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
2023 AMENDMENT NO.2
Guidance for the Survey and Construction of Inland Waterway Ships
2023 AMENDMENT NO.2

Rule No.75 / Notice No.69 22 December 2023
Resolved by Technical Committee on 27 July 2023

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

2023 AMENDMENT NO.2

Rule No.75 22 December 2023

Resolved by Technical Committee on 27 July 2023

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

Rule No.75 22 December 2023
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

Chapter 2 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) is omitted.)
(2) Machinery
((a) to (m) are omitted.)
(n) Computer-based systems:
Plans and data specified in **2.1.1(1), Part X of the Rules for the Survey and Construction of Steel Ships**
((3) to (5) are omitted.)

2.1.3 Submission of Other Plans and Documents

Sub-paragraph -1(7) 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) to (f) are omitted.)
(g) Computer-based systems:
Plans and data specified in **2.1.1(2), Part X of the Rules for the Survey and Construction of Steel Ships**
((8) to (9) are omitted.)

2.1.4 Presence of Surveyor*

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

2 The presence of the Surveyor is required at the following stages of the work in relation to machinery:

((1) is omitted.)
(2) Main parts of machinery
(a) When the tests stipulated in either **Part 7** or **Part 8** (according to the kind of machinery) and **Part X of the Rules for the Survey and Construction of Steel Ships** are carried out.
((b) to (e) are omitted.)
((3) to (6) are omitted.)

Chapter 3 ANNUAL SURVEYS

Table 2.3.1 has been amended as follows.

Table 2.3.1 Examination of Plans and Documents

Items	Examination
1 Loading Manual	・ For ships required to have the manual on board in accordance with the requirements of **10.2.4, Part 4**, confirmation that the manual is kept on board is to be made.
2 Stability Information Booklet	・ Confirmation as to whether the booklet is kept on board is to be made.
3 Fire Control Plan	・ Confirmation that the fire control plan is provided on board is to be made.
4 Procedures for software and hardware change management and relevant change records	(1) Confirmation that the procedures for software and hardware change management are kept on board in accordance with **3.6.12-1, Part X of the Rules for the Survey and Construction of Steel Ships**. (2) Confirmation that the change records are updated in accordance with **3.6.11** and **3.6.12-1, Part X of the Rules for the Survey and Construction of Steel Ships**.

Part 7 MACHINERY INSTALLATIONS

Chapter 14 AUTOMATIC AND REMOTE CONTROL

14.1 General

14.1.1 Scope*

Sub-paragraph -4 has been deleted, and Sub-paragraphs -2 and -3 have been amended as follows.

1 The requirements in this Chapter apply to automatic or remote control systems which are used to control the following machinery and equipment:
(1) Main propulsion machinery (in this Chapter, propulsion generating sets in electric propulsion ships are excluded)
(2) Controllable pitch propeller
(3) Steam generating sets
(4) Electric generating sets (in this Chapter, propulsion generating sets in electric propulsion ships are included)
(5) Auxiliary machinery associated with the machinery and equipment listed in **(1)** to **(4)**
(6) Fuel oil systems
(7) Bilge systems
(8) Deck machinery

2 In cases where considered necessary by the Society, the requirements in this Chapter are correspondingly applied to those automatic or remote control systems which are used for controlling machinery and equipment not listed in **-1(1)** to **(8)**.

3 Computer based systems, including the hardware and software which constitute such systems, are to be in accordance with ~~**Annex 18.1.1**~~ **Chapters 1**, **2** and **3, Part ~~D~~ X of the Rules for the Survey and Construction of Steel Ships** in addition to those specified in **-1** and **-2** above and throughout the rest of this chapter for design, construction, commissioning, maintenance, etc.

~~**4** The requirement in **-3** above is not applicable to equipment mentioned below:~~
~~(1) navigating equipment specified in the **Rules for Safety Equipment**,~~
~~(2) radio installations specified in the **Rules for Radio Installations**,~~
~~(3) stability instruments, and~~
~~(4) loading computers.~~

14.1.2 Terminology*

Sub-paragraphs (10) to (13) have been deleted, and Sub-paragraph (14) has been renumbered to Sub-paragraph (10).

Terms used in this Chapter are defined as follows:
((1) to (9) are omitted.)
~~(10) A system is defined as a combination of interacting programmable devices and/or sub-systems organized to achieve one or more specified purposes.~~
~~(11) A computer based system is defined as a system which provides control, alarm, monitoring, safety or internal communication functions and depends upon software for the proper achievement of these functions.~~
~~(12) A sub-system is defined as an identifiable part of a system, which may perform a specific~~

~~function or set of functions.~~

~~(13) A programmable device is defined as a physical component where software is installed.~~

(~~14~~10) A safety system is defined as a system which operates automatically, in order to prevent damage to machinery and equipment in cases where serious impediments to functioning should occur during their operation so that one of the following actions will take place:

(a) Starting of stand-by machinery or equipment

(b) Reduction of output of machinery or equipment

(c) Shutting off fuel or power supplies, thereby stopping the machinery or equipment

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:

((a) to (e) are omitted.)

