



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 381-26-1290c

dated 18.11.2019

Re:

amendments to the Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships, 2019, ND No. 2-020101-118-E

Item(s) of supervision:

material, product, activities, ship

Entry-into-force date:

01.12.2019

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

~~dated~~

Number of pages:

1+78

Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

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

Director General

Konstantin G. Palnikov

Text of CL:

We hereby inform that based on proposals submitted to SRPAA RS ND, the Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships shall be amended as specified in the Appendices to the Circular Letter.

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 content of the Circular Letter to all interested parties in the area of the RS Branch Offices' activity.
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List of the amended and/or introduced paras/chapters/sections:

Part I: para 4.6.3, Sections 5 — 12, Section 16, Appendix 1, Appendix 2, Appendix 3

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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 4.6.3	Requirements have been specified	381-26-1290c of 18.11.2019	01.12.2019
2	Section 5	Section has been completely ammended	381-26-1290c of 18.11.2019	01.12.2019
3	Section 6	Section has been completely ammended	381-26-1290c of 18.11.2019	01.12.2019
4	Section 7	New Section containing requirements for serial material and products certification has been introduced	381-26-1290c of 18.11.2019	01.12.2019
5	Section 7 — 11	Sections 7 — 11 have been renumbered 8 — 12 accordingly	381-26-1290c of 18.11.2019	01.12.2019
6	Section 12	Section has been deleted	381-26-1290c of 18.11.2019	01.12.2019
7	Section 16	Section has been deleted	381-26-1290c of 18.11.2019	01.12.2019
8	Appendix 1	Appendix has been completely ammended	381-26-1290c of 18.11.2019	01.12.2019
9	Appendix 2, Para 1.3	Requirements have been specified	381-26-1290c of 18.11.2019	01.12.2019
10	Appendix 2, Para 1.4 — 1.7	Para 1.4 has been deleted; paras 1.5 — 1.7 have been renumbered 1.4 — 1.6 accordingly	381-26-1290c of 18.11.2019	01.12.2019
11	Appendix 3	Appendix has been deleted	381-26-1290c of 18.11.2019	01.12.2019

RULES FOR TECHNICAL SUPERVISION DURING CONSTRUCTION OF SHIPS AND MANUFACTURE OF MATERIALS AND PRODUCTS FOR SHIPS, 2019

ND No. 2-020101-118-E

PART I. GENERAL REGULATIONS FOR TECHNICAL SUPERVISION

1 TERMS, DEFINITIONS, ABBREVIATIONS

1.2 ABBREVIATIONS

- 1 Editorial amendment has been made in the Russian version only.

4 REQUESTS, CONTRACTS AND AGREEMENTS ON TECHNICAL SUPERVISION

- 2 **Para 4.6.3** is replaced by the following text:

".3 if the CKK 1 Certificate, CKK 2 Certificate, Recognition Certificate (СП), Recognition Certificate of Testing Laboratory (СПЛ), Recognition Certificate for Manufacturer (СПИ) and Certificate of Firm Conformity (ССП) become invalid in compliance with 3.6;"

5 TECHNICAL SUPERVISION DURING MANUFACTURE OF MATERIALS AND PRODUCTS

- 3 **Section 5** are replaced by the following text:

"5 TECHNICAL SUPERVISION DURING MANUFACTURE OF MATERIALS AND PRODUCTS

5.1 Materials and products used in construction of ships and floating facilities classed with the Register are permitted to be installed subject to the availability of the certificates of conformity or other documents confirming their compliance with the RS requirements, IMO conventions and recommendations, except for the cases listed in 1.5.7, Part IV "Technical Supervision during Manufacture of Products" of these Rules.

The list of materials and products subject to mandatory technical supervision is given in the RS Nomenclature (refer to Appendix 1).

In separate cases, at the RS discretion, technical supervision may be performed of the materials and products not contained in the RS Nomenclature, which are newly developed or are the components of the products listed in the RS Nomenclature and which functionally provide the safety of the items of technical supervision (refer to 2.4).

5.2 When determining forms of technical supervision, items of technical supervision shall be divided into 5 groups. Possible schemes of technical supervision during manufacture of products for different groups are given in Table 5.2.1 for products and in Table 5.2.2 for materials. In case of a single approval given for the equipment of groups 2 — 4, the materials or products are surveyed to the extent of group 5. This procedure can also be used for statutory equipment if it is permitted by the provisions of conventions, resolutions and/or additional requirements of the Administration. Where a single approval is issued to single products, approval of technical documentation and survey results for the prototype cover only the material or product for which the certificates of conformity have been issued.

Table 5.2-1

Stage of technical supervision	Type of survey/Issued document	Product groups							
		Group 1	Group 2	Group 3			Group 4		Group 5
		1.1	2.1	3.1	3.2	3.3	4.1	4.2	5.1
Type approval	Approval of technical documentation	--	X	X	X	X	X	X	X
	Type testing of a prototype	--	X	X	X	X	X	X	x ¹
	Type of a type approval certificate issued by RS	--	СТО / СТПК	СТО			СТО		--
Survey of serial products	Survey of the manufacturer's quality control system	--	--	--	CKK 1	CKK 2	--	CKK 2	--
	Type of the Quality Control System Certificate, issued by RS	--	--	--	CKK 1 Cert.	CKK 2 Cert.	--	CKK 2 Cert.	--
	Survey of products by RS	--	--	X	--	--	X	--	X
	Certificate issued by RS			C	C3	--	C	C3	C
	Document issued by manufacturer	M	MC	--	--	MC	--	--	--

¹Tests are performed to the extent prescribed by the RS rules. A part of tests can be rescheduled for the mooring trials, sea trials or operation tests if it is provided by the RS rules and/or documentation approved by RS.

Notes: 1. "X" – means "Required".

2. CKK 1 – refer to para 7.3.

3. CKK 2 – refer to para 7.4.

4. In case of a single approval given for the equipment of groups 2 — 4, the materials or products are surveyed to the extent of group 5.

5. "--" means "Not applicable" or "Not required".

Table 5.2-2

Stage of technical supervision	Type of survey/Issued document	Material groups										
		Group 1M	Group 2M			Group 3M			Group 4M		Group 5M	
		1.1	2.1	2.2	2.3	3.1	3.2	3.3	4.1	4.2	5.1	
Manufacturer recognition/ type approval	Approval of technical documentation on material	X*	X	X	X	X	X	X	X	X	X	X*
	Tests at initial survey	--	X	X	X	X	X	X	X	X	X	--
	Type of a recognition certificate for manufacturer or a type approval certificate on material issued by RS	--	--	COCM	СТО	--	СТО		СПИ		--	
Survey of serial materials	Survey of the firm's quality control system/periodical/confirmation of СПИ/COCM	--	--	X	--	--	--	СКК 2	X	X	--	
	Type of the Quality Control System Certificate issued by RS	--	--	--	--	--	--	СКК 2 Cert.	--	--	--	
	Survey of material by RS	--	X	--	--	X	X	--	X	--	X**	
	Certificate issued by RS	--	C	--	--	C	C	--	C	C3	C	
	Document issued by the manufacturer	M	M	MC	MC	M	M	MC	M	M	M	
<p>*Review of technical documentation on material is carried out simultaneously with approval of technical documentation on the item of technical supervision where the material is applied (item of application).</p> <p>**Survey is carried out in the scope prescribed by technical documentation, as specified in the documentation on the item of application to be approved by the Register.</p> <p>***For welding materials, stages of technical supervision as for groups 2.1 and 2.2 shall apply, for other materials — as for groups 2.1 and 2.3.</p>												

5.3 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 MC — a document drawn up by the manufacturer in which the material or product compliance with the RS requirements is declared;
- .4 M — a document drawn up by the manufacturer according to the standards of the firm; it shall contain data satisfactory for RS.

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

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) or Certificate of Approval for Welding Consumables (COCM);

company statement of the item compliance with the approved type specified in the Type Approval Certificate (CTO)/Certificate of Approval for Welding Consumables (COCM)/Type Approval Certificate for Fire-Proof Division (CTPK);;

signature of the authorized person of the firm (manufacturer).

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

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

5.5 In order to obtain the Certificate (C), if there is no Type Approval Certificate (CTO) or Certificate of Approval for Welding Consumables (COCM), the request shall be applied together with the technical documentation on the materials or products to the extent regulated by the RS rules.

5.6 Upon review of the technical documentation, the Register shall send a conclusion letter to the applicant. Where deemed necessary, the applicant shall submit the testing programme to the Register to be agreed upon.

5.7 The items of technical supervision are surveyed by the Register at the final stage of production (finished products) after acceptance of the products by the manufacturer technical control body and issue of the appropriate documents.

In cases when it is motivated by the production process, the RS rules, and/or design of the product, at the discretion of the Register, surveys may be carried out on a step-by-step basis and simultaneously with the manufacturer's control.

Surveys at the intermediate stages of production of the items to technical supervision are carried out in the cases prescribed by the Register after completion of manufacturer's functional control or at the discretion of the Register, if motivated by the particular conditions of production.

Tests shall be witnessed by the RS surveyor or carried out in the laboratories recognized by the Register or in the nationally accredited for appropriate test laboratories that are independent from manufacturer, unless otherwise stated in the relevant parts of the Rules.

5.8 The manufacturer shall provide for the performance of technical supervision by the Register, i.e.:

provide the technical documentation necessary for work, particularly the factory records of the product quality control;

prepare the items of technical supervision to perform the survey to the extent required;

ensure safety of surveys;

provide for the presence of the officials authorized to present the items of technical supervision to surveys and tests;

timely notify the Register on time and venue of surveys and tests of the items of technical supervision.

If the manufacturer fails to comply with the terms of the technical supervision performance, the Register may refuse to carry out the surveys to witness tests.

5.9 Where the firm (manufacturer) fabricates forgings, castings, machinery and equipment components, as well as mass-production products (ship fittings, hull fittings, etc.) for own production (further processing, assembling, construction), technical supervision may be confirmed by the manufacturer's documents endorsed by the Register.

Where the above products are fabricated by the same firm (manufacturer) for cooperation shipments or as the spare parts, the supervision shall be confirmed by the certificates and documents (C, C3, MC, M) according to the RS Nomenclature.

5.10 Signing of the issued certificates and manufacturer's documents are allowed to carry out by digital signature or by signing and stamping in hard copy.

6 TYPE APPROVAL OF MATERIALS, PRODUCTS, PRODUCTION PROCESSES, AND SOFTWARE

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

"6 TYPE APPROVAL OF MATERIALS, PRODUCTS, PRODUCTION PROCESSES, AND SOFTWARE

6.1 The Type Approval Certificate (CTO) is a document of the Register, which certifies that a construction, properties, parameters, characteristics of a type material or product found in the course of surveys and indicated in the approved technical documentation, meet the RS requirements and may be used for ships and items of technical supervision for the intended purpose.

6.2 The Type Approval Certificate (CTO) can be issued to the manufacturer of a material or product, or to the firm that places these products on the market under its own trademark and asserts itself as the manufacturer of materials or products even if the design and/or manufacture and/or assembly are partially or completely given to another firm under the Agreement for Contract Manufacturing.

In this regard, the following terms shall be observed:

the firm is the technical documentation owner or has the documentary confirmation from the owner regarding the possibility to use the technical documentation in order to obtain a separate Type Approval Certificate (CTO);

the firm assumes liabilities for ensuring the compliance of a material or product with the RS requirements;

when submitting a request, the firm shall inform the Register about other firms engaged in the design, manufacture or assembly of the finished material or product.

Note. Contract manufacturing (OEM) is the manufacture of materials and products at the at the firms and manufacturer's production sites independent of the Type Approval Certificate (CTO) holder with the observance of the process cycle and quality control of the finished products according to the Register requirements.

6.3 The Type Approval Certificate (CTO) certifies that the approval of the technical documentation and satisfactory results of surveys of the material or product prototype are accounted for by the Register in technical supervision of these materials and products manufactured under the established production conditions and intended for multiple deliveries to ships and floating facilities of various types.

6.4 In order to obtain the Type Approval Certificate (CTO) the manufacturer shall apply to the Register with a request and submit the technical documentation on the material, product, software or production process, as well as the test programme, unless otherwise stated in the relevant parts of the Rules. When reviewing and approving the documentation, the scope of surveys during the manufacture and testing of specimens shall be specified.

6.5 Unless otherwise stated in the relevant parts of the Rules, the Type Approval Certificate (CTO) is issued by the Register upon approval of the technical documentation and satisfactory results of the surveys of the material, product, software or production process submitted.

For the material or product manufactured according to the established production process the Type Approval Certificate (CTO) is issued, having regard to the data on earlier tests, production and operation experience. Account may be taken of the Type Approval Certificate (CTO) of ACS or competent body or results of the tests of a type specimen performed with the participation of the above organizations. The number of documents to be submitted is in each case specified proceeding from the material or product type.

6.6 The Type Approval Certificate (CTO) is issued for a period of up to 5 years.

6.7 Validity of the Type Approval Certificate (CTO) shall not exceed the period of approval of the technical documentation of the item of technical supervision.

