

Specifications of Gas Turbines

Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Parts B and D
Rules for High Speed Craft
Guidance for the Survey and Construction of Steel Ships Part D
Guidance for High Speed Craft

Reason for Amendment

The requirements for gas turbines specified in Chapter 4, Part D of the Rules for the Survey and Construction of Steel Ships Parts and Chapter 3, Part 9 of the Rules for High Speed Craft have not been reviewed since they were last amended when IACS Unified Requirement (UR) M60 was incorporated, etc. into the ClassNK Rules in 2002.

As part of a comprehensive review of ClassNK Rules, requirements related to specifications of gas turbines were amended based upon the knowledge accumulated over time by the Society since 2002 so as to clarify provisions related to gas turbines which are unclear.

Outline of Amendment

The main details of the amendment are as follows:

- (1) Specified that piping systems utilizing high temperature air extracted from gas turbines are to be provided with protection such as thermal insulation.
- (2) Specified that exhaust gas pipes from gas turbines are, in principle, not to be connected to exhaust gas pipes from other machinery.
- (3) Clarified requirements related to construction and arrangement of gas turbines for ensuring safety in the case of failures of gas turbines such as blade loss.
- (4) Specified requirements for the starting arrangements of gas turbines instead of correspondingly applying those of diesel engines referred to in current provisions.
- (5) Specified definitions related to gas turbines based on JIS and ISO standards.

Amended Requirements

Rules for the Survey and Construction of Steel Ships
Part B: 2.1.2, 2.1.3
Part D: Chapter 4, 11.2.1, 13.12.1, 13.13.3, 13.16.1
Rules for High Speed Craft Part 2 2.1.2, 2.1.3, Part 9 Chapter 3
Guidance for the Survey and Construction of Steel Ships
Part D: D4
Guidance for High Speed Craft Part 9 Chapter 3