



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 315-23-1655c

dated 09.11.2021

Re:

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

Item(s) of supervision:

main and emergency switchboards and electric propulsion motors

Entry-into-force date:

01.12.2021

Cancels / amends / adds Circular Letter No.

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dated -

Number of pages:

1 + 2

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 provisions of the Circular Letter during review and approval of the technical documentation on ships contracted for construction or conversion on or after 01.12.2021, in the absence of a contract, on ships, the keels of which are laid or which are at a similar stage of construction on or after 01.12.2021.
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List of the amended and/or introduced paras/chapters/sections:

Part XI: paras 4.6.7.1, 4.6.7.2 and 17.12.2.6

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"Thesis" System No. 21-261558

**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 4.6.7.1	Requirements for width of passageways in front of the switchboard have been specified	315-23-1655c of 09.11.2021	01.12.2021
2	Para 4.6.7.2	Requirements for width of passageways behind the switchboard have been specified	315-23-1655c of 09.11.2021	01.12.2021
3	Para 17.12.2.6	Requirements for cooling system of electric propulsion motors have been specified	315-23-1655c of 09.11.2021	01.12.2021

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

ND No. 2-020101-138-E

PART XI. ELECTRICAL EQUIPMENT

4 DISTRIBUTION OF ELECTRICAL POWER

1 **Paras 4.6.7.1 and 4.6.7.2** are replaced by the following text:

4.6.7.1 In front of the main, emergency and other switchboards, a passageway shall be provided not less than 1000 mm wide for switchboards 3 m long and over. In front of the main and emergency switchboards, a passageway shall be provided not less than 800 mm wide for switchboards up to 3 m long and on ships of less than 500 gross tonnage, the passageway shall be at least 600 mm wide.

If withdrawable arrangements are provided in front of the main and emergency switchboards, the free space in the passageway shall be not less than 400 mm wide from the most protruding parts of this arrangement in completely withdrawn position.

In any case, if opening swing panels are located in front of the switchboard, the width of the passageway shall be sufficient for switchboard maintenance with the panel at a fully open position.

4.6.7.2 Behind the free standing main and emergency switchboards, it is necessary to provide a passageway not less than 600 mm wide. In case of passageway narrowing caused by location of hull framing (frames, stiffeners, etc.) behind the main or emergency switchboard, the width of passageway at the narrowing point may be reduced down to 500 mm.

In any case, if opening swing panels are located behind the switchboard, the width of the passageway shall be sufficient for switchboard maintenance with the panel at a fully open position.

Between the free standing switchboards with open live parts located in special electrical spaces a passageway shall not be less than 1000 mm wide."

17 ELECTRIC PROPULSION PLANTS

3 **Para 17.12.2.6** is replaced by the following text:

17.12.2.6 Air-cooled electric propulsion motors shall be fitted with air intake filters and at least two forced draught fans (groups of fans), ensuring emergency operation required in 17.12.2.5 in case of failure of either fan. For electric propulsion plant with one electric propulsion motor, supply of each electric drive of forced draught fans from different switchboards or from different sections of the main switchboard shall be provided. Where several electric propulsion motors are installed in the electric propulsion plant, electric drives of fans (group of fans) of any separate electric propulsion motor may be supplied from one switchboard or from one section of the main switchboard. At that, electric drives of fans (groups of fans) of different electric propulsion motors shall be supplied from different switchboards or from different sections of the main switchboard. A visual signal indicating fans operation and an alarm on their shutdown shall be provided."