



# RUSSIAN MARITIME REGISTER OF SHIPPING

**CIRCULAR LETTER**

**No. 340-02-1478c**

dated 07.12.2020

Re:

amendments to the Rules for the Classification Surveys of Ships in Service and Annexes thereto considering the experience of technical supervision

Item(s) of supervision:

ships and offshore installations in service

Entry-into-force date:

**01.01.2021**

~~Valid till:~~

~~Validity period extended till:~~

~~Cancels / amends / adds Circular Letter No.~~

~~dated~~

Number of pages:

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Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Part I "General Provisions", Part II "Survey Schedule and Scope", Part III "Additional Surveys of Ships Depending on their Purpose and Hull Material", Annex I "Technical Documentation for the Items of RS Technical Supervision", Annex II "Instructions for Determination of the Technical Condition and Repair of the Hulls of Sea-Going Ships", Annex III "List of Documents Recommended for Use During Repair of the Ship's Hull and Arrangements"

Director General

Konstantin G. Palnikov

Text of CL:

We hereby inform that the Rules for the Classification Survey of Ships in Service and Annexes thereto shall be amended at re-publication in 2021 as specified in the Appendices to the Circular Letter.

It is necessary to do the following:

1. Bring the content of the Circular Letter to the notice of the RS surveyors and interested organizations in the area of the RS Branch Offices' activities.
2. Apply the provisions of the Circular Letter during survey of ships and offshore installations in service from the date of entry-into-force of the amendments.

List of the amended and/or introduced paras/chapters/sections:

Part I: Section 6

Part II: Table 2.1.1-1, paras 2.2.1.8, 2.2.7.7 and 2.4.2.2.3, Table 2.4.2.2.3, paras 2.4.5.2.1.6, 2.4.5.8.7, 2.4.7.2.4, 2.4.7.2.5, 2.4.7.3.1, 2.5.8.1, 4.6.3.3 and 4.6.3.4

Part III: Appendix 1.3-1, Appendix 1.3-2, paras 8.2.2.11 — 8.2.2.14, 8.4.2.10.2 and 20.1.2

Annex 1: Preamble, Table 1, Annex 1.1, Annex 1.2

Annex 2: para 2.4.2, Annex 2-1

Annex 3

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**Information on amendments introduced by the Circular Letter  
(for inclusion in the Revision History to the RS Publication)**

Nos.	Amended paras/chapters/sections	Information on amendments	Number and date of the Circular Letter	Entry-into-force date
1	Part I, Section 6	Section has been completely revised based on the experience of technical supervision as well as in connection with the amendments introduced to the requirements for operational documentation and repair technical documentation in Part I "General Regulations for Technical Supervision" and Part II "Technical Documentation" of RTSCS	340-02-1478c of 07.12.2020	01.01.2021
2	Part II, Table 2.1.1-1	Requirements of items 1.3.3, 6.6 and 6.7 have been specified in connection with the amendments introduced to the requirements for survey of independent tanks	340-02-1478c of 07.12.2020	01.01.2021
3	Part II, para 2.2.1.8	Reference to IMO resolution A.1120(30) has been replaced by the reference to IMO resolution A.1140(31) considering IACS UR Z1 (Rev.8 July 2020)	340-02-1478c of 07.12.2020	01.01.2021
4	Part II, para 2.2.7.7	Requirements have been specified regarding examination and operational testing of main AMSS angle indicators	340-02-1478c of 07.12.2020	01.01.2021
5	Part II, para 2.4.2.2.3	Para has been supplemented by the requirements for survey of independent tank structures	340-02-1478c of 07.12.2020	01.01.2021
6	Part II, Table 2.4.2.2.3	Table has been amended in connection with the amendments introduced to the requirements for survey of independent tanks	340-02-1478c of 07.12.2020	01.01.2021
7	Part II, para 2.4.5.2.1.6	Para has been supplemented by the requirements for the scope of survey of composite (hybrid) propulsive systems	340-02-1478c of 07.12.2020	01.01.2021