6.8 After the expiry of validity, the Type Approval Certificate (CTO) is renewed on request of the manufacturer. The Type Approval Certificate (CTO) may be renewed based on documentation review without inspections and tests, provided that:

.1 the request shall be submitted 2 months prior to the Type Approval Certificate (CTO) expiry;

.2 the manufacturer confirms constancy of design, software and earlier specified technical characteristics of material or product, or that changes in design do not result in the change of work process, loads on the product components, resource or other significant parameters of the product operation;

.3 unless otherwise stated in the relevant parts of the Rules.

6.9 The Type Approval Certificate (CTO) is issued by the Register or the RS Branch Offices. The Type Approval Certificate (CTO) becomes invalid if design of the product, its properties, etc. have been changed without agreement with the Register; operational suitability of the material or product is not provided, requirements of the RS rules and international conventions, which have come into force after its issuance and which prescribe mandatory compliance with the requirements, are not met.

6.10 For welding consumables the Certificate of Approval for Welding Consumables (COCM) is issued, being at the same time the document certifying recognition by the Register of the firm as the manufacturer of welding consumables in accordance with the requirements of the RS rules.

The Certificate of Approval for Welding Consumables (COCM) is issued for a period of up to 5 years subject to its annual endorsement.

6.11 The Welding Procedure Approval Test Certificate (COTПC) is a Register document certifying that a welding procedure used at a shipyard or manufacturer of welded structures has been tested and approved by the Register for application.

The Welding Procedure Approval Test Certificate (COTПC) shall be endorsed not less than once every 2.5 years.

6.12 For software in accordance with Section 12, Part II "Technical Documentation", the Type Approval Certificate for Software (CTOП) is issued.

6.13 Certificate of Type Approval (COTO), Certificate of Type Test (COTИ), EIAPP Certificate are certificates issued by RS in accordance with the provisions of MARPOL 73/78 and applicable IMO resolutions. The certificates shall be drawn up by the RS surveyors and signed by heads of the RS Branch Offices. Validity period of the Certificate of Type Approval (COTO), Certificate of Type Test (COTИ), EIAPP Certificate is not specified.

6.14 The EU RO Mutual Recognition Type Approval Certificate (CTO MR) shall be issued to confirm compliance of the products with the requirements of European Union Recognized Organization (EU RO) Mutual Recognition Procedure for Type Approval¹ (hereafter referred to as "the EU RO MR Procedure"). The Validity period of the EU RO Mutual Recognition Type Approval Certificate (CTO MR) shall not exceed five years. Terms of the EU RO Mutual Recognition Type Approval Certificate (CTO MR) validity and suspension are specified in the EU RO MR Procedure.

6.15 Items of technical supervision for which the EU RO Mutual Recognition Type Approval Certificate (CTO MR) may be issued are specified in the RS Nomenclature. The application limitations and intended use of items of technical supervision are specified in the appropriate Technical Requirements of the EU RO MR Procedure.

6.16 The products approved by another classification society in accordance with the EU RO MR Procedure are permitted to be installed on ships being classed by RS provided they are manufactured during the period of validity of the type approval certificates issued by another classification society, which confirm compliance with the requirements of the EU RO MR Procedure. The EU RO MR Procedure shall not apply, and the products may be prohibited for installation on ships if there are instructions from the Administration that the installation of products approved under the EU RO MR Procedure is not applicable.

6.17 If it is found out during the survey that the material, product or its element do not comply with the EU RO Mutual Recognition Type Approval Certificate (CTO MR), the Register may reject the installation of this material or product on ship. In this regard, the classification society that issued the EU RO Mutual Recognition Type Approval Certificate (CTO MR) shall be immediately notified of the rejection and its reasons."

¹ The EU RO Mutual Recognition Procedure and Technical Requirements for the products can be downloaded from the official website of the EU RO Mutual Recognition Group: www.euromr.org.

"7 SURVEY OF SERIAL PRODUCTS

7.1 GENERAL

7.1.1 The Section contains the regulations on technical supervision during manufacture and tests of serial products at established production.

7.1.2 The Register technical supervision during manufacture and tests of serial materials and products at established production is carried out in compliance with the requirements of the relevant Sections of Parts III "Technical Supervision during Manufacture of Material" and IV "Technical Supervision during Manufacture of Products", and the RS Nomenclature.

7.1.3 Serial products are tested according to the Register approved test program.

7.1.4 The following types of technical supervision shall be provided.

.1 direct technical supervision. All prescribed surveys are carried out by the Register;

.2 survey based on the approval of the quality control system, Tier 1 (CKK 1) of the manufacturer. The technicians of the manufacturer are entrusted to perform check tests and fill in certificates (C3). The manufacturer shall submit the test results to the Register for review as well as certificates (C3) for endorsement;

.3 survey based on the approval of the quality control system, Tier 2 (CKK 2) of the manufacturer. Approval when RS evaluates the manufacturing processes of the manufacturer and/or its suppliers from the point of view of ensuring the performance of surveys and tests prescribed by the RS rules, at all stages of the manufacturing cycle. Depending on the group of technical supervision, an item belongs to, the document certifying the compliance with the requirements shall be either the document of the manufacturer (MC), or the certificate (C3).

7.1.5 The quality control system (CKK) is a set of procedures providing control of compliance of the production with the RS requirements and control of materials and products used by the manufacturer during the serial manufacture.

7.1.6 The quality control system (CKK) shall clarify:

the extent of the required examinations and tests;

to which extent and under which conditions the manufacturer may perform all or part of the required examinations and tests without the presence of the RS surveyor when the certificate (C3) is required.

7.1.7 If the materials or products specified in the Type Approval Certificate (CTO) are manufactured, completely or partially, at different enterprises (production sites), each enterprise (production site) where verifications, examinations and tests prescribed by the RS requirements are planned to be performed, shall be surveyed within the approval of the quality control system. In this case, a separate CKK Certificate can be issued for the surveyed enterprise (production site) in addition to the CKK Certificate issued to the manufacturer – the holder of the Type Approval Certificate (CTO)

In case of the manufacture of materials or products under the Agreements for Contract Manufacturing, the CKK Certificate of the manufacturer — the holder of the Type Approval Certificate (CTO) can include Type Approval Certificates (CTO) issued to the company which has signed the Agreement for Contract Manufacturing. Validity period of such Type Approval Certificates (CTO) shall not exceed the validity period of the Type Approval Certificate (CTO) issued to the manufacturer — the holder of the Type Approval Certificate (CTO).

7.1.8 Serial products shall be supplied with the certificates or documents (C, MC, or C3), depending on the technical supervision group (2 — 5) (refer to Tables 5.2-1 and 5.2-2) of an item and the scheme of technical supervision applicable to the group

7.1.9 In order to evaluate the compliance of the quality control system with the RS requirements, the Register shall verify if there is a type approval for the manufactured products, approval of production processes (if applicable) and perform the initial survey of the manufacturer. In order to verify if the manufacturer observes the requirements to the quality control system, the Register shall perform periodical surveys.

7.1.10 In cases provided by these Rules, the Register can perform unscheduled surveys of the manufacturer and/or its supplier;

7.1.11 The / CKK Certificate may be renewed subject to the survey. The scope of the renewal survey shall:

.1 verify if the conditions of the quality control system approval specified in 7.3 and 7.4 are observed; and

.2 verify that the check tests and examinations of the manufactured production included in the CKK Certificate are appropriately controlled.

7.2 DIRECT TECHNICAL SUPERVISION

7.2.1 As a rule, the survey shall be performed at the firm – manufacturer. During the survey, the manufacturer or applicant, in the presence of the Register representative, shall perform all examinations and tests specified in the preliminary agreed testing program.

7.2.2 In case of satisfactory results of the survey, the Register shall draw up the Certificate (C).

7.3 SURVEY BASED ON APPROVAL OF THE QUALITY CONTROL SYSTEM, TIER 1 — CKK 1

7.3.1 The Register can entrust the manufacturer's technicians with the performance of check tests or their part, which shall be drawn up by the Quality Control System Certificate (CKK 1 Certificate).

7.3.2 The CKK 1 Certificate can be drawn up based on the survey of the manufacturer to the extent and in accordance with Sections 8 and 11, as well as the type approval of the material or product (refer to Section 6).

7.3.3 When drawing up the CKK 1 Certificate, the Agreement on technical supervision shall be signed with the manufacturer. The Agreement on technical supervision shall include the manufacturer's rights and obligations, duties of the Register, and terms of payment to the Register for the implementation of technical supervision.

7.3.4 In order to ensure the compliance with the RS requirements to the manufactured products, drawing up of the supporting documentation, filling in and signing of the RS documents, and also the observance of the CKK 1 requirements, the manufacturer shall be an official who has a competent knowledge of the manufacture and quality control of items of technical supervision.

7.4 SURVEY BASED ON APPROVAL OF THE QUALITY CONTROL SYSTEM, TIER 2 — CKK 2

7.4.1 Application.

7.4.1.1 The procedure of the quality control system (CKK 2) approval is applied to the manufacturers of the materials and products of groups 3, 4 (refer to Tables 5.2-1 and 5.2-2) having the Type Approval Certificate of the Register.

7.4.1.2 Quality control system of the manufacturer shall define the incoming audit of the subcontracted materials and products which are items of the RS technical supervision (those that require the RS certificates or firm's (manufacturer's) documents). There can be the following forms of the incoming audit organization:

materials and products are supplied according to the RS Nomenclature, or the supplier can be included in the quality control system of the manufacturer.

7.4.2 Requirements for quality control system:

7.4.2.1 The manufacturer shall conform to the general requirements for the firms listed in Section 8.

7.4.2.2 The manufacturer shall have an implemented quality management system according to a national or international standard approved by an accredited certification body. The availability of the quality management system certified for compliance with the current version of ISO 9001 is sufficient to meet the condition.

7.4.2.3 The manufacturer shall have a quality control system, current drawings, as well as rules and standards that cover the materials and products to be certified.

7.4.2.4 The manufacturer assumes liabilities for ensuring the compliance of serial products with the type approval certificate.

7.4.2.5 The examinations and tests required by the RS rules are either to be included in procedures of the quality management system of the manufacturer, or to be separate documents agreed with RS.

7.4.2.6 The type of the documents (C/C3/MC/M) confirming the compliance of components of the manufactured products with the RS requirements shall be agreed with RS. If the documents on components do not correspond to the list agreed with RS, by the form and/or contents, such components shall not be allowed to be used.

7.4.2.7 Manufacturers assume liabilities for notification of the Register when changes to the design, manufacturing process or testing are made.

7.4.3 Information and documents to be submitted.

7.4.3.1 The Register shall evaluate the opportunity to perform technical supervision on the basis of approval of quality control system (CKK 2). The manufacturer shall provide the following data for the assessment:

.1 material or product details;
.2 the existing RS approvals of the manufacturer's products;
.3 the procedures relating to the manufacturing process;
.4 data on all production sites where products are manufactured;
.5 a list of material suppliers and main components with an indication of their approval by the Register (as far as required by the RS rules) and the type of technical supervision in each case. Thus, the type of the RS and/or manufacturers' documents these components are supplied with shall be agreed as well;

.6 quality control plans relating to the products and relevant components to be approved according to the requirements to the quality control system. The plans shall detail the types of surveys covered by the RS rules with an indication of which of them are delegated to the manufacturer and which shall be done in the presence of the RS surveyor;

.7 the procedures relating to the quality control, examinations and tests of the materials and products, including the methods, frequency of performance;

.8 forms of reporting documents on tests and examinations, and also forms of documents (MC) specified in 5.4;

.9 the quality management system details;

.10 list of the personnel assigned for:

marking/stamping of products;

tests and examinations (responsible persons);

drawing up of data and information (e.g. declaration of conformity, test reports, etc.);

.11 the manufacturers of items of the RS technical supervision with codes 06010100MK, 06020000, 07010008, 07010009, 0700600, 07020300, 07020301, 08011400MK, 08030000, 08120000MK, 09010000, 09020000, 09024000, 09025000, 09030000, 09040000, 09050000, 09060000, 09060100, 09070000, 09080000, 9100000, 09120000, 10010000, 10020000, 10030000, 11000000 (as regards insulation materials), 12090000 and other items specified in IACS UI SC249 shall submit procedures for purchasing and controlling the supply of asbestos free material and components. This procedure shall include the following:

supplier evaluation and selection methods;

asbestos free verification practices for supplied products;

drawing-up of asbestos-free declarations as supporting documentation for the manufactured item of technical supervision.

.12 any other additional data that the Register may require in order to evaluate the manufacturing process and product quality control.

7.4.3.2 The documentation submitted shall be reviewed regarding the compliance with the requirements of Parts III "Technical Supervision during Manufacture of Materials" and IV "Technical Supervision during Manufacture of Products"..

