



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 315-12-1669c

dated 26.11.2021

Re:

amendments to the Rules for the Equipment of Sea-Going Ships, 2021, ND No. 2-020101-144-E

Item(s) of supervision:

ships and offshore installations under construction

Entry-into-force date:

01.01.2022

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

~~dated~~

Number of pages: 1 + 3

Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Part V "Navigational Equipment"

Director General

Konstantin G. Palnikov

Text of CL:

We hereby inform that the Rules for the Equipment 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, as well as 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 01.01.2022, in the absence of a contract, the keels of which are laid or which are at a similar stage of construction on or after 01.01.2022, as well as during review and approval of the technical documentation on ships, the delivery of which is on or after 01.01.2022.
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List of the amended and/or introduced paras/chapters/sections:

Part V: paras 1.2.2, 3.7.1.2 and Chapter 5.29

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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	Para 1.2.2	Definitions "460-Switch", "460-Forwarder", "460-Network", "450-Node", "460-Node" and "460-Gateway" have been introduced for cyber safety equipment	315-12-1669c of 26.11.2021	01.01.2022
2	Para 3.7.1.2	Para has been specified based on the experience of technical supervision during ship design, as well as provisions of the international standard ISO 25862:2009	315-12-1669c of 26.11.2021	01.01.2022
3	Chapter 5.29	New Chapter has been introduced containing requirements for cyber safety equipment for shipboard radio- and navigational equipment	315-12-1669c of 26.11.2021	01.01.2022

RULES FOR THE EQUIPMENT OF SEA-GOING SHIPS, 2021,

ND No. 2-020101-144-E

PART V. NAVIGATIONAL EQUIPMENT

1 GENERAL

1 **Para 1.2.2.** After the definition "Apparent wind" the definition "460-Switch" is introduced reading as follows:

"460-Switch is a network infrastructure device used to interconnect nodes on a 460-Network and which satisfies the requirements as specified in IEC 61162-460."

2 **Para 1.2.2.** After the definition "Target bearing" the definition "460-Forwarder" is introduced reading as follows:

"460-Forwarder is a network infrastructure device that can safely exchange data streams between a 460-Network and other controlled networks including other 460-Networks."

3 **Para 1.2.2.** After the definition "Wheelhouse" the definition "460-Network" is introduced reading as follows:

"460-Network is a network which consists of only 450-Nodes, 460-Nodes and network infrastructure devices of a 460-Network (switches, forwarders, gateways)."

4 **Para 1.2.2.** After the definition "Target's motion trend" the definitions "450-Node" and "460-Node" are introduced reading as follows:

"450-Node is a device compliant with the requirements of IEC 61162-450 and which satisfies additional requirements specified in IEC 61162-460.

460-Node is a device connected to a protected (controlled) network, compliant with the requirements of a 450-Node and which satisfies applicable requirements specified in IEC 61162-460."

5 **Para 1.2.2.** After the definition "Trunk for log and/or echo sounder" the definition "460-Gateway" is introduced reading as follows:

"460-Gateway is a network infrastructure device that connects protected (controlled) 460-Network and uncontrolled networks and which satisfies the requirements as specified in IEC 61162-460."

3 SPACES INTENDED FOR INSTALLATION OF NAVIGATIONAL EQUIPMENT. ARRANGEMENT OF NAVIGATIONAL EQUIPMENT AND CABLING

6 **Para 3.7.1.2** is replaced by the following text:

3.7.1.2 The standard magnetic compass shall be installed on the upper bridge in an open place which shall provide for taking visual bearings of objects within the greater part of the circumference of the horizon. In any case, the possibility for taking bearings within the sector of 230° shall be provided, i.e. 115° to each ship's side from the direction right ahead. The view of the horizon may be impaired only by masts, towers, cranes and similar obstructions.

All-round free access to standard compass shall be provided.

On ships with gross tonnage less than 150 with no compass bridge, installation of the standard magnetic compass shall be provided as far as practicable and expedient."

5 PERFORMANCE STANDARDS AND FUNCTIONAL REQUIREMENTS FOR NAVIGATIONAL EQUIPMENT

7 **New Chapter 5.29** is introduced reading as follows:

"5.29 CYBER SAFETY EQUIPMENT FOR RADIO AND NAVIGATIONAL EQUIPMENT

5.29.1 The cyber safety equipment for radio and navigational equipment shall comply with the requirements of 5.1.

5.29.2 The cyber safety equipment for radio and navigational equipment shall comply with the requirements as specified in IEC 61162-460:2020."