

RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

Part B

Class Surveys

Rules for the Survey and Construction of Steel Ships

Part B

2021 AMENDMENT NO.1

Guidance for the Survey and Construction of Steel Ships

Part B

2021 AMENDMENT NO.1

Rule No.29 / Notice No.28 30 June 2021

Resolved by Technical Committee on 27 January 2021

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 STEEL SHIPS

RULES

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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 B CLASS SURVEYS

Amendment 1-1

Chapter 2 CLASSIFICATION SURVEYS

2.1 Classification Survey during Construction

2.1.3 Submission of Other Plans and Documents

Sub-paragraph -1(16) has been added 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 (15) are omitted.)

(16) Documents related to watertight cable penetrations

2.1.6 Documents to be Maintained On Board*

Sub-paragraphs -1 to -3 have been amended as follows.

1 At the completion of a classification survey, the Surveyor confirms that the finished versions of the following applicable drawings, plans, manuals, lists, etc., are on board.

((1) is omitted.)

(2) Other documents

((a) to (w) are omitted.)

(x) Watertight cable penetration register

2 In addition to the requirements in -1 above, for ships engaged on international voyages, the Surveyor confirms that the Ship Construction File contains the necessary documents from the following drawings, plans, manuals and documents, and that the Construction File is on board the ship. Duplicate documents as in -1 are not required.

((1) to (11) are omitted.)

(12) Watertight cable penetration register

(12) Test plans, test records, measurement records, etc.

3 In addition to the requirements in -1 above, for ships subject to *SOLAS Chapter II-1 Regulation 3-10*, notwithstanding -2 above, the Surveyor confirms that the Ship Construction File, which contains necessary documents from the following drawings and information, etc. as well as those specified in **Table B2.1**, is being kept on board the ship. Duplicate documents as in -1 are not required. Moreover, part of the content of the Ship Construction File may be subject to various degrees of, or restricted access and that such documentation may be appropriately kept on shore archive deemed appropriate by the Society. In such cases, procedures to access the information kept in said archive are to be specified in the Ship Construction File kept on board the ship. Finally, all intellectual property provisions within the Ship Construction File are to be duly complied with.

((1) to (11) are omitted.)

(12) Watertight cable penetration register

~~(123)~~ Test plans, test records, measurement records, etc.

~~(134)~~ Areas requiring special attention throughout the ship's life, including critical structural areas

~~(145)~~ All design parameters limiting the operation of the ship

~~(156)~~ Any alternatives to the rules, including structural details and equivalency calculations

~~(167)~~ "As built" drawings and information which are verified to incorporate all alterations approved by the Society during the construction process. This includes scantling details, material details, location of butts and seams, cross section details and the locations of all partial and full penetration welds.

~~(178)~~ Net (renewal) scantlings for all structural constituent parts, as built scantlings and voluntary addition thickness

~~(189)~~ Minimum hull girder section modulus along the length of the ship which has to be maintained throughout the ship's life, including cross section details such as the values of the areas of the deck zone and bottom zone, the renewal value for the neutral axis zone

~~(1920)~~ A listing of materials used for the construction of the hull structure, and provisions for documenting changes to any of the above during the ship's service life.

~~(201)~~ List of documents constituting the Ship Construction File

Chapter 3 ANNUAL SURVEYS

3.2 Annual Surveys for Hull, Equipment, Fire Extinction and Fittings

3.2.1 Examination of Plans and Documents*

Table B3.1 has been amended as follows.

Table B3.1 Examination of Plans and Documents

| Items | Examination |
|--|--|
| 1 Loading Manual | <ul style="list-style-type: none"> For ships required to have the manual on board in accordance with the requirements of 34.1.1 and 34.3.1, Part C, and 25.1.1, Part CS, confirmation that the manual is kept on board is to be made. |
| 2 Stability Information Booklet | <ul style="list-style-type: none"> Confirmation as to whether the booklet is kept on board is to be made. |
| 3 Damage Control Plan, Booklet and Damage Stability Information | <ul style="list-style-type: none"> For ships required to have the damage control plan on board in accordance with the requirement in Chapter 33, Part C, confirmation that the approved plan is exhibited and the booklet containing the information shown in the plan and the damage stability information are kept on board is to be made. |
| 4 Fire Control Plan | <ul style="list-style-type: none"> Confirmation that the fire control plan is exhibited and properly stored is to be made. |
| 5 Operating and Maintenance Manual for the door and inner door and notices indicating procedures for closing and securing | <p>For ships required to have the manual and notices on board in accordance with the requirements in Chapter 23, Part C, and Chapter 21, Part CS;</p> <ul style="list-style-type: none"> Confirmation that the manual is kept on board is to be made. Confirmation that the board is exhibited is to be made. |
| 6 Instruction Manuals for the Inert Gas System | <ul style="list-style-type: none"> For ships required to have the manual on board in accordance with the requirements of 4.5.5, Part R, confirmation that the manual is kept on board is to be made. |
| 7 Towing and Mooring Fitting Arrangement Plan | <ul style="list-style-type: none"> Confirmation that the Towing and Mooring Fitting Arrangement Plan specified in 27.2, Part C or 23.2, Part CS is kept on board is to be made. |
| 8 Ship Structure Access Manual | <ul style="list-style-type: none"> For ships required to have the manual on board in accordance with the requirements of 35.2.6, Part C or 26.2.6, Part CS, confirmation that the manual is kept on board and updated as necessary is to be made. |
| 9 Documents related to the surveys for bulk carriers, oil tankers and ships carrying dangerous chemicals in bulk with integral tanks | <ul style="list-style-type: none"> Confirmation that the documents are kept on board is to be made. |
| 10 Coating Technical File and/or Corrosion Resistant Steel Technical File | <ul style="list-style-type: none"> For ships required to have a Coating Technical File for dedicated seawater ballast tanks, etc. on board in accordance with the requirements of 25.2.2, Part C, 22.4.2, Part CS, 1.2.2 Section 5 Chapter 3, Part CSR-B or 2.1.1.2 Section 6, Part CSR-T, confirmation that the file is kept on board and that maintenance and repair work are properly recorded and kept on the file is to be made. For ships required to have a Coating Technical File and/or a Corrosion Resistant Steel Technical File for cargo oil tanks on board in accordance with the requirements of 25.2.3, Part C or 22.4.3, Part CS, confirmation that the files are kept on board and that maintenance and repair work are properly recorded and kept on the files is to be made. |
| 11 Noise survey report | <ul style="list-style-type: none"> Confirmation that the report is kept on board |
| 12 Polar Water Operational Manual | <ul style="list-style-type: none"> For ships required to have the manual on board in accordance with the requirements of 2.3.1, Part I, confirmation that the manual is kept on board is to be made. |
| 13 Drawings indicating critical structural areas, construction monitoring plan and all construction monitoring survey records | <ul style="list-style-type: none"> For ships affixed with the notation “<i>HCM</i>” or “<i>HCM-GBS</i>”, confirmation that the documents are kept on board is to be made. |
| 14 Watertight cable penetration register | <ul style="list-style-type: none"> <u>Confirmation that the register is kept on board and updated as necessary is to be made.</u> |

Chapter 5 SPECIAL SURVEYS

5.2 Special Surveys for Hull, Equipment, Fire Extinction and Fittings

5.2.2 General Examination*

Sub-paragraph -1 has been amended as follows.

