



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 340-04-1868c

dated 28.11.2022

Re:

amendments to the Rules for the Classification Surveys of Ships in Service, 2022, ND No.2-020101-012-E considering IACS unified requirement (UR) Z1 (Rev.9 July 2022) and the experience of technical supervision

Item(s) of supervision:

ships in service

Entry-into-force date:

01.01.2023

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~~dated~~

Number of pages: 1+6

Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to parts I "General Provisions", II "Survey Schedule and Scope", III "Additional Surveys of Ships Depending on their Purpose and Hull Material" and IV "Surveys of Refrigerating Plants"

Director General

Konstantin G. Palnikov

Text of CL:

We hereby inform that the Rules for the Classification Surveys of Ships in Service shall be amended as specified in the Appendices to the Circular Letter.

It is necessary to do the following:

1. Familiarize the RS surveyors, interested organizations and persons in the area of the RS Branch Offices' activity with the content of the Circular Letter.
2. Apply provisions of the Circular Letter for surveys of ships in service.

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

Part I: para 2.3

Part II: paras 2.1.5, 2.2.1.8, 2.3.1.8, 2.4.2.6.5, 2.4.6.4.3, 2.5.8.1 and 2.7.2.1.4

Part III: paras 8.2.2.6, 8.3.2.6, 8.4.2.15 and 20.1.2

Part IV: para 4.4.1

Person in charge: Sergey Panfilov

341

+7(812) 650-05-59

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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, para 2.3	Abbreviation "SOLAS 74" has been specified. New abbreviation "HSSC Guidelines" has been introduced considering IMO resolution A.1156(32)	340-04-1868c of 28.11.2022	01.01.2023
2	Part II, para 2.1.5	New para has been introduced containing requirements for both statutory and classification surveys considering IACS UR Z1 (Rev.9 July 2022) and IMO Resolution A.1156(32)	340-04-1868c of 28.11.2022	01.01.2023
3	Part II, para 2.2.1.8	Para has been completely revised in connection with transfer of requirements to 2.1.5	340-04-1868c of 28.11.2022	01.01.2023
4	Part II, para 2.3.1.8	New para has been introduced containing statutory requirements subject to fulfilment during intermediate surveys	340-04-1868c of 28.11.2022	01.01.2023
5	Part II, para 2.4.2.6.5	Requirements for thickness measurements have been specified to avoid duplication of requirements in 2.4.6.4.3	340-04-1868c of 28.11.2022	01.01.2023
6	Part II, para 2.4.6.4.3	Requirements for survey of bottom and side valves have been specified	340-04-1868c of 28.11.2022	01.01.2023
7	Part II, para 2.5.8.1	References in the Footnote to the applicable requirements have been specified	340-04-1868c of 28.11.2022	01.01.2023
8	Part II, para 2.7.2.1.4	Requirements have been specified regarding recognition by the Register of the computerized systems for PMS programming	340-04-1868c of 28.11.2022	01.01.2023
9	Part III, para 8.2.2.6	Requirements for survey of electrical installations have been specified considering IACS UR Z16 (Rev.4 Oct 2013)(Corr.1 May 2022) and Recommendation №120 (June 2015)	340-04-1868c of 28.11.2022	01.01.2023
10	Part III, para 8.3.2.6	Requirements for survey of electrical equipment have been specified considering IACS UR Z16 (Rev.4 Oct 2013)(Corr.1 May 2022) and Recommendation №120 (June 2015)	340-04-1868c of 28.11.2022	01.01.2023

Nos.	Amended paras/chapters/ sections	Information on amendments	Number and date of the Circular Letter	Entry-into-force date
11	Part III, para 8.4.2.15	Requirements for survey of electrical equipment have been specified considering IACS UR Z16 (Rev.4 Oct 2013)(Corr.1 May 2022) and Recommendation №120 (June 2015)	340-04-1868c of 28.11.2022	01.01.2023
12	Part III, para 20.1.2	Reference in the Note to the applicable requirements has been specified	340-04-1868c of 28.11.2022	01.01.2023
13	Part IV, para 4.4.1	Reference to the applicable requirements for testing standards has been specified	340-04-1868c of 28.11.2022	01.01.2023

RULES FOR THE CLASSIFICATION SURVEYS OF SHIPS IN SERVICE, 2022,
ND No. 2-020101-012-E

PART I. GENERAL PROVISIONS

2 DEFINITIONS AND EXPLANATIONS

1 **Para 2.3.** Abbreviation "SOLAS 74/78" is replaced by the following text:

"SOLAS - 74 — International Convention for the Safety of Life at Sea, 1974, as modified by the Protocols of 1978 and 1988 relating thereto."

