

RULES

FOR PLANNING AND EXECUTION OF MARINE OPERATIONS

ND No. 2-090601-010-E

RULE CHANGE NOTICE

ENTERS INTO FORCE:

01.07.2024



St. Petersburg
2024

RULES FOR PLANNING AND EXECUTION OF MARINE OPERATIONS

The present Rule Change Notice to the Rules for Planning and Execution of Marine Operations (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

Item	Applicability	Description	Remarks
Part III, Formula 4.3.2.2	Requirements for towing of the object Calculation of resistance in calm water	Formula and explication thereto for calculation of resistance in calm water R_{cw} have been amended	
Part III, Formula 4.3.6-1	Requirements for towing of the object Calculation of towline resistance	Formula for calculation of towline resistance R_t has been amended	
Part III, Formula 4.3.7-1	Requirements for towing of the object Calculation of inoperable propellers resistance	Formula for calculation of fixed propeller resistance R_{pf} has been amended	

PART III. SPECIAL REQUIREMENTS

4 TRANSPORTATION/TOWING OF THE OBJECT

Formula 4.3.2.2 and explication thereto are amended as follows:

$$\begin{aligned} R_{ew} &= F \cdot Fr^2 \cdot \nabla \cdot 10^{-2} \\ R_{cw} &= F \cdot Fr^2 \cdot g \cdot \rho \cdot \nabla \cdot 10^{-3} \end{aligned} \quad (4.3.2.2)$$

where ~~F = coefficient determined on the basis of the data for the prototype;~~

for Fr , refer to Formula (4.3.2.1-3);

∇ = volume displacement of the object, in m^3 ;

g = acceleration due to gravity, in m/s^2 ;

ρ = sea water density, in kg/m^3 ;

F = coefficient determined on the basis of the data for the prototype.

Formula (4.3.6-1) is amended as follows:

$$R_t = \Delta C \cdot K_t \cdot c \cdot l_t \cdot D_t \frac{\rho}{2} \cdot V^2 \cdot 10^{-23} \quad (4.3.6-1)''.$$

Formula (4.3.7-1) is amended as follows:

$$R_{pf} = 5\rho \cdot \frac{A_E}{A_O} \cdot V^2 \cdot D^2 \cdot 10^{-23} \quad (4.3.7-1)''.$$

Russian Maritime Register of Shipping

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