1 At Special Surveys, items (1) to (~~34~~) below in addition to hull, equipment, fire-extinction, and fittings specified in 4.2.2 are to be examined carefully.

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

(4) For watertight cable penetrations, the surveys specified in (a) to (c) below are to be carried out.

(a) All watertight cable penetrations are to be examined to confirm their satisfactory condition.

(b) The results of surveys are to be recorded in the watertight cable penetration register and the register is to be kept on board.

(c) Firms approved by the Society under the “Rules for Approval of Manufactures and Service Suppliers” may carry out inspections of watertight cable penetrations in cases where special consideration is given by the attending surveyor. The attending surveyor is to review the watertight cable penetration register which is recorded by the firm.

EFFECTIVE DATE AND APPLICATION (Amendment 1-1)

1. The effective date of the amendments is 1 July 2021.
2. Notwithstanding the amendments to the Rules, the current requirements apply to ships to 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.

Chapter 2 CLASSIFICATION SURVEYS

2.1 Classification Survey during Construction

2.1.4 Presence of Surveyor*

Sub-paragraphs -1 to -3 have been amended as follows.

1 The presence of the Surveyor is required at the following stages of the work in relation to hull and equipment~~s~~. To implement surveys of items specified otherwise by the Society, in lieu of traditional ordinary surveys where the Surveyor is in attendance, the Society may approve other survey methods which it considers to be appropriate in the following cases.

((1) to (17) are omitted.)

2 The presence of the Surveyor is required at the following stages of the work in relation to machinery~~s~~. To implement surveys of items specified otherwise by the Society, in lieu of traditional ordinary surveys where the Surveyor is in attendance, the Society may approve other survey methods which it considers to be appropriate in the following cases.

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

3 For ships carrying liquefied gases in bulk, ships carrying dangerous chemicals in bulk and ships using low-flashpoint fuels, the presence of the Surveyor is required for tests stipulated in **Part N**, **Part S** and **Part GF** respectively, in addition to the tests stipulated in -1 and -2. To implement the survey, in lieu of traditional ordinary surveys where the Surveyor is in attendance, the Society may approve other survey methods which it considers to be appropriate.

Chapter 3 ANNUAL SURVEYS

3.3 Annual Surveys for Machinery

Title of Paragraph 3.3.5 has been amended as follows.

3.3.5 Surveys of Selective Catalytic Reduction (SCR) Systems, ~~etc~~ Exhaust Gas Cleaning Systems (EGCS) and Exhaust Gas Recirculation (EGR) Systems.

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

2 For ships fitted with exhaust gas cleaning systems, the surveys are to be carried out in accordance with the following (1) to (4):

(1) The general conditions of exhaust gas cleaning systems are to be confirmed to be in good order. In particular, the general conditions of piping systems for washwater used in scrubber chambers is to be confirmed to be in good order.

((2) to (4) are omitted.)

Chapter 6 DOCKING SURVEYS

6.1 Docking Surveys

6.1.1 Surveys in Dry Dock or on Slipway*

1 At Docking Surveys, examinations listed in **Table B6.1** are to be carried out in the dry dock or on the slipway after cleaning the outer shell.

2 (Omitted.)

3 (Omitted.)

6.1.2 In-water Surveys*

(Omitted.)

Table B6.1 has been amended as follows.

Table B6.1 Requirements for Docking Surveys

| Items | Examinations |
|---|--|
| 1 Shell plating including keel plate, stem and stern frame | <ul style="list-style-type: none"> Discontinuous structures, structural parts liable to excessive corrosion and openings in the shell are to be examined carefully. Grillage covers are to be removed where deemed necessary by the Surveyor. |
| 2 Rudder | <ul style="list-style-type: none"> The rudder is to be lifted or removed and visible parts of the rudder, rudder pintles, gudgeons, rudder stocks and couplings and stern frame are to be examined. Where applicable, a pressure test of the rudder may be required as deemed necessary by the Surveyor. The rudder bearing clearance is to be measured. The rudder may not require lifting or removal provided the Surveyor is satisfied with the condition of the rudder by measurement of the clearance. |
| 3 Scupper, overboard discharges and sea inlets including distance pieces below freeboard deck, and valves and cocks on shell plating, sea chest or distance piece, and side thrusters | <ul style="list-style-type: none"> The main parts of valves and cocks are to be opened up and examined. The bolts or studs fastening these mountings to the hull are to be examined. The valves and cocks may not require open-up examination at the discretion of the Surveyor provided they were opened up and found to be in good order at the last Docking Survey. In cases where consecutive In-water Surveys in lieu of Docking Surveys conducted in dry dock or on slipway may be applied with Administration approval, the open-up examination of valves and cocks required may be exempted at the discretion of the Society provided they were examined (including visual inspection by diver) and found to be in good order. Side thrusters are to be visually examined for any damage which may affect the hull structure. For ships fitted with exhaust gas cleaning systems, the internal condition of distance pieces of piping systems for washwater used in scrubber chambers is to be examined for damage. |
| 4 Bush of stern tube bearing or shaft bracket bearing | <ul style="list-style-type: none"> The wear down of the bearing or the clearance between the propeller shaft (Except in the case of azimuth thrusters which use roller bearings as the bearings for propeller shafts) or stern tube shaft and the bearing is to be measured and recorded. |
| 5 Sealing devices for stern tube and shaft bracket bearing | <ul style="list-style-type: none"> In the case of oil or freshwater lubricated stern tube bearings, the efficiency of the oil or freshwater gland is to be checked. |
| 6 Propeller | <ul style="list-style-type: none"> Propellers are to be examined. Where a controllable pitch propeller is fitted, the pitch control device is to be examined without dismantling. |
| 7 Anchor, anchor chain, ropes, hose pipe, chain locker and cable clenchers | <ul style="list-style-type: none"> At the Docking Surveys carried out at the times specified in 1.1.3-1(4)(a), anchor and anchor chains are to be ranged and all chains and chain related equipment are to be verified and externally examined. In cases where In-water Surveys in lieu of Docking Surveys conducted in dry dock or on slipway may be applied at the times specified in 1.1.3-1(4)(a), anchors and anchor chains may not be required to be ranged and examined at the discretion of the Society provided they were examined (including visual inspection by diver) and found to be in good order. In such cases, anchors and anchor chains should be ranged and all chains and chain related equipment should be verified and externally examined at the next Docking Surveys conducted in dry dock or on slipway. At Special Survey No.2 and subsequent Special Surveys, the diameter of the anchor chain is to be measured. If the mean diameter of a link, at its most worn part, is reduced by 12% or more from its required nominal diameter, it is to be renewed. |
| 8 Tanks and spaces | <ul style="list-style-type: none"> The internal examination, close-up surveys and thickness measurements (if applicable and not already carried out) are to be carried out as stipulated below. <ul style="list-style-type: none"> (i) At Docking Surveys in the dry dock or on the slipway carried out in conjunction with Special Surveys or at the times specified in 4.1.1-2., at least the portions below the light ballast water line of the cargo holds/tanks and water ballast tanks (ii) At Docking Surveys carried out at the times specified in 1.1.6-5 as far as practicable. |
| 9 Installations for In-water Surveys | <ul style="list-style-type: none"> With regard to ships having the approval for conducting In-water Surveys based on the requirements in 6.1.2, Surveyors are to confirm that the means and installations specified in 6.1.2-4 are in good condition. |

