



# RUSSIAN MARITIME REGISTER OF SHIPPING

**CIRCULAR LETTER**

**No. 340-24-1211c**

dated 08.04.2019

Re:

amendments to the Rules for the Classification Surveys of Ships in Service, 2019, ND No. 2-020101-012-E

Item(s) of supervision:

ships and offshore installations in service

Entry-into-force date:

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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 III "Additional Surveys of Ships Depending on their Purpose and Hull Material", Part II "Survey Schedule and Scope", Appendix 2 "Instructions for Determination of the Technical Condition, Renovation and Repair of the Hulls of Sea-Going Ships", Appendix 4 "Instruction on Residual Thickness Measurements of Ship's Elements"

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 and interested organizations in the area of the RS Branch Offices' activity with the content of the Circular Letter.
2. Apply the provisions of the Circular Letter during surveys of ships and offshore installations in service.

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

Part I: Chapter 2.3;

Part II: para 2.3.1.8, 2.4.1.8, Table 2.4.2.6.2-1, paras 2.5.7.4, 2.5.9.3, 2.5.7.9, 2.5.10, 4.6.3.4, 4.6.3.5; 4.10.7.2.3;

Part III: Table 6.2.3.1, paras 8.4.2.10.4, 14.3.1, 22.2.1.4;

Appendix 2: paras 3.3.1.4, 3.4.1.5;

Appendix 4: paras 4.2.1, 4.2.2, 4.2.4, 4.2.5, Annex A, Annex B

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**Information on amendments introduced by the circular letter  
(to be included in the Annotation to the appropriate RS publication)**

Nos.	Amended paras/chapters/sections	Information on amendments	Number and date of the Circular Letter	Entry-into-force date
1	Part I, Chapter 2.3	In the definition of abbreviation "NAABSA" the reference to the requirements of the Rules for the Classification and Construction of Sea-Going Ships has been specified	340-24-1211c of 08.04.2019	08.04.2019
2	Part II, para 2.3.1.8	The requirement for documents to be drawn up by RS upon the results of survey planning meeting held prior to commencement of the intermediate survey, has been specified to avoid duplication of the similar information in various RS reporting documents	340-24-1211c of 08.04.2019	08.04.2019
3	Part II, para 2.4.1.8	The requirement for documents to be drawn up by RS upon the results of survey planning meeting held prior to commencement of the intermediate survey, has been specified to avoid duplication of the similar information in various RS reporting documents	340-24-1211c of 08.04.2019	08.04.2019
4	Part II, Table 2.4.2.6.2-1	The requirements for internals in forepeak and afterpeak have been specified considering IACS UR Z7 (Rev.27 Oct 2018)	340-24-1211c of 08.04.2019	01.01.2020
5	Part II, para 2.5.7.4	The requirements for disassembly and assembly of fasteners between flanged connections of rudder blade and/or nozzle and rudder shaft have been specified	340-24-1211c of 08.04.2019	08.04.2019
6	Part II, para 2.5.7.9	New para specifying requirements for the scope of bottom survey has been introduced	340-24-1211c of 08.04.2019	08.04.2019

