

Chapter 129 -- Standards for Sources

MOBILE SOURCES

§129.81. Organic liquid cargo vessel loading and ballasting.

The following provisions apply in the counties of Delaware and Philadelphia:

(1) A person may not cause or permit the loading of gasoline into an organic liquid cargo vessel unless the following exist:

(i) The VOC vapors displaced by the loading operation are processed through a vapor recovery or destruction device operated to reduce the VOCs by at least 90% by weight.

(ii) The vapor collection and transport system employed to carry VOCs to the vapor control system is maintained and operated so that it prevents the following:

(A) A reading equal to or greater than 100% of the lower explosive limit (LEL), measured as propane, at 1 inch (2.5 centimeters) from all points on the perimeter of a potential leak source when measured by the method referenced in §139.14 (relating to emissions of VOCs) during loading operations.

(B) Avoidable liquid leaks during loading operations.

(C) Visually or audibly detectable leaks in the organic liquid cargo vessel's cargo tanks, hatch covers, storage tanks pressure/vacuum relief valves and associated vapor and liquid lines during loading.

(iii) The pressure and vacuum relief valves on the liquid cargo vessel are set to release at no less than 0.7 psig (4.8 kilopascals) of pressure or 0.3 psig (2.1 kilopascals) of vacuum or the highest allowable pressure and vacuum as specified in State or local fire codes, the National Fire Prevention Association guidelines or other National consensus standards acceptable to the Department.

(2) Except as provided in paragraph (4), a person may not cause or permit the emission of VOCs from the ballasting of an organic liquid cargo vessel containing crude oil or gasoline unless the emissions are processed through a vapor recovery or destruction device operated so as to reduce the VOCs by at least 90% by weight.

(3) Compliance with this section shall be achieved in accordance with the following:

(i) Installation of the piping, pressure relief valves and other devices necessary to collect and transport VOCs from affected organic liquid vessel cargo compartments to the required VOC vapor recovery/destruction system shall be completed by September 28, 1996.

(ii) Installation of vapor recovery devices/destruction devices at marine terminals shall be completed by September 28, 1994.

(iii) Installation of vessel mounted vapor recovery or destruction devices shall be completed by September 28, 1996.

(4) Other provisions of this section notwithstanding, the Department may allow a facility to implement permanent and enforceable measures, including recordkeeping and reporting requirements, which are approved by the EPA to reduce the emission of VOCs from ballasting of an organic liquid cargo vessel containing crude oil or gasoline as follows:

(i) By September 28, 1992, a minimum of 40% of the total volume of receipts of crude oil and gasoline during a specified period shall be delivered to the facility in vessels which do not ballast, such as barges, or in vessels which do not emit VOCs when ballasted, such as tankers using segregated ballast tanks.

(ii) By September 28, 1996, a minimum of 65% of the total volume of receipts of crude oil and gasoline during a specified period shall be delivered to the facility in vessels which do not ballast, such as barges, or in vessels which do not emit VOCs when ballasted, such as tankers using segregated ballast tanks.

(iii) By January 1, 2003, a minimum of 90% of the total volume of receipts of crude oil and gasoline during a specified period shall be delivered to the facility in vessels which do not ballast, such as barges, or in vessels which do not emit VOCs when ballasted, such as tankers using segregated ballast tanks.

(iv) By January 1, 2010, 98% of the total volume of receipts of crude oil and gasoline during a specified period shall be delivered to the facility in vessels which do not ballast, such as barges, or in vessels which do not emit VOCs when ballasted, such as tankers using segregated ballast tanks.

(5) Compliance with paragraphs (2)-(4) may also be achieved by meeting the requirements for equivalency in §129.51(a) (relating to general).