

Computer Based Systems

Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Part D
Rules for High Speed Craft
Rules for the Survey and Construction of Inland Waterway Ships
Guidance for the Survey and Construction of Steel Ships Part D
Guidance for High Speed Craft
Guidance for the Survey and Construction of Inland Waterway Ships

Reason for Amendment

IACS UR E22(Rev.1) specifies requirements related to composition and function of computer based systems used for machinery systems such as monitoring systems, etc. These requirements have already been incorporated to the ClassNK Rules.

In recent years, the number of ships fitted with various computer based systems has been increasing as a reflection of the continuous advances made in computer technologies. Therefore, the necessity for security measures which reduce risks specific to computer based systems such as computer viruses, etc. has also increased.

For this reason, IACS discussed way to clarify requirements related to computer based systems. As a result of these discussions, IACS adopted UR E22(Rev.2) in June 2016, which specifies responsibilities of stakeholders, security measures for software and hardware, and quality management for said systems.

Accordingly, relevant requirements were amended in accordance with IACS UR E22(Rev.2).

Outline of Amendment

- (1) Added requirements related to responsibilities of stakeholders in connection with computer based systems.
- (2) Amended requirements related to the software and hardware used in computer based systems.

Amended Requirements

Rules for the Survey and Construction of Steel Ships
Part D: 18.1.1, 18.1.3, 18.2.7
Rules for High Speed Craft Part 2 2.1.2, Part 9 12.1.1
Rules for the Survey and Construction of Inland Waterway Ships Part 7 14.1.1, 14.1.3, 14.2.7
Guidance for the Survey and Construction of Steel Ships
Part D: D18.1.1, D18.1.3, D18.2.7, Annex D18.1.1
Guidance for High Speed Craft Part 2 2.1.2, Part 9 Chapter 12
Guidance for the Survey and Construction of Inland Waterway Ships Part 7 14.1.1, 14.1.3, 14.2.7