Nos.	Amended paras/chapters/sections	Information on amendments	Number and date of the Circular Letter	Entry-into-force date
8	Part II, para 2.4.5.8.7	Reference to the provisions establishing the scope of survey of independent tanks has been introduced	340-02-1478c of 07.12.2020	01.01.2021
9	Part II, paras 2.4.7.2.4 and 2.4.7.2.5	New paras have been introduced containing requirements for the scope of survey of electric propulsion plant of ships with distinguishing mark <b>EPP</b> in the class notation as well as electric propulsion plant being a part of a composite (hybrid) propulsive system (including ships with distinguishing mark <b>CPS</b> in the class notation)	340-02-1478c of 07.12.2020	01.01.2021
10	Part II, para 2.4.7.3.1	Para has been supplemented by the requirements for checking the propulsion motor being a part of a composite (hybrid) propulsive system	340-02-1478c of 07.12.2020	01.01.2021
11	Part II, para 2.5.8.1	Reference to IMO resolution A.1120(30) has been replaced by the reference to IMO resolution A.1140(31)	340-02-1478c of 07.12.2020	01.01.2021
12	Part II, paras 4.6.3.3 and 4.6.3.4	Requirements relating to the submission of operative information on the survey performed have been specified	340-02-1478c of 07.12.2020	01.01.2021
13	Part III, Annex 1.3-1	Para 1.1.1 has been amended considering consolidated amendments to the ESP Code, 2011 introduced by IMO resolution MSC.461(101), entering into force on 1 January 2021	340-02-1478c of 07.12.2020	01.01.2021
14	Part III, Annex 1.3-2	Reference to IMO resolution A.1049(27) as amended has been specified	340-02-1478c of 07.12.2020	01.01.2021
15	Part III, paras 8.2.2.11 — 8.2.2.14	New paras 8.2.2.11 and 8.2.2.14 containing requirements for the scope of annual survey of regasification units and gas combustion units have been introduced. Existing paras 8.2.2.11 and 8.2.2.12 as well as references thereto have been	340-02-1478c of 07.12.2020	01.01.2021

Nos.	Amended paras/chapters/sections	Information on amendments	Number and date of the Circular Letter	Entry-into-force date
		renumbered 8.2.2.13 and 8.2.2.14 accordingly		
16	Part III, para 8.4.2.10.2	Requirements have been specified regarding survey of fans of gas combustion units and items relating to regasification	340-02-1478c of 07.12.2020	01.01.2021
17	Part III, para 20.1.2	Reference to IMO resolution A.1120(30) has been replaced by the reference to IMO resolution A.1140(31)	340-02-1478c of 07.12.2020	01.01.2021
18	Annex 1, Preamble	Preamble has been amended in connection with the introduction of relevant provisions in Appendix 1 to Part II "Technical Documentation" of RTSCS	340-02-1478c of 07.12.2020	01.01.2021
19	Annex 1, Table 1	Table has been deleted in connection with the introduction of relevant provisions in Appendix 1 to Part II "Technical Documentation" of RTSCS	340-02-1478c of 07.12.2020	01.01.2021
20	Annex 1.1, paras 1.8, 1.8.1 — 1.8.11	Paras have been deleted in connection with the introduction of relevant provisions in Appendix 1 to Part II "Technical Documentation" of RTSCS	340-02-1478c of 07.12.2020	01.01.2021
21	Annex 1.2, paras 1.2 — 1.12	Paras 1.2 — 1.5 and 1.11 have been deleted in connection with the introduction of relevant provisions in Appendix 1 to Part II "Technical Documentation" of RTSCS. Paras 1.6 — 1.12 have been renumbered 1.2 — 1.7 accordingly	340-02-1478c of 07.12.2020	01.01.2021
22	Annex 2, para 2.4.2	Requirements for hull members with cracks or ruptures have been specified	340-02-1478c of 07.12.2020	01.01.2021
23	Annex 2-1, para 2	The text has been aligned with the Russian version of the Rules	340-02-1478c of 07.12.2020	01.01.2021
24	Annex 3	Annex has been completely revised considering latest versions of IACS documents	340-02-1478c of 07.12.2020	01.01.2021

