CIRCULAR LETTER       No. 312-11-1682c       dated 20.12.2021

Re: amendments to the Rules for the Classification and Construction of Sea-Going Ships, 2021, ND No. 2-020101-138-E considering experience in application of the Rules and the experience of technical supervision

Item(s) of supervision:
ships under construction, technical documentation

Entry-into-force date:
refer to Appendix 1


Number of pages: 1+3

Appendices:
Appendix 1: information on amendments introduced by the Circular Letter
Appendix 2: text of amendments to Part I "Classification" and Part VII "Machinery Installations"

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 contracted for construction or conversion on or after 14.01.2022, in the absence of a contract, on ships, for which technical documentation is submitted for consideration on or after 14.01.2022, unless otherwise stated in the Appendix 1.

List of the amended and/or introduced paras/chapters/sections:
Part I: Table 2.2.3.3.2, paras 3.2.16 and 3.3.16
Part VII: para 2.1.17

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"Thesis" System No. 21-317927
## Information on amendments introduced by the Circular Letter (for inclusion in the Revision History to the RS Publication)

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Amended paras/chapters/sections</th>
<th>Information on amendments</th>
<th>Number and date of the Circular Letter</th>
<th>Entry-into-force date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Part I, Table 2.2.3.3.2</td>
<td>Description of ice classes <strong>Arc4 — Arc9</strong> has been amended based on the experience in application of the Rules. Notes to the Table have been amended</td>
<td>312-11-1682c of 20.12.2021</td>
<td>14.01.2022</td>
</tr>
<tr>
<td>2</td>
<td>Part I, para 3.2.16</td>
<td>Requirements for the documentation forming part of the plan approval documentation for supply vessels carrying manned submersibles or ship's diving systems (vessels having distinguishing marks <strong>SDS</strong> or <strong>MS</strong> in the class notation)</td>
<td>312-11-1682c of 20.12.2021</td>
<td>01.01.2022</td>
</tr>
<tr>
<td>3</td>
<td>Part I, para 3.3.16</td>
<td>Requirements for the documentation forming part of the technical design documentation for supply vessels carrying manned submersibles or ship's diving systems (vessels having distinguishing marks <strong>SDS</strong> or <strong>MS</strong> in the class notation)</td>
<td>312-11-1682c of 20.12.2021</td>
<td>01.01.2022</td>
</tr>
<tr>
<td>4</td>
<td>Part VII, para 2.1.17</td>
<td>Area of the requirement application has been amended</td>
<td>312-11-1682c of 20.12.2021</td>
<td>14.01.2022</td>
</tr>
</tbody>
</table>
RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF SEA-GOING SHIPS, 2021,
ND No. 2-020101-138-E

PART I. CLASSIFICATION

2 CLASS OF A SHIP

1 Table 2.2.3.3.2 is replaced by the following text:

<table>
<thead>
<tr>
<th>Ice class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arc9</td>
<td>Year-round operation in all areas of the oceans</td>
</tr>
<tr>
<td>Arc8</td>
<td>In summer/autumn navigation — voyage in all areas of the World Ocean. In winter/spring navigation in Arctic — voyage in close floating second-year ice up to 2,5 m thickness and in freezing non-arctic seas without restrictions</td>
</tr>
<tr>
<td>Arc7</td>
<td>In summer/autumn navigation — voyage in all areas of the World Ocean. In winter/spring navigation in Arctic — voyage in close floating first-year ice up to 2,1 m thickness and in freezing non-arctic seas without restrictions</td>
</tr>
<tr>
<td>Arc6</td>
<td>In summer/autumn navigation in Arctic — voyage in open floating first-year ice up to 1,5 m thickness. In winter/spring navigation in Arctic — voyage in open floating first-year ice up to 1,3 m thickness. Year-round voyage in freezing non-arctic seas</td>
</tr>
<tr>
<td>Arc5</td>
<td>In summer/autumn navigation in Arctic — voyage in open floating first-year ice up to 1,2 m thickness. In winter/spring navigation in Arctic — voyage in open floating first-year ice up to 0,9 m thickness. Year-round voyage in freezing non-arctic seas</td>
</tr>
<tr>
<td>Arc4</td>
<td>In summer/autumn navigation in Arctic — voyage in open floating first-year ice up to 0,9 m thickness. In winter/spring navigation in Arctic — voyage in open floating first-year ice up to 0,7 m thickness. Year-round voyage in freezing non-arctic seas in light ice conditions</td>
</tr>
<tr>
<td>Ice3</td>
<td>Regular voyage in open floating ice-cake ice of non-arctic seas up to 0,7 m thickness</td>
</tr>
<tr>
<td>Ice2</td>
<td>Regular voyage in open floating ice-cake ice of non-arctic seas up to 0,5 m thickness</td>
</tr>
<tr>
<td>Ice1</td>
<td>Episodical voyage in open floating ice-cake ice of non-arctic seas up to 0,4 m thickness</td>
</tr>
</tbody>
</table>