7.4.4 Manufacturer's survey procedure.

7.4.4.1 After completion of the review of the quality control system documentation set, the survey of the manufacturer's deviations involved in the production process shall be carried out by the Register. The survey shall verify that the incoming check of the materials and components, the manufacture and testing of the items of technical supervision are performed in accordance

with the approved quality control system documentation, and comply with the requirements specified in this quality control system documentation and the RS rules. Upon satisfactory results of the survey, the CKK 2 Certificate shall be issued in which the extent, terms, and provisions of the quality control system are registered.

7.4.4.2 During the periodical survey:

information on products manufactured during the previous period, data on the examinations, inspections and tests performed during the manufacture, data on claims shall be provided; availability of valid Type Approval Certificates (CTO), compliance of drawn up reporting documents on the manufactured materials and/or products shall be verified; check inspections and tests of manufactured products and/or materials shall be performed.".

7 GENERAL REQUIREMENTS FOR FIRMS

6 Section 7 is renumbered Section 8.

8 RECOGNITION OF SERVICE SUPPLIERS

7 Section 8 is renumbered Section 9.

9 RECOGNITION OF TESTING LABORATORIES

8 Section 9 is renumbered Section 10.

10 RECOGNITION OF MANUFACTURERS

9 Section 10 is renumbered Section 11.

11 AUDITS OF FIRMS

10 Section 11 is renumbered Section 12.

12 TECHNICAL SUPERVISION AT THE FIRM (MANUFACTURER)

11 Section 12 is deleted.

16 ALTERNATIVE CERTIFICATION SCHEME

12 Section 16 is deleted.

APPENDIX 1. NOMENCLATURE OF ITEMS OF THE REGISTER TECHNICAL SUPERVISION

13 **Appendix 1** is replaced by the following text:

"APPENDIX 1

NOMENCLATURE OF ITEMS OF THE REGISTER TECHNICAL SUPERVISION

1. Nomenclature of Items of the Register Technical Supervision is a list of materials, products, production processes, and software regulated by the RS rules.

2. Definitions and abbreviations given in Section 1 of Part I "General Regulations for Technical Supervision" of these Rules are used in the RS Nomenclature, as well as:

K — branding of items of technical supervision;

MK — item subject to technical supervision in compliance with the requirements of international conventions.

3. The RS Nomenclature is presented in the form of the table comprising 6 columns.

Column 1: "Code of item of technical supervision" — identification code of the material, product, production process or software is indicated, which consists of eight characters grouped in the following groups, each group consisting of two characters:

1st group — part of the RS rules, serial number;

2nd group — groups of machinery, systems, constructions, materials, production processes, software;

3rd group — types of machinery, systems, constructions, materials;

4th group — parts, assemblies;

5th group ("letter group") — items of technical supervision covered by the international conventions.

Column 2 "Item of technical supervision" — name of the material, product, production process or software according to the RS rules is indicated.

Column 3 "Group of item of technical supervision" — number of group of item of technical supervision is indicated according to which the technical supervision type is assigned. Forms of technical supervision for the groups are given in Tables 5.2-1 and 5.2-2.

Column 4 "Other documents issued by RS" — the RS documents issued in addition to (Certificate of Type Approval (COTO), Certificate of Type Test (COTI), EIAPP Certificate) or instead of (Type Approval Certificate for Fire-Proof Division (CTPK), Recognition Certificate for Manufacturer (СПИ), Certificate of Approval for Welding Consumables (COCM)) the ones specified in Tables 5.2-1 and 5.2-2 or issued on voluntary basis according to other standards (The EU RO MR Procedure) are indicated.

Column 5 "Branding" — obligation of branding of items of technical supervision in compliance with the Instructions on Branding of Items of the Register Technical Supervision (refer to Appendix 2) is indicated.

Column 6 "Notes" — additional information (requirements) is indicated.

4. RS Nomenclature contains the following sections:

01000000 Hull

02000000MK Life-saving appliances

03000000 Arrangements, equipment, outfit

03000000MK Signal means

04000000MK Radio equipment

05000000MK Navigational equipment

06000000 Fire protection

07000000 Machinery installations

08000000 Systems and piping

09000000 Machinery

10000000 Boilers, heat exchangers and pressure vessels

11000000 Electrical equipment

12000000 Refrigerating plants

13000000 Materials

14000000 Welding consumables

14000000MK Cargo handling gear

15000000 Automation
16000000 Fiber-reinforced plastic ships
17000000 Ships carrying liquified gases in bulk (LG carriers)
18000000 Nuclear ships and nuclear support vessels
19000000MK Equipment and appliances for prevention of pollution from ships
20000000 Software

Code of item	Item of technical supervision	Technical supervision of the Register			
		Group of item of technical supervision (1 – 5)	Other documents issued by RS	Branding	Remarks
1	2	3	4	5	6
	HULL				
01010000	Hull structures	5			Group 5 – only if sections are constructed out of the shipyard
01020000	Structures of superstructures and deckhouses	5			Group 5 – only if sections are constructed out of the shipyard
1030000	Seatings of machinery and arrangements	5			Group 5 – only if sections are constructed out of the shipyard
02000000MK	LIFE-SAVING APPLIANCES				
02010000MK	Lifeboats and launching appliances				
02010002MK	release mechanisms and lifeboat release and retrieval system	3			
02010100MK	Launching appliances for lifeboats, rescue boats, fast rescue boats and liferafts				
02010101MK	launching appliances using falls and winches for lifeboats	3			
02010102MK	launching appliances for free-fall lifeboats	3			
02010103MK	launching appliances for rescue boats	3			
02010104MK	launching appliances for fast rescue boats	3			
02010105MK	launching appliances for liferafts	3			
02010200MK	Lifeboats:				

02010201MK	partially enclosed lifeboats	3			
02010202MK	totally enclosed lifeboats	3			
02010203MK	totally enclosed lifeboats with a self-contained air support system	3			
02010204MK	fire-protected totally enclosed lifeboats	3			
02010305MK	free-fall lifeboats	3			
02010306MK	free-fall lifeboats with a self-contained air support system	3			
02010307MK	fire-protected free-fall lifeboats	3			
02020000MK	Liferafts, rescue boat, fast rescue boats:				
02020200MK	Arrangements for launching and raising for liferafts, lifeboats and rescue/fast rescue boats	3			
02020300MK	Hydrostatic release units	3			
02020600MK	Liferafts:				
02020601MK	inflatable liferafts	3			
02020602MK	rigid liferafts	3			
02020603MK	self-righting liferafts	3			
02020604MK	canopied reversible liferafts (with two canopy canopies)	3			
02020700MK	Rescue boats:				
02020701MK	rigid rescue boats	3			
02020702MK	inflated rescue boats	3			

02020703MK	combined rescue boats	3			
02020800MK	Fast rescue boats:				
02020801MK	rigid fast rescue boats	3			
02020802MK	inflated fast rescue boats	3			
02020803MK	combined fast rescue boats	3			
02030000MK	Means for bringing lifeboats and liferafts against ship's side and holding them alongside, skates	1			
02040000MK	Embarkation ladders, lifelines	3			
02050000MK	Lifebuoys	3			
02050100MK	Self-igniting lights	3			
02050200MK	Self-activating smoke signals	3			
02050300MK	Buoyant lifelines	3			
02060000MK	Lifejackets, immersion suits, anti-exposure suits and thermal protective aids				
02060100MK	Lifejackets:				
02060101MK	non-inflatable lifejackets	3			
02060102MK	inflatable lifejackets	3			
02060200MK	Immersion suits				
02060201MK	immersion suits with thermal insulation	3			
02060202MK	immersion suits without thermal insulation	3			
02060300MK	Anti-exposure suits	3			
02060400MK	Thermal protective aids	3			
02070000MK	Lifejacket lights	3			
02080000MK	Line-throwing appliances	3			

02090000MK	Equipment of survival craft, rescue boats/fast rescue boats				
02090001MK	lifeboat steering gears	1			
02090002MK	masts with sails and stays	1			
02090003MK	oars, thole pins or crutches, buoyant oars	1			
02090004MK	cap or plug of drain valves of lifeboats	1			
02090005MK	lifelines, handrails	1			
02090006MK	boarding ladder of lifeboat and boarding ramp of liferaft	1			
02090007MK	buoyant rescue quoit of liferafts with buoyant line	1			
02090008MK	lifeboat manual draining pumps	1			
02090009MK	protective covers	1			
02090010MK	searchlights of lifeboats and rescue boats	2			
02090011MK	life-saving signals table	1			
02090012MK	signal whistles	1			
02090013MK	boat compasses	3			
02090014MK	internal and external lights of liferafts and lifeboats, lights of rescue/fast rescue boats	3			
02090015MK	repair outfit (with instructions) for inflatable liferafts	1			
02090016MK	waterproof electric torch	3			
02090017MK	food ration	1			
02090018MK	fresh water	1			

02090019MK	valves for inflatable liferafts and inflated rescue/fast rescue boats	1			
02090020MK	first-aid outfit	1			
02110000MK	Sea activated power sources for lifejacket and liferaft lights and lifebuoy self-igniting lights	2			
02120000MK	Marine evacuation systems	3			
02130000MK	Symbols for use in accordance with SOLAS-74 as amended	1			
02140000MK	Means of rescue	3			
03000000	ARRANGEMENTS, EQUIPMENT, OUTFIT				
03010000	Rudder and steering gear:				
03010100	rudder stocks including their flanges	5			
03010101	rudder stock bearings	1			
03010102	parts of roller laying of steering gears	1			
03010103	chains of steering ropes	1			
03010200	rudder axles including their flanges	1			
03010201	parts of connections of rudder axles with sternframe	1			
03010300	Nozzle rudder in assembly:	5			
03010301	pintles	1			
03010302	pintle bushes	1			
03010303	parts for coupling rudder stock with nozzle rudder	1			
03010304	limiters of putting nozzle rudder over either side	1			
03010400	rudder blade	5			

03010401	pintles	1			
03010402	pintle bushes	1			
03010403	couplings	1			
03010404	limiters of putting rudder blade over either side	1			
03010500	tillers	1			
03010501	parts of coupling tiller with rudder stock	1			
03010600	rudder quadrants	1			
03010601	parts for coupling quadrant with rudder stock	1			
03010700	Hull and foundation of main steerable podded electrical propulsion units				
03010701	parts of hull and propulsion block hull	5			
03010702	parts of mounting block	5			
03020000	Anchor arrangement:				
03020005	anchor hawses	1			
03020100	anchors	4M			
03020300	anchor stoppers	2			
03020400	device for securing and releasing the inboard end of the chain cable or rope	2			
03030000	Mooring arrangement:				
03030001	bollards, cleats, fairleaders, hawses, rollers and stoppers	2			
03040000	Towing arrangements:				
03040001	bits, bollards, fairleaders, rollers and stoppers	2			
03040002	Tow hooks and towing rails with fastenings for securing these parts to ship's hull tow line releasing device	3			
03040003	snatch-blocks	2			
03040004	towing rails	1			

03040100MK	Emergency towing arrangement:				
03040101	chain devices	2			
03040102	tow lines	2			
03040103	tow securing arrangements	2			
03050000	Signal masts:				
03050001	metal, wooden and glass-reinforced plastic rigging fixed gear of masts and their standing rigging	1			
03050002	loose gear of standing rigging	1			
03060000	Openings in hull, 1st and 2nd tiers of superstructures and deckhouses and their closing appliances				
03060100	side and flush deck scuttles, round and square, wheelhouse windows (refer also to code 06010006MK)	3			
03060101	glasses for side and flush deck scuttles, round and square, wheelhouse windows	1			
03060200	In bottom side shell plating doors	3			
03060300	outside doors in superstructures and deckhouses	3			
03060400	covers of companion hatches, skylights and ventilation trunks	3			
03060500	ventilation pipes	1			
03060700	doors in watertight bulkheads	3			
03060800	hatch covers of dry cargo holds, holds fitted for alternate carriage of bulk liquid and dry cargoes, twendecks, cargo tanks	5			
03060801	tank manhole covers	1			
03070000	Equipment of spaces:				

03070001	plating, hold battens, linings in cargo holds	1			
03070005	cellular guide members in holds of container carriers	1			
03070200	doors in ship's spaces on escape routes	1			
03070300	stairways and vertical ladders	1			
03070400	guard rails, bulwark and catwalk bridges	1			
03070600	devices for securing movable decks, platforms, ramps and similar structures	1			
03070700	low-location lighting systems (photoluminescent, electrically powered)	2			
03080000	Grain fittings:				
03080001	removable metal bulkheads	1			
03080003	shroud wire ropes	1			
03080004	gears of shrouds	1			
03090000	Arrangement for attachment of timber deck cargo	1			
03100000	Items made of ropes for all applications	1			
03110000	Emergency outfit:				
03110001	thrummed mats, armoured mats with outfit	1			
03120000	MODU jacking frame of self-elevating system:				
03120001	sliders and their guides	5			
03120002	catches and their bearers	5			
03120003	yokes and their latches	5			
03120004	securing plates of hydraulic cylinders	5			
03120005	support screws with nuts	5			
03120006	jack frames	5			
03120007	rack-and-pinion shafts	5			
03120008	pinions and wheels	5			

