



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 313-14-1424c

dated 04.08.2020

Re:

amendments to the Rules for the Classification and Construction of Ships Carrying Liquefied Gases in Bulk, 2020, ND No. 2-020101-131-E

Item(s) of supervision:
ships under construction

Entry-into-force date:

01.09.2020

~~Valid till:~~

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

~~dated~~

Number of pages: 1 + 5

Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Part II "Ship Arrangement", V "Fire Protection" and X "Special Requirements"

Director General

Konstantin G. Palnikov

Text of CL:

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.

It is necessary to do the following:

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 and approval of the technical documentation on ships contracted for construction or conversion on or after 01.09.2020, in the absence of a contract, the keels of which are laid or which are at a similar stage of construction on or after 01.09.2020.

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

Part II: para 1.2;

Part V: paras 2.1.1 and 2.3 and Section 4;

Part X: paras 2.1 – 2.5

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**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 II, para 1.2	Requirements for placement of turret compartments have been specified	313-14-1424c of 04.08.2020	01.09.2020
2	Part II, para 1.20	Requirements for gastight doors have been specified	313-14-1424c of 04.08.2020	01.09.2020
3	Part V, para 2.1.1	Requirements for wheelhouse windows have been specified	313-14-1424c of 04.08.2020	01.09.2020
4	Part V, para 2.3	Requirements for structural fire protection of hold spaces and turret compartments have been specified	313-14-1424c of 04.08.2020	01.09.2020
5	Part V, para 4.1	Requirements for number of sets of firefighter's outfit have been specified	313-14-1424c of 04.08.2020	01.09.2020
6	Part V, para 4.2	Requirements for breathing apparatus have been specified	313-14-1424c of 04.08.2020	01.09.2020
7	Part V, para 4.3	Requirements for protective equipment have been specified	313-14-1424c of 04.08.2020	01.09.2020
8	Part V, para 4.4	Requirements for storage places of the protective equipment have been specified	313-14-1424c of 04.08.2020	01.09.2020
9	Part V, paras 4.5 – 4.8	Requirements for supply and safety equipment protecting the personnel in gas-filled spaces have been specified	313-14-1424c of 04.08.2020	01.09.2020
10	Part V, para 4.9	New para with the requirements for supply and safety equipment protecting the personnel in gas-filled spaces has been introduced	313-14-1424c of 04.08.2020	01.09.2020
11	Part V, para 4.10	New para with the requirements for provision of a ship with the first-aid equipment has been introduced	313-14-1424c of 04.08.2020	01.09.2020

Nos.	Amended paras/chapters/sections	Information on amendments	Number and date of the Circular Letter	Entry-into-force date
12	Part X, para 2.1	Requirements for means of individual respiratory and eye protection have been specified	313-14-1424c of 04.08.2020	01.09.2020
13	Part X, para 2.2	Requirements for decontamination showers and eyewash stations have been specified	313-14-1424c of 04.08.2020	01.09.2020
14	Part X, para 2.3	Para has been deleted; the requirements thereof have been transferred to 4.5, Part V "Fire Protection"	313-14-1424c of 04.08.2020	01.09.2020
15	Part X, paras 2.4 and 2.5	Paras have been deleted to bring provisions of Section 2, Part X "Special Requirements", in compliance with the provisions of the IGC Code	313-14-1424c of 04.08.2020	01.09.2020

RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF SHIPS CARRYING LIQUEFIED GASES IN BULK, 2020

ND No. 2-020101-131-E

PART II. SHIP ARRANGEMENT

1 GENERAL

1 **Para 1.2** is replaced by the following text:

"**1.2** Hold spaces and turret compartments are to be separated from ship's spaces in accordance with the requirements of 2.3, Part V "Fire Protection"."

2 **Para 1.20** is replaced by the following text:

"**1.20** To ensure access from a gas-dangerous space to a gas-safe space, provision shall be made for an air lock formed by two self-closing gastight steel doors spaced at least 1,5 m but not more than 2,5 m apart. Air lock door coamings shall be at least 300 mm high.

The requirements for alarm, electrical equipment, ventilation and cargo vapour presence monitoring are specified in 8.3.3, Part VI "Systems and Piping", in Part VII "Electrical Equipment" and in Section 6, Part VIII "Instrumentation and Automation Systems".

For the purpose of application of these Rules, watertight door may be considered as gastight."

PART V. FIRE PROTECTION

2 STRUCTURAL FIRE PROTECTION

3 **Para 2.1.1** is replaced by the following text:

"**2.1.1** Windows and sidescuttles facing the cargo area and on the sides of the superstructures and deckhouses within the distance of at least 4 % of the length of the ship but not less than 3 m from the end of the superstructure or deckhouse facing the cargo area (this distance, however, need not exceed 5 m) shall be of fixed (non-opening) type. Such windows and sidescuttles, except wheelhouse windows, shall be constructed to "A-60" class.