Chapter 9 PLANNED MACHINERY SURVEYS

9.1 Planned Machinery Surveys

Paragraph 9.1.5 has been amended as follows.

9.1.5 Periodical Surveys

In place of the Planned Machinery Surveys prescribed in 9.1.2 to 9.1.4, the surveys specified in Table B9.1 may be carried out at Special Surveys prescribed in 1.1.3 to ascertain that all the machinery is placed in good order. However, at Special Surveys of ships equipped with two or more propeller shafting systems driven by identical main engines, surveys of the main engine components that were examined in accordance with the requirements for Special Surveys after the Classification Survey* during Construction or the previous Special Survey may be omitted where deemed appropriate by the Surveyor, considering the time the engines were examined, the service history of the engines, the present condition and whether or not they were subject to a Classification Survey during Construction. Gas turbines may be replaced in rotation with spare sets that are to be overhauled and stored on shore in place of undergoing open-up examinations provided that the survey schedule table (including the overhaul procedures and storing method of the spare sets on shore) is submitted for Society approval in advance.

Table 9.1 has been amended as follows.

Table B9.1 Open-up Surveys of Machinery and Equipment

| Items | Examinations |
|---|---|
| 1 Reciprocating internal combustion engines (main engine) | Cylinder covers, cylinder liners, pistons (including piston pins and piston rods), crosshead pins and bearings, connecting rods, crank pins and their bearings, crank journals and their bearings, camshafts and their driving gears, turbo chargers, scavenge air pumps or blowers, air intercoolers, attached essential pumps (bilge, lubricating oil, fuel oil, cooling water) are to be opened up. |
| 2 Steam turbines (main engine) | Turbine rotors together with bearings, turbine casings, turbine and reduction gear couplings, nozzle valves and manoeuvring valves are to be opened up. |
| 3 Gas turbines (main engine) | <u>The essential parts of gas turbines together with their associated equipment are to be opened up and examined.</u> |
| 34 Power transmission systems and shafting systems (except for those for which item 67 is applicable) | <ul style="list-style-type: none"> • Reduction gears, reversing gears and clutch gears are to be opened up to the Surveyor's satisfaction, and the gears, shafts, bearings and couplings are to be examined. • The essential parts of flexible couplings are to be opened up. • The Thrust shafts, intermediate shafts and their bearings (excluding <u>the</u> stern tube bearings, and the shaft bracket bearings <u>and the main bearings of waterjet propulsion systems</u>) are to be examined by removing the upper bearing halves or their bearing metals and thrust pads and turning the shaft. • The essential parts of other power transmission gears are to be subjected to open-up examinations to the Surveyor's satisfaction. |
| 45 Auxiliary engines | Auxiliary engines driving generators (including emergency generators), auxiliary machinery essential for main propulsion and auxiliary machinery for manoeuvring and personnel safety are to be handled in accordance with the requirements applicable to main engines. |
| 56 Water jet propulsion systems | <ul style="list-style-type: none"> • Hydraulic pumps for steering actuating systems are to be opened up. • Lubricating oil pumps are to be opened up. • Coolers are to be opened up. • Other items considered to be necessary by the Society are to be opened up. |

| | |
|---|---|
| <p>67 Azimuth thrusters</p> | <ul style="list-style-type: none"> • For gears, gear shafts, shaft couplings, bearings and clutches for propulsion, these items are to be opened up as deemed necessary by the Surveyor so that they can be inspected. However, this may be carried out concurrently with the surveys specified in Chapter 8. • For gears, gear shafts, shaft couplings and bearings for steering, these items are to be opened up as deemed necessary by the Surveyor so that they can be inspected. However, this may be carried out concurrently with the surveys specified in Chapter 8. • Hydraulic pumps and hydraulic motors for azimuth steering gears are to be opened up. • Lubricating oil pumps are to be opened up. • Coolers are to be opened up. • Other items considered to be necessary by the Society are to be opened up. |
| <p>78 Auxiliary machinery (except for those for which item 56 or 67 is applicable)</p> | <p>The essential parts of the following auxiliary machinery are to be subjected to open-up examinations.</p> <ul style="list-style-type: none"> (a) Air compressors, blowers (b) Cooling pumps (c) Fuel oil pumps (d) Lubricating oil pumps (e) Feed pumps, condensing pumps, drain pumps (f) Bilge pumps, ballast pumps, fire pumps (excluding those for emergency use) (g) Condensers, feed water heaters (h) Coolers (i) Oil heaters (j) Fuel oil tanks (k) Air reservoirs (including those for main, auxiliary, control, general service and emergency use) (l) Cargo piping systems (including bulk liquid cargo handling appliances as necessary) (m) Deck machinery (n) Distilling plants (for boilers used for driving steam turbines) (o) Other items considered to be applicable under the Planned Machinery Survey by the Society |

Chapter 10 SURVEYS FOR STEEL BARGES

10.2 Classification Survey during Construction

10.2.3 Presence of Surveyors

Sub-paragraph -2 has been amended as follows.