After abbreviation "RTSCS", new abbreviation "HSSC Guidelines" is introduced reading as follows:

"HSSC Guidelines — Survey Guidelines under the Harmonized System of Survey and Certification, 2021, adopted by IMO resolution A.1156(32)."

PART II. SURVEY SCHEDULE AND SCOPE

2 PERIODICAL SURVEYS

2 New **para 2.1.5** is introduced to be read as follows:

2.1.5 For ships covered by requirements of the international conventions and codes (SOLAS-74, International Convention on Load Lines, etc.), some requirements for survey of the items of technical supervision apply to both classification and statutory requirements (refer to IACS UR Z1 (Rev.9 July2022)¹).

Thus, at classification surveys of the items of technical supervision for which statutory requirements also apply, these statutory requirements shall be taken into account at least in the scope specified below:

.1 annual survey:

.1.1 load line: 1.2.2.1 — 1.2.2.15 of Annex 2 to the HSSC Guidelines (refer to 2.3 of Part III "Survey of Ships in Compliance with International Conventions, Codes, Resolutions and Rules for the Equipment of Sea-Going Ships" of the Guidelines);

.1.2 hull: 2.2.2.1 — 2.2.2.9.1, 2.2.2.33 — 2.2.2.40 (except for 2.2.2.34, 2.2.2.38 and 2.2.2.39) of Annex 1 to the HSSC Guidelines;

.1.3 machinery installation, machinery, electrical installation and electrical equipment: 2.2.2.10 — 2.2.2.32 (except for 2.2.2.20 and 2.2.2.31) of Annex 1 to the HSSC Guidelines;

.1.4 fire-fighting equipment and fire protection: 1.2.2.1 — 1.2.2.17 of Annex 1 to the HSSC Guidelines (1.2.2.16 is applicable to fire protection only);

.1.5 additional requirements for oil tankers: 1.2.3.1 — 1.2.3.9 (except for 1.2.3.8), 2.2.3.1 — 2.2.3.18 of Annex 1 to the HSSC Guidelines;

.1.6 additional requirements for chemical tankers: 2.2.4.1 of Annex 1 as well as 1.2.2.1 — 1.2.2.20 and 1.2.2.22 of Annex 5 to the HSSC Guidelines;

.1.7 additional requirements for gas carriers: 2.2.4.1 of Annex 1 and 2.2.2.1 — 2.2.2.31 (except for 2.2.2.27) of Annex 5 to the HSSC Guidelines.

2. intermediate survey (in addition to the requirements for annual survey listed above):
- .2.1 ballast tanks and cargo spaces: 2.3.2.2 — 2.3.2.4 of Annex 1 to the HSSC Guidelines;
 - .2.2 additional requirements for oil tankers: 2.3.3.2 — 2.3.3.3 of Annex 1 to the HSSC Guidelines;
 - .2.3 additional requirements for chemical tankers: 1.3.2.2 — 1.3.2.4 of Annex 5 to the HSSC Guidelines;
 - .2.4 additional requirements for gas carriers: 2.3.2.2 — 2.3.2.5 (except for 2.3.2.4) of Annex 5 to the HSSC Guidelines.

¹ The document is available at the IACS website: www.iacs.org.uk."

- 3 **Para 2.2.1.8** is replaced by the following text:

"**2.2.1.8** At annual surveys of the ships covered by requirements of the international conventions and codes, the requirements of 2.1.5 shall be taken into account, as applicable."

- 4 New **para 2.3.1.8** is introduced to be read as follows:

"**2.3.1.8** At intermediate surveys of the ships covered by requirements of the international conventions and codes, the requirements of 2.1.5 shall be taken into account, as applicable."

- 4 **Para 2.4.2.6.5** is replaced by the following text:

"**2.4.2.6.5** In addition to Table 2.4.2.6.2-1, starting from the third special survey (ships more than 10 years of age), random thickness measurements shall be carried out in the way of the greatest wear of shell plating and watertight bulkhead framing; keel-girder plating and floors of hopper-dredger and open barge; sea chests; log and echo-sounder trunks; deck, platform and inner bottom plating; superstructure and deckhouse plating; hatch coamings; ventilator pipe coamings and air pipe coamings; main and auxiliary machinery and boiler seatings; sea water filter casings as well as girders of bottom, side and deck framing."

- 5 **Para 2.4.6.4.3** is replaced by the following text:

"**2.4.6.4.3** At every intermediate and special dry dock survey starting from the second special survey, the bottom and side valves shall be submitted in accordance with 2.5.7.3. The branch pipes where the above mentioned bottom and side valves are installed as well as pipes (ducts) connecting sea chests and ice boxes shall be submitted for thorough examination accompanied by residual thickness measurement. The requirements in respect of residual thickness measurements shall also apply to in-water survey."