03120009	shafts	5			
03120010	fastenings	2			
03130000	MODU arrangements for lifting and lowering columns of submersible sea water pumps				
03130001	columns and guides	2			
03130002	column support	2			
03130003	stoppers	2			
03140000	MODU fixing arrangements:				
03140001	plates	2			
03140002	sliders	2			
03140003	screws and nuts	2			
03150000	Parts of lifting appliances for shipborne barges (lugs, eye plates, eyes, shackles, grips)	1			
03160000	Securing devices of general cargo on board the ships				
3160100	lashings (rope, chain, bar, strip, wire)	3			
03160200	tightening devices (turnbuckles, bridge fittings)	3			
03160300	burtresses and shores	3			
03160400	locks (automatic and semi-automatic stoppers, stacking cones with locking pin)	3			
03160500	stacking cones (single, double, etc.)	3			
03160600	penguin hooks	3			
03160700	joint rings, lashing plates	3			
03160800	pedestal and flush sockets, dove-tail type sockets	3			
03170000MK	Pilot transfer arrangements				
03170001MK	pilot ladder	3			
03170002MK	mechanical pilot hoists	3			

03180000MK	Means of embarkation and disembarkation:				
03180001MK	accomodation ladders and gangways	3			
03000000MK	SIGNAL MEANS				
03010000MK	Navigation lights	3			
03020000MK	Flashing lights	3			
03030000MK	Sound signal means	3			
03040000MK	Pyrotechnic signal means	3			
03050000MK	Signal shapes	1			
04000000MK	RADIO EQUIPMENT				
04020000	Radiotelephone communication facilities				
04020900	VHF radiotelephone station	2			
04021100	UHF radiotelephone station	1			
04021200MK	two-way VHF radiotelephone apparatus for communications with aircraft	3			
04030500	portable two-way radiotelephone station	1			For radiotelephone stations intended for emergency fire brigades, a document confirming explosion-proof or intrinsically safe type of radiotelephone stations shall be submitted
04040000MK	Command broadcast facilities (command broadcast apparatus, public address system, microphone posts)	3			
04070000	Aerial	1			
04090000	Satellite radio communication equipment	2			
04110000MK	GMDSS radio equipment:				
04110100MK	digital selective calling (DSC) encoder	3			
04110200	facsimile device	1			
04110300MK	terminal printing device	3			
04110400MK	telephony and NBDP receiver	3			
04110500MK	telephony, DSC and NBDP transmitter	3			
04110600MK	VHF radiotelephone station	3			
04110700MK	MF radiotelephone station	3			

04110800MK	MF/HF radiotelephone station	3			
04110900MK	direct-printing apparatus of improved fidelity	3			
04111100MK	radio equipment power supply device, automatic battery charger	3			
04120000MK	VHF radio installation (set)	3			
04130000MK	MF radio installation (set)	3			
04140000MK	MF/HF radio installation (set)	3			
04150000MK	ship earth station of the INMARSAT service	3			
04150100MK	EGC receiver	3			
04150200MK	ship security alert system (SSAS)	3			
04150300MK	ship earth station of the IRIDIUM service				
04160000MK	COSPAS-SARSAT satellite EPIRB	3			
04180000MK	NAVTEX service receiver	3			
04190000MK	enhanced group calling (EGC) receiver	3			
04200000MK	DSC watch receiver	3			
04210000MK	HF direct-printing radiotelegraph receiver	3			
04220000MK	radar transponder	3			
04220100MK	ship's and survival craft AIS search and rescue transmitter (AIS-SART)	3			
04230000MK	two-way VHF radiotelephone apparatus	3			
04400000	radio equipment not mentioned above	1			

04410000	Ship security surveillance TV system (video surveillance system)	2			
05000000MK	NAVIGATIONAL EQUIPMENT				
05010000MK	Magnetic compasses (standard, spare, lifeboat)	3			
05010100MK	Transmitting heading devices (THD)	3			
05020000MK	Gyrocompasses	3			
05030000MK	Logs (speed and distance measuring devices)	3			
05040000MK	Deck logs	2			
05050000MK	Echo sounders	3			
05060000MK	Heading control systems/track control systems	3			
05070000MK	Integrated navigation systems	3			
05080000	Combined ship's workstations	1			
05100000MK	Gyro-magnetic compasses and gyro-azimuths	3			
05110000	Unified timing systems	1			
05120000MK	Rate-of-turn indicators	3			
05130000MK	Electronic chart display and information system (ECDIS)	3			
05140000MK	Radio navigation equipment:				
05140210MK	radar equipment intended for ships below 500 gross tonnage	3			
05140220MK	radar equipment intended for ships below 10000 gross tonnage	3			
05140230MK	radar equipment intended for ships 10000 gross tonnage and upwards	3			

05140240MK	radar ice display	3			
05140250	radar equipment intended for the ships below 300 gross tonnage	2			
05140300MK	radio navigation system receivers	3			
05140400MK	Ship's radar reflectors (shipborne and for life-saving appliances)	2			
05150000MK	Equipment of the universal automatic identification system (UAIS), class "A"	3			
05150000	Equipment of the automatic identification system (AIS), class "B"	2			
05160100MK	Voyage Data Recorders (VDR)	3			
05160200MK	Simplified voyage data recorders (S-VDR)	3			
05170000MK	Sound reception systems	3			
05180000	Alarm and communication systems (for OMBO ships)	1			
05180100MK	Bridge alert management (BAM) system	3			
05190000MK	Bridge navigational watch alarm system (BNWAS)	3			
05200000MK	Equipment for long-range identification and tracking of ships (LRIT)	3			
5210000	Remote camera systems	1			
05220000	Hydrometeorological complexes	2			Intended for use on the FOP and the ship with distinguishing mark OMBO in the class notation
05220100MK	Night vision equipment HSC	3			
5220100	HSC night vision equipment	2			

05300000	Navigational equipment wich is not mentioned above	1			
06000000	FIRE PROTECTION				
06010000MK	Structural fire protection				
06010100MK	fire-proof bulkheads, decks and ceilings:				
06010101MK	A-60 class	2			
06010102MK	A-30 class	2			
06010103MK	A-15 class	2			
06010105MK	B-15 class	2			
06010106MK	B-0 class	2			
	decks:				
06010107MK	A-60 class	2			
06010108MK	A-30 class	2			
06010109MK	A-15 class	2			
	ceilings:				
06010111MK	B-15 class	2			
06010112MK	B-0 class	2			
06010200MK	fire-proof doors:				
06010201MK	A-60 class	2			
06010202MK	A-30 class	2			
06010203MK	A-15 class	2			
06010204MK	A-0 class	2			
06010205MK	B-15 class	2			
06010206MK	B-0 class	2			
06010300MK	C class bulkheads, doors	2			
06010400	H class structures				
06010401	H-120	2			
06010402	H-60	2			
06010403	H-0	2			
06010005MK	Cable transit, pipe and duct penetrations	2			
06010006MK	Windows and sidescuttles (refer to regulations II-2/4.5.2.3 and II-2/9.4.1.3 of SOLAS 74)	2			

06010207MK	Arrangements for automatic closing of fire doors	3			
06020000MK	Materials, deck coverings, paints, varnishers				
06020100MK	Materials				
06020101MK	Insulating materials (plates, panels, mats, braided cords, etc.)	3			
06020102MK	Facings	3			
06020103MK	Covering fabrics, curtains, draperies etc.	3			
06020104MK	Bedding components	3			
06020200MK	Deck coverings (linoleums, carpets)	3			
06020300MK	Paints, varnishers for exposed interior surfaces	3			
06020400MK	Primary deck coatings	3			
06030000MK	Fire-Fighting Systems				
06030200MK	Sprinkler system	3			
06030500MK	Drenching system	3			
06030600MK	Foam fire-extinguishing system	3			
06030700MK	Fixed local application fire-extinguishing system for use in machinery spaces	3			
06030800MK	Carbon dioxide system as well as systems containing fire-extinguishing gas in cylinders	3			
06031100MK	Powder system	3			
06031200MK	Aerosol system	3			
06050000MK	Fire-Fighting System components				
06050200MK	Sprinkler heads and control detection devices	3			
06050300MK	Spray nozzles, monitors	3			
06050600MK	High-expansion foam generators	3			
06050800	Mixers of foam systems	3			

06060000	Fire-fighting outfit:				
06060100MK	Fire hoses complete with couplings	1			
06060101MK	Fire hoses without connection fittings	1			
06060200MK	Fire hoses nozzles	3			
06060300MK	Air-foam nozzles	3			
06060400MK	Portable foam generators	3			
06060500MK	Portable foam sets	3			
06060800MK	Water fog applicators	3			
06060900MK	Portable fire extinguishers	3			
06061000	Foam fire extinguishers of at least 45 l capacity and foam fire extinguishers of at least 135 l capacity	3			
06061100	Carbon dioxide or dry powder fire extinguishers of at least 16 kg, carbon dioxide or dry powder fire extinguishers of at least 45 kg	3			
06061300	Blankets	1			
06061400MK	Fireman's outfit (clothing, boots, gloves, helmet)	2			
06061500MK	Portable safe lantern	2			
06061600MK	Self-contained breathing apparatus, emergency escape breathing devices	3			
06061700MK	Flexible fireproof lifeline	2			
06061800MK	Protective clothing for work with dangerous goods	1			
06061900	Portable fire motor pumps	3			
06062000MK	International shore connection	1			
06062100MK	Foam concentrate, powder, special gas and other fire-extinguishing substances	3			
06062300MK	Gas analyser for vapours of flammable liquids, gases and oxygen content	3			
06080000	MODU gas detection and alarm system	3			

06090000MK	Smoke detection system operating on the principle of air sampling from spaces	3			
07000000	MACHINERY INSTALLATIONS				
07010000	Shafting:				
07010007	shafting connecting bolts	2			
07010008	propeller shaft cone sealings	1			
07010009	CPP-shaft flange connection sealings	1			
07010100	thrust shafts	5			
07010200	intermediate shafts	5			
07010300	propeller and stern shafts	5			
07010301	propeller shaft liners	5			
07010400	thrust bearings	1			
07010500	journal bearings	1			
07010600	shaft couplings	2			
07020000	Stern-tubes:				
07020100	tubes	1			
07020200	stern bearings, including strut bearings	2			
07020300	seals	2			
07020301	sealing components (collars, rings)	1			
07020302	packing gland	1			
07020303	pneumatic stop	1			
07030000	Propellers:				
07030100	fixed-pitch propellers	5			
07030101	bosses	4			
07030102	blades	4			
07030103	blade securing items	2			
07030200	controllable pitch propellers	5			
07030201	boss	2			
07030202	blades	4			
07030203	blade securing items	2			
07030204	crankpin rings	1			
07030205	crosshead	1			

07030206	slide block	1			
07030207	hydraulic cylinder	3			
07030208	CPP blade seling	1			
07030210	power hydraulic system	4			
07030212	CPP control system	4			
07030220	pitch changing mechanism	4			
07030221	pitch changing mechanism shaft, oil transfer block shaft	1			
07030222	hydraulic cylinder	3			
07030223	piston and securig items	1			
07030224	push-pull rods	1			
07030225	pitch changing mechanism control equipment (actuating)	3			
07030300	voith-schneider propellers:	4			
07030301	propeller housing	2			
07030302	rotor housing	1			
07030303	rotor shaft	2			
07030304	blade	2			
07030305	central support	1			
07030306	control leler	1			
07030307	gears and pinions	2			
07030308	driving shaft	2			
07030400	Steerable propellers:	5			
07030401	propeller	5			
07030402	shafts	5			
07030403	pinions	3			
07030404	housings	3			
07030407	propeller shaft seals	3			
07030408	steering tube sealing	3			
07030409	thrust bearings	2			
07030410	steady bearings	2			
07030411	control system	3			
07030412	steering gear wheel and pinion	3			

07030413	steering gear bearing	3			
07030414	motors and pumps of hydraulic system of steering gear	3			
07030415	flexible hoses of hydraulic and lubrication system	2			
07030500	Thrusters	3			
07030600	Main steerable podded electrical propulsion units	5			
07030601	propulsion unit	5			
07030602	propeller	5			
07030603	shafts	5			
07030604	thrust bearing	2			
07030605	journal bearing	2			
07030606	propeller shaft seals	2			
07030607	hull sealing of propulsion unit	2			
07030608	hydraulic steering systems	1			
07030609	machineries of hydraulic steering system	2			
07030610	hydraulic systems of steering brake gear	1			
07030611	machineries of hydraulic systems of steering brake gear	2			
07030612	hydraulic systems of shaft brake gear	1			
07030613	machineries of hydraulic systems of shaft brake gear	2			
07030614	cooling air unit	1			
07030615	machineries of cooling air unit	1			
07030616	lubrication oil treatment (cleaning and control) unit	1			
07030617	machinery of lubrication oil treatment (cleaning and control) unit	1			