7	Part II, para 2.5.9.3	The requirement for drawing up the results of the meeting held prior to bottom survey has been specified	340-24-1211c of 08.04.2019	08.04.2019
8	Part II, paras 4.6.3.4, 4.6.3.5	Para 4.6.3.4 has been deleted to avoid duplication of requirements of 4.6.1.2. Para 4.6.3.5 has been renumbered 4.6.3.4	340-24-1211c of 08.04.2019	08.04.2019
9	Part II, para 4.10.7.2.3	The requirement for the scope of lay-up survey has been specified	340-24-1211c of 08.04.2019	08.04.2019
10	Part III, para 8.4.2.10.4	New para considering provisions of IACS recommendation No. 114 (Rev.1 Dec 2018) as regards the survey and testing of emergency shutdown valves has been introduced	340-24-1211c of 08.04.2019	08.04.2019
11	Part III, para 14.3.1	The reference to the Rules for the Construction of Hulls of Sea-Going Ships and Floating Facilities Using Reinforced Concrete has been specified	340-24-1211c of 08.04.2019	08.04.2019
12	Part III, para 22.2.1.4	The requirements for survey of FSO, FPSO in compliance with the provisions of IMO resolution MEPC.311(73) and the MA requirements have been specified	340-24-1211c of 08.04.2019	08.04.2019
13	Appendix 2, para 3.3.1.4	The requirement for drawing up the reporting documents on results of residual deformation detection has been specified	340-24-1211c of 08.04.2019	08.04.2019
14	Appendix 2, para 3.4.1.5	The requirement for drawing up the reporting documents on results of crack parameters measurement has been specified	340-24-1211c of 08.04.2019	08.04.2019
15	Appendix 4, para 4.2.1	The requirements for drawing up the reporting documents on results of the meeting held prior to thickness measurements have been specified	340-24-1211c of 08.04.2019	22.04.2019
16	Appendix 4, para 4.2.2	The requirements for the necessity of drawing up the Minutes of Meeting prior to Commencement of Thickness Measurements with an appropriate	340-24-1211c of 08.04.2019	08.04.2019

		Attachment in case when several meetings are held, have been specified		
17	Appendix 4, para 4.2.4	Para 4.2.4 has been renumbered 4.2.5 to maintain consistency throughout the text. The requirement for the necessity of recording in other RS reporting documents the information on the place and date of the meeting held prior to thickness measurements, and names of attending persons, has been deleted due to introduction of the forms of the Minutes of Meeting prior to Commencement of Thickness Measurements with Attachments, to the EFD List	340-24-1211c of 08.04.2019	08.04.2019
18	Appendix 4, para 4.2.5	Para has been renumbered 4.2.4	340-24-1211c of 08.04.2019	08.04.2019
19	Appendix 4, Annex A	Text of Annex A has been deleted due to introduction of the forms of group 6.6.1 (Minutes of Meeting prior to Commencement of Thickness Measurements with Attachments) to the EFD List	340-24-1211c of 08.04.2019	22.04.2019
20	Appendix 4, Annex B	The requirement of para 9 with regard to periodicity of thickness measurements of metal structures of survival craft has been specified	340-24-1211c of 08.04.2019	08.04.2019

## **RULES FOR THE CLASSIFICATION SURVEYS OF SHIPS IN SERVICE, 2019**

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

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

#### **2 DEFINITIONS AND EXPLANATIONS**

##### **2.3 ABBREVIATIONS**

1 Abbreviation "NAABSA" is replaced by the following text:

"NAABSA — Not always afloat but safely aground (refer to Section 15 of Part XVII "Distinguishing Marks and Descriptive Notations in the Class Notations Specifying Structural and Operational Particulars of Ships" of the Rules for the Classification and Construction of Sea-Going Ships).".

### **PART II. SURVEY SCHEDULE AND SCOPE**

#### **2 PERIODICAL SURVEYS**

##### **2.3 INTERMEDIATE SURVEY**

2 **Para 2.3.1.8** is replaced by the following text:

**"2.3.1.8** Prior to commencement of the intermediate ship survey, a meeting on survey planning and scope shall be held so as to ensure the safe and efficient execution of the survey. A survey planning meeting shall be held between the RS attending surveyor, the shipowner or duly authorized representative of the shipowner, the master of the ship or duly authorized representative of the master as well as, at the shipowner's discretion, the representatives of other interested organizations, and the Minutes of Meeting on Planning and Arrangement of Ship's Survey (form 6.6.2) shall be drawn up.

Prior to commencement of the survey the RS surveyor shall verify that the shipowner has prepared the ship for survey and provided all necessary conditions for quality and safe execution of the survey and testing of items (refer to Section 4, Part I "General Provisions").".