## **RULES FOR THE CLASSIFICATION SURVEYS OF SHIPS IN SERVICE, 2020,**

### **ND No. 2-020101-012-E**

#### **PART I. GENERAL PROVISIONS**

#### **6 SHIP'S TECHNICAL DOCUMENTATION**

1 **Section 6** is replaced by the following text:

##### **"6 SHIP DOCUMENTATION**

##### **6.1 GENERAL**

**6.1.1** Ship documentation specified in 6.2 — 6.4 shall be kept on board and submitted during ship survey upon request of the RS surveyor.

**6.1.2** For unmanned ships the storage and submission of documentation during survey shall be provided by the shipowner or authorized representative of the shipowner.

##### **6.2 SHIP DOCUMENTS ISSUED BY THE REGISTER**

**6.2.1** Summarized list of documents issued by the Register to a ship during surveys for confirmation of compliance with the requirements of the RS rules and international conventions, codes, agreements and national requirements is given in Section 6, Part I "General Provisions" of the Guidelines.

##### **6.3 SHIP TECHNICAL DOCUMENTATION**

**6.3.1** A minimum list of ship technical documentation is given in Annex 1 to these Rules (as applicable).

**6.3.2** Upon agreement with the Register, the scope of required ship technical documentation may be changed or reduced (except for mandatory documentation required by the Rules for Construction) if documentation of ACS or other technical supervisory bodies as well as manufacturer's documentation, which confirms compliance with the requirements of the Rules for Construction and international conventions, quality of materials used and workmanship, performance of required tests of items of technical supervision is available, provided the documentation submitted contains all information required for survey of the ship and drawing up the RS documents.

**6.3.3** Reduction or alteration of the scope of required ship technical documentation shall be reviewed by RHO or the RS Branch Office on its behalf.

**6.3.4** Calculations necessary to verify compliance with the requirements of the RS Rules may be required by the RS surveyor, unless this compliance is determined directly from the documentation submitted.

**6.3.5** If the shipowner is unable to submit any of the technical documentation contained in the list referred to in 6.3.1, they shall ensure that the RS surveyor obtains necessary information during the survey with preparation, when appropriate, of drawings on full-scale measurements and calculations. Where certificates or other documents confirming that the tests required by the Rules for Construction have been carried out are not available, the items of technical supervision shall be subjected to appropriate tests.

**6.3.6** During conversion or modernization of the ship, alterations and replacements of hull structures, items of machinery installation and refrigerating plant and equipment, as well as repair of the ship, documentation on those parts of the ship hull, machinery and equipment, which are liable to alteration or restoration shall be submitted to the Register for approval. The scope of documentation submitted shall correspond to the scope of alterations and replacements performed.

**6.3.7** Drawings of the shell plating expansions, double bottom plating and watertight bulkheads with indication of the plates replaced during previous repairs together with the results of testing for defects shall be available onboard all ships.

**6.3.8** Where new machinery or arrangements covered by the RS Nomenclature are installed onboard the ship, which differ considerably from the original ones, technical documentation on the new items shall be submitted to the Register for approval in the scope required for initial survey of the ship.

**6.3.9** Projects involving ship conversion (outfitting, modernization) and repair technical documentation are reviewed by the Register in accordance with the requirements of Part II "Technical Documentation" of the Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships.

## 6.4 SHIP OPERATIONAL DOCUMENTATION

**6.4.1** A minimum list of ship operational documentation is given in Appendix 1 to Part II "Technical Documentation" of RTSCS (as applicable). The scope of operational documentation is determined depending on the type of ship, its class notation (including distinguishing marks and descriptive notations), availability of machinery, equipment and arrangements, cargo carried, etc. taking into account the application of the requirements of international conventions, codes, agreements and national requirements to the ship.

**6.4.2** In cases provided for in these Rules and the Guidelines, the Register may require availability on board the ship of other operational documentation not specified in 6.4.1.

