil: A naturally occurring mixture consisting predominantly of hydrocarbons and/or sulfur, nitrogen and oxygen derivatives of hydrocarbons which is removed from the earth in a liquid state or is capable of being so removed.~~

~~8-46-202 Emission Control Equipment: Any equipment, machinery, apparatus or device used to recover or reduce emissions of precursor organic compounds from escaping into the atmosphere.~~

~~8-46-203 Gas Tight: A condition that exists when the concentration of precursor organic compounds, measured 1 centimeter from any source, does not exceed 10,000 ppm (expressed as methane) above background.~~

~~8-46-204 Leak Free: A liquid leak of less than four drops per minute.~~

~~8-46-205 Loading Event: An incident or occurrence beginning with the connecting of a marine tank vessel to a marine tank vessel by means of pipes or hoses, the transferring of liquid cargo from one marine tank vessel to the other marine tank vessel and ending with the disconnecting of the pipes or hoses. In addition, emissions resulting from venting of precursor organic compounds within the District prior to or after a loading event are included in that loading event.~~

~~8-46-206 Marine Tank Vessel: Any marine vessel which is specially constructed or converted to carry liquid bulk cargo in tanks.~~

~~8-46-207 Marine Terminal: Any facility or structure constructed to load or unload organic liquid bulk cargo into or out of marine tank vessels.~~

~~8-46-208 Marine Vessel: Any tugboat, tanker, freighter, passenger ship, barge or other boat, ship or watercraft (as defined in Section 39037.1 of the California Health and Safety Code) except those used primarily for recreation.~~

~~8-46-209 Organic Compound, Precursor: Any organic compound as defined in Regulation 1, Section 233 excepting the non-precursor organic compounds in Regulation 1, Section 234.~~

~~8-46-210 Organic Liquid: For the purpose of this Rule, organic liquid is defined as all gasoline, gasoline blending stocks, aviation gas and aviation fuel (JP-4 type) and crude oil.~~

8-46-300 STANDARDS

~~8-46-301 Marine Tank Vessel To Marine Tank Vessel Loading Limit: By July 1, 1991, a person shall not conduct a loading event within the District unless:~~

~~301.1 The emissions of precursor organic compounds are limited to 5.7 grams per cubic meter (2 lbs per 1000 bbls) of liquid loaded into a marine tank vessel from another marine tank vessel, or~~

~~301.2 The emissions of precursor organic compounds are reduced at least 95 percent by weight from uncontrolled conditions.~~

- ~~8-46-302~~ **Emission Control Equipment:** The emission control equipment shall be designed and operated to collect and process all emissions of precursor organic compounds resulting from a loading event.
- ~~8-46-303~~ **Operating Practice:** Effective July 1, 1991, all hatches, pressure relief valves, connections, gauging ports and vents associated with a loading event shall be maintained to be leak free and gas tight. The owner or operator of any equipment associated with the loading event shall maintain that equipment to be leak free and gas tight.
- ~~8-46-304~~ **Equipment Maintenance:** Effective July 1, 1991, a person shall not initiate or continue a loading event unless:
- ~~304.1~~ The owners or operators of the marine tank vessels certify that the marine tank vessels are leak free, gas tight and in good working order, and
 - ~~304.2~~ Loading ceases any time gas or liquid leaks as defined by Sections 8-46-203 and 204, respectively, are discovered. Loading may continue only after leak(s) have been repaired.
- ~~8-46-305~~ **Ozone Excess Day Prohibition:** Effective July 15, 1989, and thereafter, loading events shall not be allowed on any day that the District predicts an excess of any Federal Ambient Air Quality Standard for ozone unless the emissions of precursor organic compounds meet the standards of Section 8-46-301.

~~8-46-400~~ **ADMINISTRATIVE REQUIREMENTS**

~~8-46-401~~ **Compliance Schedule:**

- ~~401.1~~ Any owner or operator of a marine tank vessel to be used in lightering operations subject to Sections 8-46-301 through 305 of this Rule shall, by January 1, 1990, submit to the APCO a control plan which describes the steps and schedule that will be taken to achieve compliance with the requirements of this Rule.
- ~~401.2~~ Any owner or operator of a marine terminal shall, by January 1, 1990, submit to the APCO a control plan which describes the steps and schedule that will be taken to achieve compliance with the requirements of this Rule.
- ~~401.3~~ This plan must be updated annually until final compliance with Section 8-46-301 is achieved.
- ~~401.4~~ Failure to meet any provision of a plan submitted in accordance with Section 8-46-401 is considered a violation.

~~8-46-402~~ **Safety/Emergency Operations:** Nothing in this rule shall be construed as to:

- ~~402.1~~ Require any act or omission that would be in violation of any regulation or other requirement of the United States Coast Guard or;
- ~~402.2~~ Prevent any act or omission that is necessary to secure the safety of a vessel or for saving life at sea.

~~8-46-403~~ **Notification:** Until July 1, 1993, the operator of a marine tank vessel intending to engage in a loading event shall notify the APCO. Notification should be in writing although notification by telephone or in person may be made during normal District business hours. Notification must be received by the APCO at least 24 hours prior to the loading event and include names of marine tank vessels, operators, cargo, location, plus estimated start and duration of loading event.

~~8-46-500~~ **MONITORING AND RECORDS**

~~8-46-501~~ **Record Keeping:** Effective January 1, 1990, a person subject to Sections 8-46-110, and 301 through 305 of this Rule shall maintain operating records regarding each loading event. The records shall be maintained for at least two years and shall be made available to the APCO upon request. The records shall include but are not limited to:

- ~~501.1~~ The location of each loading event.
- ~~501.2~~ The company responsible for the operation of the loading event.
- ~~501.3~~ The date(s) and times at which the marine tank vessels arrived and departed from location of the loading event.

- ~~501.4 The name, registry of the vessels and legal owner of the marine tank vessels participating in the loading event.~~
- ~~501.5 The prior cargo carried by the receiving marine tank vessel.~~
- ~~501.6 The type and amount of liquid cargo loaded into the receiving marine tank vessel.~~
- ~~501.7 The condition of the receiving tanks prior to being loaded,(i.e., cleaned, crude oil washed, gas freed, etc).~~
- ~~501.8 Equipment maintenance certification required in accordance with Section 8-46-304.~~
- ~~501.9 Amount of ballast water added to unsegregated ballast tanks.~~
- ~~501.10 Description of operating procedure to prevent venting while ballasting into unsegregated ballast tanks.~~
- ~~501.11 The departure and arrival ports or marine terminals for all the marine tank vessels participating in a loading event.~~

~~**8-46-502 Burden of Proof:** Persons seeking to demonstrate compliance with Subsection 8-46-301 must maintain adequate test data and provide verification opportunities to the APCO on request.~~

~~**8-46-600 MANUAL OF PROCEDURES**~~

~~**8-46-601 Determination of Emissions:** Emissions of precursor organic compounds as specified in Section 8-46-301 shall be measured as prescribed in the Manual of Procedures, Volume IV, ST-34. This test shall be conducted so that the emissions from at least the last 50 percent of the total liquid loaded are included.~~

~~**8-46-602 Efficiency and Mass Emission Determination (Vapor Processing System):** The means by which mass emission rates of vapor processing systems are determined is set forth in the Manual of Procedures, Volume IV, ST-4.~~

~~**8-46-603 Leak Tests And Gas Tight Determinations:** The measurement of precursor organic compounds from equipment to determine whether they are leak free and gas tight shall be in accordance with the provisions contained in EPA Reference Method 21.~~