Details of Pipe and Duct Penetrations

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

Reason for Amendment

The arrangements of pipes and ducts passing through “A” or “B” class divisions are to be tested in accordance with the International Code for Application of Fire Test Procedures (FTP Code). Such tests, however, are not required for penetrations which satisfy the requirements for penetrations specified in section 9.3 of Part R of the Rules for the Survey and Construction of Steel Ships

Although Part R of the Guidance for the Survey and Construction of Steel Ships specifies more specific penetration details for “A” or “B” class divisions based upon the requirements prescribed in the Rules (as set out in Annex R9.3.1) when tests based upon the FTP Code are not required, there existed some inconsistencies between the details of penetrations prescribed in Annex R9.3.1 and the details of penetrations prescribed in Part R of the Rules. Relevant requirements, therefore, were amended to eliminate these inconsistencies.

Outline of Amendment

(1) Clarified the expressions related to pipe diameters in paragraph 9.3.2 of Part R of the Rules.
(2) Amended the expressions related to the fitting of automatic fire dampers on both sides of divisions in paragraph R9.7.3 of the Guidance for the Survey and Construction of Steel Ships to remove any mention that such arrangement is required “in principle”.
(3) Amended the figures illustrating the penetrations of ducts for “A” class divisions in Annex R9.3.1.
(4) Removed the inconsistencies between the expressions used in English (for non-Japanese-flagged vessels) and those used in Japanese (for Japanese-flagged vessels).

Amended Requirements

Rules for the Survey and Construction of Steel Ships
Part R: 9.3.2
Guidance for the Survey and Construction of Steel Ships
Part R: R9.7.3, Annex R9.3.1 2.1.2, Fig.2.1.2-1, Fig.2.1.2-2, Fig.2.1.2-3, 2.1.3, Fig.2.1.3-1, Fig.2.1.3-2, 2.2