



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 392-06-1318c

dated 31.01.2020

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:

material, product, activity, ship

Entry-into-force date:

10.02.2020

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dated **25.01.2019**

Number of pages:

1 + 13

Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Parts I "General Regulations for Technical Supervision" and II "Drilling Rig Systems and Equipment"

Director General

Konstantin G. Palnikov

Text of CL:

We hereby inform that the Rules for the Oil-and-Gas Equipment of Floating Offshore Oil-and-Gas Production Units, 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 oil-and-gas equipment requested for review on or after 10.02.2020, as well as when performing technical supervision during manufacture of oil-and-gas equipment.
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List of the amended and/or introduced paras/chapters/sections:

Part I: paras 6.3.1 and 6.3.2, Section 7, and paras 8.1.5 – 8.1.7, 8.1.11, 8.2.7, 8.3.3, 8.4.3 and 8.4.6

Part II: para 2.1.1.4, new Chapter 2.3 and Chapters 2.4 – 2.14

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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 I, paras 6.3.1 and 6.3.2	Descriptive notations in FPU/MODU/FOP class notation has been specified	392-06-1318c of 31.01.2020	10.02.2020
2	Part I, Section 7	The Section has been completely revised	392-06-1318c of 31.01.2020	10.02.2020
3	Part I, para 8.1.5	The references have been specified	392-06-1318c of 31.01.2020	10.02.2020
4	Part I, paras 8.1.6 and 8.1.7	Paras have been completely revised	392-06-1318c of 31.01.2020	10.02.2020
5	Part I, para 8.1.11	The references have been specified	392-06-1318c of 31.01.2020	10.02.2020
6	Part I, Chapter 8.2	The Chapter has been supplemented with para 8.2.7 specifying requirements for approval of type materials, products and production processes	392-06-1318c of 31.01.2020	10.02.2020
7	Part I, paras 8.3.3, 8.4.3 and 8.4.6	The references have been specified	392-06-1318c of 31.01.2020	10.02.2020
8	Part II, para 2.1.1.4	Para 2.1.1.4 has been introduced specifying calculation procedures during design of drilling derricks, derrick substructures and support frames	392-06-1318c of 31.01.2020	10.02.2020
9	Part II, new Chapter 2.3	New Chapter 2.3 has been introduced specifying requirements to support frame of derrick substructure	392-06-1318c of 31.01.2020	10.02.2020
10	Part II, existing Chapters 2.3 – 2.13	Existing Chapters 2.3 – 2.13 have been renumbered 2.4 – 2.14, accordingly	392-06-1318c of 31.01.2020	10.02.2020

**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

1 **Paras 6.3.1 and 6.3.2** are replaced by the following text:

"**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 – with an oil production and/or treatment system fitted;

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

oil and gas production/treatment – 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**

2 **Section 7** is replaced by the following text:

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

7.1 The Nomenclature of Items of the Register Technical Supervision of the FPU/MODU/FOP Oil-and-Gas Equipment (refer to Table 7.1) specifies the items with the relevant codes subject to the Register technical supervision during their manufacture at the manufacturer, mounting and testing on FPU/MODU/FOP, groups of items of technical supervision.

In this case, the Nomenclature is covered by the scope of requirements for items specified in Appendix 1 "Nomenclature of Items of the Register Technical Supervision", Part I "General Regulations for Technical Supervision" of the Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships in the degree in which they are applicable.

7.2 The materials and products of FPU/MODU/FOP oil-and-gas equipment manufactured, installed and mounted under the Register technical supervision shall be delivered

to the manufacturer, which perform the FPU/MODU/FOP construction, with the certificates or other documents evidencing their conformity to the requirements of the OGE Rules and/or to the standards recognized by the Register as acceptable (refer to Appendix 3).

7.3 Requirements for issue of certificates and documents on oil-and-gas equipment, including their scope and validity period, are specified in 5.2 – 5.5, Part I "General Regulations for Technical Supervision" of the Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships.

7.4 The Register technical supervision during manufacture and testing of serial materials and products of oil-and-gas equipment shall comply with the applicable requirements in Section 7, Part I "General Regulations for Technical Supervision" of the Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships.

7.5 The materials and products not being part of the Nomenclature may be subject to survey on request from the customer.

7.6 In case of the technical supervision of FPU/ MODU/FOP constructed with use of brand-new materials and components of oil-and-gas equipment, the Register has a right to unilaterally introduce amendments to the Nomenclature.

