

Propeller

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 the Survey and Construction of Inland Waterway Ships

Reason for Amendment

IACS Unified Requirement (UR) K3(Corr.2) specifies formulae for calculating the pull-up lengths for the fitting of keyless propellers as well as requirements related to the environmental conditions, material constants, conditions of contact areas between propeller bosses and shafts, and methods for propeller securing.

Although the requirements in the Rules are specified based upon UR K3(Corr.2) and intended to be equivalent with the those in the UR, the formulae and material constants, etc. specified in the Rules are simplified versions of the ones in the UR and the correspondence between the two is somewhat unclear in some respects.

Accordingly, relevant requirement were amended in order to clarify the correspondence with UR K3(Corr.2).

In addition, requirements relevant to stainless steel forged propellers and highly skewed propellers currently specified in the Part D of the Guidance and the Guidance for Inland Waterway Ships were respectively moved to Part D of the Rules and the Rules for Inland Waterway Ships as part of a comprehensive review of the ClassNK Rules.

Outline of Amendment

The main contents of this amendment are as follows:

- (1) Moved requirements related to coefficient K used in the formulae for the blade thickness of stainless steel forged propellers from Part D of the Guidance and the Guidance for Inland Waterway Ships respectively to Part D of the Rules and the Rules for Inland Waterway Ships.
- (2) Moved requirements related to the formulae of blade thickness for highly skewed propellers from Part D of the Guidance and the Guidance for Inland Waterway Ships respectively to Part D of the Rules and the Rules for Inland Waterway Ships.
- (3) Amended requirements related to the formulae for pull-up lengths for the fitting of keyless propellers and their related coefficients in order to clarify their correspondence with UR K3(Corr.2).

Amended Requirements

Rules for the Survey and Construction of Steel Ships
Part D: 7.1.3, 7.2.1, Table D7.2, Fig.D7.1, Fig.D7.2, Fig.D7.3, 7.2.2, 7.3.1, Table D7.3, Table D7.4, Table D7.5
Rules for High Speed Craft
Part 9: 5.2.3, Table 9.5.2

Rules for the Survey and Construction of Inland Waterway Ships

Part 7: 5.1.3, 5.2.1, Table 7.5.2, Fig.7.5.1, Fig.7.5.2, Fig.7.5.3, 5.2.2, 5.3.1, Table 7.5.3, Table 7.5.4, Table 7.5.5

Guidance for the Survey and Construction of Steel Ships

Part D: D7.2.1, Table D7.2.1-1, Fig.D7.2.1-1, Fig.D7.2.1-2, Fig.D7.2.1-3, D7.2.2, D7.3.1

Guidance for the Survey and Construction of Inland Waterway Ships

Part 7: 5.2.1, Table 7.5.2.1-1, Fig.7.5.2.1-1, Fig.7.5.2.1-2, Table.7.5.2.1-3, 5.2.2, 5.3.1