**6.4.3** Operational documentation subject to the Register approval (agreement) in accordance with 6.4.1 and 6.4.2 shall be submitted to the Register for review and approval (agreement) prior to its direct use on board the ship. Any amendments to the documentation approved (agreed) by the Register that may relate to the requirements regulated by the RS rules or international conventions shall be approved (agreed) by the Register based on the results of review.

**6.4.4** Records in the ship's logs and files and other similar documents reflecting operation of ship and its items shall be maintained by the responsible crew members and the shipowner. The verification of such records and their content is carried out by the Register within the requirements of the RS rules and the guidelines, international conventions, codes, national requirements and in accordance with the Register authority established by agreements with the specified Flag State MA."

## PART II. SURVEY SCHEDULE AND SCOPE

### 2 PERIODICAL SURVEYS

2 **Table 2.1.1-1. Para 1.3.3** is replaced by the following text:

"

<b>1.3.3</b>	Independent tanks (together with sounding and air pipes)	Requirements for examination — refer to 2.4.2.2.3 of this Part, for tests — refer to 2.4.2.5 of this Part
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3 **Table 2.1.1-1. Paras 6.6 and 6.7** are replaced by the following text:

"

<b>6.6</b>	Oil fuel system of liquid and gas fuel, compensators, flexible joints and flame-retardant coatings: .1 gauges, liquid level indicators, quick-closing valves and self-closing valves as well as test cocks on tanks and pipes	P C	P C	OP O	P C	P C	OP O	P C	P C	OP OH	P C	P C	OP OH
<b>6.7</b>	Lubricating oil and hydraulic system: .1 liquid level indicators, quick-closing valves and self-closing valves as well as test cocks on tanks and pipes	P C	P C	OP O	P C	P C	OP O	P C	P C	OP OH	P C	P C	OP OH

"

4 **Para 2.2.1.8.** The first paragraph is replaced by the following text:

"**2.2.1.8** For ships covered by requirements of the international conventions and codes (SOLAS 74/78, International Convention on Load Lines, etc.), some requirements for survey of the items of technical supervision apply both to classification and statutory requirements. Thus, at least the following requirements mentioned in IMO resolution A.1140(31) apply both to classification and statutory requirements (information on the requirements for survey in compliance with the IMO resolution is available at <http://idocs.rs-class.org>, as well as in the program STORM regarding drawing-up of the Survey Checklist):".

5 **Para 2.2.7.7** is replaced by the following text:

"**2.2.7.7** To be examined and operationally tested are engine room telegraphs, rudder, CPP blade position and main AMSS angle indicators, internal service communication, general alarm system, fire detection and alarm system, alarms to warn that fire smothering system is put into action, signalling systems of closing of watertight and fireproof remotely operated doors, water ingress detection and alarm in cargo holds of bulk carriers; engineers' alarm; fire extinguishing medium release alarm, sound signals in engineers' accommodation spaces, indication of door position in ro-ro passenger ships and ro-ro cargo ships; sewage holding tanks level alarm.

Protective earthing and lightning rods shall be examined."

6 **Para 2.4.2.2.3** is replaced by the following text:

"**2.4.2.2.3** All spaces including holds and their 'tweendecks where fitted; double bottom, deep, peak, ballast and cargo tanks; pump rooms, pipe tunnels, duct keels, machinery spaces, dry spaces, cofferdams and voids shall be internally examined including the plating and framing, bilges and drain wells, sounding, pumping, venting and drainage arrangements. Internal examination of fuel oil, lube oil and fresh water and other tanks shall be carried out in accordance with Table 2.4.2.2.3. At the third special survey and subsequent special surveys, structural downflooding ducts and structural ventilation ducts shall be internally examined.

Independent tanks including the tank supporting structures shall be externally examined. If unsatisfactory condition of its structures revealed upon results of the external examination, the tanks shall be internally examined."