2 For barge machinery, the presence of the Surveyor is required at the following stages of work notwithstanding the requirements in **2.1.4-2**. Submission of the test data specified in **20.16.1-2, -4 and -5 of Part Q** may be required where deemed necessary by the Surveyor. To implement surveys of items specified otherwise by the Society, in lieu of traditional ordinary surveys where the Surveyor is in attendance, the Society may approve other survey methods which it considers to be appropriate in the following cases.

((1) to (7) are omitted.)

Chapter 11 SURVEYS OF SUBMERSIBLES

11.2 Classification Survey during Construction

Paragraph 11.2.3 has been amended as follows.

11.2.3 Presence of the Surveyor

The presence of the Surveyor is required at the following stages. To implement surveys of the items specified otherwise by the Society, in lieu of traditional ordinary surveys where the Surveyor is in attendance, the Society may approve other survey methods which it considers to be appropriate in the following cases.

((1) to (9) are omitted.)

Chapter 12 SURVEYS FOR MOBILE OFFSHORE DRILLING UNITS AND SPECIAL PURPOSE BARGES

12.2 Classification Survey during Construction

12.2.3 Presence of Surveyor*

Sub-paragraph -1 has been amended as follows.

1 During the Classification Survey, the presence of the Surveyor is required at the following stages of the work in relation to hull construction, equipment, machinery and electrical installations. To implement surveys of items specified otherwise by the Society, in lieu of traditional ordinary surveys where the Surveyor is in attendance, the Society may approve other survey methods which it considers to be appropriate in the following cases.

- (1) When specified by the requirements of **2.1.4-1** and **2.1.4-2** or when conducting the tests, examinations or inspections specified in **12.2.4** and **12.2.6**
- (2) For machinery and electrical installations, when the tests, examinations or inspections specified in **11.1.23** ~~or~~ and 12.1.23, **Part P** are carried out
- (3) For column-stabilized units, when the draught scales are fitted
- (4) For large storage units, when the operation test of rupture hatches is carried out at a pressure below the design operational pressure
- (5) For units requiring the mooring system specified in **Chapter 10, Part P**, when that system is installed on the unit
- (6) For units with a dynamic positioning system, when components of the dynamic positioning system are installed on the units and tests are carried out in accordance with the testing procedure
- (7) For mobile offshore drilling units, when each part of drilling derricks and substructures including supporting structures of drilling derricks is completed and drilling derricks and substructures are installed on board.

Chapter 14 SURVEY FOR FLOATING OFFSHORE FACILITIES FOR CRUDE OIL/PETROLEUM GAS PRODUCTION, STORAGE AND OFFLOADING

14.2 Classification Surveys

Paragraph 14.2.3 has been amended as follows.

14.2.3 Presence of Surveyors

1 At Classification Surveys during construction, the presence of a surveyor is required at all stages of the work on hull construction, equipment, machinery and electrical installations in cases where the tests, examinations or inspections specified in 2.1 and 14.2.4 to 14.2.8 are carried out and in cases where the submitted plans and documents regarding tests, examinations or inspections specified in 14.2.2 are verified by the Society. To implement surveys of items specified otherwise by the Society, in lieu of traditional ordinary surveys where a surveyor is in attendance, the Society may approve other survey methods which it considers to be appropriate.

Chapter 15 SURVEYS FOR WORK-SHIPS

15.2 Classification Surveys during Construction

15.2.3 Presence of Surveyor*

Sub-paragraph -1 has been amended as follows.

1 During the Classification Surveys, with respect to the stages of work related to hull construction, equipment, machinery and electrical installations, the presence of a Surveyor is required at the following stages in addition to those specified in 2.1.4~~7~~. To implement surveys of items specified otherwise by the Society, in lieu of traditional ordinary surveys where a Surveyor is in attendance, the Society may approve other survey methods which it considers to be appropriate in the following cases.

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

EFFECTIVE DATE AND APPLICATION (Amendment 1-2)

- 1.** The effective date of the amendments is 1 July 2021.

Chapter 12 SURVEYS FOR MOBILE OFFSHORE DRILLING UNITS AND SPECIAL PURPOSE BARGES

12.2 Classification Survey during Construction

12.2.2 Submission of Plans and Documents*

Sub-paragraphs -1 and -2 have been amended as follows.

1 Submission of Plans and Documents for Approval

With respect to the Classification Survey during Construction, the following plans and documents are to be submitted to the Society for approval before the work is commenced.

- (1) Hull
 - ((a) to (f) are omitted.)
 - (g) Arrangements and construction of ~~positioning~~ mooring systems
 - ((h) to (q) are omitted.)
- (2) Machinery
 - ((a) to (c) are omitted.)
 - (d) For units with a dynamic positioning system, the following plans.
 - i) Arrangement and configuration of the dynamic positioning system
 - ii) Construction and control diagrams of the dynamic positioning system
 - ((e) and (f) are omitted.)
- (3) Operations
 - (a) Operating manuals specified in **18.1, Part P**
 - (b) Other plans ~~and/or~~ documents deemed necessary by the Society.

2 Submission of Plans and Documents for Reference

With respect to the Classification Survey during Construction, the following plans and documents are to be submitted for reference in addition to the plans and documents specified in -1.

- ((1) to (18) are omitted.)
- (19) Calculation sheets for ~~positioning~~ mooring systems
- (20) For units with a dynamic positioning system, the following plans and documents.
 - (a) Calculation sheets for the dynamic positioning system
 - (b) Procedures of testing the dynamic positioning systems (including test items of Periodical Surveys, test procedures, criteria, etc.)
 - (c) For units with a Class 2 or Class 3 dynamic positioning system, reports of Failure Modes and Effects Analysis (FMEA), and the testing procedures of demonstration tests
- (21) Other plans ~~and/or~~ documents deemed necessary by the Society.

3 (Omitted)

12.2.3 Presence of Surveyor*

Sub-paragraph -1(6) has been amended as follows.

1 During the Classification Survey, the presence of the Surveyor is required at the following stages of the work in relation to hull construction, equipment, machinery and electrical installations.

