

Specifications for Diesel Engines etc.

Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Part D

Rules for Automatic and Remote Control Systems

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

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

Reason for Amendment

IACS Unified Requirement (UR) M44(Corr.1) specifies the documents to be submitted for the type approval of a diesel engine. This UR requires the submission of documentation related to the construction of accumulators for pilot oil fuel injection in cases where the engine is an electronically controlled engine with a common rail, but the UR is not clear on whether the same documents need to be submitted in cases where the engine is electrically controlled without a common rail. Since accumulators are also important components for such engines, IACS adopted UR M44(Corr.2) in November 2016 to clearly specify that the submission of documentation related to the construction of accumulators for pilot oil fuel injection is also required for electronically controlled engines without common rails.

In addition to the above, IACS UR M73 specifies requirements related to the alarms for turbochargers and requires that turbochargers are to be provided with alarms for overspeed. ClassNK has already incorporated these requirements into its Rules.

In connection with UR M73, IACS conducted a review of both IACS UR M35(Rev.6) and M36(Rev.4), which stipulate requirements related to the alarms for internal combustion engines installed in unattended machinery spaces. As a result of the review, IACS adopted UR M35(Rev.7) and M36(Rev.5) in March 2016 in order to clarify that the alarms specified in UR M73 are required to be provided for diesel engines used for main propulsion as well as diesel engines used for generators and auxiliary machinery.

Accordingly, relevant requirements were amended in accordance with UR M44(Corr.2), M35(Rev.7), M36(Rev.5) and UR M72(Rev.1) which was adopted by IACS in March 2016. In addition, relevant requirements were amended in order to clarify that alternative detailed tests may be accepted during the shop tests, etc. for diesel engines in cases where the alternative test is found to be equivalent in overall scope to the required test.

Outline of Amendment

The main contents of this amendment are as follows:

- (1) Specified that drawings related to the construction of accumulators for pilot oil fuel injection are also to be submitted for type approval for electronically controlled engines without common rails.
- (2) Clarified that the overspeed alarms provided for turbochargers are also to be provided for diesel engines used for main propulsion as well as diesel engines used for generators and auxiliary machinery in cases where the concerned engines are installed in unattended machinery spaces.
- (3) Clarified that additional tests may be requested during the shop tests, etc. of diesel

engines, and that alternative detailed tests may be accepted.

Amended Requirements

Rules for the Survey and Construction of Steel Ships

Part D: Table D2.6

Rules for Automatic and Remote Control Systems Table 3.1, Table 3.4, Table 3.7

Rules for the Survey and Construction of Inland Waterway Ships Part7 Table 7.2.6

Guidance for the Survey and Construction of Steel Ships

Part D: D2.6.1

Guidance for the Survey and Construction of Inland Waterway Ships Part7 2.6.1

Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use
Part6 8.2.2