(f) ~~Drawings and data listed in **1.2(1), Annex 18.1.1, Part D of the Rules for the Survey and Construction of Steel Ships** for computer based systems specified in **14.1.1-3.** 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.~~ Other drawings and data deemed necessary by the Society.

(2) Drawings and data for reference:

~~Drawings and data listed in **1.2(2), Annex 18.1.1, Part D of the Rules for the Survey and Construction of Steel Ships** for computer based systems specified in **14.1.1-3.** 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.~~ Other drawings and data deemed necessary by the Society.

14.3 Automatic and Remote Control of Main Propulsion Machinery or Controllable Pitch Propellers

14.3.3 Bridge Control Devices*

Bridge control devices are to comply with the following **(1)** through **(4)** as well as requirements in **14.3.2**.

((1) and (2) are omitted.)

Sub-paragraphs (3) and (4) have been amended as follows.

(3) Bridge control devices are to be provided with visual and audible alarms which give the officer in charge of the navigational watch enough time to assess navigational circumstances in an emergency before the safety systems of main propulsion machinery specified in **14.1.2(~~14~~10)(b)** or **(c)** go into effect.

(4) Bridge control devices are to be provided with an override arrangement specified in **14.2.6-3** for the following safety systems of main propulsion machinery:

(a) Safety systems which perform as specified in **14.1.2(~~14~~10)(b)**

(b) Safety systems which perform as specified in **14.1.2(~~14~~10)(c)** (except in cases where the total failure of main propulsion machinery will occur within a short period of time)

EFFECTIVE DATE AND APPLICATION

1. The effective date of the amendments is 1 July 2024.

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.

* "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

2023 AMENDMENT NO.2

Notice No.69 22 December 2023

Resolved by Technical Committee on 27 July 2023

Notice No.69 22 December 2023
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 2 CLASS SURVEYS

Chapter 1 GENERAL

1.1 Surveys

1.1.2 Class Maintenance Surveys

Sub-paragraph -1(5) has been amended as follows.

1 Modifications and changes that are subject to Occasional Surveys referred to in **1.1.2-2(3), Part 2 of the Rules** are as specified in **(1)** through **(5)** below:
((1) to (4) are omitted.)
(5) Ships Using Low-flashpoint Fuels
(a) For ships that fall under the following **i)** or **ii)**, a survey is to be carried out to verify compliance with the requirements of **1.1.8, Part 1 of the Rules** before using low-flashpoint fuels or undertaking to use different low-flashpoint fuels than specified:
i) Ships which convert to using low-flashpoint fuels on or after 1 January 2017; or
ii) Ships which, on or after 1 January 2017, undertake to use low-flashpoint fuels different from those which they were originally approved to use before 1 January 2017.
(b) For ships that fall under the following **i)** or **ii)**, a survey is to be carried out to verify compliance with the requirements of **GF11.3.1-1**, **GF11.3.1-2**, **GF12.5.2-2** and **GF15.10.1, Part GF of the Guidance for the Survey and Construction of Steel Ships** before using low-flashpoint fuels or undertaking to use different low-flashpoint fuels than specified:
i) Ships which convert to using low-flashpoint fuels on or after 1 July 2019; or
ii) Ships which, on or after 1 July 2019, undertake to use low-flashpoint fuels different from those which they were originally approved to use before 1 July 2019.
(c) For ships that fall under the following **i)** or **ii)**, a survey is to be carried out to verify compliance with the requirements of **11.8.1, Part GF of the Rules for the Survey and Construction of Steel Ships** and **GF11.3.1-2, Part GF of the Guidance for the Survey and Construction of Steel Ships** before using low-flashpoint fuels or undertaking to use different low-flashpoint fuels than specified:
i) Ships which convert to using low-flashpoint fuels on or after 1 January 2024; or
ii) Ships which, on or after 1 January 2024, undertake to use low-flashpoint fuels different from those which they were originally approved to use before 1 January 2024.

EFFECTIVE DATE AND APPLICATION (Amendment 2-1)

1. The effective date of the amendments is 1 January 2024.

Amendment 2-2

Part 2 CLASS SURVEYS

Chapter 9 PLANNED MACHINERY SURVEYS

9.1 Planned Machinery Surveys

9.1.4 Condition Based Maintenance Scheme (CBM)

Sub-paragraph -5(2) has been amended as follows.

5 Approval of CBM

Conditions for approval of CBM are as follows:

((1) is omitted.)

(2) Condition monitoring system

The condition monitoring system is to satisfy the following requirements specified in **(a)** to **(h)**. In cases where this system is modified, that modification is to be approved by the Society.

((a) is omitted.)

(b) The hardware and software of the computer is to comply with **9.1.3-4(5)(a)** to **(e)** and ~~**Annex D18.1.1 "COMPUTER BASED SYSTEMS"**~~ **Chapters 1**, **2** and **3**, **Part ~~D~~X of the ~~Guidance~~ Rules for the Survey and Construction of Steel Ships**.

((c) to (h) are omitted.)

((3) to (7) are omitted.)

EFFECTIVE DATE AND APPLICATION (Amendment 2-2)

1. The effective date of the amendments is 1 July 2024.

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.

* "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.