- (1) When specified by the requirements of **2.1.4-1** and **2.1.4-2** or when conducting the tests, examinations or inspections specified in **12.2.4**, and **12.2.6**

- (2) For machinery and electrical installations, when the tests, examinations or inspections specified in 11.1.2 or 12.1.2, **Part P** are carried out
- (3) For column-stabilized units, when the draught scales are fitted
- (4) For large storage units, when the operation test of rupture hatches is carried out at a pressure below the design operational pressure
- (5) For units requiring the mooring system specified in **Chapter 10, Part P**, when that system is installed on the unit
- (6) For units with a dynamic positioning system specified in Chapter 10, Part P, when components of the dynamic positioning system are installed on the units and tests are carried out in accordance with the testing procedure at the following stages.
 - (a) When components of the dynamic positioning system are installed on the units.
 - (b) When tests are carried out in accordance with the testing procedures.
 - (c) For units with a Class 2 or Class 3 dynamic positioning system, when tests for Failure Modes and Effects Analysis (FMEA) are carried out in accordance with testing procedures of demonstration tests.
- (7) For mobile offshore drilling units, when each part of drilling derricks and substructures including supporting structures of drilling derricks is completed and drilling derricks and substructures are installed on board.

12.2.5 Documents to be Maintained On Board

Sub-paragraph (4) has been amended as follows.

At the completion of a classification survey, the Surveyor confirm that the applicable documents specified in 2.1.6 and the following drawings, plans, manuals, lists, etc, are provided on board the unit.

- (1) Stability information booklets
 - (2) Loading manual, for units which require one according to the requirements in 7.6.1-2, **Part P**
 - (3) Operating manuals specified in 18.1, **Part P**
 - (4) ~~Testing procedure for dynamic positioning systems,~~ For units with a dynamic positioning system, the following documents.
 - (a) Testing procedures for dynamic positioning systems and the corresponding test results
 - (b) For units with a Class 2 or Class 3 dynamic positioning system, reports of Failure Modes and Effects Analysis (FMEA), the testing procedures of demonstration tests, and the corresponding test results in addition to the results required by (a) above
 - (5) Access Manual specified in 9.6.5, **Part P**
 - (6) (Omitted)
 - (7) (Omitted)
- ((a) to (d) are omitted.)

12.3 Annual Surveys

12.3.2 Annual Surveys for Hull, Equipment, Fire Extinguishing Systems, and Fittings*

Sub-paragraph -1 has been amended as follows.

1 It is to be verified that the following documents and booklets are kept on board and readily available.

- (1) The approved stability booklet

- (2) Loading manual, for units which require one according to the requirements in **7.6.1-2, Part P**
- (3) Operating manuals specified in **18.1, Part P**
- ~~(4) Testing procedure for dynamic positioning systems, for units with a dynamic positioning system~~
- ~~(5)~~ Relevant items listed **Table B3.1** corresponding to the unit's hull structure and purpose

Paragraph 12.3.3 has been amended as follows.

12.3.3 Annual Surveys for Machinery and Electrical Installations

1 At Annual Surveys for machinery and electrical installations, general examinations of relevant machinery and electrical installations specified in **3.3** are to be carried out in addition to the following surveys.

- (1) General conditions of electrical installations in hazardous areas are to be examined. For units of ten *years* of age and over, insulation resistance of these installations is to be measured. This measurement, however, may be dispensed with where proper measurement records have been kept on board and are found to be satisfactory by the Surveyor.
- (2) For self-elevating units, the condition of the jacking or elevating systems and the leg guides is to be examined.
- (3) For units with a dynamic positioning system, a general examination of its components and a performance test for all important systems and components in accordance with the testing procedure for dynamic positioning systems is to be carried out.

2 For units with a dynamic positioning system, it is to be verified that the following documents are kept on board and readily available.

- (1) Testing procedures for dynamic positioning systems and the corresponding test results
- (2) Details of tests conducted at occasional surveys and the corresponding test results
- (3) For units with a Class 2 or Class 3 dynamic positioning system, reports of Failure Modes and Effects Analysis (FMEA), the testing procedures of demonstration tests, and the corresponding test results in addition to the results required by (1) and (2) above

12.5 Special Surveys

12.5.2 Special Surveys for Hull, Equipment, Fire Extinguishing Systems, and Fittings*

Sub-paragraph -2(7) has been deleted.

2 Surveys for hull, equipment, fire extinguishing systems and fittings

At Special surveys, the following surveys are to be carried out, in addition to the relevant survey items specified in **5.2.2** through **5.2.7** corresponding to the unit's structure, equipment, etc. The hull, equipment, fire fighting systems and fittings specified in **12.4.2-2** are to be examined thoroughly. Close-up surveys using remote inspection techniques (RIT) may be accepted subject to prior special consideration by the surveyor. In such cases, the close-up surveys using RIT is to be carried out under the direction, and in the presence, of the surveyor.

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

- ~~(7) For units with a dynamic positioning system, a general examination of its components and fittings and an operating test is to be carried out in accordance with the test procedure for dynamic positioning systems.~~

Paragraph 12.5.3 has been amended as follows.

12.5.3 Special Surveys for Machinery and Electrical Installations*

At Special Surveys for machinery and electrical installations, examinations specified in 12.3.3 and 5.3 corresponding to the type of machinery and electrical installations are to be carried out. ~~For self-elevating units, a general examination of the jack up system is to be carried out. Where deemed necessary by the Surveyor, an overhaul examination of the jack up system is to be carried out in addition to the following surveys.~~

- (1) For self-elevating units, a general examination of the jack up system is to be carried out. Where deemed necessary by the Surveyor, an overhaul examination of the jack up system is also to be carried out.
- (2) For units with a dynamic positioning system, performance tests for all systems and components are to be carried out in accordance with the testing procedures for dynamic positioning systems. For units with a Class 2 or Class 3 dynamic positioning system, additional tests for Failure Modes and Effects Analysis (FMEA) are to be carried out in accordance with the testing procedures of demonstration tests.

12.6 Docking Surveys

12.6.2 Docking Surveys*

Sub-paragraph -1(4) has been amended as follows.

1 General

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

- ~~(4) For units with a dynamic positioning system, a general examination of installations and its fittings and a performance test are to be carried out in accordance with the testing procedure for components comprising dynamic positioning systems.~~

Chapter 15 SURVEYS FOR WORK-SHIPS

15.2 Classification Surveys during Construction

15.2.2 Submission of Plans and Documents*

Sub-paragraphs -1 and -2 have been amended as follows.