7.7 The Nomenclature uses definitions and abbreviations given in Section 3, Part I "General Regulations for Technical Supervision" of the Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships.

Table 7.1

Nomenclature of Items of the Register Technical Supervision of the FPU/MODU/FOP Oil-and-Gas Equipment

The Nomenclature is presented in the form of the table comprising six columns.

Column 1 ("Code of item"): identification code of the material, product, production process or software, which consists of eight characters, is indicated.

Column 2 ("Item of technical supervision"): name of the material, product, production process or software is indicated.

Columns 3 – 6: types of technical supervision are indicated:

group of item of technical supervision (1 – 5);

mounting;

factory testing;

operational testing.

Column 3 ("Group of item of technical supervision"): number of group of item of technical supervision according to which the type of technical supervision is assigned, is indicated. Possible schemes of technical supervision for groups are given in Tables 5.2-1 and 5.2-2, Part I "General Regulations for Technical Supervision" of the Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships.

Columns 4, 5, 6 ("Mounting", "Factory testing", "Operational testing"): necessity of technical supervision performed directly by the Surveyor (P) is indicated.

For the purpose of the Section:

technical supervision during mounting – examination and confirmation of compliance of the Register-approved technical documentation regarding the scope and location of the items of technical supervision;

factory testing during construction – testing of the items of technical supervision after their mounting on FPU/MODU/FOP under test pressure and test load for allowable safe working load and pull, as well as other tests confirming structure and reinforcement strength, mounting quality of systems and equipment;

operational testing – testing confirming functionality and serviceability of the items of technical supervision. When the scopes of factory and operational testing concur, only one testing may be conducted.

Code of item	Item of technical supervision	Technical supervision of the Register			
		during manufacture of materials and products	during FPU/MODU/FOP construction		
		Group of item of technical supervision (1 – 5)	Mounting	Factory testing	Operational testing
1	2	3	4	5	6
25000000	OIL-AND-GAS EQUIPMENT				
25010000	ARRANGEMENTS, EQUIPMENT				
25010100	Drilling unit	5	P	P	P
25010101	Drilling derrick	5	P	P	P
25010102	Flare boom	5	P	P	P
25010103	Cold vent stack	5	P	P	P
25010200	Packaged modular plants	4	P	P	P
25010300	Derrick substructure	5	P	P	P
25010301	Support frame of derrick substructure	5	P	P	P
25010400	Tensioners and compensators of displacement of:				
25010401	risers	5	P	P	P
25010402	drill strings	5	P	P	P
25010500	Arrangements for securing for sea of:				
25010501	blowout equipment	5	P	P	P
25010502	wellhead components (WC)	5	P	P	P
25010600	Displacement systems and equipment for derrick substructures with drilling derrick and support frame:				
25010601	support frame displacement	5	P	P	P
25010602	derrick substructure displacement	5	P	P	P
25020000	SYSTEMS AND PIPING				
25020100	Drilling support systems:				
25020101	well cementing system		P	P	P
25020102	free-flowing materials system		P	P	P
25020103	choke and kill systems		P	P	P
25020104	drilling riser system		P	P	P
25020105	pipe tripping		P	P	P
25020106	stand raising and setting		P	P	P
25020107	equipment cooling		P	P	P
25020108	collision prevention		P	P	P
25020109	base fluid		P	P	P
25020110	salt brine		P	P	P
25020200	Drilling mud systems:				
25020201	preparation and storage systems		P	P	P

