RULES
FOR THE CLASSIFICATION SURVEYS OF SHIPS IN SERVICE
WITH ANNEXES

ND NO. 2-020101-012-E

RULE CHANGE NOTICE

ENTERS INTO FORCE:
01.01.2024

St. Petersburg
2023
The present Rule Change Notice to the Classification Surveys of Ships in Service with Annexes (hereinafter — RCN) has been approved in accordance with the established approval procedure and contains information on amendments and additions, except for editorial amendments. RCN amendments come into force on 1 January 2024.
## REVISION HISTORY

**RULES FOR THE CLASSIFICATION SURVEYS OF SHIPS IN SERVICE**

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### ANNEXES TO THE RULES FOR THE CLASSIFICATION SURVEYS OF SHIPS IN SERVICE

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RULES FOR THE CLASSIFICATION SURVEYS OF SHIPS IN SERVICE

PART I. GENERAL PROVISIONS

5 ASSESSMENT OF THE SHIP TECHNICAL CONDITION

Para 5.5. The second paragraph is replaced by the following text:

"wear — reduction of strength characteristics of structures and change of components dimensions or deterioration of material quality in operation due to corrosion, erosion, fatigue, galling of contacting parts of flexible joints, chafing, rotting, mould or mustiness (wood, tarpaulin, fibre ropes, etc.). For definition of wear of hull members refer to Annex 2 to these Rules;".

PART II. SURVEY SCHEDULE AND SCOPE

2 PERIODICAL SURVEYS

2.4 SPECIAL SURVEY

Para 2.4.7.2.4 is replaced by the following text:

"2.4.7.2.4 Operational testing of the electric propulsion plant installed on board the ships, including 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.".

4 OTHER SURVEYS

4.8 ADDITIONAL MEASURES AIMED AT MAINTENANCE AND IMPROVEMENT OF THE TECHNICAL CONDITION OF SHIPS

Para 4.8.2.1.1 is replaced by the following text:

"4.8.2.1.1 Fleet monitoring system is implemented by the Register through occasional surveys of ships in the scope of annual survey to verify their compliance with the applicable requirements in the intervals between the prescribed periodical surveys."

Para 4.8.2.3.2 is replaced by the following text:

"4.8.2.3.2 The RS Branch Office for in-service supervision makes an entry on the condition of class (classification requirement) into the classification section of the List of Survey's Status: "Due to implementation of the fleet monitoring system for a ship, an occasional survey in the scope of annual one shall be carried out in accordance with 4.8.3.1 of Part II "Survey Schedule and Scope" of the Rules for the Classification Surveys of Ships in Service. After survey completion, new date of the condition of class (requirement) shall be assigned.". The due date is calculated as the anniversary date plus 6 months. In addition, the due date may not be assigned less than in three (3) months from the date of implementation of the fleet monitoring system for a ship."."
Para 4.8.3.1 is replaced by the following text:

"4.8.3.1  An occasional survey of a ship shall be performed in the scope of annual survey in accordance with 2.2 of this Part of the Rules and Section 2 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 (with regard to the statutory certificates issued to the ship). The decision to carry out measurement of residual thicknesses in the areas of substantial corrosion shall be taken by the RS surveyor based on the results of the survey of hull structures and ballast tanks subject to be examined at annual intervals."

Para 4.8.4.1 is replaced by the following text:

"4.8.4.1  The matters relating to ship keeping out of the fleet monitoring system shall be reviewed by RHO upon the shipowner’s written request and in case of simultaneous compliance with the following conditions:

.1  the ship has been in the fleet monitoring system for at least 4224 months;
.2  at least one occasional survey is carried out in accordance with 4.8.3;
.3  there were no PSC/FSC detentions of the ship in the last 4224 months for the reasons associated with deficiencies relating to technical condition of the item of the RS technical supervision;
.4  the special surveillance regime (SSR) is not applied to the ship."

4.9 SURVEYS ASSOCIATED WITH REPAIR, CONVERSION AND MODERNIZATION OF SHIPS

Para 4.9.2. The third paragraph is replaced by the following text:

"During modernization, repair or conversion of ships, MODU, FOP and offshore installations, in particular, during replacement of insulation in fire structures and repair/replacement of equipment, regardless of the SOLAS-74 applicability to the ship and irrespective of the date of construction, provisions of IMO circulars MSC.1/Circ.1374/Rev.1, MSC.1/Circ.1379, and MSC.1/Circ.1426, MSC.1/Circ.1671 and MSC.1/Circ.1672, Annex 48 to the Guidelines and IACS recommendation No. 130, prohibiting installation of the materials and products containing asbestos on board ship (refer to 1.8.21 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) and to perform repair and maintenance using such materials or products, shall be met. The shipowner shall be responsible for ensuring that these provisions are met.

The Note is supplemented with the following text:

"From 1 January 2024, the provisions of IMO circulars MSC.1/Circ.1671 and MSC.1/Circ.1672 shall also be followed at survey of MODU to which the requirements of Codes for the Construction and Equipment of Mobile Offshore Drilling Units (MODU Codes): the 2009 MODU Code, the 1989 MODU Code or the 1979 MODU Code are applicable."