1 In the Classification Survey during Construction, the following* plans and documents in addition to those plans and documents specified in relevant requirements in **2.1.2** are to be submitted to the Society for approval 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) and (2) are omitted.)

(3) The following plans and documents for dynamic positioning systems in cases where such a system is installed on the ship

(a) ~~Arrangements and construction of the dynamic positioning system~~ Operating manuals specified in 18.1, Part P

(b) ~~Construction and control diagrams of the dynamic positioning system~~ Plans specified in 12.2.2-1(2)(d)

(4) (Omitted)

((a) and (b) are omitted.)

2 In the Classification Survey during Construction, the following plans and documents in addition to those plans and documents specified in relevant requirements in -1 above and **2.1.3** are to be submitted for reference.

(1) ~~The following plans and documents for dynamic positioning systems in cases where such a system is installed on the ship.~~ For units with a dynamic positioning system, the plans and documents specified in 12.2.2-2(20)

~~(a) Calculation sheets for dynamic positioning systems~~

~~(b) Procedures for testing dynamic positioning systems (including the test items of Periodical Surveys, test procedures, criteria, etc.)~~

(2) For self-elevating ships, the following plans and documents:

(a) Calculations substantiating the adequacy of the structure to transmit forces between legs and the hull through jacking or other elevating systems

(b) Calculation of the ship's ability to resist overturning

(3) Operating manuals (excluding those for dynamic positioning systems)

(4) (Omitted)

(-3 and -4 are omitted.)

15.2.3 Presence of Surveyor*

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

1 During the Classification Surveys, with respect to the stages of work related to hull construction, equipment, machinery and electrical installations, the presence of a Surveyor is required at the following stages in addition to those specified in **2.1.4**:

(1) When performance tests, including the tests specified in **1.5 of Annex 4.4.2-3, Part O**, are carried out on work-related installations

(2) For ships with a dynamic positioning system, ~~when components of the dynamic positioning~~

~~system are installed on the ship and tests are carried out in accordance with the testing procedure as specified in 12.2.3(6)~~

15.2.5 Documents to be Maintained On Board

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

At the completion of a classification survey, the Surveyor is to confirm that the finished versions of the following in addition to all of the applicable drawings, plans, manuals, lists, etc. listed in 2.1.6, are on board.

- (1) Operating manuals
- (2) ~~Testing procedure for dynamic positioning systems, f~~For ships with a dynamic positioning system, the documents specified in 12.2.5(4)
- (3) (Omitted)
(a) and (b) are omitted.)

15.3 Annual Surveys

15.3.2 Annual Surveys for Hull, Equipment, Fire Extinguishing Systems, and Fittings*

Sub-paragraph -1(3) has been deleted.

1 It is to be verified that the following documents and booklets have been kept on board and are readily available.

- (1) Relevant items listed **Table B3.1** corresponding to the ship's hull structure and purpose
- (2) Operating manuals
- ~~(3) Testing procedure for dynamic positioning systems, for ships with a dynamic positioning system~~

Paragraph 15.3.3 has been amended as follows.

15.3.3 Annual Surveys for Machinery and Electrical Installations*

1 At Annual Surveys for machinery and electrical installations, general examinations of the relevant machinery and electrical installations specified in 3.3 are to be carried out in addition to the following surveys:

- (1) General examinations of work-related installations are to be carried out. In cases where deemed necessary by the Surveyor, performance tests of work-related installations may be required.
- (2) For ships with a dynamic positioning system, ~~a general examination of its components and a performance test in accordance with the testing procedure for dynamic positioning systems~~ the survey specified in 12.3.3-1(3) is to be carried out.
- (3) General conditions of the electrical installations in hazardous areas are to be examined. For ships of ten *years* of age and over, insulation resistance of these installations is to be measured. This measurement, however, may be dispensed with where proper measurement records are kept on board and are found to be satisfactory by the Surveyor.
- (4) For self-elevating ships, the condition of jacking or elevating systems and leg guides is to be examined.

2 For units with a dynamic positioning system, it is to be verified that the documents and booklets specified in 12.3.3-2 are kept on board and readily available.

15.5 Special Surveys

15.5.2 Special Surveys for Hull, Equipment, Fire Extinguishing Systems and Fittings

Sub-paragraph -2 has been amended as follows.

2 Special Surveys for Hull, Equipment, Fire Extinguishing Systems, and Fittings

At Special surveys, ~~the following survey items are to be examined, in addition to the relevant survey items specified in 5.2.2 through 5.2.7 corresponding to the ship's structure, equipment, etc. are to be examined. In addition, the hull, equipment, fire extinguishing systems and fittings specified in 15.4.2-2 are to be examined thoroughly.~~

~~(1) For ships with a dynamic positioning system, a general examination of its components and fittings and an operating test is to be carried out in accordance with the test procedure for dynamic positioning systems.~~

15.6 Docking Surveys

15.6.1 General*

Sub-paragraph -2 has been amended as follows.

2 For ships with a dynamic positioning system, ~~a general examination of installations and its fittings and a performance test are to be carried out in accordance with the testing procedure for dynamic positioning systems~~ the survey specified in 12.6.2-1(4) is to be carried out.

EFFECTIVE DATE AND APPLICATION (Amendment 1-3)

- 1.** The effective date of the amendments is 1 July 2021.
- 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.

Chapter 15 SURVEYS FOR WORK-SHIPS

15.2 Classification Surveys during Construction

15.2.2 Submission of Plans and Documents*

Sub-paragraphs -1 and -2 have been amended as follows.

1 In the Classification Survey during Construction, the followings plans and documents in addition to those plans and documents specified in relevant requirements in **2.1.2** are to be submitted to the Society for approval 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) Plans for the installations and machinery for the intended work (hereinafter referred to as “work-related installations”). ~~This is to include the following (a) and (b) in the case of ships to which 4.4.2-3, Part O applies:~~

~~(a) The method for annual survey of the towing winch specified in 1.4.2-10 of Annex 4.4.2-3, Part O~~

~~(b) The performance capabilities and operating instructions of the towing winch emergency release system specified in 1.5.1-3 of Annex 4.4.2-3, Part O~~

((2) to (4) are omitted.)

2 In the Classification Survey during Construction, the following plans and documents in addition to those plans and documents specified in relevant requirements in -1 above and **2.1.3** are to be submitted for reference.

