

Measures for Steering Control System Failures

Amended Guidance

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 Interpretation SC94(Rev.1) specifies interpretations related to design requirements for the steering control systems of main steering gear subject to SOLAS II-1/29.

IACS conducted a review of those measures designed to detect and deal with system failures in response to reports it received regarding the inability to perform appropriate steering operations while underway due to failures of automatic steering circuits in steering control systems.

As the result, IACS concluded it was necessary to develop a unified requirement for some of these measures, and, therefore, adopted IACS UR E25 in June 2016. UR E25 further strengthens the failure detection items for steering control systems found in the aforementioned UI, but it also newly specifies requirements related rudder response at times of system failure.

Accordingly, relevant requirements were amended in accordance with IACS UR E25.

Outline of Amendment

- (1) Added earth faults for AC and DC circuits as fault detection items of steering control systems.
- (2) Amended actions to be taken in the case of steering control system failure in which the rudder operations cannot be controlled.

Amended Requirements

Guidance for the Survey and Construction of Steel Ships
Part D: D15.3.1

Guidance for the Survey and Construction of Inland Waterway Ships Part 7 12.3.1