



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 315-06-1285c

dated 08.11.2019

Re:

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

Item(s) of supervision:

automation equipment

Entry-into-force date:

08.12.2019

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Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Part X "Electrical Equipment"

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 due to receipt of new normative proposals.

It is necessary to do the following:

1. Familiarize the RS surveyors and interested organizations in the area of the RS Branch Offices' activity with the content of the Circular Letter.
 2. Apply the provisions of the Circular Letter in the RS practical activities.
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List of the amended and/or introduced paras/chapters/sections:

Part X: paras 7.10.1.5 and 16.8.1.1, Tables 16.8.2.1 and 16.8.2.2, and paras 18.4.1.6 and 18.5.1.2.

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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	Para 7.10.1.5	Reference to Chapter 3.1 of Part XVI "Signal Means" has been introduced	315-06-1285c of 08.11.2019	08.12.2019
2	Para 16.8.1.1	Reference to IEC 61892-4 has been introduced	315-06-1285c of 08.11.2019	08.12.2019
3	Table 16.8.2.1	Amendments have been made considering IEC 61892-4	315-06-1285c of 08.11.2019	08.12.2019
4	Table 16.8.2.2	Amendments have been made considering IEC 61892-4	315-06-1285c of 08.11.2019	08.12.2019
5	Para 18.4.1.6	The new para 18.4.1.6 regarding possible use of aluminium as material for windings of power transformers designed for a voltage in excess of 1 kV has been introduced	315-06-1285c of 08.11.2019	08.12.2019
6	Para 18.5.1	Requirements have been specified relating to applicable standards for MODU and FOP cables	315-06-1285c of 08.11.2019	08.12.2019
7	Para 18.5.1.2	The new para containing requirements to MODU and FOP power cables for submarine use has been introduced	315-06-1285c of 08.11.2019	08.12.2019

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

ND No. 2-020201-015-E

PART X. ELECTRICAL EQUIPMENT

7 INTERNAL COMMUNICATION AND ALARMS

**7.10 LIGHTING AND ILLUMINATION SIGNAL MEANS
FOR HELIDECKS**

1 **Para 7.10.1.5** is replaced by the following text:

"**7.10.1.5** In respect to lighting characteristics, selection of light types and design, the requirements of 3.1, Part XVI "Signal Means" shall be met."

16 CABLES AND WIRES

16.8 CABLING

2 **Para 16.8.1.1** is replaced by the following text:

"**16.8.1.1** Use shall be made of flame-retarding or non-combustible cables and conductors with copper cores manufactured in accordance with the requirements of this Part of the MODU/FOP Rules, national standards, as well as IEC 60092 and IEC 61892-4. At that IEC 60331 series may be used."

3 **Table 16.8.2.1** is replaced by the following:

"Table 16.8.2.1

Nominal cross sectional area of conductor, mm ²	Insulating material					
	Polyvinylchloride	Heat-resistant polyvinylchloride	Butyl rubber	Ethylene-propylene rubber, cross-linked polyethylene	Ethylene-propylene rubber, cross-linked polyethylene and polyolefine	Silicon rubber or mineral insulation
	Maximum working permissible temperature of conductor, °C					
	60	75	80	85	90	95
1	8	13	15	16	18	20
1,5	12	17	19	20	23	26
2,5	17	24	26	28	30	32
4	22	32	35	38	40	43
6	29	41	45	48	52	55
10	40	57	63	67	72	76
16	54	76	84	90	96	102
25	71	100	110	120	127	135

Nominal cross sectional area of conductor, mm ²	Insulating material					
	Polyvinylchloride	Heat-resistant polyvinylchloride	Butyl rubber	Ethylene-propylene rubber, cross-linked polyethylene	Ethylene-propylene rubber, cross-linked polyethylene and polyolefine	Silicon rubber or mineral insulation
	Maximum working permissible temperature of conductor, °C					
	60	75	80	85	90	95
35	87	125	140	145	157	166
50	105	150	165	180	196	208
70	135	190	215	225	242	256
95	165	230	260	275	293	310
120	190	270	300	320	339	359
150	220	310	340	365	389	412
185	250	350	390	415	444	470
240	290	415	460	490	552	553
300	335	475	530	560	601	636

4 **Table 16.8.2.2** is replaced by the following:

"Table 16.8.2.2

Maximum permissible temperature of conductor, °C	Factor α for nominal cross-sectional area S , mm ²	
	$\geq 2,5$	$< 2,5$
60	9,5	8
65	11	10
70	12	11,5
75	13,5	13
80	15	15
85	16	16
90	17	18
95	18	20

18 REQUIREMENTS FOR ELECTRICAL EQUIPMENT DESIGNED FOR A VOLTAGE IN EXCESS OF 1 KV UP TO 15 KV

18.4 POWER TRANSFORMERS

5 The following **new para 18.4.1.6** is introduced:

"**18.4.1.6** Use of aluminium as material for the transformer windings is permitted, provided the following conditions are met:

.1 provision is made for protection of the windings and their outlets from the corrosion in the conditions of the open sea;

.2 provision is made for protection from galvanic corrosion at the joints of the windings with current carrying parts made from other materials;

.3 joints indicated in 18.4.1.6.2 are accessible for inspection and protected from loosening."

18.5 CABLES

6 **Para 18.5.1** is replaced by the following:

"18.5.1 General.

Cables shall be constructed in accordance with the requirements of IEC 60092-353 and IEC 60092-354 or other international or national standards, provided they are of an equivalent or higher safety level than those stated above."

7 The following **new para 18.5.1.2** is introduced:

"18.5.1.2 The MODU/FOP power cables for submarine use shall be subjected to the sea water resistance test taking into consideration a value of hydrostatic pressure corresponding to the maximum depth of the cable operation."