(1) The following plans and documents for dynamic positioning systems in cases where such a system is installed on the ship

(a) Calculation sheets for dynamic positioning systems

(b) Procedures for testing dynamic positioning systems (including the test items of Periodical Surveys, test procedures, criteria, etc.)

(2) For self-elevating ships, the following plans and documents:

(a) Calculations substantiating the adequacy of the structure to transmit forces between legs and the hull through jacking or other elevating systems

(b) Calculation of the ship’s ability to resist overturning

(3) Operating manuals

(4) For machinery installations used solely for operations that are the purpose of the ship: plans and documents indicating the safety devices of such machinery installations and those specified in **Chapters 9 and 10, Part D**

(5) For self-elevating ships to which 4.4.2-3, Part O applies, this is to include the following (a) and (b)

(a) The performance capabilities and instructions for operation of the towing winch emergency release systems specified in 1.5.1-3 of Annex 4.4.2-3, Part O

(b) Instructions for the surveys of the towing winch emergency release systems specified in 1.5.1-4 of Annex 4.4.2-3, Part O

15.2.5 Documents to be Maintained On Board

Sub-paragraph (3) has been amended as follows.

At the completion of a classification survey, the Surveyor is to confirm that the finished versions of the following in addition to all of the applicable drawings, plans, manuals, lists, etc. listed in 2.1.6, are on board.

- (1) Operating manuals
- (2) Testing procedure for dynamic positioning systems, for ships with a dynamic positioning system
- (3) The following (a) and (b) in the case of ships to which 4.4.2-3, Part O applies:
~~(a) The method for annual survey of the towing winch specified in 1.4.2-10 of Annex 4.4.2-3, Part O~~
(a) The performance capabilities and operating instructions of the towing winch emergency release system specified in 1.5.1-3 of Annex 4.4.2-3, Part O
(b) Instructions for the surveys of the towing winch emergency release system specified in 1.5.1-4 of Annex 4.4.2-3, Part O

15.3 Annual Surveys

15.3.2 Annual Surveys for Hull, Equipment, Fire Extinguishing Systems, and Fittings*

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

2 Annual Surveys for Hulls, Equipment, Fire Extinguishing Systems and Fittings

At Annual Surveys, the following inspections are to be carried out, in addition to the relevant survey items specified in 3.2.2 through 3.2.7 corresponding to hull structure, equipment, purpose, etc.

- (1) A general examination of work-related installations and their supporting structures.
- (2) ~~An inspection according to the method specified in 15.2.5(3)(a) in the case of~~ For ships to which 4.4.2-3, Part O applies and ships for which the date of contract for construction is on or after 1 January 2020, the following inspections are to be carried out.
 - (a) Operation of the towing winch emergency release system is to be confirmed with the reference to the documented instructions for surveys provided by the manufacturer. Operation of the winch emergency release system under no load condition is to be verified. Where practical, activation of the emergency release system may be confirmed by observation of the winch brake.
 - (b) The function of the alarms associated with the emergency release system is to be verified, as far as practicable and reasonable.
 - (c) The condition of the emergency release system is to be visually examined to confirm it remains in satisfactory condition.
 - (d) The means of emergency release of the towline in the event of a blackout is to be examined, and where additional sources of energy are arranged for this purpose, the sources of energy are to be visually inspected and operationally tested.
 - (e) It is to be verified that the performance capabilities and operating instructions of the emergency release system are documented and made available on board the ship on which the winch has been installed.

15.5 Special Surveys

15.5.2 Special Surveys for Hull, Equipment, Fire Extinguishing Systems and Fittings

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

2 Special Surveys for Hull, Equipment, Fire Extinguishing Systems, and Fittings

At Special surveys, the following survey items are to be examined, in addition to the relevant survey items specified in 5.2.2 through 5.2.7 corresponding to the ship's structure, equipment, etc. The hull, equipment, fire extinguishing systems and fittings specified in 15.4.2-2 are to be examined thoroughly.

- (1) For ships with a dynamic positioning system, a general examination of its components and fittings and an operating test is to be carried out in accordance with the test procedure for dynamic positioning systems.
- (2) For ships to which 4.4.2-3, Part O applies and ships for which the date of contract for construction is on or after 1 January 2020, the following inspections are to be carried out.
 - (a) The surveys specified in 15.3.2-2(2) are to be carried out, with the additional instructions for special survey provided by the manufacturer, as appropriate, being followed.
 - (b) The full functionality of the emergency release system is to be tested to the satisfaction of the surveyor. Testing may be conducted either during a bollard pull test or by applying the load against a strong point on the deck of the tug or the shore that is certified to the appropriate load.
 - (c) The emergency release system is to be tested at a towline load that is equal to the lesser of 30 % of the maximum design load or 80 % of vessel bollard pull in both a normal power condition and power blackout condition to the satisfaction of the surveyor.

EFFECTIVE DATE AND APPLICATION (Amendment 1-4)

1. The effective date of the amendments is 1 July 2021.
2. Notwithstanding the amendments to the Rules, the current requirements apply to the surveys of the towing winch emergency release systems for which the application is submitted to the Society before the effective date.

GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

Part B

Class Surveys

GUIDANCE

2021 AMENDMENT NO.1

Notice No.28 30 June 2021

Resolved by Technical Committee on 27 January 2021

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 B CLASS SURVEYS

Amendment 1-1

B2 CLASSIFICATION SURVEYS

B2.1 Classification Survey during Construction

Paragraph B2.1.4 has been amended as follows.

B2.1.4 Presence of Surveyor

~~1 At the tests for the equipment prescribed~~ The wording “items specified otherwise by the Society” and the wording “survey methods which it considers to be appropriate” in ~~2.1.4-1(1), Part B of the Rules~~ mean to be in accordance with the following (1) and (2) respectively:

- (1) The wording “the items specified otherwise by the Society” means surveys of the tests specified in ~~2.1.4-1(1) and (3), Part B of the Rules.~~
- (2) ~~in lieu of the traditional ordinary surveys where a surveyor is in attendance, the Society may approve~~ The wording “the Society may approve other survey methods which it considers to be appropriate” means the survey methods which it considers to be able to obtain information equivalent to that obtained through traditional ordinary surveys where the Surveyor is in attendance.

(-2 to -6 are omitted.)

