



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 315-22-1724c

dated 22.03.2022

Re:

amendments to the Rules for the Classification and Construction of Sea-Going Ships, 2022, ND No. 2-020101-152-E

Item(s) of supervision:

electrical equipment

Entry-into-force date:

15.04.2022

~~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 XI "Electrical Equipment"

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 as well as equipment installed on board the ships contracted for construction or conversion on or after 15.04.2022.
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List of the amended and/or introduced paras/chapters/sections:

Part XI: paras 16.8.5.6, 17.3.4, 18.6.2.1.1.2, 19.2.3.2.2.10, 19.2.3.2.3.5 and 19.2.3.3

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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 16.8.5.6	Requirements for cable run laying have been specified	315-22-1724c of 22.03.2022	15.04.2022
2	Para 17.3.4	Requirements for braking devices of propulsion motors have been specified	315-22-1724c of 22.03.2022	15.04.2022
3	Para 18.6.2.1.1.2	Requirements for switchboards designed for a voltage in excess of 1000 V have been specified	315-22-1724c of 22.03.2022	15.04.2022
4	Para 19.2.3.2.2.10	Determination of spaces considered for dangerous zone 1 has been specified	315-22-1724c of 22.03.2022	15.04.2022
5	Para 19.2.3.2.3.5	Determination of spaces considered for dangerous zone 2 has been specified	315-22-1724c of 22.03.2022	15.04.2022
6	Para 19.2.3.3	Requirements for spaces not regarded as dangerous have been specified	315-22-1724c of 22.03.2022	15.04.2022

RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF SEA-GOING SHIPS, 2022,

ND No. 2-020101-152-E

PART XI. ELECTRICAL EQUIPMENT

16 CABLES AND WIRES

- 1 **Para 16.8.5.6** is replaced by the following text:

"**16.8.5.6** Cable runs shall be installed with a minimum number of crossings. The height of structures for crossing cable runs shall provide a distance between runs of not less than 5 mm. At places where cables cross each other and where it is impossible to leave an air gap, sheet rubber gaskets shall be applied."

17 ELECTRIC PROPULSION PLANTS

- 2 **Para 17.3.4** is replaced by the following text:

"**17.3.4** Provision shall be made for braking or locking devices as part of the shafting to prevent its free rotation with a switched-off propulsion motor (shaft) at any environmental conditions or during ship towing (refer also to 7.2.10, Part VII "Machinery Installations")."

18 ADDITIONAL REQUIREMENTS FOR ELECTRICAL EQUIPMENT DESIGNED FOR A VOLTAGE IN EXCESS OF 1000 V UP TO 15 KV

- 3 **Para 18.6.2.1.1.2** is replaced by the following text:

"**18.6.2.1.1.2** Passageways for a switchboard and electrical equipment inspection at least 800 mm wide and 1000 mm wide between the bulkhead and switchboard, and between parallel switchboard sections respectively, shall be provided along the switchboards. Where intended for maintenance, their width shall be increased up to 1000 mm and 1200 mm respectively.

The specified width of these passageways is required irrespective of the applied means of protection against contact, like doors, net or insulated guardrails.

The doors, continuous bulkheads and net screens shall be at least 1800 mm high.

The perforated bulkheads or net screens shall ensure a degree of protection not below IP2X.

Insulated guardrails shall be provided on the front side of all main and emergency switchboards. Where the access is required behind these switchboards for their operation or technical maintenance, insulated guardrails shall be installed on the back side of these switchboards."

19 REQUIREMENTS FOR ELECTRICAL EQUIPMENT PROCEEDING FROM SHIP PURPOSE

4 **Para 19.2.3.2.2.10** is replaced by the following text:

".10 areas on the open deck above cargo compartments and tanks where the structures limit natural ventilation, over the full breadth of the ship and 3 m fore and aft of their boundary bulkheads up to a height of 2,4 m above the deck as well as enclosed and semi-enclosed spaces within this area. For ships operating in the oil spill, this area is extended to cover the whole length of the ship;"

5 **New para 19.2.3.2.3.5** is introduced reading as follows:

".5 areas on the open deck above cargo compartments and tanks where unlimited natural ventilation is provided, over the full breadth of the ship and 3 m fore and aft of their boundary bulkheads up to a height of 2,4 m above the deck around enclosed and semi-enclosed spaces of area 1."

6 **Para 19.2.3.3** is replaced by the following text:

"19.2.3.3 Enclosed spaces having direct access to or other openings into areas listed under 19.2.3.2.2.10 and 19.2.3.2.3.5 are not regarded as dangerous if provision is made for two self-closing gastight doors forming an air lock and, additionally, for mechanical supply ventilation with air suction from locations outside dangerous zones."