Code of item	Item of technical supervision	Technical supervision of the Register			
		during manufacture of materials and products	during FPU/MODU/FOP construction		
		Group of item of technical supervision (1 – 5)	Mounting	Factory testing	Operational testing
1	2	3	4	5	6
25020202	gathering, cleaning and degassing system		P	P	P
25020203	high pressure system		P	P	P
25020204	low pressure system		P	P	P
25020210	System of sludge injection into the bed:				
25020211	for slurry preparation		P	P	P
25020212	sludge injection		P	P	P
25020300	Oil treating systems:				
25020301	well fluid gathering system		P	P	P
25020302	oil separation, stabilization, desalting and dehydration systems		P	P	P
25020303	associated petroleum gas gathering, treatment and utilization system		P	P	P
25020400	Gas treating systems:				
25020401	well fluid gathering system		P	P	P
25020402	gas separation and dehydration systems		P	P	P
25020403	gas condensate gathering and treatment system		P	P	P
25020404	absorbent regeneration system		P	P	P
25020405	gas compression system		P	P	P
25020406	gas-lift system		P	P	P
25020500	Chemical agent reception, storage and delivery systems:				
25020501	reception and storage system		P	P	P
25020502	delivery and distribution system		P	P	P
25020600	Piping displacement systems of derrick substructures and support frame:				
25020601	derrick substructure displacement		P	P	P
25020602	support frame displacement		P	P	P
25020700	Flare systems, pressure release and gas withdrawal systems		P	P	P
25020800	Process heating/cooling systems		P	P	P
25020900	Compressed-air systems:		P	P	P
25020901	instrumentation		P	P	P

Code of item	Item of technical supervision	Technical supervision of the Register			
		during manufacture of materials and products	during FPU/MODU/FOP construction		
		Group of item of technical supervision (1 – 5)	Mounting	Factory testing	Operational testing
1	2	3	4	5	6
25020902	free-flowing component transportation systems		P	P	P
25021000	Systems for water gathering, treatment and injection into the bed:				
25021001	water treatment system		P	P	P
25021002	water distribution system		P	P	P
25021003	water injection system		P	P	P
25021100	Hazardous drainage systems:				
25021101	open systems		P	P	P
25021102	closed systems		P	P	P
25021200	Well fluid offloading systems:				
25021201	measuring system		P	P	–
25021202	transfer system		P	P	P
25021300	Well completion and flushing systems		P	P	–
25021310	Auxiliary systems of the drilling rig		P	P	–
25021400	Modular equipment of systems¹	3/4	P	P	P
25021500	Manifolds of:				
25021501	cementing systems	4	P	–	P
25021502	drilling mud	4	P	–	P
25021503	choke and kill lines	4	P	–	P
25021504	well fluid gathering system	4	P	–	P
25021505	gas lift	4	P	–	P
25021506	water injection	3	P	–	P
25021600	High pressure lines:			–	
25021601	cementing systems	3	P	–	P
25021602	drilling mud systems	3	P	–	P
25021603	oil and gas gathering and treatment systems	3	P	–	P
25021700	High pressure hoses:			–	
25021701	drilling	3	P	–	P
25021702	cementing	3	P	–	P
25021703	throttle/chock delivery	3	P	–	P
25021704	other high pressure hoses	3	P	–	P
25021705	for blowout equipment	3	P	–	P
25021800	Blowout equipment control system units:			–	
25021801	ram-type blowout preventers	4	–	–	–

Code of item	Item of technical supervision	Technical supervision of the Register			
		during manufacture of materials and products	during FPU/MODU/FOP construction		
		Group of item of technical supervision (1 – 5)	Mounting	Factory testing	Operational testing
1	2	3	4	5	6
25021802	universal blowout preventers	4	–	–	–
25021803	cross-tees and shut-off valves	4	–	–	–
25021804	blowout equipment test benches	3	–	–	–
25021900	Diverter units	4	–	–	–
25022000	Wellhead equipment:				
25022001	surface casing string heads	4	–	–	–
25022002	surface X-mas tree	4	–	–	–
25022003	valve control systems for WC	4	P	–	P
25022100	Process and hydraulic system fittings:²				
25022101	shut-off and regulating fittings	1/3	P	–	P
25022102	safety fittings	1/3	P	–	P
25022200	Fittings for free-flowing materials:²			–	
25022201	shut-off and regulating fittings	1/3	P	–	P
25022202	safety fittings	1/3	P	–	P
25022300	Hose stations for reception and delivery of fluids and free-flowing materials	3	P	–	P
25022400	Water sprinkling system pipelines	1	P	–	P
25022500	Modular process units ¹	3/4	P	P	P
25022600	Type production processes	3	–	–	–
25022700	Electrical insulating devices:				
25022701	insulating joints	3	P	P	P
25030000	MACHINERY				
25030100	Well drilling and intervention mechanisms:				
25030101	top drive	4	P	–	P
25030102	rotary table and drive	4	P	–	P
25030103	iron roughnecks	3	P	–	P
25030104	flexible pipe handling units (coiled tubing units)	3	P	–	P
25030105	mechanized pipe delivery catwalk	3	P	–	P
25030200	Drilling mud system machinery:				
25030201	shale shakers (hydrocyclones)	2	P	P	P

