



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 313-68-1520c

dated 12.03.2021

Re:

amendments to the Rules for the Classification and Construction of Sea-Going Ships, 2021, ND No.2-020101-138-E considering the experience of technical supervision

Item(s) of supervision:

ships under construction

Entry-into-force date:

29.03.2021

~~Valid till:~~

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

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Number of pages:

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Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Parts VIII "Systems and Piping" and X "Boilers, Heat Exchangers and Pressure Vessels"

Director General

Konstantin G. Palnikov

Text of CL:

We hereby inform that the Rules for the Classification and Construction of Sea-Going Ships shall be amended 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, interested organizations and persons in the area of the RS Branch Offices' activity.
2. Apply the provisions of the Circular Letter during review and approval of the technical documentation on ships contracted for construction or conversion on or after 29.03.2021, in the absence of a contract, the keels of which are laid or which are at a similar stage of construction on or after 29.03.2021.

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

Part VIII: paras 4.2.7, 11.3.2.9 and 13.13.4

Part X: paras 2.1.2.1, 3.3.4.2, 3.3.6.4, 3.3.6.10 and 4.1.1

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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 VIII, para 4.7	New para has been introduced containing requirements for self-cleaning filters	313-68-1520c of 12.03.2021	29.03.2021
2	Part VIII, para 11.3.2.9	Requirements have been specified for the material of storage tanks and piping systems	313-68-1520c of 12.03.2021	29.03.2021
3	Part VIII, para 13.13.4	Obsolete references have been deleted	313-68-1520c of 12.03.2021	29.03.2021
4	Part X, para 2.1.2.1	Requirements have been specified for the design pressure	313-68-1520c of 12.03.2021	29.03.2021
5	Part X, para 3.3.4.2	Requirements have been specified for the lowest water level in the boiler	313-68-1520c of 12.03.2021	29.03.2021
6	Part X, para 3.3.6.4	Requirements have been specified for the adjustment of safety valves of steam boilers	313-68-1520c of 12.03.2021	29.03.2021
7	Part X, para 3.3.6.10	Requirements have been specified for the remote control gear of the safety valves	313-68-1520c of 12.03.2021	29.03.2021
8	Part X, para 4.1.1	Status of the requirements has been specified	313-68-1520c of 12.03.2021	29.03.2021

RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF SEA-GOING SHIPS, 2021

ND No. 2-020101-138-E

PART VIII. SYSTEMS AND PIPING

4 ELEMENTS OF THE SYSTEMS AND PIPING

1 **New para 4.2.7** is introduced reading as follows:

"**4.2.7** Self-cleaning filters shall be fitted with differential pressure monitoring devices and, at least, two filtering chambers, one of which shall be always cleaned and in reserve. During operation, periodical cleaning of a dirty filter chamber shall be automatically provided with backflush, blowing with compressed air or by other means without interrupting the filter operation. Fuel oil or lubricating oil contaminated as a result of washing/blowing shall be discharged to the dirty fuel oil tanks, waste lubricating oil tanks or oil residues tanks."

11 EXHAUST GAS SYSTEM

2 **Para 11.3.2.9** is replaced by the following text:

".**9** reductant storage tanks and piping systems shall be of steel and other equivalent material with a melting point above 925 °C except for downstream of the tank valve, provided this valve is metal seated and arranged as fail-to-closed or with quick closing from a safe position outside the space in the event of fire. In such case, type approved plastic piping may be accepted even if it has not passed a fire endurance test. Reductant tanks and piping systems shall be made with a material resistant to interaction with reductant or coated with appropriate anti-corrosion coating;"

13 FUEL OIL SYSTEM

3 **Para 13.13.4** is replaced by the following text:

"**13.13.4** Fuel oil tanks shall be provided with the arrangements whereby a fuel spillage shall be collected and drained into an off-grade fuel oil tank."

PART X. BOILERS, HEAT EXCHANGERS AND PRESSURE VESSELS

2 STRENGTH CALCULATIONS

4 **Para 2.1.2.1** is replaced by the following text:

"**2.1.2.1** The design pressure to be used for strength calculations of the elements of boilers, heat exchangers and pressure vessels shall generally be taken not less than the maximum permissible working pressure of the medium under the normal operation, herewith, the design pressure shall not be less than the maximum pressure at the fully open position of the safety valves.

The hydrostatic pressure shall be taken into account in the design pressure calculations when it exceeds 0,05 MPa."

3 BOILERS

5 **Para 3.3.4.2** is replaced by the following text:

"**3.3.4.2** In all cases the lowest water level in the boiler shall be at a distance not less than 150 mm above the highest heating-surface point subject to direct heat radiation. This distance shall also be maintained when the ship is listed up to 5 degrees either side and under all possible service trim conditions. Herewith, the fire and flue tubes of fire-tube and composite boilers shall be covered with water by at least half of their length.

In the case of boilers with design steaming capacity less than 750 kg/h, the said minimum distance between the lowest water level and the highest heating-surface point may be reduced down to 125 mm."

6 **Para 3.3.6.4** is replaced by the following text:

"**3.3.6.4** The safety valves of steam boilers shall be adjusted at the opening pressure of not more than $1,03p_{design}$. In all cases the safety valve shall be so adjusted that at fully open position and with the maximum steaming capacity of a boiler the pressure shall not exceed $1,1p_{design}$ ".

7 **Para 3.3.6.10** is replaced by the following text:

"**3.3.6.10** The safety valves shall be so arranged that they can be lifted by a manual remote control gear as well as that powered from energy source. The remote control gear of at least one of the valves shall be operated from the position where the possibility of steam effect is excluded."

4 CONTROLS, GOVERNORS, PROTECTIVE DEVICES AND ALARMS FOR BOILERS

8 **Para 4.1.1** is replaced by the following text:

"**4.1.1** The requirements of the present Section apply to continuously attended steam boilers and thermal fluid boilers.

The requirements for controls, governors, protective devices and alarms for boilers comprising unattended automated boiler plants are specified in 4.3, Part XV "Automation" and 4.2.3.1, Part VI "Fire Protection".