

# **RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS**

GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

## **Part H**

## **Electrical Installations**

**Rules for the Survey and Construction of Steel Ships**

**Part H**

**2023 AMENDMENT NO.1**

**Guidance for the Survey and Construction of Steel Ships**

**Part H**

**2023 AMENDMENT NO.1**

Rule No.29 / Notice No.28

30 June 2023

Resolved by Technical Committee on 25 January 2023

**ClassNK**  
NIPPON KAIJI KYOKAI

An asterisk (\*) after the title of a requirement indicates that there is also relevant information in the corresponding Guidance.

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# **RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS**

**Part H**

**Electrical Installations**

**RULES**

**2023 AMENDMENT NO.1**

Rule No.29      30 June 2023

Resolved by Technical Committee on 25 January 2023

An asterisk (\*) after the title of a requirement indicates that there is also relevant information in the corresponding Guidance.

AMENDMENT TO THE RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

“Rules for the survey and construction of steel ships” has been partly amended as follows:

**Part H            ELECTRICAL INSTALLATIONS**

**Chapter 3    DESIGN OF INSTALLATIONS**

**3.3      Emergency Sources of Electrical Power**

**3.3.2      Capacities of Emergency Sources of Power\***

Sub-paragraph -2(7) has been amended as follows.

**2**    Emergency sources of electrical power are to be capable, having regard for starting currents and the transitory nature of certain loads, of supplying simultaneously at least the following services for those periods specified hereinafter, if they depend upon electrical sources for operation:

((1) to (6) are omitted.)

(7)    For a period of 30 *minutes*, indications showing whether closing means are opened or closed and audible alarms showing that such closing means are operating as required by ~~4.3.1~~**2.2.3.1, Part 1, Part C**, and indicators showing whether these closing means are opened or closed as required by ~~4.3.2 and 3.3.2.1~~**2.2.3.2 and 2.2.4.2, Part 1, Part C** if they are operated by electrical power.

((8) to (10) are omitted.)

**EFFECTIVE DATE AND APPLICATION**

- 1.**    The effective date of the amendments is 1 July 2023.
- 2.**    Notwithstanding the amendments to the Rules, the current requirements apply to the following ships:
  - (1)    ships for which the date of contract for construction is before the effective date; or
  - (2)    sister ships of ships subject to the current requirements for which the date of contract for construction is before 1 January 2025.

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# **GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS**

**Part H**

**Electrical Installations**

**GUIDANCE**

**2023 AMENDMENT NO.1**

Notice No.28      30 June 2023

Resolved by Technical Committee on 25 January 2023

AMENDMENT TO THE GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

“Guidance for the survey and construction of steel ships” has been partly amended as follows:

## **Part H ELECTRICAL INSTALLATIONS**

### **H2 ELECTRICAL INSTALLATIONS AND SYSTEM DESIGN**

#### **H2.4 Rotating Machines**

##### **H2.4.15 Shop Tests**

Sub-paragraph -2 has been amended as follows.

2 Procedures, etc. for omitting temperature rise tests, overcurrent or excess torque tests, and steady short-circuit tests (hereinafter referred to as “temperature rise tests, etc.”), are to comply with the following:

(2) Application

~~Applications for omission of temperature rise tests, etc.~~ Application form (APP-TR-OMM-H) are to be submitted in duplicate for each manufacturing plant to the Society branch office in charge of the required testing. The branch office is to examine the application and, in those cases where deemed appropriate, stamp one of copies of the submitted application with its seal of acceptance (i.e. the branch office stamp) and then return the stamped copy to the applicant.

(5) Individual machine tests

The consent of the party ordering the machines is to be obtained by manufacturer in cases where the omission of temperature rise tests, etc. is permitted for each subsequent unit produced of a machine for which representative machine tests are passed. In addition, the quality control manager is to make a checklist ~~(such as that shown in Table H2.4.15-1)~~ for each unit so that it is possible to easily confirm that the unit is of the same type as the representative machine. (However, checklist need not be provided when it is clear that the same type is used; for example, in the case of main generators for the same ship in which all required tests are carried out for a single generator, and temperature rise tests, etc. are omitted for the other generators.)

(7) Checklists

~~The checklist shown in Table H2.4.15-1 is an example of checklist that allows easy confirmation of an individual machine being of the same type as a representative machine in the individual testing of a product.~~ Appropriate checklists (CL-RM-H) are to be prepared by the manufacturer to allow easy confirmation of an individual machine being of the same type as a representative machine during the individual testing of a product after discussion among relevant parties according to the type of the product to be tested ~~with reference made to Table H2.4.15-1.~~ In addition, values for entries with checkboxes list in the “Identical” column only are required to be the same as that of the representative machine, whereas the values for entries with checkboxes list in both the “Identical” and “Almost identical” column may be equal to or less than those of the representative machine.

((1), (3), (4) and (6) are omitted)

Table H2.4.15-1 has been deleted.

~~Table H2.4.15-1~~  
~~(Omitted)~~

## **H2.5 Switchboards, Section Boards and Distribution Boards**

### **H2.5.10 Shop Tests**

Sub-paragraph -2 has been amended as follows.

2 The procedures for omitting the temperature rise tests specified in **2.5.10, Part H of the Rules** are the same as those specified for rotating machines in **H2.4.15-2(1) to (7)**; however, the term “rotating machines” is to be read as “switchboards”. In addition, the ~~sample~~ checklist given in **H2.4.15-2(7)** is to be ~~in accordance with Table H2.5.10-1~~ checklist (CL-SB-H) prepared by the manufacturer.

Table H2.5.10-1 has been deleted.

~~Table H2.5.10-1~~  
~~(Omitted)~~

## **H2.8 Controlgears for Motors and Magnetic Brakes**

### **H2.8.4 Shop Tests**

Sub-paragraph -2 has been amended as follows.

2 The procedure for omitting the temperature rise tests, etc. specified in **2.8.4, Part H of the Rules** is the same as that specified for rotating machines in **H2.4.15-2(1) to (7)**; however, the term “rotating machines” is to be read as “controlgears for motors”. In addition, the ~~sample~~ checklist given in **H2.4.15-2(7)** is to be ~~in accordance with Table H2.8.4-1~~ checklist (CL-ST-H) prepared by the manufacturer.

Table H2.8.4-1 has been deleted.

~~Table H2.8.4-1~~  
~~(Omitted)~~



## **H2.10 Transformers for Power and Lighting**

### **H2.10.6 Shop Tests**

Sub-paragraph -2 has been amended as follows.

**2** The procedures for omitting the temperature rise tests specified in **2.10.6, Part H of the Rules** are the same as those specified for rotating machines in **H2.4.15-2(1) to (7)**; however, the term “rotating machines” is to be read as “transformers”. In addition, the ~~sample~~ checklist given in **H2.4.15-2(7)** is to be ~~in accordance with Table H2.10.6-1~~ checklist (CL-TF-H) prepared by the manufacturer.

Table H2.10.6-1 has been deleted.

~~Table H2.10.6-1~~  
~~(Omitted)~~

#### **EFFECTIVE DATE AND APPLICATION**

- 1.** The effective date of the amendments is 30 June 2023.