



# RUSSIAN MARITIME REGISTER OF SHIPPING

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**CIRCULAR LETTER**

**No. 392-06-1409c**

dated 08.07.2020

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Re:

amendments to the Rules for the Classification and Construction of Subsea Production Systems, 2017, ND No. 2-090601-003-E

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Item(s) of supervision:

material, product, activities, ship

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Entry-into-force date:

**01.08.2020**

~~Valid till:~~

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

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Number of pages:

1+8

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Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Part I "General Regulations for Technical Supervision"

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Director General

Konstantin G. Palnikov

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Text of CL:

We hereby inform that the Rules for the Classification and Construction of Subsea Production Systems shall be amended as specified in the Appendices to the Circular Letter. The amendments will be introduced into the Rules at their re-publication.

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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 subsea production systems, requested for review on or after 01.08.2020, as well as when performing technical supervision during manufacture of subsea production systems.
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List of the amended and/or introduced paras/chapters/sections:

Part I: Section 4, para 4.1.4, Section 6, paras 7.1.5 — 7.1.7, 7.1.11, 7.2.7, 7.3.3, 7.3.6, 7.4.2, 7.5.1, Table 7.5.1, paras 7.5.2 — 7.5.4, 9.2.3

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"Thesis" System No. 20-140185

**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	Section 4	The heading of the Section has been aligned with the Russian version of the Rules	392-06-1409c of 08.07.2020	01.08.2020
2	Para 4.1.4	The reference to the Guidelines on Technical Supervision of Industrial Safety of Hazardous Production Facilities and their Technical Devices has been deleted	392-06-1409c of 08.07.2020	01.08.2020
3	Section 6	The Section has been completely amended. The Nomenclature of the Items of the Technical Supervision of the Subsea Production Systems has been specified	392-06-1409c of 08.07.2020	01.08.2020
4	Para 7.1.5	The references to the applicable requirements have been specified	392-06-1409c of 08.07.2020	01.08.2020
5	Paras 7.1.6 and 7.1.7	The paras have been completely amended. The requirements for documents confirming compliance of materials and products with the RS requirements have been specified	392-06-1409c of 08.07.2020	01.08.2020
6	Para 7.1.11	The references to the applicable requirements have been specified	392-06-1409c of 08.07.2020	01.08.2020
7	Para 7.2.7	New para containing reference to the requirements regarding type approval of materials, products and manufacturing processes has been introduced	392-06-1409c of 08.07.2020	01.08.2020
8	Para 7.3.3	The references to the applicable requirements have been specified	392-06-1409c of 08.07.2020	01.08.2020
9	Para 7.3.6	The references to the applicable requirements have been specified	392-06-1409c of 08.07.2020	01.08.2020
10	Para 7.4.2	The references to the applicable requirements have been specified	392-06-1409c of 08.07.2020	01.08.2020

11	Para 7.5.1	The reference to the applicable requirements has been specified	392-06-1409c of 08.07.2020	01.08.2020
12	Table 7.5.1	Kind of activity with code 27004000 has been deleted	392-06-1409c of 08.07.2020	01.08.2020
13	Para 7.5.2	The reference to the applicable requirements has been specified	392-06-1409c of 08.07.2020	01.08.2020
14	Paras 7.5.3 and 7.5.4	Para 7.5.3 has been deleted. The para 7.5.4 has been renumbered 7.5.3	392-06-1409c of 08.07.2020	01.08.2020
15	Para 9.2.3	The references to the applicable requirements have been specified	392-06-1409c of 08.07.2020	01.08.2020

## **RULES FOR THE CLASSIFICATION AND CONSTRUCTION OF SUBSEA PRODUCTION SYSTEMS, 2017,**

**ND No. 2-090601-003-E**

### **PART I. GENERAL REGULATIONS FOR TECHNICAL SUPERVISION**

#### **4 GENERAL REGULATIONS FOR TECHNICAL SUPERVISION**

1 **Section 4.** The heading is replaced by the following text:

**"4 GENERAL REQUIREMENTS FOR TECHNICAL SUPERVISION".**

2 **Para 4.1.4** is replaced by the following text:

**"4.1.4** The Register technical supervision during design, construction and operation of the SPS, as objects of the field construction of the sea shelf, is carried out along with the procedures for supervision of these objects performed by the supervisory bodies of the RF, in accordance with the requirements of the RF legislation (refer to 2.2).".

#### **6 NOMENCLATURE OF ITEMS OF THE TECHNICAL SUPERVISION OF THE SUBSEA PRODUCTION SYSTEMS**

3 **Section 6** is replaced by the following text:

**"6 NOMENCLATURE OF ITEMS OF THE TECHNICAL SUPERVISION OF THE SUBSEA  
PRODUCTION SYSTEMS**

**6.1** The Nomenclature of Items of the Register Technical Supervision of the SPS (hereinafter referred to as "the SPS Nomenclature", refer to Table 6.1) specifies the items subject to the Register technical supervision during their manufacture at the manufacturer, installation and testing.