7 **Table 2.4.2.2.3** is replaced by the following text:

"Table 2.4.2.2.3

**Minimum requirements for internal examination at hull surveys of fuel oil, fresh oil, fresh water and other tanks**

Nos.	Tank	Special survey No. 1 Age ≤ 5	Special survey No. 2 5 < age ≤ 10	Special survey No. 3 10 < age ≤ 15	Special survey No. 4 and subsequent Age > 15
<b>1</b>	Fuel oil bunker tanks in: .1 engine room .2 cargo length area .3 if no tanks in cargo length area, additional fuel tank(s) outside of engine room (if fitted)	None None None	None One One	One Two One	One Half, minimum 2 Two
<b>2</b>	Lube oil tanks	None	None	None	One
<b>3</b>	Fresh water tanks	None	One	All	All
<b>4</b>	Vegetable oil, whale oil tanks	None	One of each type	All	All
<p>Notes: 1. All requirements of this Table apply to tanks of integral (structural) type. 2. If a selection of tanks of several types is accepted to be examined, then different tanks shall be examined at each special survey, on a rotation basis. 3. Peak tanks (all uses) are subject to internal examination at each special survey. 4. At special surveys No. 3 and subsequent surveys, one deep tank for fuel oil in the cargo length area shall be included, if fitted.</p>					

8 **Para 2.4.5.2.1.6** is replaced by the following text:

"**2.4.5.2.1.6** The engines shall be operationally tested complete with couplings and reduction gear, manoeuvring, starting and protecting devices, service pumps and compressors (including standby ones), heat exchangers, pressure vessels, systems, piping and equipment.

For ships equipped with composite (hybrid) propulsive systems (including ships assigned the distinguishing mark **CPS** in the class notation) combined operation of engine and propulsion motor driving a common propeller shall be checked. In addition, engine starting by propulsion motor (where provided) shall be checked."

9 **Para 2.4.5.8.7** is replaced by the following text:

"**2.4.5.8.7** Fuel system.

Independent fuel oil tanks shall be surveyed in accordance with 2.4.2.2.3. Fittings shall be flaw detected and repaired, safety valves adjusted and sealed.

Seal elements of pipeline detachable joints with signs of fuel leakage shall be replaced, and pipelines with fittings in assembly shall be tested under working conditions in accordance with the requirements of Section 21, Part VIII "Systems and Piping" of the Rules for the Classification and Construction of Sea-Going Ships. Gas fuel system shall be surveyed according to the requirements of 13.12, Part VIII "Systems and Piping" of the Rules for the Classification and Construction of Sea-Going Ships. Operational testing of the system, if possible, shall be carried out simultaneously with the operational testing of the respective machinery."

10 **New paras 2.4.7.2.4 and 2.4.7.2.5** are introduced reading as follows:

"**2.4.7.2.4** Operational testing of the electric propulsion plant installed on board the ships with distinguishing mark **EPP** in the class notation shall be carried out in accordance with 2.4.7.2.2 and 2.4.7.2.3.

**2.4.7.2.5** Operational testing of the electric propulsion plant being a part of a composite (hybrid) propulsive system (including on ships assigned the distinguishing mark **CPS** in the class notation) shall be carried out in accordance with 2.4.7.2.2 and 2.4.7.2.3."



11 **Para 2.4.7.3.1** is replaced by the following text:

"**2.4.7.3.1** Main and emergency sources of electrical power (unless they are accumulator batteries) shall be checked together with prime movers at the maximum possible load of generators, not exceeding the nominal value.

Operation of propulsion motor being a part of a composite (hybrid) propulsive system (including ships assigned the distinguishing mark **CPS** in the class notation) shall be checked in generator operation mode together with the main engine."

12 **Para 2.5.8.1.** In Footnote 1 the references to IMO resolution A.1120(30) are replaced by the references to IMO resolution A.1140(31).

## **4 OTHER SURVEYS**

13 **Paras 4.6.3.3 and 4.6.3.4** are replaced by the following text:

"**4.6.3.3** The RS Branch Office, which performed the survey, shall forward operative information on the survey performed to the RS Branch Office for in-service supervision.

**4.6.3.4** Copies of issued documents and ship's files as well as operative information on the survey performed shall be forwarded in accordance with the procedure established by the RS internal procedures."

