CIRCULAR LETTER No. 110-312-1-1695c dated 04.02.2022

Re: amendments to the Rules for the Classification and Construction of Nuclear Ships and Floating Facilities, 2022, ND No. 2-020101-168-E

Item(s) of supervision:
technical documentation on nuclear ships and floating facilities; products used for construction of nuclear ships and floating facilities

Entry-into-force date: 15.02.2022

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 Parts I "General", IV "Hull", VII "Machinery Installations", VIII "Nuclear Steam Supply Systems" and X "Electrical Equipment"

Director General Konstantin G. Palnikov

Text of CL:
We hereby inform that due to completion of testing the power unit of the project 22220 leading nuclear icebreaker, the Rules for the Classification and Construction of Nuclear Ships and Floating Facilities 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 involved in technical supervision during manufacture of materials and products for the nuclear ships and floating facilities.
2. Apply the provisions of the Circular Letter when performing technical supervision during construction of the nuclear ships and floating facilities, during review and approval of the technical documentation and when performing technical supervision during manufacture of materials and products for the nuclear ships and floating facilities contracted for construction on or after 15.02.2022.

List of the amended and/or introduced paras/chapters/sections:
Part I: para 3.1
Part IV: para 6.6
Part VII: title, para 1.1
Part VIII: paras 7.5.7 and 17.3
Part X: para 2.7

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"Thesis" System No. 22-11528
## Information on amendments introduced by the Circular Letter
(for inclusion in the Revision History to the RS Publication)

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<td>Part I, para 3.1</td>
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<td>4</td>
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RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF NUCLEAR SHIPS
AND FLOATING FACILITIES, 2022,
ND No. 2-020101-168-E

PART I. GENERAL

3 DEFINITIONS AND EXPLANATIONS

1 Para 3.1. The definition "Nuclear power unit" is replaced by the following text:

"Nuclear power unit is the main power unit designed to perform primary functions of
nuclear ship or nuclear floating facility. Nuclear power unit comprises nuclear reactors including supply
systems, steam turbines including supply systems and electrical energy system comprising main
generators and electrical propulsion engines.".

PART IV. HULL

6 CONTAINMENT

2 Para 6.6 is replaced with the following text:

"6.6 Containment shall be operational when compressed due to action of external pressure
and in case of flooding of the ship/floating structure (refer to 3.5, Part VII "Machinery Installations
and Machinery").".

PART VII. MACHINERY INSTALLATIONS

3 The Part title is replaced with the following text:

"PART VII. MACHINERY INSTALLATIONS AND MACHINERY".

1 GENERAL

4 Para 1.1 is replaced with the following text:

"1.1 Nuclear power unit shall comply in full with all the requirements of Parts VII "Machinery
Vessels" and XV "Automation" of the RS Rules and requirements of this Part.".
PART VIII. NUCLEAR STEAM SUPPLY SYSTEMS

7 ACCIDENT ANALYSIS

5 Para 7.5.7. The first paragraph is replaced with the following text:

"7.5.7 Ship grounding and stranding with heel as specified in 2.1, Part VII "Machinery Installations and Machinery" shall be evaluated with regard to the following:"

17 SYSTEMS AND PIPING

6 Para 17.3 is replaced with the following text:

"17.3 All pipelines penetrating the containment shall comply with 3.3 and 3.4, Part VII "Machinery Installations and Machinery".".

PART X. ELECTRICAL EQUIPMENT

2 GENERAL REQUIREMENTS

7 Para 2.7 is replaced with the following text:

"2.7 In accordance with Table 2.1, Part VII "Machinery Installations and Machinery", electrical equipment of machinery and systems important for safety of the steam supply system shall be capable of faultless operation under continuous heel up to 30°, roll up to 45° and trim up to 10°."."