

RULES FOR THE SURVEY AND CONSTRUCTION OF INLAND WATERWAY SHIPS

GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF INLAND WATERWAY SHIPS

Rules for the Survey and Construction of Inland Waterway Ships
2018 AMENDMENT NO.3
Guidance for the Survey and Construction of Inland Waterway Ships
2018 AMENDMENT NO.2

Rule No.139 / Notice No.108 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 THE SURVEY AND CONSTRUCTION OF INLAND WATERWAY SHIPS

RULES

2018 AMENDMENT NO.3

Rule No.139 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.

AMENDMENT TO THE RULES FOR THE SURVEY AND CONSTRUCTION OF INLAND WATERWAY SHIPS

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

Part 2 CLASS SURVEYS

Chapter2 CLASSIFICATION SURVEYS

2.1 Classification Survey during Construction

2.1.2 Submission of Plans and Documents for Approval*

Sub-paragraph -1(2) has been amended as follows.

1 When it is intended to build a ship for classification by the Society, the following plans and documents are to be submitted for the approval by the Society before the work is commenced. The plans and documents may be submitted for examination by the Society prior to making an application for the classification of the ship as stipulated otherwise by the Society.

- (1) (Omitted)
- (2) Machinery
 - (a) (Omitted)
 - (b) Main and auxiliary engines (including their attachments):
Plans and data specified in **2.1.3-1(1), Part 7**
 - (c) Power transmission gears, shafting and propellers:
Plans and data specified in **3.1.2, 4.1.2(1), 5.1.2 and 6.1.2, Part 7**
 - ((d) to (f) are omitted.)
 - (g) Automatic and remote controls:
Plans and data specified in **14.1.3(1), Part 7**
 - (h) (Omitted)
- ((3) to (5) are omitted.)

2.1.3 Submission of Other Plans and Documents

Sub-paragraph -1 has been amended as follows.

1 When it is intended to build a ship to the classification with the Society the following plans and documents are to be submitted, in addition to those required in **2.1.2**:

- ((1) to (6) are omitted.)
- (7) The following plans and documents related to machinery:
 - (a) Main and auxiliary engines (including their attachments):
Plans and data specified in **2.1.3-1(2) and (3), Part 7**
 - (b) Power transmission gears, shafting and propellers:
Plans and data specified in **4.1.2(2), Part 7**

(c) Automatic and remote controls:

Plans and data specified in 14.1.3(2), Part 7

- (~~7~~8) For ships using low-flashpoint fuels, the plans and documents specified in **2.1.3-1(10)(~~9~~)**,
Part B of the Rules for the Survey and Construction of Steel Ships
- (~~8~~9) Other plans and documents deemed necessary by the Society=

Part 7 MACHINERY INSTALLATIONS

Chapter 14 AUTOMATIC AND REMOTE CONTROL

14.1 General

Paragraph 14.1.3 has been amended as follows.

14.1.3 Drawings and Data*

Drawings and data to be submitted are generally, as follows. However, other drawings and data may be required in cases where deemed necessary by the Society.

(1) Drawings and data for approval:

(~~1~~a) Drawings and data concerning automation

~~(i)~~ List of measuring points

~~(ii)~~ List of alarm points

~~(iii)~~ Control devices and safety devices

~~1~~ List of controlled objects and controlled variables

~~2~~ Kinds of control energy sources (self-actuated, pneumatic, electric, etc.)

~~3~~ List of conditions for emergency stopping, speed reduction (automatic or demand for reduction), etc.

(~~2~~b) The following drawings and data for the automatic control devices and remote control devices for main propulsion machinery or controllable pitch propellers:

~~(i)~~ Operating instructions of main propulsion machinery such as starting and stopping, change-over of direction of revolution, increase and decreased of output, etc.

