

Specifications of Fixed Fire-extinguishing Systems, etc.

Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Part R
Guidance for the Survey and Construction of Steel Ships Part R
Guidance for the Survey and Construction of Passenger Ships

Reason for Amendment

Requirements related to the fixed local application fire-fighting systems, fixed fire-extinguishing systems, automatic sprinklers and fixed emergency fire pumps specified in SOLAS regulation II-2/10.5.6 and Chapters 5, 8, and 12 of the Fire Safety Systems Code (FSS Code) were reviewed by IMO, and amendments both to SOLAS and to the FSS Code were adopted as Resolutions MSC.338(91) and MSC.339(91) respectively at the 91st Session of the IMO Maritime Safety Committee (MSC91) held in November 2012.

More specifically, SOLAS regulations related to the installation requirements for fixed local application fire-fighting systems for the protection of internal combustion engines were amended. In addition to the amendments made to SOLAS, FSS Code requirements for fixed gas fire-extinguishing systems related to the discharge time of carbon dioxide systems for the protection of cargo spaces carrying containers, etc. were added, and requirements for automatic sprinklers and fixed emergency fire pumps were clarified in consideration of MSC/Circ.1120.

Accordingly, all relevant requirements were amended based upon MSC.338(91) and MSC.339(91).

Outline of Amendment

The main details of the amendment are as follows:

- (1) Specified that internal combustion engines installed in machinery spaces of category A above 500m³ in volume are, irrespective of the purposes of such engines, to be protected by fixed local application fire-fighting systems.
- (2) With regards to fixed gas fire-extinguishing systems, added requirements related to the discharge time of carbon dioxide systems for the protection of cargo spaces carrying containers, etc. Moreover, deleted requirements for systems using gaseous products for fuel combustion.
- (3) Specified criteria for calculating the application rates of automatic sprinklers as well as detailed measurements for the freeze protection of the diesel engines of fixed emergency fire pumps.