**6.2** The materials and products of SPS manufactured and installed under the Register technical supervision shall be delivered to the manufacturer, which performs the SPS construction, with the certificates or other documents evidencing their conformity to the requirements of these Rules and/or to the standards recognized by the Register as acceptable.

**6.3** Any amendments to the SPS Nomenclature may be introduced only if agreed with the Register. The materials and products not being part of the Nomenclature may be subject to survey on request from the customer.

**6.4** In case of technical supervision of SPS constructed with the use of brand-new materials and accessory components, the Register has a right to unilaterally introduce amendments to the SPS Nomenclature.

Table 6.1

#### **Nomenclature of Items of the Register Technical Supervision of the Subsea Production Systems**

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

Column 1 ("Code of item of technical supervision"): 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.

Column 3 ("Group of item of technical supervision"): number of group of item of technical supervision (1 — 5) is indicated according to which the technical supervision type is assigned.

Possible schemes of technical supervision for the 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 ("installation", "Factory testing", "Operational testing"): necessity of technical supervision performed directly by the Surveyor (P) is indicated.

For the purpose of this Section:

technical supervision during installation — examination and confirmation of compliance with the Register-approved technical documentation regarding the scope and location of items of technical supervision;

factory testing during construction — testing of items of technical supervision after manufacture under test pressure and test load, as well as other tests confirming structure and reinforcement strength, quality of installation and tightness of systems and equipment;

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

Code of the item of technical supervision	Item of technical supervision	Technical supervision of the Register			
		during manufacture of materials and products	during construction		
			Group of item of technical supervision (1 — 5)	Installation	Factory testing
26000000	<b>SUBSEA PRODUCTION SYSTEMS</b>				
26010000	<b>ARRANGEMENTS, EQUIPMENT</b>				
26010100	<b>Foundations, bases and other structures to ensure fixation of the SPS</b>				
26010101	foundations for wellhead equipment	5	P	—	P
26010102	foundation of manifolds	5	P	—	P
26010103	foundations for equipment (separators, boosters, compressors, etc.)	5	P	—	P
26010104	riser basement	5	P	—	P
26010105	templates	5	P	—	P
26010106	guide arrangements for installation	5	P	—	P
26010200	<b>Protective structures:</b>	5	P	—	P
26010201	non-tight structures				
26010202	tight structures designed for hydrostatic pressure	5	P	—	P
26020000	<b>SYSTEMS AND PIPING</b>				
26020100	<b>Systems of well fluid gathering and treatment:</b>				
26020101	fluid treatment system	—	P	P	P
26020102	fluid separation system	—	P	P	P
26020103	fluid injection/pumping-over system	—	P	P	P
26020104	water injection/pumping-over system	—	P	P	P
26020105	chemical reagent feed system	—	P	P	P
26020200	<b>Drive and control systems:</b>				
26020201	hydraulic	—	P	P	P
26020202	electric	—	P	P	P
26020203	pneumatic	—	P	P	P
26020204	combined	—	P	P	P
26020300	<b>Wellhead equipment:</b>				
26020301	casing head unit	3	P	P	P
26020302	tubing hanger unit (tubing head)	3	P	P	P
26020303	Christmas tree	3	P	P	P
26020304	Christmas tree cap	3	P	P	P
26020305	wellhead equipment for work performance in the well	3	P	P	P
26020306	lower riser package (drilling/workover)	3	P	P	P
26020307	X-mas tree guide frames	3	P	P	P
26020308	wellhead assembly connectors	3	P	P	P
26020400	<b>Manifolds and manifold units:</b>				
26020401	manifold units/manifolds	4	P	P	P
26020402	manifold pipelines	3	P	P	P
26020500	<b>Shutoff and control valves, valve assembly:</b>				
26020501	shutoff power driven valves	3	P	P	P
26020502	choke and control power driven valves	3	P	P	P
26020503	power driven valves for injection of chemical reagents	3	P	P	P
26020600	<b>Hoses and umbilicals:</b>				
26020601	subsea hoses	3	P	P	P
26020602	umbilicals with electric/hydraulic/optical fibre channels	3	P	P	P
26020603	umbilical termination heads	3	P	P	P
26020604	subsea terminations and jumpers	3	P	P	P
26020700	<b>Flowlines:</b>				
26020701	flowline connector units	3	P	P	P
26020702	pipelines	3	P	P	P
26020800	<b>Well fluid metering equipment</b>	3	P	P	P
26050000	<b>ELECTRICAL EQUIPMENT</b>				
26050100	<b>Subsea electric power supply and distribution systems:</b>				
26050101	power supply units	4	P	P	P
26050102	uninterruptible power supplies	4	P	P	P
26050103	subsea power distribution systems	4	P	P	P
26050104	subsea transformers	4	P	P	P
26050105	subsea frequency converters	4	P	P	P
26050106	subsea cable connectors controlled by ROV	3	P	P	P
26050200	<b>Electric drives:</b>				
26050201	drive motors of pumps	3	P	—	P
26050202	electric drives of actuators	3	P	—	P