07030618	steering gear wheel	3			
07030619	steering gear bearing	3			
07030620	swivel of lubrication and drainage systems	1			
07030621	flexible hoses of hydraulic and lubrication systems	2			
07030622	connecting bolts of hull, shafts and steering gear rings	2			
07030623	technical condition monitoring system for thrust and journal bearings	2			
07030624	hydraulic emergency control system	2			
07030700	Water jets	4			
07040000	Snock absorbers	1	CTO MR		
07050000	Bulkhead seals and glands	2			
08000000	SYSTEMS AND PIPING				
08010000	Ship's systems:				
08011400MK	inert gas system:				
08011410MK	inert gas generator	4			
08011420MK	water seal of the inert gas system	2			
08011430MK	scrubber of the inert gas system	4			
08011440MK	instruments and alarm of the inert gas system	4			
08011450MK	nitrogen generator of the inert gas system	4			
08011460MK	air compressor for the nitrogen generator	3			
08011470MK	nitrogen receiver	3			
08030000	Valves:				
08030100	valves intended for Class I and II pipelines	3			
08030200	valves intended for Class III pipelines	1	CTO MR		
08030230	bottom and side valves	2			

08030240	remote-controlled valves	2	CTO MR		1) For products approved within the EU RO MR Procedure, limitations stated in the EU RO MR Technical Requirements shall be taken into account
08030300	fittings pipes and pipelines	1			
08030400	ventilation fittings:				
08030400MK	type A ventilation fire dampers	2			
08030410	steel fire dampers	1			
08030420	type H ventilation fire dampers	2			
08030430	closing ventilation heads and shutters	1			
08030500MK	tank venting and cargo vapour emission systems	3			
08030510MK	automatic closing devices for air pipes	2	CTO MR		
08030600	Flexible joints	2			
08030700	Expansions pieces and mechanical connections of pipes:				
08030710	mechanical connections of pipes	2	CTO MR		
08030720	expansion pieces	2	CTO MR		
08030800	Hoses:				
08030800MK	Cargo hoses of chemical and gas carriers	3			
08030900	Cargo hoses of oil tankers	3			
08031000	Oil fuel and lubricating oil receiving/transfer hoses	3			
08031100	Appliances and systems for oil product transfer afloat and from A point berth	3			
08031110	Cargo vapour transfer hoses	2			
08031200	Gauges:				
08031240	thermometers	1	CTO MR		
08031250	manometers	1	CTO MR		
08031260	level gauges	1	CTO MR		
08031270	discharge gages and flowmeters	1	CTO MR		

08031300	Sleeves for hoses according to codes 08030800, 08030900, 08031000 and 08031100	2			
08040000	Spark arresters (spark extinguishers), dampers of exhaust gas systems, boiler and incinerator uptakes	1	CTO MR		
09000000	MACHINERY				
09010000	Internal combustion engines of power output 55 kW and over (main, auxiliary and emergency);	4/5	EIAPP Certificate		1) Engines with Dcyl ≤ 300 mm — Group 4; Engines with Dcyl > 300 mm — Group 5 2) The list of the certificates and documents that shall be issued for the internal combustion engines components (0910001 — 09011906) is listed in Appendix 8 to Section 5, Part IV of these Rules 3) EIAPP Certificate for non-emergency engines with power output 130 kWt and over
09010001	welded bed plates	4			Refer to remarks for 09010000
09010002	welded crankcases	4			Refer to remarks for 09010000
09010003	cylinder blocks (gray cast iron (GJL)/spheroidal graphite cast iron (GJS)) of cross head engines	1			For those parts filled with cooling water and having the function of containing the water which is in contact with the cylinder or cylinder liner, hydraulic testing is required
09010004	welded cylinder blocks of crosshead engines	4			
09010005	cylinder liners (jackets), Dcyl > 300 mm	1			For those parts filled with cooling water and having the function of containing the water which is in contact with the cylinder or cylinder liner, hydraulic testing is required
09010006	cylinder covers (GJL/GJS) Dcyl > 300 mm	1			
09010007	cylinder covers (forged/cast steel) Dcyl > 300 mm	4			Refer to remarks for 09010000
09010008	tie rods of cross head engines	4			Refer to remarks for 09010000
09010009	piston crown (cast steel, forged steel)	4			Refer to remarks for 09010000

09010011	piston rods, Dcyl > 400 mm	3			Refer to remarks for 09010000
09010012	connecting rods	4			Refer to remarks for 09010000
09010013	crossheads	4			Refer to remarks for 09010000
09010014	crankshaft: made in one piece, semi-built	4			Refer to remarks for 09010000
09010015	crankcases (GJL/GJS), power > 400 kW/cyl	1			Refer to remarks for 09010000
09010016	crankcase safety valves	3			Refer to remarks for 09010000
09010021	Hydraulic power drive for outlet valves assembly, for crosshead engines	1			Refer to remarks for 09010000
09010022	Hydraulic accumulators (of common rail fuel or servo oil system), with a capacity of > 0,5 l	1			Refer to remarks for 09010000
09010023	High pressure servo oil system	1			Refer to remarks for 09010000
09010024	Engine-driven hydraulic pumps > 800 kW/cyl	1			Refer to remarks for 09010000
09010025	Electrically-driven hydraulic pumps	1			Refer to remarks for 09010000
09010026	Hydraulic pipes and high pressure flexible joints	1			Refer to remarks for 09010000
09010032	Air coolers (Dcyl > 300 mm)	1			Refer to remarks for 09010000
09011600	Bearings:				Refer to remarks for 09010000
09011601	main bearings (power > 800 kW/cyl)	1			Refer to remarks for 09010000
09011602	bottom-end bearings (power > 800 kW/cyl)	1			Refer to remarks for 09010000
09011604	crosshead bearings (power > 800 kW/cyl)	1			Refer to remarks for 09010000
09011606	Thrust bearing bedplate	4			Refer to remarks for 09010000
09011700	Securing items:				Refer to remarks for 09010000
09011701	bolts and studs of main bearings (Dcyl > 300 mm)	1			Refer to remarks for 09010000
09011702	bolts and studs of bottom-end bearings (Dcyl > 300 mm)	1			Refer to remarks for 09010000
09011703	bolts and studs of cylinder covers (Dcyl > 300 mm)	1			Refer to remarks for 09010000

09011704	Coupling bolts for crankshaft	4			Refer to remarks for 09010000
09011900	Oil fuel equipment				Refer to remarks for 09010000
09011901	casings and covers of high pressure fuel	1			Refer to remarks for 09010000
09011902	fuel valves	1			Refer to remarks for 09010000
09011903MK	high pressure oil fuel injection pipes	1			Refer to remarks for 09010000
09011906	Common rail system: (For internal combustion engines with power output over 1000 kW) high pressure oil fuel injection pump, fuel valves, high pressure oil fuel injection pipes for the accumulator fuel oil system	1			Refer to remarks for 09010000
09013000MK	Rescue boat engines	3			
09014000MK	Lifeboat engines	3			
09015000	Diesel generators	4			
09016000	Diesel engine geared sets	4			
09017003MK	SCR system to reduce NO _x emissions (IMO resolution MEPC.198(62))	4			
09020000	Internal combustion engines of power output 55 kW and less (drives of generators, fire pumps, compressors, engines of lifeboats and rescue boats)				
09020100	auxiliary engines	3			
09020200MK	Lifeboat engines	3			
09023000MK	Rescue boat engines	3			
09024000	Diesel generators	3			
09025000	Diesel engine geared sets	0			
09030000	Main steam turbines and electric generator turbines:	4			
09030001	turbine casings	3			
09030002	nozzle boxes	3			
09030003	manoeuvring gear casings	3			
09030004	nozzles	2			

09030005	diaphragms	3			
09030006	discs	3			
09030007	blades	3			
09030008	gland seals	3			
09030009	rotors and shafts	3			
09030010	bearings	3			
09030011	couplings	3			
09030012	shrouds and lashing wire	2			
09030013	Rescue boat engines	3			
09040000	Steamauxiliary turbines:	4			
09040001	turbine casings	3			
09040002	nozzle boxes	3			
09040003	nozzles	3			
09040004	discs	3			
09040005	blades	3			
09040006	rotors and shafts	3			
09040007	bearings	3			
09050000	Main gas turbines and electric generator gas turbines:	4			
09050001	turbine casings	3			
09050002	compressor housings	3			
09050003	combustion chamber casings	3			
09050004	diaphragms	3			
09050005	turbine rotors	3			
09050006	turbine discs	3			
09050007	compressor rotors	3			
09050008	compressor discs	3			
09050009	turbine blades	3			
09050010	compressor blades	3			
09050011	shrouds, lashing wire	2			
09050012	flame tube of combustion chambers	3			
09050013	regenerators	3			
09050014	gland seals	3			
09050015	bearings	1			

09050016	Rescue boat engines	3			
09050017	Bolts for turbine split casing joints	3			
09050018	Bolts for compressors split casing joints	3			
09060000	Main machinery reduction gear:	4			
09060001	reduction gear casing	1			
09060002	wheels and pinions	3			
09060003	reduction gear shafts	3			
09060004	detachable half-couplings of shafts	3			
09060005	bolts	1			
09060006	sliding bearings	1			
09060100	Disengaging, flexible couplings of main machinery:	4			
09060101	coupling casing	1			
09060102	coupling shafts	1			
09060103	driving parts of couplings	1			
09060104	driven parts of couplings	1			
09060105	components of flexible couplings	1			
09060106	sliding bearings	1			
09070000	Auxiliary machinery reduction gear:	3			
09070001	casings of reduction gear and couplings	1			
09070002	wheels and pinions	1			
09070003	Shafts of reduction gears and couplings	3			
09080000	Auxiliary machinery				
09080101	starting air compressors, power output of the drives < 100 kWt	3			
09080102	starting air compressors, power output of the drives ≥ 100 kWt	4			
09080103	compressors intended for general purpose use	1	CTO MR		1) For products approved within the EU RO MR Procedure, limitations stated in the EU RO MR Technical Requirements shall be considered

09080200	turbochargers	1/3			1) Group 1 — for turbochargers of category A 2) Group 3 — for turbochargers of categories B and C
09080300	main and auxiliary boiler blowers	4			
09080401	Pumps, power capacity of drives < 100 kWt	3			Pumps intended for the systems covered by Parts VI, VIII, XII of the Rules for the Classification and Construction of Sea-Going Ships
09080402	Pumps, power capacity of drives ≥ 100 kWt	4			Pumps intended for the systems covered by Parts VI, VIII, XII of the Rules for the Classification and Construction of Sea-Going Ships
09081600	steam-jet ejectors of condensers	3			
09081800	oil fuel and lubricating oil separators	3			
09081900	bilge ejectors	3			
09090000	Parts of machinery listed under 09080000:				
09090100	piston pumps and compressors				
09090101	cylinder blocks	1			
09090102	cylinder liners	1			
09090103	pistons	1			
09090104	piston rods	1			
09090105	connecting rods	1			
09090106	crankshafts	2			
09090200	centrifugal and rotary pumps and compressors				
09090201	shafts	1			
09090202	impellers, rotors	1			
09090203	casings	1			
09090300	screw and gear pumps and compressors				
09090301	shafts, screws	1			
09090302	casings	1			
09090303	screw pump housing	1			
09090304	pinions	1			
09090400	oil fuel and lubricating oil separators				
09090401	bowl bodies, shafts	1			
09090402	bowl discs	1			

09090403	pinions	1			
09090500	blowers:				
09090501	shafts and rotors	1			
09090502	gland seals	1			
09090503	casings	1			
09090504	bearings	1			
09100000	Deck machinery:				
09100100MK	steering gear (engines):	4			
09100101	rudder stock yoke	1			
09100102	cylinders	2			Additionally, hydraulic test reports shall be submitted
09100103	driven shafts	1			
09100104	pinions, wheels, tooth rims	1			NDT reports shall be submitted
09100105	pistons with rods	1			
09100106	safety valves	1			
09100200	windlass and anchor capstans:	4			
09100201	intermediate and output shafts and spindles	2			
09100202	chain sprockets	2			
09100203	pinions, gears of power drives	2			NDT reports shall be submitted
09100204	disengaging and safety clutches	1			
09100205	band and automatic brakes	1			
09100300	mooring capstans and winches:	2			
09100301	spindles, output shafts	2			
09100302	pinions, gears of power drives	2			NDT reports shall be submitted
09100303	safety clutches	2			
09100304	automatic brakes	1			
09100400	towing winches:	3			
09100401	output and intermediate shafts	2			
09100402	pinions, gears of power drives	2			NDT reports shall be submitted