## **PART III. ADDITIONAL SURVEYS OF SHIPS DEPENDING ON THEIR PURPOSE AND HULL MATERIAL**

### **1 GENERAL**

*Appendix 1.3-1*

### **ENHANCED SURVEY PROGRAMME TEMPLATE**

14 **Para 1.1.1** is replaced by the following text:

"**1.1.1** The present survey programme covers the minimum extent of overall surveys, close-up surveys, thickness measurements and pressure testing within the cargo area, cargo tanks, ballast tanks, including fore and aft peak tanks, required by International Code on the Enhanced Programme of Inspections during Surveys of Bulk Carriers and Oil Tankers, 2011 (ESP Code) (IMO resolution A.1049(27) as amended<sup>1</sup>) and IACS UR Z10.1, Z10.2, Z10.3, Z10.4, Z10.5, as applicable.

<sup>1</sup> From 1 January 2021 the amendments introduced by IMO resolution MSC.461(101), which completely replace the ESP Code shall enter into force."

## SURVEY PLANNING QUESTIONNAIRE

15 The first paragraph is replaced by the following text:

"The following information will enable the shipowner in co-operation with the Register to develop a survey programme complying with the requirements of Appendix 1.3-1. It is essential that the shipowner provides, when completing the present questionnaire, up-to-date information. The present questionnaire, when completed, shall provide all information and material required by ESP Code (IMO resolution A.1049(27) as amended) and IACS UR Z10.1, Z10.2, Z10.3, Z10.4, Z10.5, as applicable."

## 8 SURVEY OF GAS CARRIERS

16 **New paras 8.2.2.11 and 8.2.2.12** are introduced reading as follows:

**8.2.2.11** Survey of regasification unit.

Regasification unit shall be surveyed together with the cargo system to the extent necessary to confirm good working order of the unit with operational testing of temperature, heating medium and sea water control systems serving the unit. During the survey it shall be confirmed that the overall performance of the unit is duly maintained.

**8.2.2.12** Survey of gas combustion unit.

Gas combustion unit shall be surveyed to the extent necessary to confirm good working order of the unit with operational testing of fans serving the unit and exhaust gas temperature and loss of flame control system according to 4.3.13, Part VI "Systems and Piping" of the Rules for the Classification and Construction of Ships Carrying Liquefied Gases in Bulk."

17 **Existing paras 8.2.2.11 and 8.2.2.12 and references thereto** are renumbered **8.2.2.13 and 8.2.2.14** accordingly.

18 **Para 8.4.2.10.2** is replaced by the following text:

**8.4.2.10.2** Cargo pumps, compressors, process pressure vessels, liquid nitrogen tanks, heat exchangers, fans of gas combustion units and other components, including prime movers, used in cargo handling, regasification and methane boil-off burning shall be surveyed in accordance with 2.4.5 of Part II "Survey Schedule and Scope".

## 20 SURVEY OF SHIPS OTHER THAN LIQUEFIED GAS CARRIERS UTILIZING GAS OR OTHER LOW FLASH POINT FUELS

19 **Para 20.1.2.** In the Note the reference to IMO resolution A.1120(30) is replaced by the reference to IMO resolution A.1140(31).

ANNEX 1

## TECHNICAL DOCUMENTATION FOR THE ITEMS OF RS TECHNICAL SUPERVISION

20 The heading is replaced by the following text:

**"TECHNICAL DOCUMENTATION ON ITEMS OF THE RS TECHNICAL SUPERVISION"**.

21 **Preamble** is replaced by the following text:

"The lists of ship technical documentation given in Annexes 1.1 and 1.2 of this Annex, contain documents, as a rule, required for the ship, MODU or FOP in service in accordance with Section 6, Part I "General Provisions" of these Rules (including significant repair, conversion, modification or replacement of items of technical supervision).

