RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER	**No. 392-06-1186c**	dated 25.01.2019

Re:

amendments to the Rules for the Oil-and-Gas Equipment of Floating Offshore Oil-and-Gas Production Units, Mobile Offshore Drilling Units and Fixed Offshore Platforms, 2017, ND No. 2-090601-005-E

Item(s) of supervision:

oil-and-gas equipment

Implementation:	Valid till:	Validity period extended till:
from the date of publication	**republication of ND**	

Cancels / amends / adds Circular Letter No. dated

Number of pages: 1 + 5

Appendix(-ces):

amendments to Parts I “General Regulations for Technical Supervision”, III “Systems for Production, Treatment, Gathering and Transportation of Well Fluids”, V “Systems and Piping” and VI “Cargo-Handling Gear”

Director General
K.G. Palnikov

Text of CL:

We hereby inform that in connection with the necessity to consider the RS experience in technical supervision of oil-and-gas equipment, the amendments shall be made to the Rules for the Oil-and-Gas Equipment of Floating Offshore Oil-and-Gas Production Units, Mobile Offshore Drilling Units and Fixed Offshore Platforms.

It is necessary to do the following:

1. Familiarize the surveyors of the RS Branch Offices with the content of the Circular Letter.

2. Apply provisions of the Circular Letter.

3. Clarify the provisions of the Circular Letter to all interested parties in the area of the RS Branch Offices' activity.

List of amended and introduced paras/chapters/sections (to specify in the List of Circular Letters (form 8.3.36)):

Part I: paras 6.3.1 and 6.3.2, Table 7.1, Section 8;

Part III: paras 2.6.4 – 2.6.7;

Part V: Chapter 3.4;

Part VI: Section 3.

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Appendix to Circular Letter

No. 392-06 -1186c dated 25.01.2019

RULES FOR THE OIL-AND-GAS EQUIPMENT OF FLOATING OFFSHORE OIL-AND-GAS PRODUCTION UNITS, MOBILE OFFSHORE DRILLING UNITS AND FIXED OFFSHORE PLATFORMS, 2017, ND No. 2-090601-005-E

PART I. GENERAL REGULATIONS FOR TECHNICAL SUPERVISION

6 CLASSIFICATION AND DESCRIPTIVE NOTATION IN FPU/MODU/FOP CLASS NOTATION

Paras 6.3.1 and **6.3.2** shall be amended to read:

"**6.3.1** During manufacture, mounting and operation of oil-and-gas equipment under the Register technical supervision:

drilling (RS) – with a drilling rig fitted;

subsea system (RS) – with delivery of production from underwater production systems;

subsea pipeline (RS) – with delivery (offloading) of production via a subsea pipeline;

oil production/treatment (RS) – with an oil production and/or treatment system fitted;

gas production/treatment (RS) – with a gas production and/or treatment system fitted;

oil and gas production/treatment (RS) – with an oil and gas joint production and/or treatment system fitted.

6.3.2 During manufacture and mounting of oil-and-gas equipment without the Register technical supervision and operation of the equipment under the Register technical supervision:

drilling – with a drilling rig fitted;

subsea system – with delivery of production from underwater production systems;

subsea pipeline – with delivery (offloading) of production via a subsea pipeline;

oil production/treatment (RS) – with an oil production and/or treatment system fitted;

gas production/treatment (RS) – with a gas production and/or treatment system fitted;

oil and gas production/treatment (RS) – with an oil and gas joint production and/or treatment system fitted.".

7 NOMENCLATURE OF ITEMS OF THE REGISTER TECHNICAL SUPERVISION OF THE FPU/MODU/FOP OIL-AND-GAS EQUIPMENT

Table 7.1. After code 25022600, **codes 25022700** and **25022701** shall be introduced reading as follows:

25022700	**Electrical insulating devices :**							
25022701	insulating joints	P	CTO	C, C3[1]	–	P	P	P

8 TECHNICAL SUPERVISION DURING MANUFACTURE OF MATERIALS AND PRODUCTS AT THE MANUFACTURER

The Section shall be supplemented with **Chapter 8.5** reading as follows:

"**8.5 AUDITS OF FIRMS**

8.5.1 The requirements of this Chapter apply to the firms performing the activity, which kinds are specified in Table 8.5.1, provided RS performs technical supervision of the drilling and process equipment in compliance with 1.1.3, Part I "Classification" of the MODU/FOP Rules.

