**CIRCULAR LETTER**

**No. 314-19-1693c**

dated 02.02.2022

Re:

amendments to the Rules for the Equipment of Sea-Going Ships, 2022, ND No. 2-020101-153-E

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**Item(s) of supervision:**

navigation lights

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**Entry-into-force date:**

01.03.2022

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**Cancels / amends / adds Circular Letter No.**

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**Number of pages:**

1 + 2

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**Appendices:**

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Part III "Signal Means" of the Rules for the Equipment of Sea-Going Ships

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**Director General**

Konstantin G. Palnikov

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**Text of CL:**

We hereby inform that the Rules for the Equipment of Sea-Going Ships shall be amended as specified in the Appendices to the Circular Letter.

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**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 technical documentation for the equipment installed onboard ships contracted for construction or conversion on 01.03.2022 or after this date", in the absence of a contract - according to 5.10 of Part II "Technical Documentation" of the Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships, starting from 01.03.2022.

* The definition of "date of contract for construction of a ship (series of ships)" is set out in 1.1.2 of Part I "Classification" of the Rules for Classification and Construction of Sea-Going Ships.

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**List of the amended and/or introduced paras/chapters/sections:**

Part III: para 3.1.7.1

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**Person in charge:**

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**"Thesis" System No.**

22-7603
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>Para 3.1.7.1</td>
<td>Requirements for sources of light and maximum allowable luminous intensity of light have been specified considering experience of the Rules application</td>
<td>314-19-1693c of 02.02.2022</td>
<td>01.03.2022</td>
</tr>
</tbody>
</table>
RULES FOR THE EQUIPMENT OF SEA-GOING SHIPS, 2022,
ND No 2-020101-153-E

PART III. SIGNAL MEANS

3 CONSTRUCTION OF SIGNAL MEANS

Para 3.1.7.1 is replaced by the following text:

"3.1.7.1 The source of light in the electric lights shall be an electric lamp or light-emitting diode (LED), and in the oil lights — an oil lamp. For the range of visibility required by Table 3.1.2, the luminous intensity $I$, in cd, of the electric light shall not be less than that determined by the Formula

$$I = 3.43 \cdot 10^6 TD^2 k^{-D}$$  (3.1.7.1)

where $T = 2 \cdot 10^{-7}$ — threshold factor, in lux;
$D$ = range of visibility of the light, in nautical miles;
$k = 0.8$ — atmospheric transmissivity corresponding to meteorological visibility of approximately 13 miles.

The luminous intensity determined by Formula (3.1.7.1) is given in Table 3.1.7.1.
The maximum allowable luminous intensity of electric lights shall be selected to avoid undue glare. This shall not be achieved by a variable control of the intensity of the light.

<table>
<thead>
<tr>
<th>Range of visibility $D$, nautical miles</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminous intensity of light $I$, cd, for $k=0.8$</td>
<td>0.9</td>
<td>4.3</td>
<td>12</td>
<td>27</td>
<td>52</td>
<td>94</td>
</tr>
</tbody>
</table>

Luminous intensity of non-electric lights shall so far as practicable comply with the specified in Table 3.1.7.1."