Code of item	Item of technical supervision	Technical supervision of the Register			
		during manufacture of materials and products	during FPU/MODU/FOP construction		
		Group of item of technical supervision (1 – 5)	Mounting	Factory testing	Operational testing
1	2	3	4	5	6
25030202	mechanical mixers	2	P	P	P
25030203	jet mixers (ejectors)	2	P	P	P
25030204	screw conveyors	2	P	P	P
25030205	drilling mud degasifiers	2	P	P	P
25030206	screw centrifuges	2	P	P	P
25030207	free-flowing component reception devices	2	P	P	P
25030208	chemical solution preparation and feeding devices	2	P	P	P
25030300	Gas-pumping compressors:				
25030301	piston	3	P	P	P
25030302	centrifugal/axial	3	P	P	P
25030303	turbo expanders	3	P	P	P
25030304	other	3	P	P	P
25030400	Drilling system pumps:				
25030401	piston (plunger) pumps	3	P	P	P
25030402	centrifugal pumps	3	P	P	P
25030403	other	3	P	P	P
25030500	Cementing system pumps:				
25030501	centrifugal pumps	3	P	P	P
25030502	piston (plunger) pumps	3	P	P	P
25030503	membrane pumps	3	P	P	P
25030504	other	3	P	P	P
25030600	Sludge pumps:				
25030601	centrifugal pumps	3	P	P	P
25030602	piston (plunger) pumps	3	P	P	P
25030603	screw pumps	3	P	P	P
25030604	other	3	P	P	P
25030700	Pumps of well fluid treatment and offloading systems:				
25030701	piston (plunger) pumps	3	P	P	P
25030702	centrifugal pumps	3	P	P	P
25030800	Other pumps	3	P	P	P
25030900	Hydraulic stations:				
25030901	drilling systems (top drive, rotor, drawworks)	3	P	P	P
25030902	automatic pipe handling systems	3	P	P	P
25030903	displacement system for derrick substructures with drilling derrick and support frame	3	P	P	P
25030904	displacement systems for blowout equipment and wellhead components	3	P	P	P

Code of item	Item of technical supervision	Technical supervision of the Register			
		during manufacture of materials and products	during FPU/MODU/FOP construction		
		Group of item of technical supervision (1 – 5)	Mounting	Factory testing	Operational testing
1	2	3	4	5	6
25030905	pipe handling mechanisms, tongs and cranes	3	P	P	P
25030906	control systems for wellhead components and shut-off valves	4	P	P	P
25030907	control systems for blowout equipment	4	P	P	P
25031000	Hydraulic cylinders of:				
25031001	displacement system for derrick substructures with drilling derrick and support frame	3	P	P	P
25031002	displacement systems for blowout equipment and wellhead components	3	P	P	P
25031003	hydraulic pneumatic drives	3	P	P	P
25031004	other hydraulic cylinders	3	P	P	P
25031100	Hydropneumatic accumulators of:				
25031101	blowout equipment	3	P	P	P
25031102	string tensioning and displacement compensation system	3	P	P	P
25031103	other hydraulic accumulators	3	P	P	P
25031200	Hydraulic lifting jacks:				
25031201	drilling derrick alignment systems	3	P	P	P
25031300	Modular machinery installations¹	3/4	P	P	P
25040000	HEAT EXCHANGERS AND PRESSURE VESSELS				
25040100	Separators of:				
25040101	drilling mud systems	3	P	P	P
25040102	oil treatment systems	3	P	P	P
25040103	gas/condensate treatment systems	3	P	P	P
25040200	Multiphase separators	3	P	P	P
25040300	Electrical dehydrators	3	P	P	P
25040400	Desalters	3	P	P	P
25040500	Mass exchanger columns	3	P	P	P
25040600	Pig launching/receiving systems	3	P	P	P
25040601	Launchers/receivers	4	P	P	P
25040602	Vessels and tanks	3	P	P	P
25040700	Heat exchangers:				
25040701	plate-type heat exchangers	3	P	P	P