~~7~~ The wording “items specified otherwise by the Society” in ~~2.1.4-2, Part B of the Rules~~ means surveys of the tests specified in ~~-2(1) and -2(a), and the wording “the Society may approve other survey methods which it considers to be appropriate” is to be in accordance with -1(2).~~

~~8~~ The wording “the Society may approve other survey methods which it considers to be appropriate” in ~~2.1.4-3, Part B of the Rules~~ means to be in accordance with ~~-1(2).~~

~~97~~ (Omitted)

~~108~~ (Omitted)

B9 PLANNED MACHINERY SURVEYS

B9.1 Planned Machinery Surveys

B9.1.4 Condition Based Maintenance Scheme (CBM)

Sub-paragraph -6(3) has been amended as follows.

6 Surveys of CBM

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

(3) Annual survey

An annual survey is to be carried out to verify that the scheme is being correctly operated and maintenance of machinery, equipment or associated components whose condition monitoring and diagnosis results were abnormal since the last survey has been carried out. At the annual survey the following (a) to (g) are to be verified. In cases where it is deemed necessary by the Surveyor (in consideration of the results of this verification) open-up examinations, function tests, confirmatory tests and readings of condition monitoring parameters may be required as far as practicable. In addition, condition monitoring records and maintenance records are to be available on board ships.

((a) to (f) are omitted.)

(g) The following documents are available on board ships

- i) Documents specified in -4(1) and (2)
- ii) Maintenance instructions issued by manufacturers or shipyards
- iii) Condition monitoring records and initial obtained baseline data specified in -5(5)
- iv) Machinery maintenance records specified in -5(6)
- v) Reference documents (trend investigation procedures, etc.)
- vi) Records of changes to software systems and parameters
- vii) Sensors calibration records / certification / status

B10 SURVEYS FOR STEEL BARGES

Section B10.2 has been added as follows.

B10.2 Classification Survey during Construction

B10.2.3 Presence of Surveyors

The wording “items specified otherwise by the Society” in 10.2.3, Part B of the Rules means surveys of the tests specified in 10.3.2-2(1) to (3), Part B of the Rules, and the wording “the Society may approve other survey methods which it considers to be appropriate” means to be in accordance with B2.1.4-1(2).

B11 SURVEYS OF SUBMERSIBLES

Section B11.2 has been added as follows.

B11.2 Classification Survey during Construction

B11.2.3 Presence of Surveyors

The wording “items specified otherwise by the Society” in 11.2.3, Part B of the Rules means surveys of the tests specified in 11.3.2-2(1) and (7), Part B of the Rules as well as 7.2.1 and 7.2.2, Part T of the Rules, and the wording “the Society may approve other survey methods which it considers to be appropriate” means to be in accordance with B2.1.4-1(2).

B12 SURVEYS FOR MOBILE OFFSHORE DRILLING UNITS AND SPECIAL PURPOSE BARGES

B12.2 Classification Survey during Construction

B12.2.3 Presence of Surveyor

Sub-paragraph -7 has been renumbered to Sub-paragraph -8, and Sub-paragraph -7 has been added as follows.

7 The wording “items specified otherwise by the Society” in 12.2.3-1, Part B of the Rules means surveys of the tests specified in 12.3.2-1(2) and 12.2.4, Part B of the Rules as well as B2.1.4-1(1), and the wording “the Society may approve other survey methods which it considers to be appropriate” means to be in accordance with B2.1.4-1(2).

~~78~~ (Omitted)

B14 has been added as follows.

B14 SURVEY FOR FLOATING OFFSHORE FACILITIES FOR CRUDE OIL/PETROLEUM GAS PRODUCTION, STORAGE AND OFFLOADING

B14.2 Classification Surveys

B14.2.3 Presence of Surveyors

The wording “items specified otherwise by the Society” in 14.2.3-1, Part B of the Rules means surveys of the tests specified the relevant requirements in 2.1.4, Part B of the Rules and 14.2.4-2, and the wording “the Society may approve other survey methods which it considers to be appropriate” means to be in accordance with B2.1.4-1(2).

B15 SURVEYS FOR WORK-SHIPS

B15.2 Classification Surveys during Construction

B15.2.3 Presence of Surveyor

Sub-paragraph -3 has been added as follows

3 The wording “items specified otherwise by the Society” in 15.2.3-1, Part B of the Rules means surveys of the shop tests specified in 2.1.4, Part B of the Rules and 1.5 of Annex 4.4.2-3, Part O of the Rules, and the wording “the Society may approve other survey methods which it considers to be appropriate” means to be in accordance with B2.1.4-1(2).

EFFECTIVE DATE AND APPLICATION (Amendment 1-1)

1. The effective date of the amendments is 1 July 2021.

B2 CLASSIFICATION SURVEYS

B2.1 Classification Survey during Construction

B2.1.4 Presence of Surveyor

Sub-paragraph -3 has been amended as follows.

3 Non-destructive inspections of welded joints of the hull construction is to be in accordance with the requirements specified in ~~ANNEX M1.4.2-3(1) “GUIDANCE FOR NON-DESTRUCTIVE INSPECTIONS ON INTERNAL IMPERFECTIONS OF THE WELDED JOINTS OF HULL CONSTRUCTIONS”~~ Chapter 8, Part M of the Rules.

B2.1.6 Documents to be Maintained On Board

Sub-paragraph -1 has been amended as follows.

1 Test plans, test records, and measurement records for the ship specified in ~~2.1.6-2(123)~~ and ~~-3(123)~~, **Part B of the Rules** are to include the following items. The allowable deviations referred to in (1) below mean allowable values stipulated in appropriate standards such as *JSQS* or other equivalent values that are applied to the ship.

Sub-paragraph -10 has been added as follows.

10 The watertight cable penetration register specified in 2.1.6-1.(2)(x), -2.(12) and -3(12), Part B of the Rules is to be in accordance with (1) to (4) below.

- (1) All watertight cable penetrations are to be recorded and identified in the watertight cable penetration register. This is to includes documentation referencing the manufacturer manual(s) for each type of watertight cable penetration installed, the type approval certificate for each type of watertight cable penetration, applicable installation drawings, a recording of each installed watertight cable penetration documenting the as-built condition after final inspection at the shipyard and sections to record any inspection, modification, repair and maintenance.
- (2) The watertight cable penetration register is to be provided by the shipbuilder and reviewed by the attending surveyor.
- (3) The watertight cable penetration register can be either a hard copy or digitized media.
- (4) For unmanned vessels, the watertight cable penetration register may be kept on shore.

EFFECTIVE DATE AND APPLICATION (Amendment 1-2)

1. The effective date of the amendments is 1 July 2021.
2. Notwithstanding the amendments to the Guidance, the current requirements apply to ships to 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.