~~(ii)~~ Arrangements of safety devices (including those attached to engines) and pilot lamps

~~(iii)~~ Controlling diagrams

(~~3~~c) Following drawings and data for the automatic control devices and remote control devices for boilers:

~~(i)~~ Operating instructions of sequential control, feed water control, pressure control, combustion control and safety devices

~~(ii)~~ Diagrams for automatic combustion control devices and automatic feed water control devices

(~~4~~d) Diagrams and operating instructions for automatic control devices for electric generating sets (automatic load sharing devices, preference tripping devices, automatic starting devices, automatic synchronous making devices, sequential starting devices, etc.)

(~~5~~e) Panel arrangements of monitoring panels, alarm panels and control stands at respective control stations

(~~6~~f) Drawings and data deemed necessary by the Society for computer based ~~for those computers and computerized systems specified in 14.1.1-3~~

(2) Drawings and data for reference:

Drawings and data deemed necessary by the Society for computer based systems specified in 14.1.1-3

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 THE SURVEY AND CONSTRUCTION OF INLAND WATERWAY SHIPS

GUIDANCE

2018 AMENDMENT NO.2

Notice No.108 25 December 2018

Resolved by Technical Committee on 1 August 2018

Notice No.108 25 December 2018

AMENDMENT TO THE GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF INLAND WATERWAY SHIPS

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

Amendment 2-1

Part 7 MACHINERY INSTALLATIONS

Chapter 12 STEERING GEARS

12.3 Controls

12.3.1 General

3 The control systems and relevant components specified in the requirements of **12.3.1-1(2)**, **Part 7 of the Rules** are to comply with following requirements:

((1) to (3) are omitted.)

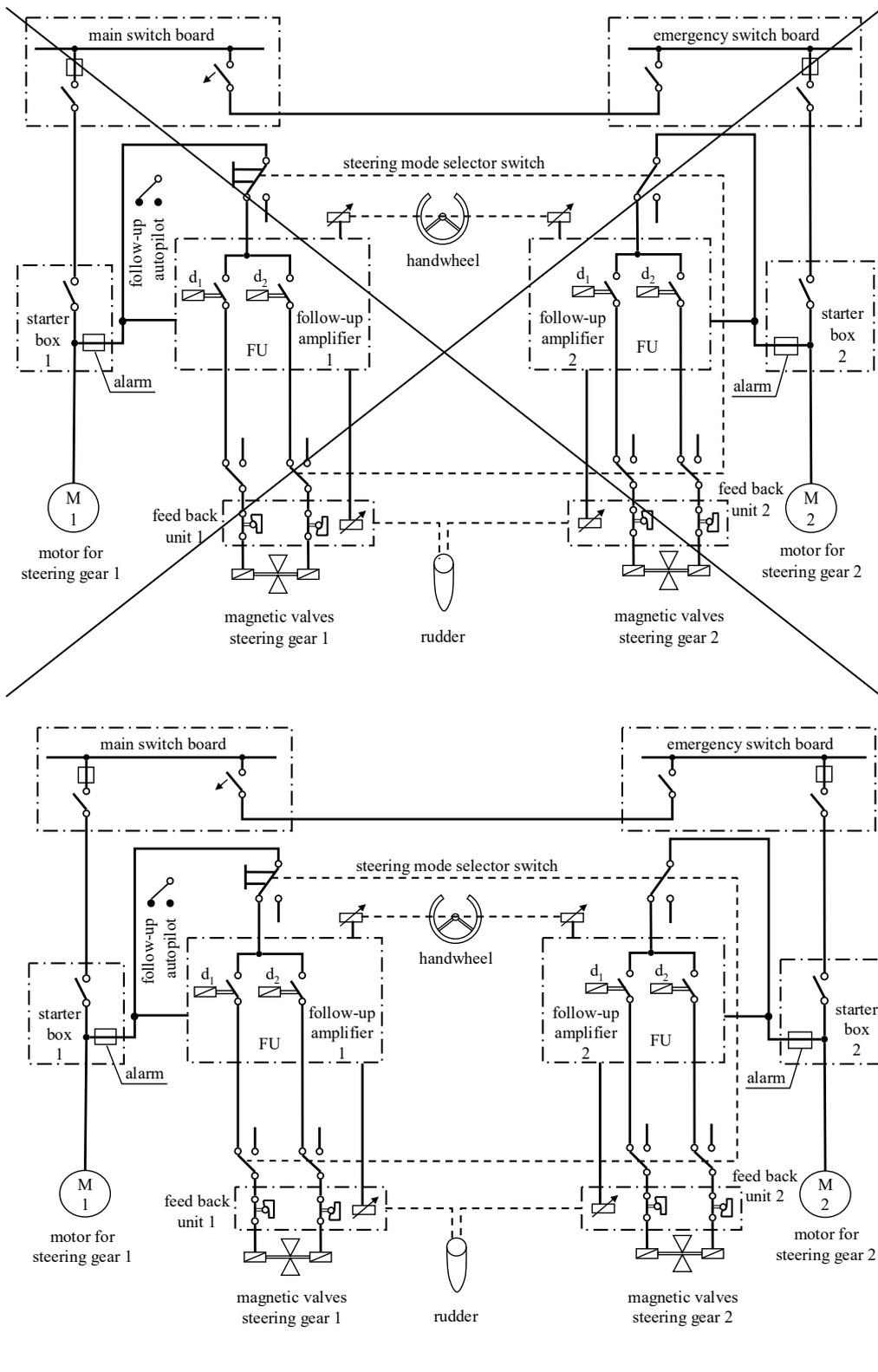
(4) In cases where double follow-up controls are arranged (Refer to **Fig. 7.12.3.1-2**), the follow-up amplifiers are to be designed and independently supplied so as to be electrically and mechanically separated. In cases where both non-follow-up controls and follow-up controls are arranged, the follow-up amplifiers are to be protected selectively. (Refer to **Fig. 7.12.3.1-3**)

