

Mechanical Joints and Flexible Hose Assemblies

Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Part D
Guidance for the Survey and Construction of Steel Ships Part D
Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use
Rules for the Survey and Construction of Passenger Ships
Rules for the Survey and Construction of Inland Waterway Ships

Reason for Amendment

IACS UR P2.12 specifies requirements related to non-metallic flexible hoses, etc. and that such hoses are to be subject to fire resistance tests when used for flammable oil and sea water pipes, in cases where the failure of said pipes may result in flooding.

IACS amended the aforementioned requirements so that such tests may be omitted for those hoses which are arranged on open decks and are not used for fuel oil pipes since it is unlikely that said hoses will be exposed to fire. This amendment was adopted as IACS UR P2.12(Rev.2) in March 2016. IACS also amended the requirements of the fire resistance tests, etc. for mechanical joints. This amendment was adopted as IACS UR P2.7.4(Rev.8).

ClassNK has been already specified that fire resistance tests may be omitted for flexible hoses which are arranged on open decks for the reason given above. Therefore, relevant requirements were amended to clarify that fire resistance tests may not be omitted for flexible hoses which are used for fuel oil pipes, even in cases where the hoses are arranged on open decks.

Furthermore, IACS also amended UR P2.11, which specifies test methods for mechanical joints, to allow alternative test methods to be employed in cases where required tests cannot be conducted due to the test pieces being too large for the testing equipment. This amendment was adopted as IACS P2.11(Rev.4).

Accordingly, relevant requirements were amended in accordance with IACS UR P2.7.4(Rev.8), P2.11(Rev.4) and P2.12(Rev.2).

Outline of Amendment

- (1) Amended relevant requirements to specify that non-metallic flexible hoses which are arranged on open decks do not need to be of a fire resistant type in cases where they are not used as fuel oil pipes.
- (2) Amended relevant requirements to specify that mechanical joints used for lubricating oil pipes, etc. which are arranged on open decks do not need to be of a fire resistant type.
- (3) Specified that alternative test methods, which are considered to be at least equivalent to tests conducted normally and are deemed appropriate by the Society, may be used in cases where the required test cannot be conducted due to the test pieces being too large for the testing equipment.

Amended Requirements

Rules for the Survey and Construction of Steel Ships

Part D: 12.3.3, 12.3.4, Fig. D12.1, Table D12.8

Guidance for the Survey and Construction of Steel Ships

Part D: D12.3.4

Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use

2.4.2, 9.3.2

Rules for the Survey and Construction of Passenger Ships Part 5 1.1.1

Rules for the Survey and Construction of Inland Waterway Ships Part 7 10.3.3, 10.3.4,

Table 7.10.8, Fig.7.10.1