To ensure safety of the ship and offshore installation in service, as well as for efficient execution of survey, assessment of technical condition, maintenance and repair on board the ship/offshore installation it is required to provide completeness of documentation as per Annexes 1.1 or 1.2 (as applicable) sufficient for the RS surveyor to confirm compliance with the applicable requirements of the RS rules.

s regards the ship operational documentation, the minimum list of ship operational documentation listed in Appendix 1 to Part II "Technical Documentation", RTSCS (as applicable) shall be met."

22 **Table 1** is deleted.

*ANNEX 1.1*

### **LIST OF SHIP TECHNICAL DOCUMENTATION**

23 **Paras 1.8 and 1.8.1 — 1.8.11** are deleted.

*ANNEX 1.2*

### **LIST OF TECHNICAL DOCUMENTATION OF MODU/FOP**

24 **Paras 1.2 — 1.5 and 1.11** are deleted.

25 **Existing paras 1.6 — 1.10 and 1.12** are renumbered **1.2 — 1.7** accordingly.

*ANNEX 2*

### **INSTRUCTIONS FOR DETERMINATION OF THE TECHNICAL CONDITION AND REPAIR OF THE HULLS OF SEA-GOING SHIPS**

26 **Para 2.4.2** is replaced by the following text:

"**2.4.2** Any cracks, fractures and ruptures shall be eliminated (repaired). Instructions on repair of structures with cracks, fractures or ruptures are given in Section 5."

*ANNEX 2-1*

### **PROCEDURE FOR CHECKING AVAILABLE/UPDATING INFORMATION ON PERMISSIBLE SCANTLINGS OF HULL STRUCTURES**

27 **Para 2** is replaced by the following text:

"**2** Information on permissible scantlings is uploaded in the ship's file/"VOLNA" software server in electronic format using the format required by the RS rules and RS internal procedures. The procedure for uploading and updating the information on permissible scantlings of metal hull

structures of ships shall comply with the RS rules (refer to Table 1) and the applicable RS internal procedures. The main file with permissible scantlings of hull structures stored in the ship's file shall have the following format: "reg. No.\_t.pdf". The file generated by the "VOLNA" software shall comply with the requirements of the "VOLNA" software.

Depending on the standards applied in accordance with 5.12.3, Part I "General Provisions", the following requirements shall be met when generating/uploading information on permissible scantlings of hull structures."

ANNEX 3

### LIST OF DOCUMENTS RECOMMENDED FOR USE DURING REPAIR OF THE SHIP'S HULL AND ARRANGMENTS

28 **Paras 1 — 23** are replaced by the following text:

- "1. IACS documents<sup>1</sup>:
- .1 IACS Recommendation No. 47 "Shipbuilding and Repair Quality Standard" (Rev.8 Oct 2017);
  - .2 IACS Recommendation No. 54 "Guidelines for Acceptance, Application and Survey of Semihard Coatings in Ballast Tanks" (Rev.1 Oct 2006);
  - .3 IACS Recommendation No. 55 "General Cargo Ships — Guidelines for Surveys, Assessment and Repair of Hull Structure" (Rev.1 June 2016);
  - .4 IACS Recommendation No. 72 "Confined Space Safe Practice" (Rev.3 Dec 2018);
  - .5 IACS Recommendation No. 76 "IACS Guidelines for Surveys, Assessment and Repair of Hull Structure — Bulk Carriers" (Rev.2 Corr.1 Sept 2007);
  - .6 IACS Recommendation No. 82 "Surveyor's Glossary — Hull Terms and Hull Survey Terms" (Rev.1 Oct 2018);
  - .7 IACS Recommendation No. 84 "Container Ships. Guidelines for Surveys. Assessment and Repair of Hull Structures" (Rev.1 Nov 2017);
  - .8 IACS Recommendation No. 87 "Guidelines for Coating Maintenance and Repairs for Ballast Tanks and Combined Cargo/Ballast tanks on Oil Tankers" (Rev.2 May 2015);
  - .9 IACS Recommendation No. 96 "Double Hull Oil Tankers — Guidelines for Surveys, Assessment and Repair of Hull Structures" (Rev.1 May 2019).

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<sup>1</sup> Documents are available on the IACS website [www.iacs.org.uk](http://www.iacs.org.uk)."