09100403	rope tightening control devices, rope layers	1			
09100404	brakes	1			
09100500MK	boat winches:	3			
09100501	output and intermediate shafts	2			
09100502	pinions, gears of power drives	2			NDT reports shall be submitted
09100503	automatic and hand brakes	2			
09100504	stoppers	2			
09110000	mechanical telegraphs	3			
09120000	Fans:				
09120010	machinery spaces, foam and smothering fire extinction stations, refrigerated spaces	1/2/3			Group 1 — for fans with power output of 2 kWt inclusive Group 2 — for the fans with power output from 2 kWt to 100 kWt inclusive Group 3 — for the fans with power output of 100 kWt and over
09120020	machinery of cargo pump rooms, holds for carriage of dangerous goods and motor vehicles, helicopters sheds	3			
09120030	machinery portable for gas freeing fans for enclosed spaces on oil and chemical tankers	1			Document confirming explosion-proof or intrinsically safe type of fans shall be submitted
09120040	machinery of dangerous spaces and spaces with overpressure of MODU, oil and chemical tankers	3			
09130000	Motors and pumps of hydraulic systems	3			
09130001	shafts, rotors, pinions	1			
09130002	rods	1			
09130003	pistons plungers	1			
09130004	casings	1			
09130005	hydraulic cylinders	1			
09160000	Drives of MODU jacking arrangements	3			
09160100	Hydraulic cylinders in assembly	3			

09160101	cylinders and covers	3			
09160102	pistons with rods	3			
09160103	yokes for securing hydraulic cylinders	2			
09160104	securing items	2			
09170000	Winches of MODU lifting and lowering columns of submersible sea water pumps	3			
09170001	output and intermediate shafts	3			
09170002	Wheels and pinions	3			
09170003	brakes	2			
10000000	BOILERS, HEAT EXCHANGERS AND PRESSURE VESSELS				
10000100	Steam generating units	3/4			Group 3 — for boilers of Class II Group 4 — for boilers of Class I
10010000	Boilers, including waste-heat and water heating boilers	3/4			Group 3 — for boilers of Class II Group 4 — for boilers of Class I
10010003	shells	1			
10010004	end plates	1			
10010006	water chambers	1			
10010007	combustion chambers	1			
10010008	furnaces	1			
10010009	boiler stays	1			
10010011	economizers	1			
10010012	steam accumulators (steam separators)	1			
10010100	shells	1			
10010200	drums	1			
10010500	headers	1			
10011000	boiler oil burning installations	2			
10011300	steam superheaters	1			
10011400	air heaters	1			
10020000	Heat exchangers and pressure vessels:				
10020100	boiler feed water heaters	3/4			Group 3 — for Class II, III Group 4 — for Class I

10020101	deaerators	3/4			Group 3 — for Class II, III Group 4 — for Class I
10020200	condensers of main turbines	3/4			Group 3 — for Class II, III Group 4 — for Class I
10020201	condensers of electric generator turbines	3/4			Group 3 — for Class II, III Group 4 — for Class I
10020300	condensers of auxiliary steam turbines	3/4			Group 3 — for Class II, III Group 4 — for Class I
10020400	distillers	3/4			Group 3 — for Class II, III Group 4 — for Class I
10020500	heaters:				
10020501	oil fuel	3/4			Group 3 — for Class II, III Group 4 — for Class I
10020502	lubricating oil	3/4			Group 3 — for Class II, III Group 4 — for Class I
10020503	water	3/4			Group 3 — for Class II, III Group 4 — for Class I
10020600	coolers:				
10020601	lubricating oil of main machinery	3/4			Group 3 — for Class II, III Group 4 — for Class I
10020602	water of main machinery	3/4			Group 3 — for Class II, III Group 4 — for Class I
10020603	lubricating oil of auxiliary machinery	3/4			Group 3 — for Class II, III Group 4 — for Class I
10020604	water of auxiliary machinery	3/4			Group 3 — for Class II, III Group 4 — for Class I
10020700	filters:				
10020701	oil fuel	1			
10020702	lubricating oil	1			
10020703	wate	1			
10020800	air bottles	3/4			Group 3 — for Class II, III Group 4 — for Class I
10020900	hydraulic accumulators	2			
10021000	hydrophores	1			
10021100	pressure vessels and apparatus of fire-fighting systems	2			

10021200	pressure vessels and apparatus of domestic, production, research and other applications	2			
10030000	Valves:				
10030100	boiler mountings and valves for pressures equal to or over 0,07 MPa	3			
10030200	boiler mountings and valves for pressures equal to or over 0,07 MPa and dia equal to or over 50 mm	3			
10030201	boiler mountings and valves for pressures equal to or over 0,07 MPa and dia equal to 50 mm and less	1			
10030300	safety valves	3	CTO MR		
10030400	pressure gauges	1			
10040000	Pressure vessels for MODU marine riser tightening and rolling compensation system	5			
10050000	Gas fuel tanks	5			
10050100	liquefield gas fuel tanks	5			
10050200	compressed gas fuel tanks	5			
10050300	gas fuel treatment installation	5			
10050400	LNG fuel forcing vaporizer	5			
11000000	Electrical equipment				
11010000	Electrical propulsion plant:				
11010100	propulsion generators of main power plant generators if combined	4			
11010200	propulsion electrical motors (PEM)	5			

11010300	podded azimuth drive's propulsion electrical motors	5			
11010400	propulsion switchboards	5			
11010410	standard unit/card of switchboard	3			
11010500	propulsion transformers, reactors	4			
11010600	propulsion semiconductor converters	4			
11010700	electrical machine converters	4			
11010800	control systems, monitoring and protection systems	4			
11010900	slip rings devices for podded azimuth propulsion	4			
11011000	azimuth drives for podded propulsion electrical motors	4			
11020000	Main and emergency sources of electrical power				
11020100	generators:				
11020101	power 100 kVA and over	4			
11020102	power less 100 kVA	3			
11020200	accumulators and accumulator batteries	2	CTO MR		
11020300	uninterruptible power supply units (UPS)				
11020301	power 63 kVA and over	4			
11020302	power less than 63 kVA	3			
11030000	Transformers and convertors:				
11030100	power transformers	3			
11030200	lighting, measuring and other transformers	1	CTO MR		
11030300	rotary converters:				
11030301	power 100 kVA and over	4			
11030302	power less 100 kVA	3			
11030400	rotary amplifiers				
11030401	power 100 kVA and over	4			
11030402	power less 100 kVA	3			

11030500	static and semi-conductor converters (rectifiers, inverters, frequency converters) with rated current:				
11030501	power output 100 kW and over	4			
11030502	power up to 100 kW	3	CTO MR		
11040000	Switchboards and control and monitoring desks:				
11040100	main switchboards	5			
11040101	emergency switchboards	5			
11040110	standard unit/card of switchboard	3			
11040200	distribution and other switchboards	3			
11040300	navigation light switchboards	3			
11040400	desks:				
11040401	control desks	1			
11040402	monitoring desks	1			
11040403	signalling desks	1			
11040500	switchgear and control gear, alarm and indicating devices				
11040502	switches	2	CTO MR		
11040503	contactors, relays	2	CTO MR		
11040504	tripping devices	2			
11040505	switches, limit switches	1			
11040507	semiconductor switching devices for non-motor loads	1	CTO MR		
11040509	pilot devices (push buttons, switchers, joysticks, etc.)	1	CTO MR		
11040600	protective devices				
11040601	relays $I > 63$ A	4			

11040602	relays / ≤ 63 A	3	CTO MR		
11040603	fuses	1	CTO MR		
11040605	complex protective devices	4			
11040606	zener-barriers for intrinsically-safe circuits of <i>Exi</i> type	1			
11040607	circuit breakers / > 63 A	3			
11040608	circuit breakers / ≤ 63 A	2	CTO MR		
11040700	controllers:				
11040701	voltage controller	4			
11040800	stationary electrical measuring instruments	2	CTO MR		
11050000	Electric drives for machinery referred to in 07000000, 09000000, 12000000, 14000000MK, 18050000 19000000MK as well as fishing vessel machinery and ships engaged in processing of living resources of the sea and not engaged in catching:				
11050100	electric motors:				
11050101	electric motors with power output 100 kW and over	3			
11050102	electric motors with power output from 2 kWt to 100 kW	2	CTO MR		1) For products approved within the EU RO MR Procedure, limitations stated in the EU RO MR Technical Requirements shall be taken into account
11050103	electric motors with power output up to 2 kW	1			
11050200	starting devices				
11050201	starters	2			
11050204	controllers	3			
11050205	soft starters rated at 100 kW and more	3			
11050206	control systems for electric drives	4			

11050207	soft starters rated up to 100 kW	2	CTO MR		
11050208	electronic power units for valve control for primary and secondary essential services	2			
11050209	electronic power units for valve control for non-essential services	1	CTO MR		
11050300	electromagnetic brakes	1			
11050400	electromagnetic clutches	2			
11060000	Main and emergency lighting:				
11060001	stationary lighting fixtures, flood-light projectors	2	CTO MR		
11060002	lighting fitting and accessories	1	CTO MR		
11070000	Control and monitoring devices:				
11070100	electrical engine telegraphs	3			
11070200	rudder angle indicators	2			
11070300	CPP position indicator	2			
11070400	tachometers	1	CTO MR		
11090000	General alarm system	3			
11100000	Fire detection system and warning alarm on fire smothering system release	3			
11100102	manual fire alarm buttons and detectors of fire detection system	3			
11100200	Warning alarm on release of ER local fire-fighting system (FWBLAFFS)	3			
11100300	Bidge water High level alarm system	3			
11100400	System for emergency call of the engineers	3			
11100500	Man inside the refrigerated hold signalling system	3			
11100600	Visor and side-doors position monitoring system	3			

11100700	External/internal closed circuit television (CCTV) system	3			
11100800	Signaling on increase of concentration of flammable gases	3			
11100900	Water ingress detection system for bulk-carriers (WIDS)	3			
11110000	Fire and watertight door signalling system	3			
11110100	Warning alarm system for automatic sprinkler fire-extinguishing system	3			
11120000	Engine room personnel alarm system	3			
11130000	Cabling:				
11130100	cables and wires:				
11130101	cable of supply circuits for voltage over 1000 V	3			
11130102	cable of supply circuits for voltage up to 1000 V	3			
11130103	cable of control circuit and information transfer circuit	3			
11130104	coaxial cables	1			Documents confirming flame retardance or flame resistance characteristics
11130105	optical-fiber cables	3			
11130106	assembling wires	1			
11130107	current leads and busbars uninsulated for power supply circuits of 1000 V and less	3			
11130108	current leads and busbars insulated for power supply circuits of 1000 V and less	3			
11130109	current leads and busbars uninsulated for power supply circuits of more than 1000 V	3			
11130110	MODU/FOP power and/or control and instrumentation, and/or telecommunication and data cables for submarine use	3			

11130111	current leads and busbars insulated for power supply circuits of more than 1000 V	3			
11130200	items and devices for installation, splicing and connection of cables	2	CTO MR		
11140000	Impressed current protection	2			
11150000	Heating and cooking appliances, stationary appliances:				
11150001	oil fuel, lubricating oil and water heating appliances with pressure equal to or more than 0,07 MPa	3			
11150005	heating cables	2	CTO MR		
11150006	cooking stationary heating equipment	1			
11170100	Cargo and ballast pump bearing temperature signalling system	3			
11170200	Cargo high level and overflow signalling system	3			
11180000	Signalling on failures in MODU jacking system	3			
11190000	Housings for electrical items	1	CTO MR		
12000000	Refrigerating plants				
12010000	Refrigerating units and machinery:				
12010005	Parts of products specified in 12010000				
12010100	Compressors:				
12010110	screw type	3			
12010120	piston type	3			
12010130	centrifugal and axial-flow type	3			
12010200	Refrigerant pumps	3			
12010300	Secondary refrigerant pumps	2			

12010400	Compressing and condensating units	3			
12010500	Ice generator	3			
12010600	Freezing units	3			
12020000	Refrigerant pressure vessels:				
12020100	Refrigerant condensators	3			
12020200	Direct evaporation air cooler	2			
12020300	Brine air cooler	2			
12020400	Refrigerant evaporator	2			
12020500	Refrigerant filters	2			
12020600	Oil separator	2			
12020700	Refrigerant receiver	2			
12020800	Refrigerant separator	2			
12050000	Piping and valves:				
12050004	Valve designed for pressure 1,0 MPa and more	2			
12050100	Pipes of refrigerant, liquid secondary refrigerant and cooling water	1			
12050200	Air pipes of cooling system	1			
12050300	Relief devices and valves	2			
12050400	Solenoid valves	2			
12050500	Manually operated valves	2			
12060000	Safety devices	2			
12070000	Automatic control devices	2			
12070100	Thermostatic expansion valves	1			
12070200	Thermostat	1			
12070300	Bellow-actuated pressure switch	1			
12080000	Atmosphere control devices	2			
12090000	Materials for insulation of refrigerated spaces and pipes	2	CTO MR		
12100000	Refrigerant	1			