Table 8.1.5

Code	Kinds of activity
25501000	Diagnostics of devices, installations, machinery, steel structures of drilling and process equipment
25502000	Conversion, modernization and repair of items of technical supervision (drilling and process equipment)
25503000	Installation and commissioning of drilling and process equipment
25504000	Maintenance of drilling and process equipment
25505000	Application of internal anticorrosive coatings of aggressive media tanks

8.5.2 Where technical supervision is conducted in the firms engaged in the activity with codes 25501000, 25502000, 25503000, 25504000, 25505000, these firms shall be audited by RS for compliance with the requirements of Section 11 of the Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships and special requirements.

8.5.3 Compliance of the firm with the requirements of this Chapter is confirmed by the Certificate of Firm Conformity (ССП), which is issued in accordance with 3.4 – 3.7, Part I "General Regulations for Technical Supervision", Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships. In case the Certificate of Firm Conformity (ССП) is available, the audits are conducted in accordance with the conditions of its issuance.

8.5.4 The firm shall demonstrate that its activity is performed in the area indicated in the request.

8.5.5 Special requirements.

8.5.5.1 Special requirements for the firms that perform activity "Application of internal anticorrosive coatings of aggressive media tanks" (code 2550500).

8.5.5.1.1 Personnel.

The technical personnel directly involved in application of coating/lining shall have sufficient documented experience to perform application works, as well as qualification documents confirming possible application of coating/lining.

8.5.5.1.2 Technique.

The firm shall have the technique necessary for performance of the activities related to application of coating/lining, including equipment and instruments to perform the following production operations:

surface preparation and cleaning;

preparation and control of the coating/lining compositions;
application of coating/lining.

8.5.5.1.3 Measurement assurance.
The firm shall have and apply the necessary measurement assurance, including:
ambient temperature and humidity, dew point meters;
wet film coating thickness gauges;
dry film coating thickness gauges;
coating hardness gauges;
coating integrity control device.

8.5.5.1.4 Files of the firm documents.
The firm shall have the valid normative and technical documents necessary to perform activities related to application of coating/lining with the materials agreed with RS, including type production processes (procedures and/or standards) for application of coating/lining, specifications for materials, quality control plan for application of coating/lining and instructions for elimination of coating/lining imperfections.

8.5.5.1.5 Checking and control.
The firm shall perform incoming inspection and functional control, provide work acceptance conditions according to the requirements of the type production processes approved by RS and confirmed by the following documents:
brief process manuals for specific stages of the surface preparation and application of coating/lining approved by RS;
certificates of a competent organization for the applied materials confirming performance of type tests according to ISO 18796-1 or other valid national or international standards;
inspection report on compliance of the works performed with the operating procedure on the surface preparation and coating application;
test results.".

PART III. SYSTEMS FOR PRODUCTION, TREATMENT, GATHERING AND TRANSPORTATION OF WELL FLUIDS

2.6 PRESSURE RELEASE AND GAS WITHDRAWAL SYSTEM

Paras 2.6.4 – 2.6.7 shall be replaced with paras 2.6.4 – 2.6.16 reading as follows:

"**2.6.4** On the exposed decks and areas, the pressure release and gas withdrawal pipelines shall be thermally insulated and/or provided with heating systems to prevent condensation and crystallization of substances.

2.6.5 The requirements for flare system specified in 2.5.4, 2.5.14, 2.5.15, 2.5.18, 2.5.19, 2.5.27, 2.5.28 and 2.5.34 shall be considered during design of the pressure release system.

2.6.6 The pressure release system shall be equipped with a cold vent stack with a stack tip.

2.6.7 The stack tip shall be equipped with the cold vent stack and, as a rule, flange-mounted to the vent stack pipe.

2.6.8 The stack tip of the cold vent stack shall provide safe dissipation in the atmosphere of continuous, periodical and emergency discharges of flammable gases and vapours.

2.6.9 Design of the cold vent stack tip shall prevent formation of explosive gas concentrations in the area where the process equipment is located.