The last paragraph is deleted.
ANNEXES TO THE RULES FOR THE CLASSIFICATION SURVEYS OF SHIPS IN SERVICE

ANNEX 2

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

2 INSTRUCTIONS ON ASSESSMENT OF THE HULL TECHNICAL CONDITION

2.2 STRUCTURES WITH WEAR

Table 2.2.1.1 is replaced by the following one:

| Ships built according to the Rules for Construction | Required** | Required if the residual cross-sectional area (column 2) is less than 90 % of the as-built area | — |
| Ships built according to the rules of Russian River Register/Russian Classification Society (RCS) | — | Required at any wear degree | Required at any wear degree |
| Ships transferred into the RS class from ACS — IACS member | According to the losing society standards*** | According to the losing society standards*** | According to the losing society standards*** |
| Ships transferred into the RS class from ACS — non-IACS member or accepted into the RS class as non-classed ships | — | Required at any wear degree | — |

* Verification of the hull cross-sectional (transverse sectional) characteristics is carried out at each special survey starting from the second one, by using the thickness measured, renewed or reinforced, as appropriate. The verification of the hull cross-sectional characteristics may be required, as deemed necessary by the RS surveyor, at annual/intermediate/occasional survey of ships over 10 years of age, if suspect areas, residual deformations have been found on the deck and/or bottom shell plating including the bilge, that may affect the hull cross-sectional characteristics.

** For ships built according to the Rules for Construction, the allowable diminution of the transverse sectional (cross-sectional) areas of deck and bottom with bilge shall be established equal to and less than 10 % of the as-built area.
Para 2.2.1.3 is replaced by the following text:

"2.2.1.3 For ships specified in 2.2.1.1 of this Annex, built in compliance with the rules of Russian River Register/RCS, additionally, the verification of the hull section ultimate bending moment or residual ultimate section modulus shall be performed in accordance with the following condition: the conditions (2.2.1.3-1) or (2.2.1.3-2) accordingly:

\[
M''_{\text{sag(hog)}} \geq M_{\text{ult}}
\]

(2.2.1.3-1)

where

- \(M''_{\text{sag(hog)}}\) = ultimate hull section bending moment (disregarding the sign) in case of sagging,
- \(M_{\text{ult}}\) = hogging determined in accordance with 3.2.2.3 and 3.3.2.2;
- \(W_{\text{d(b)}}\) = residual ultimate hull section modulus determined in accordance with 3.2.2.3 and 3.3.2.2;
- \([W_{\text{d(b)}}]\) = permissible residual ultimate hull section modulus determined in accordance with 4.2.1.2.

Such verification of the hull cross-sectional characteristics shall be performed at each special survey starting from the second one."

3 PROCEDURE OF INSPECTION (FLAW DETECTION) OF THE SHIP’S HULL

3.2 STRUCTURES WITH WEAR

Para 3.2.2.3 is replaced by the following text:

"3.2.2.3 The hull section ultimate bending moment \(M''_{\text{sag(hag)}}\) and/or residual ultimate hull section modulus \(W''_{\text{d(b)}}\) shall be calculated in accordance with the requirements of the Strength Norms for Sea-Going Ships developed by the Register or by means of incremental-iterative method (Smith method)\(^1\). Actual member scantlings shall be considered when calculating geometrical characteristics.

\(^1\) Refer to the Rules for the Classification and Construction of Sea-Going Ships, Part XVIII "Additional Requirements for Structures of Container Ships and Ships, Dedicated Primarily to Carry their Load in Containers"."
3.3 STRUCTURES WITH DEFORMATIONS

Para 3.3.2.2 is replaced by the following text:

"3.3.2.2  The hull section ultimate bending moment $M''_{\text{sag(hog)}}$ and/or residual ultimate hull section modulus $W''_{d(b)}$ shall be determined in case of ship hogging and sagging in accordance with the procedures approved by the Register. In any case, the reduction of compressed hull members and of those deformed hull members, which are compressed and strained, shall be considered. The calculation of $M''_{\text{sag(hog)}}$ and/or $W''_{d(b)}$ shall be reviewed and agreed upon by the Register."

4 STANDARDS FOR HULL WITH DEFECTS

4.2 STRUCTURES WITH WEAR

Para 4.2.1.2 is replaced by the following text:

"4.2.1.2  The required ultimate hull section bending moment in case of sagging, hogging $M_{\text{ult}}$, in kNm, is determined from the formula

$$M_{\text{ult}} = 1.1 \cdot |0.92M_w + M_{sw}|$$

(4.2.1.2-1)

where $M_w, M_{sw}$ — bending moments in case of sagging, hogging, in kNm, to be determined from the Rules for Construction.

The permissible residual ultimate hull section modulus $[W^u_{d(b)}]$, in cm³, for a deck or bottom is determined from the formula

$$[W^u_{d(b)}] = \frac{M_{\text{ult}}}{\sigma_n} \cdot 10^3$$

(4.2.1.2-2)

where $M_{\text{ult}}$ — bending moments, in kNm, to be determined from the Rules for Construction; $\sigma_n$ — standard yield stress of deck (bottom) material, in MPa, in accordance with the Rules for Construction."

Para 4.2.2.1. Text before Formula (4.2.2.1-3) is replaced by the following one:

"for ships built to the RS Rules whose keel was laid before 1 October 1990 (may also be applied to series of ships built to the RS Rules irrespective the keel laying date, provided that the keel of the prototype ship was laid before 1 October 1990)."

Para 4.2.3.3. Text before Formula (4.2.3.3-3) is replaced by the following one:

"for ships built to the RS Rules whose keel was laid before 1 October 1990 (upon agreement with the Register may also be applied to series of ships built to the RS Rules irrespective the keel laying date, provided that the keel of the prototype ship was laid before 1 October 1990)."

Para 4.2.5. Text before Formula (4.2.5-1) is replaced by the following one:

"for ships built to the RS Rules whose keel was laid before 1 October 1990 (upon agreement with the Register may also be applied to series of ships built to the RS Rules
irrespective the keel laying date, provided that the keel of the prototype ship was laid before 1 October 1990).".
Russian Maritime Register of Shipping

Rule Change Notice to the Rules for the Classification Surveys of Ships in Service with Annexes

Endorsed: 23-243764

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