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
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

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| 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 inoperative 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:

\[
\begin{align*}
R_{cm} &= F \cdot F_{r}^{2} \cdot \nabla \cdot 10^{-2} \\
R_{cm} &= F \cdot F_{r}^{2} \cdot g \cdot \rho \cdot \nabla \cdot 10^{-3} \quad (4.3.2.2)
\end{align*}
\]

where \( F \) = coefficient determined on the basis of the data for the prototype;
for \( F_{r} \), refer to Formula (4.3.2.1-3);
\( \nabla \) = volume displacement of the object, in \( m^{3} \);
\( g \) = acceleration due to gravity, in \( m/s^{2} \);
\( \rho \) = 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:

\[
R_{t} = \Delta C \cdot K_{t} \cdot c \cdot l_{t} \cdot D_{t} \cdot \frac{\rho}{2} \cdot V^{2} \cdot 10^{-23} \quad (4.3.6-1)"
\]

Formula (4.3.7-1) is amended as follows:

\[
R_{pf} = 5 \rho \cdot \frac{A_{E}}{A_{o}} \cdot V^{2} \cdot D^{2} \cdot 10^{-23} \quad (4.3.7-1)"
\]
Rule Change Notice to the Rules for Planning and Execution of Marine Operations

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