

RULES FOR AUTOMATIC AND REMOTE CONTROL SYSTEMS

GUIDANCE FOR AUTOMATIC AND REMOTE CONTROL SYSTEMS

Rules for Automatic and Remote Control Systems

2018 AMENDMENT NO.3

Guidance for Automatic and Remote Control Systems

2018 AMENDMENT NO.1

Rule No.136 / Notice No.105 25 December 2018

Resolved by Technical Committee on 1 August 2018

ClassNK
NIPPON KAIJI KYOKAI

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

RULES FOR AUTOMATIC AND REMOTE CONTROL SYSTEMS

RULES

2018 AMENDMENT NO.3

Rule No.136 25 December 2018

Resolved by Technical Committee on 1 August 2018

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

“Rules for automatic and remote control systems” has been partly amended as follows:

Chapter 2 SURVEYS OF AUTOMATIC AND REMOTE CONTROL SYSTEMS

2.2 Registration Surveys

Paragraph 2.2.1 has been amended as follows.

2.2.1 Drawings and Data*

In the case of automatic and remote control systems, three copies of the following drawings and data are to be submitted.

- (1) Centralized monitoring and control systems for machinery or monitoring and control systems for periodically unattended machinery spaces:
 - (a) Drawings and data specified in **18.1.3, Part D of the Rules for the Survey and Construction of Steel Ships**
 - ~~(b) Drawings and data relative to computers~~
 - ~~(e)~~ Schedules of on-board tests and sea trials
- (2) Specific automation equipment:
 - (a) Drawings and data specified in **18.1.3, Part D of the Rules for the Survey and Construction of Steel Ships**
 - ~~(a) Drawings showing construction and layouts~~
 - (b) Other drawings Drawings and data relative to automatic and remote controls
 - (c) Drawings showing construction and layouts
 - ~~(e)~~ Particulars
 - (e) On-board test plan
- (3) (Omitted)

EFFECTIVE DATE AND APPLICATION

1. The effective date of the amendments is 25 December 2018.
 2. Notwithstanding the amendments to the Rules, the current requirements apply to ships for which the date of contract for construction* is before the effective date.
 3. Notwithstanding the provision of preceding **2.**, the amendments to the Rules may apply to ships for which the date of contract for construction* is before the effective date upon request by the owner or the manufacturer.
- * “contract for construction” is defined in the latest version of IACS Procedural Requirement (PR) No.29.

IACS PR No.29 (Rev.0, July 2009)

1. The date of “contract for construction” of a vessel is the date on which the contract to build the vessel is signed between the prospective owner and the shipbuilder. This date and the construction numbers (i.e. hull numbers) of all the vessels included in the contract are to be declared to the classification society by the party applying for the assignment of class to a newbuilding.
2. The date of “contract for construction” of a series of vessels, including specified optional vessels for which the option is ultimately exercised, is the date on which the contract to build the series is signed between the prospective owner and the shipbuilder. For the purpose of this Procedural Requirement, vessels built under a single contract for construction are considered a “series of vessels” if they are built to the same approved plans for classification purposes. However, vessels within a series may have design alterations from the original design provided:
 - (1) such alterations do not affect matters related to classification, or
 - (2) If the alterations are subject to classification requirements, these alterations are to comply with the classification requirements in effect on the date on which the alterations are contracted between the prospective owner and the shipbuilder or, in the absence of the alteration contract, comply with the classification requirements in effect on the date on which the alterations are submitted to the Society for approval.The optional vessels will be considered part of the same series of vessels if the option is exercised not later than 1 year after the contract to build the series was signed.
3. If a contract for construction is later amended to include additional vessels or additional options, the date of “contract for construction” for such vessels is the date on which the amendment to the contract, is signed between the prospective owner and the shipbuilder. The amendment to the contract is to be considered as a “new contract” to which **1.** and **2.** above apply.
4. If a contract for construction is amended to change the ship type, the date of “contract for construction” of this modified vessel, or vessels, is the date on which revised contract or new contract is signed between the Owner, or Owners, and the shipbuilder.

Note:

This Procedural Requirement applies from 1 July 2009.

GUIDANCE FOR AUTOMATIC AND REMOTE CONTROL SYSTEMS

GUIDANCE

2018 AMENDMENT NO.1

Notice No.105 25 December 2018

Resolved by Technical Committee on 1 August 2018

Notice No.105 25 December 2018

AMENDMENT TO THE GUIDANCE FOR AUTOMATIC AND REMOTE CONTROL SYSTEMS

“Guidance for automatic and remote control systems” has been partly amended as follows:

Chapter 1 GENERAL

1.2 System Design

1.2.3 Computers and Computerized Systems

Sub-paragraph (1) has been amended as follows.

The wording “deemed appropriate by the Society” specified in **1.2.3(1) of the Rules** means as follows:

- (1) In cases where secondary systems or back-up computers are installed for control systems or safety systems, they may be in accordance with those requirements specified in **18.2.7-2(3)(a) or (b), Part D of the Rules D18.2.7-8 (1) or (2), Part D of the Guidance for the Survey and Construction of Steel Ships** respectively. In such cases, secondary control systems for all of the machinery and equipment specified in **1.1.5(12)(a) through (d) of the Rules** are to have functions equivalent to those operated by computerized automatic and remote control systems.
- (2) (Omitted)

Chapter 2 SURVEYS OF AUTOMATIC AND REMOTE CONTROL SYSTEMS

2.2 Registration Surveys

2.2.1 Drawings and Data

Sub-paragraphs -2 and -3 have been amended as follows.

~~2 Computers which require the submission of drawings and data in accordance with the requirements given in **2.2.1(1)(b) of the Rules** are those computers specified in **1.2.2 of the Rules, D18.2.7-1 and -2, Part D of the Guidance for the Survey and Construction of Steel Ships**. In such cases, all of the drawings and data specified in **D18.1.3-2, Part D of the Guidance for the Survey and Construction of Steel Ships** In applying **2.2.1(1)(a) and (2)(a) of the Rules**, in cases where the automatic and remote control system includes computer based systems subject to **18.1.1-3, Part D of the Rules for the Survey and Construction of Steel Ships**, the drawings and data stipulated in **1.2, Annex D18.1.1 “COMPUTER BASED SYSTEMS”, Part D of the**~~

Guidance for the Survey and Construction of Steel Ships are to be submitted. However, for computer based systems which have been already approved by the Society in accordance with Chapter 8, Part 7 of the Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use, only drawings and data on parts that differ from ship to ship need to be submitted; this, however, excludes those specified in 1.2(2)(a) of the said Annex.

3 The drawings and data specified in **2.2.1(2)(b) of the Rules** are as follows:
(1) to (16) are omitted.)

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