



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 313-70-1208c

dated 28.03.2019

Re:

amendments to the Rules for the Classification and Construction of Sea-Going Ships, 2019, ND No. 2-020101-114-E

Item(s) of supervision:

ships under construction

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Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Part X "Boilers, Heat Exchangers and Pressure Vessels"

Director General

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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. Apply the provisions of the Circular Letter during review and approval of technical documentation of ships.
 2. Bring the content of the Circular Letter to the notice of the RS surveyors and interested persons in the areas of RS Branch Offices' activity.
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List of the amended and/or introduced paras/chapters/sections:

Part X: Table 1.3.1.2, Para 1.4.1

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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	Table 1.3.1.2	Amendments have been made to the division into classes of pressure vessels and heat exchangers and clarified requirements for certification of materials for pressure vessels and heat exchangers, depending on the fire hazard of the working environment.	313-70-1208c dated 28.03.2019	28.03.2019
2	Para 1.4.1	Amendments have been made to the division into classes of pressure vessels and heat exchangers and clarified requirements for certification of materials for pressure vessels and heat exchangers, depending on the fire hazard of the working environment.	313-70-1208c dated 28.03.2019	28.03.2019

**RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF SEA-GOING SHIPS, 2019
ND No. 2-020101-114-E**

PART X. BOILERS, HEAT EXCHANGERS AND PRESSURE VESSELS

1 GENERAL

1.3 SCOPE OF SURVEYS

1 Table 1.3.1.2 is replaced by the following Table 1.3.1.2:

"Table 1.3.1.2

Item	Class		
	I	II	III
Boilers including waste-heat boilers and water heating boilers designed for water temperature above 115 °C, steam superheaters and steam headers	$p > 0,35$	$p \leq 0,35$	—
Thermal liquid boilers	Any parameter	—	—
Refrigerants	Group II ¹ Any parameters	Group I ¹ Any parameters	—
pressure vessels and heat exchangers with toxic, inflammable ² or explosive working medium	Any parameters	—	—
Pressure vessels and steam heat exchangers ³	$p > 1,6$ or $t > 300$	$0,7 < p \leq 1,6$ or $300 < t \leq 170$	$p \leq 0,7$ and $t \leq 170$
Pressure vessels and thermal liquid heat exchangers ³	$p > 1,6$ or $t > 300$	$0,7 < p \leq 1,6$ or $300 < t \leq 150$	$p \leq 0,7$ and $t \leq 150$
Pressure vessels and fuel heat exchangers ³	$p > 1,6$ or $t > 150$	$0,7 < p \leq 1,6$ or $60 < t \leq 150$	$p \leq 0,7$ and $t \leq 60$
Pressure vessels and heat exchangers for lubricating oil and fuel oil of hydraulic systems ³	$p > 1,6$ or $t > 300$	$0,7 < p \leq 1,6$ or $90 < t \leq 300$	$p \leq 0,7$ and $t \leq 90$
Pressure vessels and heat exchangers for non-combustible media ^{3,4}	$p > 4$ or $t > 350$ and $s > 35$	$1,6 < p \leq 4$ or $200 < t \leq 350$ and $16 < s \leq 35$	$p \leq 1,6$ and $t \leq 200$ and $s \leq 16$

¹ According to 2.2.1, Part XII "Refrigerating Plants".

² For the purpose of the Table flammable medium is any liquid or gas with a flash point less than 60 °C.

³ For heat exchangers, the parameters of the two working media participating in the heat exchange shall be taken into account, the vessel class being selected according to the largest parameter for each medium.

⁴ Applicable to heat exchangers and pressure vessels specified in 1.3.2.1.3.

Symbols:

p = design pressure, in MPa;

t = design wall temperature, in °C;

s = wall thickness, in mm.

1.4 MATERIALS

2 **Para 1.4.1** is replaced by the following text:

"**1.4.1** Materials intended for manufacture of components of boilers, heat exchangers and pressure vessels shall satisfy the requirements of the relevant chapters of Part XIII "Materials" specified in column 4 of Table 1.3.3.

Materials for components of boilers, heat exchangers and pressure vessels of Class I and Class II (except for the components specified in items 1.5 and 2.5) are subject to survey by the Register during manufacture.

Materials for components of boilers, heat exchangers and pressure vessels of Class II and III, listed in Table. 1.3.3, can be supplied with certificates according to form 3.1 of EN 10204, if the confirmed test results comply with the requirements of the Register Rules. When checking the documents by the Register Surveyor and when the reasonable doubts about the quality of the material used arise, the Register reserves the right to require additional checks on the compliance of the material with the declared properties.

Materials for components of boilers, heat exchangers and pressure vessels of Class III as well as the components specified in items 1.5 and 2.5 of Table 1.3.3 for any Classes may also be selected in accordance with the international and national standards valid at the time of consideration of technical documentation and be supplied with documents of the manufacturer. In this case, the use of materials is subject to agreement with the Register during review of the technical documentation."