Notes:
1 The possibility of operation of a vessel in a particular area is determined depending on the season, current weather conditions, actual ice conditions, presence of assistance for navigation in ice and this is the responsibility of the shipowner.
2 For ships having distinguishing mark DAS in class symbol ice conditions are assigned on the basis of the descriptions of ice classes.

3 TECHNICAL DOCUMENTATION

2 Para 3.2.16 is replaced by the following text:

"3.2.16 Documentation of supply vessels carrying manned submersibles or ship's diving systems (vessels having distinguishing marks SDS or MS in the class notation).

For supply vessels carrying manned submersibles or ship's diving systems (vessels having distinguishing marks SDS or MS in the class notation) (hereinafter, vessels-carriers), the documentation shall include at least the following:
1 general arrangement plans of manned submersibles or ship's diving systems on the vessel-carrier (**);
.2 arrangement plan of fire-fighting divisions in the vessel-carrier's spaces intended for
control, communications and arrangement of manned submersibles and ship's diving system, as
well as in the spaces for positioning of ancillary equipment of manned submersibles with indication
of doors, closures of openings, passages (cutouts) in such divisions (*);
.3 diagrams, drawings and calculations of fire extinguishing systems for the spaces
specified in 3.2.16.2 (*);
.4 diagram of fire protection and alarm system and alarm system for the spaces specified
in 3.2.16.2 and layouts of the devices to monitor explosion/fire-hazardous concentrations
of combustible gases in the storerooms for cylinders with flammable gases, compressors,
accumulator batteries, etc. (*);
.5 detailed description of fire protection of the spaces with indication of insulating and
finishing materials, their location and combustibility for the spaces specified in 3.2.16.2 (*);
.6 documentation on handling system of manned submersibles (except for documentation
on handling system components located on the manned submersible to be submitted together
with the documentation on the manned submersibles) (*).

3 Para 3.3.16 is replaced by the following text:

"3.3.16 Documentation of supply vessels carrying manned submersibles or ship's
diving systems (vessels having distinguishing marks SDS or MS in the class notation).

For supply vessels carrying manned submersibles or ship's diving systems (vessels having
distinguishing marks SDS or MS in the class notation) (hereinafter, vessels-carriers),
the documentation shall include at least the following:
.1 general arrangement plans of manned submersibles and ship's diving systems on
the vessel-carrier (*);
.2 arrangement plan of fire-fighting divisions in the vessel-carrier's spaces intended for
control, communications and arrangement of manned submersibles and ship's diving system, as
well as in the spaces for positioning of ancillary equipment of manned submersibles with indication
of doors, closures of openings, passages (cutouts) in such divisions (*);
.3 diagrams, drawings and calculations of fire extinguishing systems for the spaces
specified in 3.3.16.2 (*);
.4 diagram of fire protection and alarm system and alarm system for the spaces specified
in 3.3.16.2 and layouts of the devices to monitor explosion/fire-hazardous concentrations
of combustible gases in the storerooms for cylinders with flammable gases, compressors,
accumulator batteries, etc. (*);
.5 detailed description of fire protection of the spaces with indication of insulating and
finishing materials, their location and combustibility for the spaces specified in 3.3.16.2 (*);
.6 documentation on handling system of manned submersibles (except for documentation
on handling system components located on the manned submersible to be submitted together
with the documentation on the manned submersibles) (*).

PART VII. MACHINERY INSTALLATIONS

2 GENERAL REQUIREMENTS

4 Para 2.1.17 is replaced by the following text:

"2.1.17 Propulsion plant of icebreakers and ships of ice classes Arc6 — Arc9 shall be
capable of maintaining the rated power and required rated torque at propeller shafts in a range of
rotation speed corresponding to the appropriate operating conditions in accordance with
the assigned ice class.".