



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 312-09-1873c

dated 01.12.2022

Re:

amendments to the Rules for the Classification and Construction of Sea-Going Ships, 2022, ND No. 2-020101-152-E

Item(s) of supervision:

ships under construction and technical documentation

Entry-into-force date:

01.01.2023

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

~~dated~~

Number of pages: 1 + 4

Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Part I "Classification" and Part XVII "Distinguishing Marks and Descriptive Notations in the Class Notation Specifying Structural and Operational Particulars of Ships"

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 01.01.2023, in the absence of a contract, during review and approval of the technical documentation on ships requested for review on or after 01.01.2023.
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List of the amended and/or introduced paras/chapters/sections:

Part I: para 2.2.54, Table 2.5

Part XVII: Section 26

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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 I, Para 2.2.54	New item 2.2.54 has been introduced containing requirements for assignment of distinguishing mark ETW (Effective Tank Washing)	312-09-1873c of 01.12.2022	01.01.2023
2	Part I, Table 2.5	New item 2.30 has been introduced containing description of distinguishing mark ETW (Effective Tank Washing)	312-09-1873c of 01.12.2022	01.01.2023
3	Part XVII, Section 26	New Section has been introduced containing requirements for tankers and combination carriers equipped with an effective cargo tank washing system	312-09-1873c of 01.12.2022	01.01.2023

RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF SEA-GOING SHIPS, 2022

ND No. 2-020101-152-E

PART I. CLASSIFICATION

2 CLASS OF A SHIP

1 **New item 2.2.54** is introduced reading as follows:

“2.2.54 Distinguishing mark for tankers and combination carriers equipped with an effective cargo tank washing system

The mark **ETW** (Effective Tank Washing) may be added to the character of classification of tankers with descriptive notation **Chemical tanker** and/or **Oil tanker** and combination carriers (**Oil/bulk/ore carrier** or **Oil/bulk carrier** or **Oil/ore carrier**) equipped with an effective cargo tank washing system in accordance with Section 26 of the Part XVII "Distinguishing Marks and Descriptive Notations in the Class Notation Specifying Structural and Operational Particulars of Ships".

2 **Table 2.5. New item 2.30** is introduced reading as follows:

"

2.30 Distinguishing mark for tankers equipped with an effective cargo tank washing system		
ETW (Effective Tank Washing)	The mark is assigned to tankers with descriptive notation Chemical tanker and/or Oil tanker and combination carriers (Oil/bulk/ore carrier or Oil/bulk carrier or Oil/ore carrier) equipped with an effective cargo tank washing system	Rules for the Classification and Construction of Sea-Going Ships Part VIII "Systems and Piping", 9.12 Part XVII "Distinguishing Marks and Descriptive Notations in the Class Notation Specifying Structural and Operational Particulars of Ships", Section 26

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PART XVII. DISTINGUISHING MARKS AND DESCRIPTIVE NOTATIONS IN THE CLASS NOTATION SPECIFYING STRUCTURAL AND OPERATIONAL PARTICULARS OF SHIPS

2 **New section 26** is introduced reading as follows:

"26 REQUIREMENTS FOR TANKERS EQUIPPED WITH AN EFFECTIVE CARGO TANK WASHING SYSTEM

26.1 General provisions and application.

26.1.1 The tankers with descriptive notation **Chemical tanker** and/or **Oil tanker**, and combination carriers (**Oil/bulk/ore carrier** or **Oil/bulk carrier** or **Oil/ore carrier**) equipped with an effective cargo tank washing system that meets the requirements set out in 9.12 of Part VIII "Systems and Piping" and the requirements of this Section, may be assigned the distinguishing mark **ETW** (Effective Tank Washing).

26.2 Definitions and explanations.

Shadow area means the surface of a cargo tank which cannot be effectively treated by permanently installed washing machines of the cargo tank washing system.

26.3 Technical requirements.

26.3.1 An effective cargo tank washing system shall meet the following requirements:

.1 cargo tank washing heater shall continuously provide a minimum system temperature of 85 °C with the system capacity sufficient for washing the largest cargo tank. The heater capacity shall be based on a seawater temperature of 0 °C;

.2 permanently installed washing machines shall give the minimum coverage of 96 % of the surface of each cargo tank. The shadow area shall be no more than 4 % of the surface of the cargo tank. When calculating the shadow areas, 70 % of the permanently installed washing machine jet length at normal operating pressure shall be taken into account. Shadow areas shall include any areas not directly exposed to the jets from the washing machines or exposed at an angle of less than 10°. Cargo and stripping pipelines and pumps located in the cargo tank as well as any pipes passing through the tanks shall be taken into account when determining shadow areas. Heating coils, ladders, ladder platforms of grating type, handrails shall not be taken into account when calculating the shadow areas;

.3 portable washing machines enabling washing of cargo tanks in shadow areas and necessary openings, equipment and instructions for washing any parts of shadow areas using portable washing machines shall be provided. The use of portable washing machines for tanks cleaning shall be carried out without need for cargo tank entry;

.4 cargo tank washing system shall have detailed operating instructions for personnel.

26.3.2 The design of cargo tanks shall meet the following requirements:

.1 cargo tanks shall be designed with smooth inner surfaces and shall be equipped with bilge wells for effective stripping;

.2 horizontal surfaces (other than the tank upper deck), stiffeners and brackets where cargo residue may accumulate are not acceptable or such structures shall be arranged for self-drainage under normal conditions of trim and heel (including aft trim). Any shadow area created by such structures shall be included in the shadow area calculations and shall be taken into account when developing procedures for washing using portable machines without tank entry;

.3 bulkheads may be corrugated but the horizontal corrugations shall not have an angle in excess of 65° related to the vertical plane.

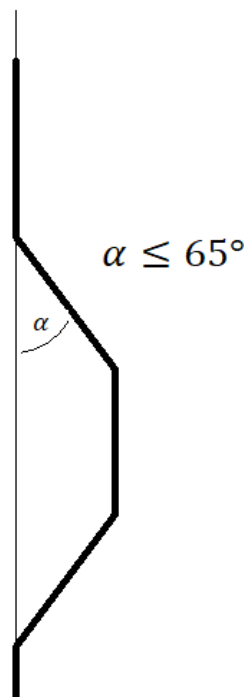


Fig. 26.3.2.3

26.4 Technical documentation.

The following technical documentation (A — stamped as "Approved", AG — stamped as "Agreed", FI — stamped as "For information") shall be submitted to the Register for review as part of the technical design or plan approval documentation:

- .1 cargo tanks arrangement and capacity diagram with indication of distance from the side and bottom shell to the tanks, including information on the materials used and coverings (A);
- .2 effective cargo tank washing system diagram with indication of technical and operational characteristics of the system equipment (A);
- .3 shadow diagrams of the washing system for each cargo tank (may be included in the system diagram) (A);
- .4 cargo system diagram (A);
- .5 manual on operation of effective cargo tank washing system for the crew (AG);
- .6 technical characteristics of permanently installed and portable washing machines (FI).".