Wheelhouse windows may be non-fixed if they are designed in a manner that a rapid and efficient gas and vapour tightening of the wheelhouse can be ensured.

Sidescuttles in the shell below the uppermost continuous deck and in the first tier of the superstructure or deckhouse shall be of fixed (non-opening) type."

4 **Para 2.3** is replaced by the following text:

"**2.3** Hold spaces shall be located forward of machinery spaces of category A. They shall be separated from adjacent machinery spaces of category A, accommodation and service spaces, control stations, chain lockers, storerooms, drinking water and domestic water tanks by cofferdams or fuel tanks.

A gastight "A-0" class division is acceptable if there is no source of ignition or fire hazard in the adjoining spaces.

In ships with cargo tanks without secondary barrier, gastight "A-60" class bulkheads may be used instead of cofferdams and fuel tanks.

Alternative arrangements, including locating machinery spaces of category A forward, may be accepted, based on 1.7, Part VI "Fire Protection" of the Rules for the Classification, after further consideration of involved risks, including that of cargo release and the means of mitigation.

Turret compartments segregation from machinery spaces of category A, accommodation and service spaces, control stations, chain lockers, storerooms, drinking water and domestic water tanks or spaces either below or outboard of the turret compartment that contain a source of ignition or fire hazard, shall be effected by cofferdams or an A-60 class division. A gastight "A-0" class division is acceptable if there is no source of ignition or fire hazard in the adjoining spaces.

In addition, the risk of fire propagation from turret compartments to adjacent spaces shall be evaluated by a risk analysis in accordance with 1.1.11 of the Code and further preventive measures, such as the arrangement of a cofferdam around the turret compartment, shall be provided if needed."

5 **Section 4** is replaced by the following text:

"4 PERSONNEL PROTECTION

4.1 Every ship carrying flammable products shall carry firefighter's outfits complying with the requirements of 5.1.15, Part VI "Fire Protection" of the Rules for the Classification in the numbers specified in Table 4.1.

Table 4.1

Total cargo capacity	Number of outfits
5000 m ³ and below	4
Above 5000 m ³	5

4.2 Any breathing apparatus required as part of a firefighter's outfit shall be a self-contained compressed air-operated breathing apparatus having a capacity of at least 1200 l of free air.

4.3 Suitable protective equipment, including eye protection to a recognized national or international standard, shall be provided to protect crew members involved in normal loading and discharging operations, with due regard for the characteristics of the products being carried."

4.4 The personal protective equipment shall be kept in clearly marked lockers located in readily accessible places.

4.5 Sufficient, but not less than three complete sets of safety equipment in addition to the fireman's outfit required by 4.1 each permitting personnel to enter and work in gas-filled spaces, shall be provided.

4.6 One complete set of safety equipment required by 4.5 shall consist of:

.1 one self-contained positive pressure air-breathing apparatus incorporating full face mask, not using stored oxygen and having a capacity of at least 1,200 l of free air. Each set shall be compatible with that required by 4.1;

.2 protective clothing, boots and gloves to a recognized standard;

.3 steel-cored rescue line with belt; and

.4 explosion-proof lamp.

4.7 An adequate supply of compressed air for the air-breathing apparatus required in 4.2 and 4.6 shall be provided and shall consist of:

.1 at least one fully charged spare air bottle for each breathing apparatus;

.2 an air compressor of adequate capacity capable of continuous operation, suitable for the supply of high-pressure air of breathable quality; and

.3 a charging manifold capable of dealing with sufficient spare breathing apparatus air bottles for the breathing apparatus.

4.8 Safety equipment required in 4.5, 4.6 and 4.7 shall be kept in special clearly marked lockers located in readily accessible places.

4.9 The protective clothing required in 4.6.2 shall be gastight.

4.10 First-aid equipment.

4.10.1 A stretcher that is suitable for hoisting an injured person from spaces below deck shall be kept in a readily accessible location.

4.10.2 The ship shall have onboard medical first-aid equipment, including oxygen resuscitation equipment, based on the requirements of the Medical First Aid Guide (MFAAG) on rendering first-aid in accidents associated with dangerous cargoes as well as considering the characteristics of the cargoes being carried."

PART X. SPECIAL REQUIREMENTS

2 PERSONNEL PROTECTION

6 **Paras 2.1 and 2.2** are replaced by the following text:

"**2.1** Suitable respiratory and eye protection for emergency escape purposes shall be provided for every person on board, subject to the following:

.1 filter-type respiratory protection is unacceptable;

.2 self-contained breathing apparatus shall have at least a duration of service of 15 min; and

.3 emergency escape respiratory protection shall not be used for firefighting or cargo-handling purposes and shall be marked to that effect.

2.2 One or more suitably marked decontamination showers and eyewash stations shall be available on deck, taking into account the size and layout of the ship. The showers and eyewashes shall be operable in all ambient conditions."

7 **Paras 2.3 – 2.5** are deleted.