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(c) A fire protection system required by this part must meet part 34 of this chapter or be specifically approved by the Commandant (CG–ENG).


§ 153.461 Electrical bonding of independent tanks.

An independent metallic cargo tank that carries a flammable or combustible cargo must be electrically bonded to the tankship's hull.

§ 153.462 Static discharges from inert gas systems.

An inert gas system on a tank that carries a flammable or combustible cargo must not create static arcing as the inert gas is injected into the tank.

§ 153.463 Vent system discharges.

The discharge of a venting system must be at least 10 m (approx. 32.8 ft) from an ignition source if:

(a) The cargo tank is endorsed to carry a flammable or combustible cargo; and

(b) Table 1 requires the cargo to have a PV venting system.

§ 153.465 Flammable vapor detector.

(a) A tankship that carries a flammable or combustible cargo must have two vapor detectors that meet § 35.30–15(b) of this chapter.

(b) At least one of the vapor detectors in paragraph (a) of this section must be portable.

§ 153.466 Electrical equipment.

A tankship carrying a flammable or combustible cargo under this part must meet subchapter J of this chapter.

§ 153.470 System for discharge of NLS residue to the sea: Categories A, B, C, and D.

Unless waived under § 153.491, each ship that discharges Category A, B, or C NLS residue, or Category D NLS residue not diluted to 1/10th of its original concentration, into the sea under §§ 153.1126 and 153.1128 must have an NLS residue discharge system meeting the following:

(a) Minimum diameter of an NLS residue discharge outlet. The outlet of each NLS residue discharge system must have a diameter at least as great as that given by the following formula:

\[ D = \frac{(Q_d)(\cos \phi)}{5L} \]

where:

- \( D \) = Minimum diameter of the discharge outlet in meters.
- \( Q_d \) = Maximum rate in cubic meters per hour at which the ship operator wishes to discharge slops (note: \( Q_d \) affects the discharge rate allowed under §153.1126(b)(2)).
- \( L \) = Distance from the forward perpendicular to the discharge outlet in meters.
- \( \phi \) = The acute angle between a perpendicular to the shell plating at the discharge location and the direction of the average velocity of the discharged liquid.

(b) Location of an NLS residue discharge outlet. Each NLS residue discharge outlet must be located—

1. At the turn of the bilge beneath the cargo area; and
2. Where the discharge from the outlet is not drawn into the ship's seawater intakes.

(c) Location of dual NLS residue discharge outlets. If the value of 6.45 for \( K \) is used in §153.1126(b)(2), the NLS residue discharge system must have two outlets located on opposite sides of the ship.


§ 153.480 Stripping quantity for Category B and C NLS tanks on ships built after June 30, 1986: Categories B and C.

Unless waived under § 153.491, Category B and C NLS cargo tanks on each ship built after June 30, 1986 must have stripping quantities determined under §153.1604 that are less than—

(a) 0.15 m³ if Category B; and

(b) 0.35 m³ if Category C.