##### **2.4 SPECIAL SURVEY**

3 **Para 2.4.1.8** is replaced by the following text:

**"2.4.1.8** Prior to commencement of the special ship survey, a meeting on survey planning and scope shall be held so as to ensure the safe and efficient execution of the survey. The meeting shall be held between the RS attending surveyor, the shipowner or duly authorized representative of the shipowner, the master of the ship or duly authorized representative of the master as well as, at the shipowner's discretion, the representatives of other interested organizations, and the Minutes of Meeting on Planning and Arrangement of Ship's Survey (form 6.6.2) shall be drawn up.

Prior to commencement of the survey the RS surveyor shall verify that the shipowner has prepared the ship for survey and provided all necessary conditions for quality and safe execution of the survey and testing of items (refer to Section 4, Part I "General Provisions").".

4 **Table 2.4.2.6.2-1.** Item 4 in columns 3 and 4 is replaced by the following text (the amendment shall apply from 01.01.2020):

"4. Internals in forepeak and afterpeak ballast tanks".

## **2.5 SURVEY OF THE OUTSIDE OF THE BOTTOM OF SHIPS AND OFFSHORE INSTALLATIONS**

5 **Para 2.5.7.4** is replaced by the following text:

**"2.5.7.4** Rudder and steering gear.

Visible parts of rudder and steering gear including rudder blade, nozzles (including fixed nozzles), rudder pintles and gudgeons, rudder shaft, fasteners securing rudder blade/steering nozzles to rudder shaft as well as hull members relating to rudder and steering gear shall be examined.

If deemed necessary by the RS surveyor, the rudder/steering nozzle may be lifted or the inspection plates removed for examination of pintles.

The clearances in the rudder bearings and pintles and/or steering nozzle as well as clearance for dropping of rudder blade and/or steering nozzle shall be measured and recorded. Clearances shall be measured in the presence of the RS surveyor.

Welds in areas where fixed nozzles and rudder tubes fastened to hull shall be subjected to thorough examination.

The RS surveyor may require the rudder and steering gear to be disassembled for thorough examination if clearances in rudder bearings and/or pintles and/or steering nozzle are beyond the permissible limits or in other justified cases.

If the rudder and steering gear is not designed for measuring clearances in rudder shaft bearings and/or pintles and/or steering nozzle, the rudder and steering gear shall be subject to survey in disassembled condition at each bottom survey in dry dock being carried out in conjunction with the special survey.

In case of oil lubrication system, the RS surveyor shall decide whether the rudder and steering gear shall be disassembled.

Where applicable, rudder blade and/or nozzle shall be subject to tightness test (for example, hollow) as deemed necessary by the RS surveyor.

In case the fasteners between flanged connections of rudder blade and/or nozzle and rudder shaft are disassembled, all fit bolts shall be replaced by the new ones during assembly. In this regard, the documents shall be submitted confirming compliance of material of the new bolts with that in the as-built documentation.

Prior to launching the ship, the check if fasteners of flanged connection between rudder blade and/or nozzle and rudder shaft are properly locked and if inspection plates are fitted at their standard places and properly secured, if applicable, shall be carried out. Prior to launching the ship, the rudder and steering gear shall be checked for complete, free and smooth putting of rudder blade and/or steering nozzle hard-over to hard-over.".

6 **New para 2.5.7.9** is introduced reading as follows:

**"2.5.7.9** Prior to launching, the availability and marking (painting) of load lines and draught scales shall be verified.".

7 **Para 2.5.9.3** is replaced by the following text:

**"2.5.9.3** Details of the meeting held shall be recorded in the RS reporting documents (the Minutes of Meeting on Planning and Arrangement of Ship's Survey (form 6.6.2) are recommended to be used).".

## 4 OTHER SURVEYS

### 4.6 SURVEY OF SHIPS ASSOCIATED WITH CHANGE OF SHIPOWNER, PORT OF REGISTRY AND SHIP'S NAME

- 8 **Para 4.6.3.4** is deleted, **para 4.6.3.5** is renumbered 4.6.3.4.