Code of item	Item of technical supervision	Technical supervision of the Register			
		during manufacture of materials and products	during FPU/MODU/FOP construction		
		Group of item of technical supervision (1 – 5)	Mounting	Factory testing	Operational testing
1	2	3	4	5	6
25040702	shell-and-tube heat exchangers	3	P	P	P
25040703	capacitive heat exchangers	3	P	P	P
25040800	Direct-fired heaters	3	P	P	P
25040900	Process water treatment plants	3	P	–	P
25041000	Process vessels of systems for storing and transporting free-flowing materials of the drilling rig	3	P	P	–
25041100	Modular process units¹	3/4	P	P	P
25041200	Tanks:				
25041201	open drain tanks	3	P	P	P
25041202	closed drain tanks	3	P	P	P
25041203	discharge tanks	3	P	P	P
25041300	Type production processes	3	–	–	–
25060000	ELECTRICAL EQUIPMENT		–	–	–
25060100	Electrical drives of shut-off and regulating fittings	2	–	–	–
25070000	MATERIALS AND WELDING		–	–	–
25070100	Steel rolled products:		–	–	–
25070101	for heat exchangers, pressure vessels and pipes	1M	–	–	–
25070102	pipes for heat exchangers and pressure vessels	1M	–	–	–
25070103	pipes for process piping	1M	–	–	–
25070104	parts of process piping	1M	–	–	–
25070200	Steel semi-finished products for boilers, pressure vessels, parts of piping and manifolds	1M	–	–	–
25070300	Welding consumables	1M	–	–	–
25080000	CARGO-HANDLING GEAR				
25080100	Winches:				
25080101	drawworks	4	P	P	P
25080102	drilling floor, including hydraulic catheads	3	P	P	P
25080103	personnel raising winch	3	P	P	P
25080104	general purpose winch	3	P	P	P

Code of item	Item of technical supervision	Technical supervision of the Register			
		during manufacture of materials and products	during FPU/MODU/FOP construction		
		Group of item of technical supervision (1 – 5)	Mounting	Factory testing	Operational testing
1	2	3	4	5	6
25080105	block-and-tackle/ pulley for blowout equipment displacement	3	P	P	P
25080106	stabbing board/runaround winch	3	P	P	P
25080107	well logging hoists	3	P	P	P
25080200	Pipe handling/displacement arrangements:				
25080201	horizontal pipe handling machines	3	P	P	P
25080202	vertical pipe handling machines	3	P	P	P
25080203	pipe manipulators	3	P	P	P
25080204	pipe setting system overhead cranes	3	P	P	P
25080205	pipe deck cranes	3	P	P	P
25080206	cross-members for pipes	3	P	P	P
25080207	riser-handling systems	4	P	P	P
25080300	Overhead and pedestal cranes:				
25080301	blowout equipment overhead cranes	3	P	P	P
25080302	wellhead component overhead cranes	3	P	P	P
25080303	deck pedestal cranes	3	P	P	P
25080304	beam cranes	3	P	P	P
25080400	Others:				
25080401	stage of a drilling derrick	3	P	P	P
25080402	basket for servicing a drilling well	3	P	P	P
25080403	block-and-tackle unit	3	P	P	P
25080404	top drive elevator	3	P	P	P
25080405	crown block with pulleys	3	P	P	P
25080406	hook/block-hook	3	P	P	P
25080407	deadline anchor	3	P	P	P
25080408	wireline spooling and storage device	1	P	P	P
25080409	pneumatic breaker	3	P	P	P
25080410	air-power slip	3	P	P	P
25090000	AUTOMATION				
25090100	Automated process control system, emergency shutdown (ESD) system	4	P	P	P
25090200	Automated control system of drilling unit, emergency shutdown (ESD) system	4	P	P	P
25090201	drilling equipment control system		P	P	P

Code of item	Item of technical supervision	Technical supervision of the Register			
		during manufacture of materials and products	during FPU/MODU/FOP construction		
		Group of item of technical supervision (1 – 5)	Mounting	Factory testing	Operational testing
1	2	3	4	5	6
25090202	local control systems, including control panel		P	P	P
25090203	driller's control console	3	P	–	P
¹ Group 3 for units: design pressure up to 1,6 MPa, total power up to 100 kW. ² Group 1 for C-class valves (refer to 2.4.3, Part V "Systems and Piping").					