12110000	Refrigerant leak detectors	1			
13000000	MATERIALS				
13100000	Steel and iron				
13110000	Rolled products				
13111000	<i>rolled products for ship and MODU structures:</i>				
13111100	<i>strenght class</i>				
13111110	normal strength	4M			
13111120	higher strength	4M			
13111130	high-strength steel	4M			
13111200	<i>grade</i>				
13111210	A	4M			
13111220	B	4M			
13111230	D	4M			
13111240	E	4M			
13111250	F	4M			
13111300	<i>type</i>				
13111310	plates and sheets	4M		K	
13111320	strips	4M		K	
13111330	welded and rolled sections	4M			
13111340	bars	4M			
13111400	<i>with additional properties</i>				
13111410	"Z"- properties	4M			
13111420	improved weldability "W"	4M			
13111430	Ductility and cold resistance "Arc"	4M			
13111440	clad steel	4M			
13111500	crack resistant for elements of container carriers	4M			
13112000	rolled steel for boilers, heat exchangers and pressure vessels	4M		K	Single aproval in accordance with 2.4.1.2, Part III of these Rules is allowed
13113000	<i>steel for cargo tanks, cargo technological vessels under pressure, cargo and technological pipelines, secondary barriers of gas carriers</i>				
13113010	plates and sheets	4M		K	

13113020	strips	4M		K	
13113030	welded and rolled sections	4M			
13113040	bars	4M			
13114000	rolled steel for general purpose	5M			Rolled steel used in ship hull structures, arrangements and machinery, etc. supplied according to the approved technical documentation on the item of application in accordance with 2.4.1.3, Part III of these Rules
13120000	Tubes and pipes:				
13121000	<i>type</i>				
13121100	<i>ship construction pipes for hulls and MODU</i>				
13121110	normal strength	4M		K	
13121120	higher strength	4M		K	
13121130	high-strength steel	4M		K	
13121200	ship construction pipes for shipborne and MODU machinery	5M		K	Pipes used in ship arrangements and machinery, etc. supplied according to the approved technical documentation on the item of application in accordance with 2.4.1.3, Part III of these Rules
13121300	<i>Tubes and pipes for Class I and Class II boilers, heat exchangers and pressure vessels</i>				
13121310	seamless	1M			
13121320	welded	1M			
13121400	<i>Tubes and pipes for Class I, and II piping and MODU special systems</i>				
13121410	seamless	1M			
13121420	welded	1M			
13121500	pipes used in the construction of cargo tanks, cargo process pressure vessels, cargo and process piping, secondary barriers	4M		K	

13130000	Forgings:				
13131110	forgings for hull structures of ships and MODU	4M		K	
13131120	forgings for anchor and its components, shipborne machinery including: crankshafts and its components, propeller shafts, intermediate shafts and thrust shafts, components of the main machineries gears, movement parts of cylinder, wheels, pinion sleeve	4M		K	
13131200	forgings for hull structures of ships, MODU and shipborne machinery intend for use in low temperature environment	4M		K	
13131300	forgings for cargo tanks, cargo technological vessels under pressure, cargo and technological pipelines, secondary barriers of gas carriers	4M		K	
13140000	Castings:				
13141100	steel castings				
13141110	castings for anchor and its components, hull structures of ships and MODU, shipborne machinery	4M		K	
13141120	castings for hull structures of ships, MODU and shipborne machinery intend for use in low temperature environment	4M		K	
13141130	castings for cargo tanks, cargo technological vessels under pressure, cargo and technological pipelines, secondary barriers of gas carriers	4M		K	
13141200	<i>cast iron</i>				

13141210	nodular cast iron castings	4M		K	For non-serial production, single approval in accordance with 2.4.1.2, Part III of these Rules is allowed
13141220	malleable cast iron castings	4M		K	For non-serial production, single approval in accordance with 2.4.1.2, Part III of these Rules is allowed
13141230	grey cast iron castings	4M		K	For non-serial production, single approval in accordance 2.4.1.2, Part III of these Rules is allowed
13150000	Chains:				
13151100	anchor chain	4M		K	
13151200	mooring chains	4M		K	
13152100	details of chains	4M		K	
13160000	Wire ropes:	4M		K	
13170000	Semi-finished products:				
13171110	ingots	4M		K	
13171120	blums	4M		K	
13171130	slabs	4M		K	
13171140	billets	4M		K	
13172110	steel for chains and accessories	4M		K	
13200000	Stainless steel:				
13211010	rolled plates and bars	4M		K	Single aproval in accordance with 2.4.1.2, Part III of these Rules is allowed
13221010	pipes	4M		K	Single aproval in accordance with 2.4.1.2, Part III of these Rules is allowed
13231010	forgings	4M		K	Single aproval in accordance with 2.4.1.2, Part III of theseRules is allowed
13241010	castings	5M		K	
13241020	castings for propeller shaft	4M		K	
13251020MK	steel for cargo holds of the oil tankers	4M		K	
13300000	Aluminium, titanium and cooper alloys:				

13310000	<i>cooper and alloys</i>				
13311000	rolled plates and bars	4M		K	
13312000	pipes	4M		K	
13313000	forgings	4M		K	
13314010	castings	4M		K	
13314020	castings for propeller shaft	4M		K	
13315000	extruded profiles	4M		K	
13320000	<i>aluminium alloys</i>				
13321000	rolled plates and bars	4M		K	
13322000	pipes	4M		K	
13323000	castings	4M		K	
13324000	extruded profiles	4M		K	
13325000	welded panels	4M		K	
13330000	<i>titanium alloys</i>				
13331000	rolled plates and bars	4M		K	
13332000	pipes	4M		K	
13333000	forgings	4M		K	
13334000	castings	4M		K	
13335000	extruded profiles	4M		K	
13336000	alloys for nuclear power plants	4M		K	
13340010	bimetallic	4M		K	Single aproval in accordance with 2.4.1.2, Part III of these Rules is allowed
13350000	Non-ferrous semi-finished products:				
13350010	ingots	4M		K	
13350020	blums	4M		K	
13350030	slabs	4M		K	
13350040	billets	4M		K	
13400000	Non-metallic materials				
13410000	<i>materials for reinforced plastic structures:</i>				
13410010	reinforcing materials	3M			
13410020	binders	3M			

13420000	laminated textiles	3M			
13430000	retro-reflective materials	3M			
13440000	foam plastics	3M			
13450000	polymer composition	3M			
13450110	polymer material for chocking of machinery and equipment	3M	CTO MR		
13450120	plating of reinforced polymer material for catwalks	3M			
13450210	Pipes and shape pieces of Class I, Class II	3M			
13450220	Pipes and shape pieces of Class III	3M			
13450310	ropes of natural and synthetic fibre	3M			
13460000	<i>anticorrosion coatings of hull structures:</i>				
13460110MK	protective coating for dedicated seawater ballast tanks (IMO Res.MSC.215(82))	3M			
13460120MK	protective coatings for cargo oil tanks of crude oil tankers (Resolution MSC.288(87))	3M			
13460200MK	antifouling coatings of ship's hulls	3M			
134603000	ice-resistant coatings	3M			
13460400	Protective primers allowing to weld without their removal	3M			
13460500	Anti-acid paints intended for protection of the interior of battery storage room against corrosion by electrolyte	3M	CTO MR		
14000000	Welding consumables				
14100000	Electrodes:				

14100100	for ships hull and MODU structures	2M			
14100200	for boilers, heat exchangers and pressure vessels	2M			
14100300	for Class I, Class II and Class III piping	2M			
14100400	for nuclear steam supply systems	2M			
14100500	for machinery, devices, equipment and welded parts of internal combustion engines	2M			
14200000	Wire/flux:				
14200100	for ships hull and MODU structures	2M			
14200200	for boilers, heat exchangers and pressure vessels	2M			
14200300	for Class I, Class II and Class III piping	2M			
14200400	for nuclear steam supply systems	2M			
14200500	for machinery, devices, equipment and welded parts of internal combustion engines	2M			
14300000	Wire/gas:				
14300100	for ships hull and MODU structures	2M			
14300200	for boilers, heat exchangers and pressure vessels	2M			
14300300	for Class I, Class II and Class III piping	2M			
14300400	for nuclear steam supply systems	2M			
14300500	for machinery, devices, equipment and welded parts of internal combustion engines	2M			
14000000MK	CARGO HANDLING GEAR				
14010000MK	Ship derricks:	5			

14010100MK	structures with fixed gear (masts, columns, gantries, etc.)	5			Group 5 — only if constructed out of the shipyard
14010200MK	derrick booms	3			
14010300MK	cargo winches, span winches and slewing guy winches; span rope reels and preventer guy reels with drive	3			
14010301	main shafts	1			
14010302	couplings	1			
14010303	frames and casings	1			
14010304	brakes	1			
14010305	ratchets	1			
14010400MK	span rope reels and preventer guy reels without independent drive	1			
14030000MK	Cranes and hoists, upper structures	5			
14030100MK	structures of cranes and hoists with permanently attached fixed gear (masts, posts, bell-shaped structures, bridges, gantries, understructures)	5			
14030200MK	derrick booms	5			
14030300MK	cargo lifting, luffing, slewing, travelling motion or counterbalance machinery	5			
14030301	main shafts	1			
14030302	couplings	1			
14030303	bed frames and housings	1			
14030304	brakes	1			
14030305	wheels, rollers	1			
14030306MK	adjustable counterbalances	1			
14030307	hydraulic cylinders	1			
14030308	power hydraulic cylinders	1			

14030309	flexible joints	1			
14030400MK	safety device (SWL indicators, limit-load switches, hi-jacking devices, limit switches, jib-radius indicators, safety switches, signal devices)	3			
14030500MK	metal upper structurers:				
14030600MK	posts, frames, supporting assemblies (jib and axles, etc.), trolleys, jibs, counterbalance attachments, bed frames and other structures, fastenings and supports of derrick when stowed for sea	5			
14030700MK	Devices damping dynamic loads, stability of derrick against jack-knifing with the ship rolling or load drop	5			
14040000MK	Passenger and cargo lifts with lifting capacity 250 kg and over:	5			
14040100MK	metal structures with all loose gear	3			
14040200MK	lift winches	3			
14040201	main shafts	1			
14040202	couplings	1			
14040203	bed frames and housings	1			
14040204	brakes	1			
14040300MK	Lift equipment (trunk doors, counterbalances, buffers, safety devices, etc.)	3			

14050000MK	Parts and ropes of cargo handling gear:				
14050100MK	loose gear:				
14050101MK	blocks, pulleys, hooks, chains, swivels, shackles, turnbuckles, triangle plates, boom and suspensions, etc.)	2			
14050102MK	thimbles, ropes sockets and pressed clips	2			
14050200MK	fixed gear:				
14050201MK	cargo runner and span eye plates, guy eye plates on boom ends	2			
14050202MK	deck eye plates on ship hull structures	2			
14050203MK	derrick hel fork lugs	2			
14050204MK	span eye plates with shoes	2			
14050205MK	heel goosenecks with shoes	2			
14050206MK	built in sheaves with strops	2			
14050208MK	journals, bearing axles	2			
14050300MK	cargo gripping appliances (slings, spreaders, hoisting crossbars, frames, etc.)	3			
14050301	appliances to convey the personnel (nets, baskets, cradlse or other products specially designed for this purpose)	3			
14050400MK	ropes (shrouds, stays, cargo runners, span ropes, tackls and slewing guy pendants, preventer guys and boom head guys in Union Purchase, etc.)	3			
14060000MK	Ship elevating platforms:	5			
14060100MK	platforms	5			

14060200MK	equipment of platforms (guides, shoes, blocking devices, buffers, fencing and locking mechanisms, mechanical or hydraulic drives)	3			
14060300MK	load-carryng means (ropes and chains with guides and attachments, leverpool system, hydraulic drives, gear racks, spindles)	3			
14060400MK	safety devices	3			
15000000	Automation				
15010000	All-round automation systems of mashinery installations(Integrated automation systems)	5			
15020000	Centralized alarm and monitoring systems, including computer-based systems	5			
15030000	Main machinery automated (remote control) systems:				
15030100	main internal combustion engines	5			
15030200	diesel engines with CPP	5			
15030300	steam turbines with reduction gear	5			
15030400	azimuth thrusters	5			

15030500	dynamic positioning systems for ships and mobile offshore drilling units (MODU)	5			
15030510	computer-based systems, associated software and interfaces used for automated control systems of the thrusters with the use of the single control device (joystick) or several control devices	4			
15030520	operator panel system with controls and data displays	4			
15030530	position reference systems	2			
15030600	"Azipod" type electric propulsion systems	4			
15030700	self-elevating MODU	4			
15030800	remote control for pumps and valves of ballast systems of column-stabilized MODU	4			
15030900	remote control for azimuth and tunnel auxiliary thrusters	4			

15031000	remote control and automated hull stabilization systems of high-speed craft	4			
15040000	Automated (remote control) systems for electric power plants:				
15040100	automated start-stop systems for diesel generator sets	4			
15040200	automated start-stop systems for steam turbo generator sets	4			
15040300	automated start-stop systems for shaft generator sets	4			
15040400	automated electric power plant systems	4			
15050000	Automated control systems for boiler plants:				
15050100	main boiler plants control and monitoring systems	4			
15050200	auxilliary boiler plants control and monitoring systems	4			
15050300	exhaust gas boiler plants control and monitoring systems	4			
15050400	thermal fluid and hot water boiler control and monitoring systems	4			
15060000	Auxilliary machinery automation systems				