### 4.10 LAY-UP AND REACTIVATION SURVEYS

- 9 **Para 4.10.7.2.3** is replaced by the following text:

".3 verification of load line marking;".

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

### 8 SURVEYS OF GAS CARRIERS

#### 8.4 SPECIAL SURVEY

- 10 **New para 8.4.2.10.4** is introduced reading as follows:

"**8.4.2.10.4** Emergency shutdown valves (ESD valves) shall be internally surveyed and pressure tested. Pressure testing at the same pressure as working pressure shall be conducted every 5 years.".

### 14 HULL SURVEYS OF CONCRETE SHIPS

#### 14.3 TECHNICAL ASSESSMENT OF CONDITION OF REINFORCED CONCRETE HULL STRUCTURES

- 11 **Para 14.3.1** is replaced by the following text:

"**14.3.1** Main defects of hull reinforced concrete structures to be revealed during survey are:

- holes in slabs of plating;
- flaking and chipping of concrete protective layer;
- cracks in plates and framing members;
- water and fuel penetration through plating;
- corrosive wear of concrete and reinforced rods.

A hole, crack, flaking and chipping in reinforced concrete hull structures shall be repaired according to a procedure approved by the Register. Surface cracks with a width not exceeding that allowed by the Rules for the Construction of Hulls of Sea-Going Ships and Floating Facilities Using Reinforced Concrete in non-prestrained reinforced concrete structural members are permitted. Individual surface cracks with a width not exceeding that allowed by the Rules in non-prestrained reinforced concrete structural members in the above-water part of the ship and inside the hull as well as local flaking, chipping and wear of the protective layer may be left until the scheduled maintenance. Where water level increase does not exceed 2 cm per day such leaking in reinforced concrete hull structures is considered allowable. Where substantial defects are found, their causes shall be revealed and measures to prevent similar defects in future shall be taken.".

**22 SURVEY OF FLOATING OFFSHORE OIL-AND-GAS PRODUCTION UNITS (FPU),  
FLOATING STORAGE AND OFFLOADING/FLOATING PRODUCTION  
STORAGE AND OFFLOADING UNITS (FSO/FPSO), SHIPS USED AS FLOATING  
OIL STORAGE UNITS (FSO/FPSO)**

**22.2 SURVEYS**

12 **Para 22.2.1.4** is replaced by the following text:

"**22.2.1.4** Where, upon decision of Flag State MA, the FPU (FSO/FPSO) shall be regulated by the requirements of IMO resolution MEPC.311(73), then regardless of the SOLAS 74/78 applicability to the FPU (FSO/FPSO) in question, such FPU shall be surveyed according to the enhanced survey programme in compliance with the ESP Code (based on regulation XI-1/2 of SOLAS-74/78) and, respectively, Sections 2 and/or 3 of this Part of the Rules, as applicable (except for 2.2 of the applicable Parts A and B of Annex B to the ESP Code in respect of dry dock survey. In accordance with the MA decision, the bottom survey of the ship may be carried out afloat instead of in dry dock).

Where MA does not require to perform the FPU survey according to the enhanced survey programme, the distinguishing mark (**ESP**) may be added, at the shipowner's discretion, to the character of classification of FPU (FSO/FPSO) after the descriptive notation. In this case, the scope of survey and thickness measurements of the FPU hull structures shall be agreed with the Register in each particular case.

In case of necessity the FPU to be engaged on any voyages for any purposes from its operational location, the FPU owner shall apply to the Register with a request to review the possibility of retainment of descriptive notation **FSO** or **FPSO** in the class notation, as well as the necessity of survey and determination of its scope."