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

8.1 GENERAL

3 **Para 8.1.5.** The reference "Section 7 and 10.2" is replaced by the reference "Section 8 and 11.2".

4 **Paras 8.1.6 and 8.1.7** are replaced by the following text:

8.1.6 Depending on the item belonging to the group of technical supervision, the compliance of materials and products with the RS requirements shall be confirmed by the following documents:

- .1 Certificate filled-in and signed by the Register (C);
- .2 Certificate filled-in and signed by an official of the firm (manufacturer) and drawn up (endorsed) by the Register (C3);
- .3 Document drawn up by the manufacturer in which the material or product compliance with RS requirements (MC) is declared;
- .4 Document drawn up by the manufacturer according to the standards of the firm (M); it shall contain data satisfactory to RS.

8.1.7 The contents of the Certificates (C, C3) and the Document (MC) shall identify the material or product, their types, main parameters, as well as the manufacturer of materials and products.

Document (MC) shall at least contain:

- address of the manufacture place;
- name of technical documentation on an item and date of its approval by RS;
- name, type or grade of the material or product;
- manufacturing or serial number, lot number (as relevant);
- name of the document containing data on the surveys and tests performed by the firm (manufacturer);
- number, issue date, and validity period of the Type Approval Certificate (CTO);
- company statement of the item compliance with the approved type specified in the Type Approval Certificate (CTO);
- signature of the authorized person of the firm (manufacturer).

Validity period of the Certificates (C, C3) and Documents (M, MC) is not specified.

For the products of group 2, the contents of Document (MC) shall be coordinated during the type approval."

5 **Para 8.1.11.** The reference "Sections 5 to 12" is replaced by the reference "Section 2".

8.2 APPROVAL OF TYPE MATERIALS, PRODUCTS AND PRODUCTION PROCESSES

6 The Chapter is supplemented by **para 8.2.7** reading as follows:

"8.2.7 In other cases approval of type materials, products and production processes shall be carried out according to Section 6, Part I "General Regulations for Technical Supervision" of the Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships."

7 **Para 8.3.3.** The reference "Sections 7 and 10" is replaced by the reference "Sections 8 and 11".

8 **Para 8.4.3.** The reference "Sections 7 and 9" is replaced by the reference "Sections 8 and 10".

9 **Para 8.4.6.** The reference "Section 7 and requirements of 9.2.1.1, 9.2.2.1, 9.2.2.2, 9.2.4.1, 9.2.4.2, 9.2.5 and 9.2.6" is replaced by the reference "Section 8 and requirements of 10.2.1.1, 10.2.2.1, 10.2.2.2, 10.2.4.1, 10.2.4.2, 10.2.5 and 10.2.6".

PART II. DRILLING RIG SYSTEMS AND EQUIPMENT

2 REQUIREMENTS FOR THE DRILLING RIG EQUIPMENT AND SYSTEMS

2.1 DRILLING DERRICK AND ITS EQUIPMENT

10 **Para 2.1.1.4** is introduced reading as follows:

"2.1.1.4 During design of the drilling derricks, derrick substructures and support frames of derrick substructures of FPU/MODU/FOP, except for indicated in 2.1.1, the concept of dangerous (limit) states shall be used. Categories of dangerous (limit) states are indicated in 2.4, Part II "Hull" of the MODU/FOP Rules and GOST R 54483."

11 **New Chapter 2.3** is introduced reading as follows:

"2.3 SUPPORT FRAME

2.3.1 Support frame shall be designed for strength with regard to the loads given in 2.1.1.

2.3.2 Structural drawings and strength analysis of displacement mechanism for support frame and derrick substructure shall be submitted.

2.3.3 The materials and products used for manufacture of structures of the FPU/MODU/FOP support frame of derrick substructure shall meet the requirements of Part XII "Materials" of the MODU/FOP Rules. The use of other materials and products complying with the requirements of the normative and technical documents of foreign classification societies, other recognized national and international regulations, rules and standards may be allowed when substantiation is presented that these materials and products are as effective as those specified in the RS rules are and provide the safe operation of oil-and-gas equipment.

2.3.4 Requirements for welding of metal structures of the FPU/MODU/FOP support frame of derrick substructure shall meet the requirements of Part VIII "Materials and Welding".

12 **Existing Chapters 2.3 – 2.13** are renumbered 2.4 – 2.14, accordingly.