Code of the item of technical supervision	Item of technical supervision	Technical supervision of the Register			
		during manufacture of materials and products	during construction		
			Group of item of technical supervision (1 — 5)	Installation	Factory testing
26050203	subsea electrical drives of compressor plants	3	P	P	P
26050204	electrical drives of process machinery	3	P	P	P
26050300	<b>Cables and conductors:</b>				
26050301	power cables	3	—	—	—
26050302	signal cables	3	—	—	—
26050303	optical fibre cables	3	—	—	—
26050304	cable end fitting	3	P	P	P
26050305	communication lines (conductors)	3	—	—	—
26050400	<b>Subsea production video surveillance systems</b>	3	P	—	P
26070000	<b>MATERIALS</b>				
26070100	<b>Steel rolled products:</b>				
26070101	for tubes and pipes and elements of pipelines	4M	—	—	—
26070102	pipes and tubes for process pipelines	4M	—	—	—
26070103	elements of process pipelines	4M	—	—	—
26070104	for protective structures, bases and foundations	4M	—	—	—
26070200	<b>Steel semi-finished products:</b>				
26070201	for wellhead assembly	4M	—	—	—
26070202	for fittings, connectors, terminations, etc.	4M	—	—	—
26070300	<b>Welding consumables</b>	2M	—	—	—
26070400	<b>Welding process</b>	2M	—	—	—
26090000	<b>AUTOMATED CONTROL SYSTEMS</b>				
26090100	<b>Indication, Alarm, Control, Protection and Logging systems:</b>				
26090101	hydraulic	4	P	P	P
26090102	electrical	4	P	P	P
26090103	electro-hydraulic	4	P	P	P
26090104	multiplex	4	P	P	P
26090105	autonomous	4	P	P	P
26090200	<b>Integrated monitoring and control buoys</b>	4	P	P	P
26090300	<b>Systems for monitoring, control and emergency protection:</b>				
26090301	surface	5	P	P	P
26090302	subsea for hydraulic and electro-hydraulic systems	5	P	P	P
26090303	subsea electronic	5	P	P	P
26090304	modem units and checker units	4	P	P	P
26090400	<b>Systems for designation of SPS elements and for guidance of servicing subsea facilities and tools:</b>				
26090401	sonar systems for designation of SPS elements and for guidance of servicing subsea facilities and tools	4	P	—	P
26090500	<b>High integrity pressure protection system (HIPPS)</b>	4	P	P	P

## **7 TECHNICAL SUPERVISION DURING MANUFACTURE OF MATERIALS AND PRODUCTS FOR THE SUBSEA PRODUCTION SYSTEMS AT THE MANUFACTURER**

4 **Para 7.1.5.** The reference to "Section 7 and Chapter 10.2" is replaced by the reference to "Sections 9, 11 and 12".

5 **Paras 7.1.6 and 7.1.7** are replaced by the following text:

**7.1.6** 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 the RS requirements is declared (MC);

.4 Document drawn up by the manufacturer according to the standards of the firm (M); it shall contain data satisfactory for RS.

**7.1.7** The contents of the certificates (C, C3) and the Document (MC) shall identify the material, 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);

firm (manufacturer) 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 the Document (MC) shall be coordinated during the type approval."

6 **Para 7.1.11.** The reference to "Sections 5 to 12" is replaced by the reference to "Section 5".

7 **Chapter 7.2** "Approval of Type Materials, Products and Manufacturing Processes" is supplemented by **para 7.2.7** reading as follows:

**7.2.7** In other cases the type approval of materials, products and manufacturing 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."

8 **Para 7.3.3.** The reference to "Sections 7 and 9" is replaced by the reference to "Sections 8 and 10".

9 **Para 7.3.6.** The reference to "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 to "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".

10 **Para 7.4.2.** The reference to "Sections 7 and 10" is replaced by the reference to "Sections 8 and 11".

11 **Para 7.5.1.** The reference to "Section 7" is replaced by the reference to "Section 8".



- 12 Kind of activity "Design for the SPS" with code 27004000 is deleted from **Table 7.5.1**.
- 13 **Para 7.5.2**. The reference to "11.2" is replaced by the reference to "Section 12".
- 14 **Para 7.5.3** is deleted. **Para 7.5.4** is renumbered **7.5.3**.

## **9 TECHNICAL SUPERVISION OF THE SUBSEA PRODUCTION SYSTEMS IN SERVICE**

- 15 **Para 9.2.3**. The reference to "Sections 7 and 8" is replaced by the reference to "Sections 8 and 9".