(5) Control circuits for additional devices, e.g. steering lever or autopilot, are to be arranged for all-pole disconnection. (Refer to **Fig. 7.12.3.1-1** to **Fig. 7.12.3.1-3**)

((6) and (7) are omitted.)

Fig. 7.12.3.1-2 has been amended as follows.

Fig. 7.12.3.1-2 Example Layout of Control Systems with Double Follow-up Control and Autopilot or Other Additional Control



EFFECTIVE DATE AND APPLICATION (Amendment 2-1)

1. The effective date of the amendments is 25 December 2018.
2. Notwithstanding the amendments to the Guidance, the current requirements apply to ships for which the date of contract for construction* is before 1 July 2011.
* “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.

Part 7 MACHINERY INSTALLATIONS

Chapter 14 AUTOMATIC AND REMOTE CONTROL

14.1 General

Paragraph 14.1.3 has been amended as follows.

14.1.3 Drawings and Data

1 The ~~“The drawings and data deemed necessary by the Society”~~ stipulated in **14.1.3(1)(f)(g), Part 7 of the Rules** refer to the items specified in **1.2(1), Annex D18.1.1 “COMPUTER BASED SYSTEMS”, Part D of the Guidance for the Survey and Construction of Steel Ships** as a standard. With respect to computer based systems ~~those automatic devices and equipment~~ 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.

2 The ~~“drawings and data deemed necessary by the Society”~~ stipulated in **14.1.3(2), Part 7 of the Rules** refer to the items specified in **1.2(2), Annex D18.1.1 “COMPUTER BASED SYSTEMS”, Part D of the Guidance for the Survey and Construction of Steel Ships** as a standard. With respect to 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 Annex.

EFFECTIVE DATE AND APPLICATION (Amendment 2-2)

1. The effective date of the amendments is 25 December 2018.
2. Notwithstanding the amendments to the Guidance, 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 Guidance 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.