



# RUSSIAN MARITIME REGISTER OF SHIPPING

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**CIRCULAR LETTER**

**No. 315-07-1596c**

dated 02.07.2021

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Re:

amendments to the Rules for the Classification and Construction of Ships Carrying Liquefied Gases in Bulk, 2021, ND No. 2-020101-140-E

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Item(s) of supervision:

automation equipment

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Entry-into-force date<sup>1</sup>:

**01.08.2021**

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Cancels / amends / adds Circular Letter No.-

dated-

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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 VIII "Instrumentation and Automation Systems"

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Director General

Konstantin G. Palnikov

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Text of CL:

1. Bring the content of the Circular Letter to the notice of the RS surveyors, as well as interested organizations and persons in the area of the RS Branch Offices' activity.
  2. Apply the provisions of the Circular Letter during review of technical documentation on ships contracted for construction or conversion on or after 01.08.2021, 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 01.08.2021.
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It is necessary to do the following:

We hereby inform that the Rules for the Classification and Construction of Ships Carrying Liquefied Gases in Bulk shall be amended as specified in the Appendices to the Circular Letter.

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

Part VIII: paras 7.2, 7.10 and 7.11.3

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Person in charge: Andrey V. Vinogradov 315

+7 (812) 605-05-17

"Thesis" System No. 21-154831

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<sup>1</sup> Service remarks (*delete as appropriate*): ~~contains-~~ does not contain mandatory international/national requirements / ~~urgent implementation is required.~~

**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    | Part VIII, para 7.2             | Reference to IEC 60092-504 standard has been specified | 315-07-1596c of 02.07.2021             | 01.08.2021            |
| 2    | Part VIII, para 7.10            | Reference to ISO/IEC 15288 standard has been specified | 315-07-1596c of 02.07.2021             | 01.08.2021            |
| 3    | Part VIII, para 7.11.3          | Reference to IEC 60812 standard has been specified     | 315-07-1596c of 02.07.2021             | 01.08.2021            |

# RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF SHIPS CARRYING LIQUEFIED GASES IN BULK, 2021,

## ND No. 2-020101-140-E

### PART VIII. INSTRUMENTATION AND AUTOMATION SYSTEMS

#### 7 AUTOMATION SYSTEMS

1 **Para 7.2** is replaced by the following text:

"**7.2** Automation systems shall be designed, installed and tested in compliance with the LG Rules and IEC 60092-504:2016 "Electrical installations in ships — Automation, control and instrumentation".

2 **Para 7.10** is replaced by the following text:

"**7.10** Processes for the development and maintenance of integrated systems shall be in compliance with ISO/IEC/IEEE 15288:2015 "Systems and software engineering — System life cycle processes", and ISO 17894:2005 "Ships and marine technology — Computer applications — General principles for the development and use of programmable electronic systems in marine applications". These processes shall include appropriate risk identification and management."

3 **Para 7.11.3** is replaced by the following text:

"**7.11.3** Key hazards of the integrated system shall be identified using appropriate risk-based techniques. The designer shall develop and submit for approval the procedure for failure mode and effects analysis (FMEA) (in compliance with IEC 60812:2006:2018 "Failure modes and effects analysis (FMEA and FMECA)").