2.6.10 During calculation of the cold vent stack tip, the possible scenarios of the maximum and minimum medium discharge shall be taken into consideration.

2.6.11 Design of the cold vent stack tip shall eliminate gas dispersion below the plane of its location and precipitation therein.

2.6.12 The materials used for the manufacture of the stack tip shall prevent formation of sparks upon contact of movable parts.

2.6.13 The hydraulic tests of the cold vent stack tip shall be performed at the factory.

2.6.14 The gas withdrawal system shall provide releases of flammable gases and/or vapours to the atmosphere from all the tanks where atmospheric pressure shall be maintained. The gas withdrawal system shall provide release of flammable gases and/or vapours to the atmosphere outside the spaces and platform structures. Design of the gas withdrawal system shall prevent formation of explosive mixtures (proceeding from the explosion- and fire-proof conditions of their dissipation in the atmosphere) within the zone where the process equipment and platform structures are located, in the areas of possible people crowding and creation of ignition sources.

2.6.15 The end outlet section of the pipeline of the gas and/or vapour withdrawal system (upstream of gas and/or vapour) shall be equipped with the flame arresters and venting branch pipe with flame screen. A drain valve or branch pipe shall be installed in the area of possible liquid accumulation.

2.6.16 The gas withdrawal system shall be equipped with breathing (venting branch pipes with flame screen), safety and shut-off devices, as well as means of protection against flame spreading (flame arresters, liquid seals, etc.). The means of protection against flame spreading may be omitted when these lines are supplied with inert gases in quantities excluding formation of explosive mixtures therein.".

PART V. SYSTEMS AND PIPING

3.4 SYSTEMS FOR TRANSPORTATION OF WELL FLUIDS

The Chapter shall be supplemented with **para 3.4.5** reading as follows:

"**3.4.5** Electrical insulating joints forming part of the production standpipes of offshore oil-and-gas facilities shall comply with 7.5 of Part I "Subsea pipelines" of the Rules for the Classification and Construction of Subsea Pipelines.".

PART VI. CARGO-HANDLING GEAR

3 REQUIREMENTS FOR SPECIAL PURPOSE CARGO-HANDLING GEAR

The Section shall be supplemented with **Chapter 3.4** reading as follows:

“3.4 WELL LOGGING HOISTS

3.4.1 Well logging hoists shall be designed for round-trip operations with the drill-hole logging instruments and wireline logs at geophysical well logging during their drilling and operation.

3.4.2 From the workplace of the well logging operator, the wellhead sealing equipment components, guide roller and cable travel path between the hoist and the guide roller shall be clearly visible.

3.4.3 Automatic laying of the logging cable on the hoist winch drum shall be provided without thinning and overlapping of wraps.

3.4.4 The hoisting winch shall be equipped with a braking system that provides smooth braking when the cable lowering into the well and its holdback at stops, preventing unauthorized descent or cable lifting.

3.4.5 The hoisting winch drum shall be made of non-magnetic material.

3.4.6 The drum capacity shall be such that when the instrument reaches the downhole, at least half of the last row of the cable wraps shall remain on the drum.

3.4.7 The control panel shall be equipped with the depth, tension and travel speed indicators of the logging cable.

3.4.8 Intercommunication systems shall be provided for transmitting information to the personnel at the wellhead.

3.4.9 The cable travel paths between the hoist and the wellhead shall be lit.

3.4.10 The following requirements shall be imposed on the foot and guide rollers (block) devices:

.1 radius of the guide groove on the roller ring surface shall not exceed the logging cable radius by more than ± 5 %;

.2 strength of the roller fastening elements shall exceed the rated tensile load of the applied logging cable by at least 3 times for the guide roller and at least 4 times for the foot roller.

3.4.11 Requirements for the minimum scope of checks and tests, in case a larger scope is not prescribed in the documentation approved by the Register:

external examination and check of linear dimensions;

check of the cable length meter (wire);

check of the cable tension indicator (wire);

maximum wireline pull;

checking the travel speed range of the cable (wire);

check of alarm systems (if available);

checking the lockout system (safety locks for tension and depth);

checking the insulation resistance check of current-conducting circuits (electric resistance shall be at least 5 MOhm);

measurement of protective earthing (electric resistance shall not exceed 0,02 Ohms).”.