

SC151 Location of the main generating station with respect to the main switchboard and associated section boards

(May 1999)

(Chapter II-1, Reg. 41.3)

SOLAS Regulation Chapter II-1/41.3 reads:

The main switchboard shall be so placed relative to one main generating station that, as far as is practicable, the integrity of the normal electrical supply may be affected only by a fire or other casualty in one space. An environmental enclosure for the main switchboard, such as may be provided by a machinery control room situated within the main boundaries of the space, is not to be considered as separating the switchboards from the penetrators.

Definitions

Main generating station is the space where the main source of electrical power is situated.

Main source of electrical power is a source intended to supply electrical power to the main switchboard for distribution to all services necessary for maintaining the ship in normal operational and habitable condition.

Main switchboard is a switchboard which is directly supplied by the main source of electrical power and is intended to distribute electrical energy to the ship's services.

Machinery space, for the purpose of this UI, is to be taken as extending from the moulded base line to the margin line and between the extreme main transverse watertight bulkheads, bounding the spaces containing the main and auxiliary propulsion machinery, boilers serving the needs of propulsion, and all permanent coal bunkers. In the case of unusual arrangements, the Administration may define the limits of the machinery space.

Interpretations

The main generating station is to be situated within the machinery space, i.e. within the extreme main transverse watertight bulkheads.

Any bulkhead between the extreme main transverse watertight bulkheads is not regarded as separating the equipment in the main generating station provided that there is access between the spaces.

The main switchboard is to be located as close as practicable to the main generating station, within the same machinery space and the same vertical and horizontal A60 fire boundaries.

Where essential services for steering and propulsion are supplied from section boards these and any transformers, converters and similar appliances constituting an essential part of electrical supply system are also to satisfy the foregoing.

Note: This UI SC 151 is to be uniformly implemented by IACS Members and Associates from 1 January 2000.

