

Ventilators installed in Tanker Cargo Pump Rooms

Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Part H
Guidance for the Survey and Construction of Steel Ships Part H

Reason for Amendment

The SOLAS requirements regarding the ventilation air change ratio for ventilators installed in cargo pump rooms specify that there are to be at least 20 air changes per hour while IEC60092-502, on the other hand, specifies that at least 30 air changes per hour .

The ClassNK Rules require the ventilation air change ratio to be at least 30 air changes per hour for tankers. This is because IEC60092-502 as well as both the IGC and IBC Codes require at least 30 changes per hour for areas categorized as hazardous by SOLAS. In addition, the ClassNK Rules also require that the electric motors for driving fans be placed outside ventilation ducts as specified by both the IGC and IBC Codes, despite the fact though such an arrangement is not clearly specified in either SOLAS or the relevant IEC Standards.

However, some relevant industry members approached IACS about the discrepancies between SOLAS, the IEC Standards, the IBC Code and the IGC Code regarding the treatment of these ventilators, and have asked that such inconsistencies be eliminated. In response, IACS began work on a UR that would eliminate such differences and serve as a common treatment for such ventilator issues.

Since a tanker does not carry the same types of dangerous cargoes that a ship carrying liquefied gases in bulk or a ship carrying dangerous chemicals in bulk normally carries, IACS came to conclusion that the SOLAS requirement of at least 20 air changes per hour was more than sufficient for tankers. IACS also came to the conclusion that the electric motors for the driving fans of tankers do not need to be placed outside ventilation ducts.

Accordingly, relevant requirements related to ventilators installed in tanker cargo pump rooms were amended in response to relevant industry member requests and in accordance with the IACS UR requiring such requirements that is currently being developed.

Outline of Amendment

- (1) Amended requirements related to the arrangement of the electric motors of ventilators installed in tanker cargo pump rooms.
- (2) Amended requirements related to the ventilation air change ratios for ventilators installed in tanker cargo pump rooms.