

SC70 Cargo tank vent systems and selection of electrical equipment

(1985)
(Rev.1
May 2001)
(Rev.2
Nov 2005)
(Rev.3
Oct 2010)
(Rev.4
Feb 2021)

~~(Reg. II-2/11.6.2.2)~~

Interpretation of Regulations 11.6.2 and 4.5.4.3.1 of SOLAS Chapter II-2 as amended by IMO resolutions up to MSC.421(98)

~~11.6 Protection of cargo tank structure against pressure or vacuum in tankers~~

~~6.2 openings for small flow by thermal variations~~

Text: SOLAS regulation II-2/11.6.2 reads as follows.

6.2 Openings for small flow by thermal variations

Openings for pressure release required by paragraph 6.1.1 shall:

- .1 have as great a height as is practicable above the cargo tank deck to obtain maximum dispersal of flammable vapours, but in no case less than 2 m above the cargo tank deck; and
- .2 Be arranged at the furthest distance practicable but not less than 5_m from the nearest air intakes and openings to enclosed spaces containing a source of ignition and from deck machinery and equipment which may constitute an ignition hazard. Anchor windlass and chain locker openings constitute an ignition hazard.

For tankers constructed on or after 1 January 2017, the openings shall be arranged in accordance with regulation 4.5.3.4.1.

Note:

1. Changes introduced in Rev.1 are to be implemented by IACS Members and Associates from 1 July 2001.
2. Rev.3 of this UI is to be uniformly implemented by IACS Societies on ships contracted for construction on or after 1 January 2012.
3. The 'contracted for construction' date means the date on which the contract to build the vessel is signed between the prospective owner and the shipbuilder. For further details regarding the date of 'contract for construction', refer to Procedural Requirement (PR) No. 29.
4. Rev.4 of this UI is to be uniformly implemented by IACS Societies on ships contracted for construction on or after 1 July 2022.

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(cont)

Interpretation:

Area Classification is to be carried out in accordance with the principles laid down in IEC Publication 60092-502:1999: ~~Electrical installations in ships—Tankers—Special features.~~

A1 Areas on open deck, or semi-enclosed spaces on open deck, within 3m of cargo tank ventilation outlets which permit the flow of small volumes of vapour or gas mixtures caused by thermal variation are defined as Zone 1 as specified by IEC 60092-502:1999 para 4.2.2.7.

A2 Areas within 2m beyond the zone specified in A1 above are to be considered Zone 2 (as opposed to 1.5m as specified by IEC 60092-502:1999 para 4.2.3.1).

A3 Electrical equipment or cables shall not normally be installed in hazardous areas. Where essential for operational purposes, electrical equipment may be installed in accordance with IEC 60092-502:1999: ~~Electrical installations in ships—Tankers—Special features.~~

~~(Reg. II-2/4.5.3.4.1)~~

~~5.3.4 Vent outlets for cargo handling and ballasting~~

~~5.3.4.1 Vent outlets for cargo loading, discharging and ballasting required by regulation 11.6.1.2 shall:~~

~~Text: SOLAS regulation II-2/4.5.3.4.1 reads as follows.~~

~~.3 Not less than 10_m measured horizontally from the nearest air intakes and openings to enclosed spaces containing a source of ignition and from deck machinery and equipment which may constitute an ignition hazard.~~

Interpretation:

Area Classification is to be carried out in accordance with the principles laid down in IEC Publication 60092-502:1999 ~~Electrical installations in ships—Tankers—Special features.~~

B1 Areas on open deck, or semi-enclosed spaces on open deck, within a vertical cylinder of unlimited height and 6m radius centred upon the centre of the outlet, and within a hemisphere of 6m radius below the outlet which permit the flow of large volumes of vapour, or gas mixtures during loading/discharging/ballasting are defined as Zone 1 as specified by IEC 60092-502:1999 para 4.2.2.8.

B2 Areas within 4m beyond the zone specified in B1 above are defined as Zone 2 as specified by IEC 60092-502:1999 para 4.2.3.2.

B3 Electrical equipment or cables shall not normally be installed in hazardous areas. Where essential for operational purposes, electrical equipment may be installed in accordance with IEC 60092-502:1999: ~~Electrical installations in ships—Tankers—Special features.~~

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