

# RULES

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

ND No. 2-020101-176-E

### RULE CHANGE NOTICE

ENTERS INTO FORCE:

01.01.2024



**St. Petersburg  
2023**

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

---

The present Rule Change Notice to the Rules for the Classification and Construction of Ships Carrying Liquefied Gases in Bulk (hereinafter — RCN) has been approved in accordance with the established approval procedure and contains information on amendments and additions, except for editorial amendments. RCN amendments come into force on 1 January 2024.

## REVISION HISTORY

### PART IV. CARGO CONTAINMENT

Paras/Chapters/Sections	Item(s)/Type(s) of supervision and their particulars	Information on amendments	Remarks/References
<a href="#">Para 23.2.5.4</a> (new)	Gas carriers LG Type C cargo tanks Analysis of stresses in cargo tanks	Reference to the guidelines on carrying out finite element analysis of stresses in the cargo tank has been introduced	IACS Recommendation No. 174 (July 2023)

### PART VI. SYSTEMS AND PIPING

Paras/Chapters/Sections	Item(s)/Type(s) of supervision and their particulars	Information on amendments	Remarks/References
<a href="#">Para 3.23.6.3</a> (new)	LG carriers Cargo system ESD valves	New para has been introduced containing requirements for activation of fail-close action and actuation of audible and visible alarm	IACS UR G5 (New Dec 2022)

**PART IX. MATERIALS AND WELDING**

Paras/Chapters/Sections	Item(s)/Type(s) of supervision and their particulars	Information on amendments	Remarks/References
<a href="#">Para 3.4.1.1</a>	Gas carriers LG Construction Materials with weld metal tensile strength lower than that of the base metal Welds	Para is supplemented with the requirements for tensile tests. Basis: para 6.5.3.5.1 of the IGC Code as amended by IMO resolution MSC.476(102)	

## **PART IV. CARGO CONTAINMENT**

### **23 TYPE C INDEPENDENT TANKS**

**New para 23.2.5.4** is introduced reading as follows:

**".4** when performing finite element analysis of stresses, one shall be guided by the provisions of IACS Rec. No. 174 (July 2023), the document is available on the IACS website ([www.iacs.org.uk](http://www.iacs.org.uk))."

## **PART VI. SYSTEMS AND PIPING**

### **3 CARGO SYSTEM**

**New para 3.23.6.3** is introduced reading as follows:

**"3.23.6.3** When ESD valve is actuated by hydraulic or pneumatic system, the following shall be complied with:

**.1** audible and visible alarm shall be given in the event of loss of pressure that causes activation of fail-close action. The alarm shall be provided in a normally manned control station (e.g. cargo control room (CCR) and/or the navigation bridge, etc.);

**.2** the following conditions shall also be complied to ensure the fail-close action:

**.2.1** failure of hydraulic or pneumatic system shall not lead to loss of fail-close functionality (i.e. activated by spring or weight); or

**.2.2** hydraulic or pneumatic system for fail-close action shall be arranged with stored power and separated from normal valve operation."

The **existing paras 3.23.6.3 – 3.23.6.6** and references thereto are replaced by 3.23.6.4 – 3.23.6.7 accordingly.

## **PART IX. MATERIALS AND WELDING**

### **3 WELDING AND NON-DESTRUCTIVE TESTING**

**Para 3.4.1.1** is replaced by the following text:

**"3.4.1.1** Tensile strength (cross-weld tensile strength) in testing of welded joints shall not be less than required for the base metal. For materials with weld metal strength of under-matched welds (where the weld metal has a lower tensile strength than the base metal), reference shall be made to 18.2.4, Part IV "Cargo Containment". In every case, during static tensile tests the position of fracture shall be recorded for base metal or for weld metal."

Russian Maritime Register of Shipping

**Rule Change Notice  
to the Rules for the Classification and Construction  
of Ships Carrying Liquefied Gases in Bulk**

Endorsed: 23-245105

FAI "Russian Maritime Register of Shipping"  
8, Dvortsovaya Naberezhnaya,  
191186, St. Petersburg, Russian Federation  
[www.rs-class.org/en/](http://www.rs-class.org/en/)