Coast Guard, DHS § 154.1125

(1) Explosion-proof lighting fixtures; and
(2) Through runs of cable.

(i) A space that has cargo piping may only have:
(1) Explosion-proof lighting fixtures; and
(2) Through runs of cable.

(j) A gas-dangerous zone on the weather deck may only have:
(1) Explosion-proof equipment that is for the operation of the vessel; and
(2) Through runs of cable.

(k) A space, except those under paragraphs (e) through (j) of this section, that has a direct opening to a gas-dangerous space or zone may only have the electrical equipment allowed in the gas-dangerous space or zone.

§ 154.1015 Lighting in gas-dangerous space.

(a) Each gas-dangerous space that has lighting fixtures must have at least two branch circuits for lighting.

(b) Each switch and each overcurrent protective device for any lighting circuit that is in a gas-dangerous space or zone may only have the electrical equipment allowed in the gas-dangerous space or zone.

§ 154.1020 Emergency power.

The emergency generator must be designed to allow operation at the final angle of heel under §154.230(a).


Each liquefied flammable gas vessel and each liquefied toxic gas vessel must have an exterior water spray system that meets §§154.1110 through 154.1135.

§ 154.1110 Areas protected by system.

Each water spray system must protect:
(a) All cargo tank surfaces that are not covered by the vessel’s hull structure or a steel cover;
(b) Each cargo tank dome;
(c) Each on-deck storage vessel for flammable or toxic liquefied gases;
(d) Each cargo discharge and loading manifold;
(e) Each quick-closing valve under §§154.530, 154.532, and 154.538, and other control valves essential to cargo flow;
(f) Each boundary facing the cargo area of each superstructure that contains accommodation, service, or control spaces;
(g) Each boundary facing the cargo area of each deckhouse that contains accommodation, service, or control spaces; and
(h) Each boundary of each deckhouse that is within the cargo area and that is manned during navigation of the vessel or during cargo transfer operations, except the deckhouse roof if it is 2.4 m (8 ft.) or higher above the cargo containing structure.

§ 154.1115 Discharge.

(a) The discharge density of each water spray system must be at least:
(1) 10,000 cm³/m²/min. (0.25 gpm/ft.²) over each horizontal surface; and
(2) 4,000 cm³/m²/min. (0.10 gpm/ft.²) against vertical surface, including the water rundown.

(b) The water spray protection under §154.1110 (d) and (e) must cover an area in a horizontal plane extending at least 0.5 m (19 in.) in each direction from the pipes, fittings, and valves, or the area of the drip tray, whichever is greater.

§ 154.1120 Nozzles.

(a) Nozzles for the water spray system must be spaced to provide the minimum discharge density under §154.1115 in each part of the protected area.

(b) The vertical distance between water spray nozzles for the protection of vertical surfaces must be 3.7 m (12 ft.) or less.

§ 154.1125 Pipes, fittings, and valves.

(a) Each pipe, fitting, and valve for each water spray system must meet Part 56 of this chapter.

(b) Each water spray main that protects more than one area listed in §154.1110 must have at least one isolation valve at each branch connection.

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