**APPENDIX 2. INSTRUCTIONS FOR DETERMINATION OF THE TECHNICAL CONDITION,  
RENOVATION AND REPAIR OF THE HULLS OF SEA-GOING SHIPS**

13 **Para 3.3.1.4** is replaced by the following text:

"**3.3.1.4** The results of measurements shall be drawn up in accordance with 3.1.7. The deformation type, results of camber measurements and other standardized parameters of the hull member deformations shall be indicated in the appropriate drawings of the gauged structures (shell expansion drawings, deck, double bottom and bulkhead plans, etc.)."

14 **Para 3.4.1.5** is replaced by the following text:

"**3.4.1.5** The results of measurements shall be drawn up in accordance with 3.1.7. Cracks with indication of their length, opening displacement and orientation shall be indicated in the appropriate drawings of the cracked structure."

**APPENDIX 4. INSTRUCTION ON RESIDUAL THICKNESS MEASUREMENTS  
OF SHIP'S ELEMENTS**

15 **Para 4.2.1** is replaced by the following text:

"**4.2.1** Prior to commencement of the thickness measurements, as required by these Rules at intermediate and special surveys of ships and floating facilities, including MODU, a meeting shall be held between the attending surveyor(s), the master of the ship or an appropriately qualified representative appointed by the master or company, the owner's representative(s) in



attendance and the representative(s) of the TM service supplier so as to ensure the safe and efficient execution of the surveys and thickness measurements to be carried out onboard. During the meeting the authorization of the TM service supplier which directed this particular operator/supervisor on board the ship to perform thickness measurements shall be submitted to the RS surveyor. The authorization shall have original signature and stamp of the TM service supplier (an example of the authorization is given in Annex F). The copy of it shall be attached to the TM Report.

Based upon results of the meeting, the Minutes of Meeting prior to Commencement of Thickness Measurements (form 6.6.1) with one of the Attachments (depending on the type and age of the ship and type of the survey) shall be drawn up and signed by all parties. Forms of the Minutes of Meeting and Attachments thereto in the MS Word format can be downloaded from the RS internal website, and are generated with the help of "VOLNA" software."

16 **Para 4.2.2** is replaced by the following text:

**"4.2.2** It is recommended that thickness measurements shall be carried out in a single operation, by one TM service supplier. If, however, thickness measurements are carried out in several operations within the period prescribed for the survey and/or by different TM service suppliers, separate meetings shall be held at each time with drawing up a separate Minutes of Meeting prior to Commencement of Thickness Measurements with an appropriate Attachment."

17 **Para 4.2.4** is renumbered **4.2.5** and replaced by the following text:

**"4.2.5** Upon completion of intermediate and special surveys at which thickness measurements have been done, the Minutes of Meeting prior to Commencement of Thickness Measurements together with appropriate Attachments drawn up properly and containing all necessary signatures and stamps/seals shall be submitted by the RS surveyor to be kept in the ship file in accordance with the common procedure established by the Register as regards the RS reporting documents control."

18 **Para 4.2.5** (existing) is renumbered **4.2.4**.

19 **Annex A** is deleted. The annex number is reserved.

20 **Annex B. Para 9** is replaced with the following text:

**"9 Items of survival craft launching appliances.**

During assessment of technical condition of survival craft, one shall be guided by the following:

lifeboats, rigid liferafts and buoyant apparatus having damages, such as cracks, holes or dents, and wooden boats rotten or leaking shall not be permitted for use/operation;

mean wear of metal structures shall not exceed 20 % of the as-built thickness;

strength items with mean wear equal to 10 % or more of the as-built thickness or diameter shall be replaced;

a steel wire rope shall be replaced in case the number of wire breaks in any place over its length equal to eight diameters is 10 % or more of the total number of wires as well as in case of excessive deformation of the wire rope;

a fiber rope shall be replaced even if one rope yarn is broken, rotten, or it is substantially worn-out or deformed.

At each special survey of ships over 10 years of age and at the second or third annual survey of ships over 20 years of age, the residual thickness measurements of metal structures of survival craft shall be carried out. In other cases, such measurements shall be taken at the discretion of the RS surveyor."