- 6 **Para 2.5.8.1.** Footnote 1 is replaced by the following text:

"¹ For ships covered by the provisions of the HSSC Guidelines, it shall be taken into account that during survey of the outside of the ships' bottom of cargo ships the provisions of Section 3 of Annex 1 to the above-stated Guidelines shall be complied with, in particular, noting the clearances measured in the rudder bearings; noting the clearances measured in the stern bushes, as far as practicable. During survey of the outside of the ship's bottom of passenger ships the provisions of 5.10.3 of the HSSC Guidelines shall be met, according to which rudder bearing clearances need not be taken at such surveys with the ship afloat (in-water survey)."

- 7 **Para 2.7.2.1.4** is replaced by the following text:

"**2.7.2.1.4** The user manual of the computerized system, or the documentation submitted by the shipowner for review and approval of PMS supported by the specified computerized system shall include written statement confirming that the system functionality provides the PMS maintenance to the extent not less than that given in 2.7.2.2.

Such a statement is not required if the software used in the system is approved by RS in accordance with 12.1 of Part II "Technical documentation" of RTSCS for application in PMS."

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

8 SURVEYS OF GAS CARRIERS

8 **Para 8.2.2.6** is replaced by the following text:

"8.2.2.6 Survey of electrical installations.

Electrical equipment and cables together with their supports in gas-dangerous spaces and zones shall be examined to ensure explosion-proof protection in accordance with 2.2.7.10 of Part II "Survey Schedule and Scope".

9 **Para 8.3.2.6** is replaced by the following text:

"8.3.2.6 Survey of electrical equipment.

In addition to requirements of 8.2.2.6, the overall survey of electrical equipment and cables in gas-dangerous spaces and zones, such as cargo pump rooms and zones adjacent to cargo tanks, shall be carried out to detect defective electrical equipment of a certified safe type, improperly installed wiring, non-approved lighting and fixtures, and dead-end wiring; insulation resistance of circuits shall be tested.

Particular attention shall be given to the following:

protective earthing (random checking shall be carried out);

integrity of safety enclosures;

damage of outer sheath of cables;

functional testing of pressurized equipment and of associated alarms;

testing of systems for de-energizing non-certified safe electrical equipment located in spaces protected by air-locks, such as electrical motor rooms, cargo control rooms, etc.;

measurements of insulation resistance. Such measurements shall be made only when the ship is in the gas-free or inerted condition. (Where proper records of measurements are maintained consideration may be given to accepting recent insulation resistance readings by the ship's crew).

When the ship is in a gas-free condition, it shall be verified that cargo tanks are electrically bonded with the hull.

N o t e . Refer also to 2.3.4 of Part II "Survey Schedule and Scope".

10 **Para 8.4.2.15** is replaced by the following text:

"8.4.2.15 Survey of electrical equipment.

In addition to visual examination and testing described in 8.3.2.6, electrical protection devices of electrical motors shall be tested.

N o t e . Refer also to 2.4.7.10 of Part II "Survey Schedule and Scope".

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

11 **Para 20.1.2. Note** is replaced by the following text:

"N o t e . The term "each dry-docking" refers to:

the survey of the outside of the cargo ship's bottom required for the renewal of the Cargo Ship Safety Construction Certificate or the Cargo Ship Safety Certificate;

the survey of the outside of the passenger ship's bottom to be carried out every 60 months in compliance with the requirements of 2.5.4.1.3 of Part II "Survey Schedule and Scope" of these Rules (e.g. refer to 5.10.1 and 5.10.2 of the HSSC Guidelines). "

PART IV. SURVEYS OF REFRIGERATING PLANTS

4 SPECIAL SURVEY

12 **Para 4.4.1** is replaced by the following text:

"4.4.1 Fittings (valves and pipes) of refrigerant systems, cooling medium (secondary refrigerant), cooling water and water screens systems, ducts of air coolers, ventilation of refrigerated spaces, freezing apparatus and refrigerating machinery spaces shall be thoroughly examined in accordance with Table 2.1 of this Part. Piping of refrigerant system shall be subjected to pneumatic tests and the secondary refrigerant systems shall be hydraulically tested for tightness in operation conditions. The frequency of thorough examinations and tests is given in Table 2.1 of this Part of the Rules; the requirements for tests are described in Section 11 of Part XII "Refrigerating Plants" of the Rules for the Classification and Construction of Sea-Going Ships. During survey, condition of air duct and piping insulation (refer also to 3.4.1 of this Part) shall be checked, air tightness of air ducts in non-refrigerated spaces shall be checked. Insulated lengths of air pipes shall be examined with the insulation removed, if they were installed 10 or more years ago."