



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 314-51-1510c

dated 25.02.2021

Re:

amendments to the Rules for the Classification, Construction and Equipment of Mobile Offshore Drilling Units and Fixed Offshore Platforms considering experience in application of the Rules, 2018, ND No. 2-020201-015-E, considering experience in application of the Rules

Item(s) of supervision:

MODU/FOP under construction

Entry-into-force date:

15.04.2021

Valid till:

~~Validity period extended till:~~

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

~~dated~~

Number of pages:

1 + 3

Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Part III "Equipment, Arrangements and Outfit of MODU/FOP"

Director General

Konstantin G. Palnikov

Text of CL:

We hereby inform that the Rules for the Classification, Construction and Equipment of Mobile Offshore Drilling Units and Fixed Offshore Platforms 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 15.04.2021, in the absence of a contract, the keels of which are laid or which are at a similar stage of construction on or after 15.04.2021, as well as during review and approval of the technical documentation on ships, the delivery of which is on or after 15.04.2021.

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

Part III: paras 4.3.4, 4.3.15

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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 III: para 4.3.4 | Requirements for the design of anchoring systems for MODU/FOP have been specified | 314-51-1510c of 25.02.2021 | 15.04.2021 |
| 2 | Part III: para 4.3.15 | Requirements for fatigue life of anchor line components have been specified | 314-51-1510c of 25.02.2021 | 15.04.2021 |

**RULES FOR THE CLASSIFICATION, CONSTRUCTION
AND EQUIPMENT OF MOBILE OFFSHORE DRILLING UNITS
AND FIXED OFFSHORE PLATFORMS, 2018**

ND No. 2-020201-015-E

PART III. EQUIPMENT, ARRANGEMENTS AND OUTFIT OF MODU/FOP

4 POSITION-KEEPING SYSTEMS AND COMPONENTS THEREOF

1 **Para 4.3.4** is replaced by the following text:

"**4.3.4** When designing anchoring systems for MODU/FOP, different levels of environmental effects shall be taken into account:

operational environmental conditions — conditions characterized by frequent recurrence during service period and restricting only performance of some complicated technological operations and works;

extreme environmental conditions — conditions with low probability of exceedance during service period, which are maximum permissible for the anchoring system.

4.3.4.1 Characteristics of environmental conditions shall be assumed in compliance with the requirements of 2.2, Part II "Hull" and APPENDIX 5 of Part IV "Stability".

4.3.4.2 Depending on the time spent by MODU/FOP in the area of operation, it is recommended to assume the following recurrence periods for extreme environmental conditions:

more than 1 year: environmental conditions with a recurrence period of 100 years;

less than 1 year: environmental conditions with a recurrence period of 10 years.

4.3.4.3 Calculation of the effects imposed by the extreme environmental loads shall be carried out for at least 8 directions (north, north-east, east, etc.) taking into account the orientation of MODU/FOP in the area of operation. In this regard, account shall be taken, when the direction of the current coincides with the direction of the waves and is opposite to it. The recommended duration of simulation for each design case is 9 h.

4.3.4.4 Taking into account the combined action of several parameters of extreme environmental conditions, the combinations of parameters of external effects given in Table 4.3.4.4 shall be taken as a basis.

Table 4.3.4.4

| | Recurrence period for extreme environmental effects | | |
|---|---|-----------|----------|
| Time spent by MODU/FOP in the area of operation | Waves | Wind | Current |
| More than 1 year | 100 years | 100 years | 50 years |
| Less than 1 year | 10 years | 10 years | 5 years |

2 **Para 4.3.15** is replaced by the following text:

"**4.3.15** If the estimated time to be spent by MODU/FOP in the area of operation exceeds 1 year, it is necessary to carry out fatigue assessment of the anchor line components. For fatigue assessment, it is necessary to consider the long-term effects of external loads, wind, waves and currents, acting together.

The spectral method may be used for fatigue assessment. The fatigue life of anchor line components determined by calculations shall be 3 times longer than the fatigue life of the anchoring system. When there are no reliable data on S-N curves, and when access for inspections and repair cannot be provided, the fatigue life of anchor line components shall be 10 times longer."