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(21) The procedures for ballasting and deballasting cargo tanks.

(22) The step by step procedure for the inspection of the COW system by vessel personnel before COW operations begin that includes the procedure for inspecting and calibrating each instrument. (Operational Checklist)

(23) The intervals for on board inspection and maintenance of the COW equipment. Informational references to technical manuals supplied by the manufacturers may be included in this part of the manual.

(24) A list of crude oils that are not to be used in COW operations.


(b) In addition to meeting paragraph (a) of this section, each Crude Oil Washing Operations and Equipment Manual on a tank vessel having a COW system under § 157.10(a)(2) or § 157.10(c)(2) must include the following:

(1) The procedure to meet § 157.166.

(2) The procedures to meet § 157.155(b).

§ 157.142 Letter of acceptance: Inspections.

If the inspections under § 157.140 are passed, the Coast Guard issues to the tank vessel a letter that states that the vessel complies with this subpart.

§ 157.144 Tank vessels of the same class: Inspections.

(a) If more than one tank vessel is constructed from the same plans, the owner or operator may submit a written request to the Commandant (CG–543), U.S. Coast Guard, 2100 2nd St. SW., Stop 7581, Washington, DC 20593–7581, for only one of those tank vessels to be inspected under § 157.140.

(b) Only one tank vessel of the class is inspected under § 157.140, if the Commandant accepts the request submitted under paragraph (a) of this section.

§ 157.146 Similar tank design: Inspections on U.S. tank vessels.

(a) If a U.S. tank vessel has tanks similar in dimensions and internal structure, the owner or operator may submit a written request to the Officer in Charge, Marine Inspection, of the zone in which the COW system is inspected, for only one of those tanks to be inspected under § 157.140(a)(1).
§ 157.147 Similar tank design: Inspections on foreign tank vessels.

(a) If a foreign tank vessel has tanks similar in dimensions and internal structure, the owner or operator may submit a written request to the Commandant (CG–543), U.S. Coast Guard, 2100 2nd St. SW., Stop 7581, Washington, DC 20593–7581, for only one of those tanks to be inspected under § 157.140(a)(1).

(b) Only one tank of a group of tanks similar in dimensions and internal structure is inspected under § 157.140(a)(1), if the Commandant accepts the request submitted under paragraph (a) of this section.


(a) Before the inspections under § 157.140 are conducted by the Coast Guard, the owner or operator of a foreign tank vessel that is to be inspected must submit to the Coast Guard inspector evidence that the COW system has been installed in accordance with the plans accepted under § 157.106.

(b) Before the inspections under § 157.140 are conducted by the Coast Guard, the owner or operator of a tank vessel that is to be inspected must submit to the Coast Guard inspector evidence that the COW piping system has passed a test of 1½ times the design working pressure.


After passing the inspections under § 157.140, the owner, operator, and master shall ensure that the following are recorded in the Crude Oil Washing Operations and Equipment Manual approved under § 157.112:

(a) The results of the inspections under § 157.140.

(b) The following characteristics used to pass the inspections under § 157.140:

(1) Pressure and flow of the crude oil pumped to the COW machines.

(2) Revolutions, number of cycles, and length of cycles of each COW machine.

(3) Pressure and flow of the stripping suction device.

(4) Number and location of COW machines operating simultaneously in each cargo tank.

(5) Volume of water used for water rinsing.

(6) Trim conditions of the tank vessel.

PERSONNEL

§ 157.152 Person in charge of COW operations.

The owner, operator, and master of a tank vessel having a COW system under § 157.10(e), § 157.10(a)(2), or § 157.10c(b)(2) shall ensure that the person designated as the person in charge of COW operations—

(a) Knows the contents in the Crude Oil Washing Operations and Equipment Manual approved by the Coast Guard under § 157.112 or by the government of the vessel’s flag state;

(b) On at least two occasions, has participated in crude oil washing of cargo tanks, one of those occasions occurring on:

(1) The tank vessel on which the person assumes duties as the person in charge of COW operations; or

(2) A tank vessel that is similar in tank design and which has COW equipment similar to that used on the tank vessel on which the person assumes duties as the person in charge of COW operations; and

(c) Has one year or more of tank vessel duty that includes oil cargo discharge operations and:

(1) Crude oil washing of cargo tanks; or

(2) Has completed a training program in crude oil washing operations that is approved by the Coast Guard or the government of the vessel’s flag state.