

Cable and Pipe Penetrations

Amended Guidance

Guidance for the Survey and Construction of Steel Ships Parts H, and R
Guidance for the Survey and Construction of Passenger Ships
Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use

Reason for Amendment

Although the ClassNK Rules specifies that the watertightness or gas-tightness of bulkheads and decks is to not be impaired by cable penetrations, the ClassNK Guidance only specifies test procedures for confirming the watertightness of such cable penetrations.

Meanwhile, it was recognized that some existing cable transit products are, however, designed to hold both cables and pipes and that some members of relevant industries have being expressed their desire for the establishment of test procedures to confirm the water and gas-tightness of penetrations for pipes as well.

In response, NK developed specific test procedures to confirm and to approve the gas-tightness of cable and water and gas-tightness for pipe penetrations based upon its knowledge of such penetrations.

Accordingly, relevant requirements were amended to incorporate these procedures.

Outline of Amendment

- (1) Amended test procedures for the confirmation and approval of the watertightness in Chapter 1 of Part 4 of the Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use so that the watertight pipe penetrations can be approved under this procedure as well.
- (2) Added test procedures for the confirmation and approval of the gas-tightness of cable and pipe penetrations to Chapter 1 of Part 4 of the Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use.
- (3) Amended Chapter 2 of both Part H and Part R of the Guidance for the Survey and Construction of Steel Ships to clarify the organization and wording of requirements for cable penetrations situated in A Class and B Class divisions.

Amended Requirements

Guidance for the Survey and Construction of Steel Ships
Part H: H2.9.15
Part R: Annex R9.3.1 1.1.1, 2.3.1, 2.3.2
Guidance for the Survey and Construction of Passenger Ships
Part 3: 6.3.2
Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use
Part 4: 1.1.1, 1.3.2, 1.3.3, 1.4.3, 1.6.1, 1.7.1, 1.13.3