15060100	machinery automation systems for air kompressors	4			
15060200	for fuel oil, lub oil separators	4			
15060300	for filters	4			
15060400	for pumps (lubricating oil, fuel oil, cooling and etc.)	4			
15060500	for fuel oil viscosity (temperature) treatment units	4			
15070000	Remote control of ships systems and remote level gauges:				
15070100	remote control systems for ballast and bilge system (together with remote controlled valves)	4			
15070200	for heel and trim systems	4			
15070300	for cargo piping systems of oil tankers	4			
15070400	for cargo piping systems of liquid gas carryers	4			
15070500	for cargo piping systems of ships carrying dangerous chemicals in bulk	4			
15080000	Automation systems of deck machinery	4			
15090000	Sub-systems, local automation units:				
15090100	local remote control sub-systems being part of systems referred to in 15010000 to 15080000	1	CTO MR		

15090500	Internal combustion engines crankcase oil mist detection arrangements (or engines bearing temperature monitors or equivalent devices)	3			
15090600	ships computers and programmable logic controller (PLC)	2	CTO MR		
15090700	electronic devices for ships local nets	2			
15100000	Electronic devices for ships local nets:				
15100101	for level regulation	2			
15100102	for pressure regulation	2			
15100103	for temperature regulation	2			
15100104	for viscosity regulation	2			
15100105	for speed regulation	2			
15110000	Sensors and transmitters:				
15110101	for level regulation	2	CTO MR		
15110102	for pressure	2	CTO MR		
15110103	for temperature	2	CTO MR		
15110104	for flow	2	CTO MR		
15110105	for salinity	2			
15110106	for vibration	2			
15110107	for position	2	CTO MR		
15110108	externsl force sensors	2			
15110110	for gas concentration	2			
15119999	other	1	CTO MR		
15120000	Panels/boards and other closures				

15130000	Remote-reading measuring devices, instruments	1			
15130100	Equipment diagnostic facilities	1			
16000000	FIBER-REINFORCED PLASTIC SHIPS				
16010000	Fiber-reinforced plastic for hull and lifeboats	2			
16020000	Hull	5			
17000000	SHIPS CARRYING LIQUIFIED GASES IN BULK (LG CARRIERS)	-			
17010000	Materials and products	-			
17011000	Membrane cargo containment system – Mark III	-			
17011100	Metallic materials and products	-			
17011110	Stainless steel plates	-			
17011111	stainless steel sheets < 3 mm	4M			
17011112	stainless steel sheets ≥ 3 mm	4M			
17011120	aluminium for reinforcement elements	4M			
17011130	Metallic proucts	-			
17011131	staples	1/2			Group 1M – for staples of Category 3 Group 2M – for staples of Category 1 and 2
17011132	inner hull studs, nuts and washers	1			
17011133	stainless steel studs, nuts and washers	4			
17011134	expansion rivets (15 mm)	1			
17011135	stainless steel corners prefabricated elements	3			
17011136	anchor strips for primary barrier	4			
17011200	Non-metallic materials and products	-			
17011210	Wooden materials	-			
17011211	plywood	3M			

17011220	Fibrous materials	-			
17011221	glass wool	2M			
17011222	glass cloth	2M			
17011230	Polymer compositions	-			
17011231	reinforced polyurethane foam (R-PUF)	3M			
17011232	high density reinforced polyurethane foam (HD R-PUF)	3M			
17011233	low density foam (LDF)	1M			
17011240	Adhesive materials	-			
17011241	load bearing mastic	2M			
17011242	insulating panel adhesive	2M			
17011243	adhesive for secondary barrier	2M			
17011250	Protective and interlayer materials	-			
17011251	paint for inner hull protection	2M			
17011260	Heat insulation blocks	-			
17011261	thermal protection	1M			
17011262	secondary barrier components (rigid and flexible material) (RSB, FSB)	3			
17011263	primary barrier components	3			
17011264	flat wall panels prefabricated elements	3			
17011265	top bridge pads prefabricated elements	3			
17011266	flat joints based on glass wool	1			
17011267	corner panels prefabricated elements	3			
17011268	single legs prefabricated elements	3			
17012000	Membrane cargo containment system – NO96	-			
17012100	Metallic materials and products	-			
17012110	Fe – Ni alloy (36% Nickel) strips	4M			
17012120	Fe – Ni (36% Nickel) welding filler metal	2M			
17012130	Metallic products	-			
17012131	staples	1/2			Group 1M – for staples of Category 3 Group 2M – for staples of Category 1 and 2
17012132	collar stud	4			

17012133	self-locked nuts	2			
17012134	spring washers	2			
17012135	wood screws	1			
17012136	coupler base socket	4			
17012200	Non-metallic materials and products	-			
17012210	Wooden materials	-			
17012211	plywood	3M			
17012220	Fibrous materials	-			
17012221	glass wool	2M			
17012222	glass cloth	2M			
17012223	glass wool (for insulating box)	2M			
17012230	Polymer compositions	-			
17012231	reinforced polyurethane foam (R-PUF)	3M			
17012240	Adhesive materials	-			
17012241	load bearing mastic	2M			
17012242	insulating panel adhesive	2M			
17012243	glue	2M			
17012250	Protective and interlayer materials	-			
17012251	anti-sticking film	1M			
17012260	Heat insulation blocks	-			
17012261	thermal protection	1M			
17012262	insulating material	2M			
17012263	insulating boxes prefabricated elements	3			
17012264	flat wall panels (L03)	3			
17012265	flat wall panels (L03+)	3			
17012266	plywood cleat (L03, L03+)	3			
17012270	perlite	2M			
18000000	NUCLEAR SHIPS AND NUCLEAR SUPPORT VESSELSS				
18010000	Ship hull (additionally to non-nuclear ships):	5			

18010100	collision structural protection	5			
18010200	stranding structural protection	5			
18010300	supporting structures and foundations in the reactor compartment	5			
18010400	containment structures	5			
18010500	safety enclosure	5			
18020000	Nuclear reactors:	5			
18020100	reactor vessels	5			
18020200	roofs with their securing items	5			
18020300	removable and non-removable internals	5			
18030000	Cores:	5			
18030100	fuel elements	5			
18030200	fuel assembly	5			
18030300	protective covers	5			
18030400	rods:	5			
18030401	emergency shutdown rods	5			
18030402	burnable poison rods	5			
18030403	shim rods	5			
18030500	working neutron sources	5			
18040000	Automation and protective systems of NSSS	5			
18040100	automatic and remote control and protective systems of nuclear reactors	5			
18040200	automatic monitoring and alarm systems of nuclear reactors	5			
18040300	automatic and remote control, protection, monitoring and alarm systems of NSSS	5			
18040400	control, protection, monitoring and alarm devices of NSSS	5			
18040401	drives and actuating mechanisms of automatic and remote controls	5			

18040402	drives and actuating mechanisms of emergency protection of automatic and remote control, protection, monitoring and alarm systems	5			
18040403	measuring equipment of nuclear reactor power	5			
18040404	level gauges	5			
18040405	thermocouples and resistance thermometers	5			
18040406	NSSS parameter transducers	5			
18040407	pressure sensors	5			
18040407	flowmeters	5			
18050000	NSSS machinery:	5			
18050100	primary coolant circulating pumps	5			
18050200	fresh water pumps for equipment cooling and protection	5			
18050300	sea water pumps for equipment cooling	5			
18050500	pumps and ejectors of NSSS space drainage system	5			
18050600	pumps of primary coolant make-up system	5			
18050700	pumps of emergency core cooling system	5			
18050800	pumps of automation hydraulic system	5			
18050900	pumps of residual heat removal system	5			
18051000	sorbent transfer pumps	5			
18051100	high-pressure gas compressors	5			
18051200	controlled area fans	5			

18051300	high pressure air compressors	5			
18051400	medium pressure air compressors	5			
18051500	vacuum compressors	5			
18060000	Heat exchangers and pressure vessels:				
18060100	Steam generators:	5			
18060101	housings	5			
18060102	tube system	5			
18060106	fittings	5			
18060200	pressure compensators	5			
18060300	filters:primary circuit, primary coolant filling and make-up system, fresh water cooling system, radioactive drainage and process water treatment systems	5			
18060400	heat exchangers of fresh water cooling and protection circuit	5			
18060500	air coolers	5			
18060600	sludge collecting tanks of primary circuit and fresh water cooling and protection system filters	5			
18060700	coolers of primary circuit filters	5			
18060800	drainage and collecting tanks	5			
18060900	gas and air bottles	5			
18061000	pneumatic and hydraulic receivers	5			
18061100	steel-water protection tanks	5			
18061200	first circuit recuperative heat exchangers	5			
18070000	NSSS systems:	5			
18070100	primary coolant circulation system	5			

18070200	primary coolant purification system	5			
18070300	primary coolant make-up system	5			
18070400	residual heat removal system	5			
18070500	core emergency cooling system	5			
18070600	primary coolant sampling system	5			
18070700	deaeration system	5			
18070800	primary coolant drainage system	5			
18070900	pressure compensation system	5			
18071000	secondary circuit	5			
18071100	fresh water cooling and protection system	5			
18071200	sea water cooling system	5			
18071300	ventilation and air filtering system	5			
18071400	radioactive liquid and solid collection, storage and handling system	5			
18071500	NSSS space drainage system	5			
18071600	sorbent handling system	5			
18071700	explosive mixture removal system	5			
18071800	fitting automation and control hydraulic system	5			
18071900	radioactive drainage and process water purification system	5			
18072000	pressure reduction in containment	5			
18080000	NSSS fittings:	5			
18090000	Radiation monitoring system and means	5			
18100000	Protection means against radioactive radiation and radioactive substance spreading	5			
18110000	Liquid radioactive waste treatment equipment	5			
18120000	Shielding	5			

18130000	Fuel assembly storage facilities	5			
18140000	Core handling equipment	5			
18150000	The complex of technical means of physical protection	5			
18160000	Rolled products, forgings, castings, pipes for equipment and systems of 1, 2 and 3 safety classes	5			
19000000MK	EQUIPMENT AND ARRANGMENTS FOR THE PREVENTION OF POLLUTION FROM SHIPS				
19020200MK	15 ppm Bilge Separators (Resolution MEPC.107(49))	3	COTO		
19030100MK	Discharge monitoring and control systems and meters for automatic measuring oil content in ballast and washing water discharge (Resolution MEPC.108(49))	3	COTO		
19030202MK	15 ppm Bilge Alarm (Resolution MEPC.107(49))	3	COTO		
19040000MK	Oil/water interface detectors in slop tanks	3	COTИ		
19070000MK	Washing systems:				
19070100MK	washing machines	3			
19080000MK	Incinerators	3	COTO		
19080300MK	Oil residues processing (tank for mixing oil residues with fuel oil, oil residues preheating system, homogenization system)	2			
19090000MK	Sewage treatment plants (IMO resolution MEPC.227(64))	3	COTO		
19090001MK	Sewage treatment plant (resolution MEPC.159(55))	3	COTO		

19100000MK	Sewage comminution and disinfection systems	3			
19120000MK	Sewage pumps (ejectors)	3			
19140000MK	Garbage treatment plants	3			
19150000MK	Garbage containers	1			
19160000MK	Equipment and arrangements for prevention of pollution by noxious liquid substances	3			
19170000MK	Equipment and arrangements for prevention of air pollution	3			
19170100MK	Exhaust gas cleaning (EGC) unit to reduce SO _x emission (Resolution MEPC.259(68), survey under Scheme A)	3	SECC		
19170101MK	SO _x continuous exhaust gas monitoring system (Resolution MEPC.259(68))	3			
19170102MK	Exhaust gas cleaning (EGC) unit to reduce SO _x emission (Resolution MEPC.259(68), survey under Scheme B)	2			
19170300MK	Sampling equipment	3			
19210000MK	Oily waters deep purification plants as part of separator for 5 ppm, indicator/oil content meter for 5 ppm and automatic stopping device control for oil discharge	3			
19220000MK	Ballast water management systems (Resolution MEPC.174(58))	3	COTO		

19220001MK	Ballast water management systems (Resolution MEPC.300(72))	3	COTO		
20000000	SOFTWARE				
20100000	Software for ship theory and strength calculations				
20101000	Design software for ship theory and strength calculations	2	СТОП		
20102000	Onboard software for ship theory and strength calculations	4	СТОП		
20200000	Machinery software	2	СТОП		
20300000	Electrical equipment and automation software	2	СТОП		

APPENDIX 2. INSTRUCTIONS ON BRANDING OF ITEMS OF THE REGISTER TECHNICAL SUPERVISION

14 **Para 1.3** is replaced by the following text:

"**1.3** Subject to branding are semi-products, testing samples and materials that are identified in the RS Nomenclature."

15 **Para 1.4** is deleted.

16 **Paras 1.5 – 1.7** are renumbered paras 1.4 – 1.6 accordingly.

APPENDIX 3. PROCEDURE FOR TECHNICAL SUPERVISION DURING MANUFACTURE OF RADIO EQUIPMENT AND NAVIGATIONAL EQUIPMENT

17 **Appendix** is deleted.