



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 210-04-1936c

dated 22.05.2023

Re:

amendments to the Rules for the Classification Surveys of Ships in Service, 2023, ND No. 2-020101-012-E, considering requirements of the Rules for the Classification and Construction of High-Speed Craft, 2023

Item(s) of supervision:

ships in service

Entry-into-force date:

01.06.2023

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

~~dated~~

Number of pages:

1 + 14

Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Part III "Additional Surveys of Ships Depending on Their Purpose and Hull Material"

Director General

Sergey A. Kulikov

Text of CL:

We hereby inform that the Rules for the Classification Surveys of Ships in Service shall be amended as specified in the Appendices to the Circular Letter.

It is necessary to do the following:

1. Bring the content of the Circular Letter to the notice of the RS surveyors, interested organizations and persons in the area of the RS Branch Offices' activity.
 2. Apply the provisions of the Circular Letter when performing surveys of ships in service requested on or after 01.06.2023.
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List of the amended and/or introduced paras/chapters/sections:

Part III: paras 24.1.1, 24.1.2.2, 24.2.2.1.2, 24.2.2.2 and Section 25

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**Information on amendments introduced by the Circular Letter
(for inclusion in the Revision History to the RS Publication)**

Nos.	Amended paras/chapters/ sections	Information on amendments	Number and date of the Circular Letter	Entry-into-force date
1	Part III, paras 24.1.1, 24.1.2.2, 24.2.2.1.2 and 24.2.2.2	Requirements have been specified considering new Section 25	210-04-1936c of 22.05.2023	01.06.2023
2	Part III, Section 25	New Section has been introduced considering requirements of the Rules for the Classification and Construction of High-Speed Craft, 2023	210-04-1936c of 22.05.2023	01.06.2023

RULES FOR THE CLASSIFICATION SURVEYS OF SHIPS IN SERVICE, 2023,

ND No. 2-020101-012-E

PART III. ADDITIONAL SURVEYS OF SHIPS DEPENDING ON THEIR PURPOSE AND HULL MATERIAL

24 SURVEY OF HULLS OF SHIPS AND FLOATING FACILITIES MADE OF ALUMINIUM ALLOYS

1 **Para 24.1.1** is replaced by the following text:

"**24.1.1** Definitions and explanations which are common to ships and offshore installations are given in Section 2 of Part I "General Provisions" and 1.1 of Part III "Additional Surveys of Ships Depending on their Purpose and Hull Material" of these Rules and in the Guidelines."

2 **Para 24.1.2.2** is replaced by the following text:

"**24.1.2.2** The scope of periodical surveys and intervals between them are given in Table 2.1.1-1 and Table 2.1.1-2 of Part II "Survey Schedule and Scope" of these Rules.

The extent of particular examinations, measurements, testing, etc. is set forth as minimal and may be changed by the RS surveyor based on the valid instructions and specific conditions. In case the disputes regarding the determination of scope and schedule of surveys arise, the final decision shall be made on the basis of the requirements set forth in the relevant Sections of these Rules."

3 **Para 24.2.2.1.2** is replaced by the following text:

"**24.2.2.1.2** All hull structures and piping specified in Table 2.1.1-1 of Part II "Survey Schedule and Scope" of these Rules, shall be examined, and this examination shall be supplemented by testing of compartments as required by Annex 10 to the Guidelines, to ensure that the structural integrity remains effective. The examination shall be sufficient to reveal corrosion, deformations, fractures, damages and other structural deterioration that may be present."

4 **Table 24.2.2.2.** Table is renamed reading as follows:

"**Minimum requirements for close-up survey at special hull surveys of ships made of aluminium alloys**".

5 **New Section 25** is introduced reading as follows:

"25 SURVEY OF HIGH-SPEED CRAFT

25.1 GENERAL

25.1.1 Definitions.

Definitions and explanations which are common to ships and offshore installations are given in Section 2 of Part I "General Provisions" and 1.1 of Part III "Additional Surveys of Ships Depending on their Purpose and Hull Material" of these Rules and in the Guidelines. Terms and definitions specific to dynamically supported craft and high-speed craft (HSC) are given in Part I "Classification" of the Rules for the Classification and Construction of High-Speed Craft (hereinafter referred to as the HSC Rules).

25.1.2 Application.

25.1.2.1 These requirements apply to all craft covered by the HSC Rules.

25.1.2.2 The scope of periodical surveys of dynamically supported craft and high-speed craft as well as intervals between them are given in Table 25.1.3 which forms a summarized list of items of technical supervision related to classification.

The extent of particular examinations, measurements, testing, etc. is set forth as minimal and may be changed by the RS surveyor based on the valid instructions and specific conditions. In case the disputes regarding the determination of scope and schedule of surveys arise, the final decision shall be made on the basis of the requirements set forth in the relevant Sections of these Rules.

25.1.2.3 During survey of HSC hulls, the general requirements of Part I "General Provisions" shall be met as well as the requirements of 2.2, 2.4, 2.5.2, 2.5.4 and 2.5.6.5 of Part II "Survey Schedule and Scope" of these Rules taking into account the additions and amendments stipulated in this Section.

25.1.2.4 These requirements apply to surveys of hull structures and piping systems, cofferdams, void spaces, fuel oil and lube oil tanks, fresh water tanks, ballast tanks, grey and black water tanks (sanitary/domestic waste water and sewage holding tanks).

25.1.2.5 The requirements contain the minimum extent of examination, thickness measurements and compartment testing. The survey shall be extended when corrosion, fractures or other damages are found, and shall include additional close-up survey of details and structures in the area of detected damages.

25.1.3 Surveys.

25.1.3.1 The scope of periodical surveys is given in Table 25.1.3 which contains the summarized list of items of technical supervision related to classification. In case the disputes regarding the determination of scope and schedule of surveys arise, the final decision shall be made on the basis of the requirements set forth in the relevant Sections of these Rules.

25.1.3.2 In case of reinstatement, suspension, withdrawal, reassignment of the HSC class, the requirements of these Rules and provisions of the Guidelines shall be met.

25.1.3.3 For HSC covered by the provisions of the International Code of Safety for High-Speed Craft, 1994, adopted by IMO resolution MSC.36(63) as amended (1994 HSC Code) or the International Code for Safety for High-Speed Craft, 2000, adopted by IMO resolution MSC.97(73) as amended (2000 HSC Code), the requirements for survey are specified in Part III "Survey of Ships in Compliance with International Conventions, Codes, Resolutions and Rules for the Equipment of Sea-Going Ships" of the Guidelines.

25.1.4 Repair.

Applicable provisions of these Rules, the Guidelines as well as of the internal normative documents on repair intended for the use of the RS surveyors shall be considered during repair.

25.1.5 Thickness measurements and close-up survey.

The extent and requirements for thickness measurements are given in 2.2, 2.3, 2.4 and 2.5 of Part II "Survey Schedule and Scope", in Table 24.2.2.2 of Part III "Additional Surveys of Ships Depending on their Purpose and Hull Material" of these Rules as well as in relevant Sections of this Part depending on the hull type and/or material.

25.1.6 Assessment of technical condition of hull structures.

The relevant provisions of these Rules and Annex 2 thereto shall apply for the assessment of technical condition of hull structures.

Table 25.1.3

SCOPE OF PERIODICAL SURVEYS OF HIGH-SPEED CRAFT

Symbols:

- O — examination with access, opening-up and dismantling being provided where necessary;
 C — external examination;
 M — measurements of wears, clearances, insulation resistance, etc., actual actuation parameters of all types of protection after their check and regulation for compliance with the specified values;
 H — pressure tests (hydrostatic, hydraulic, pneumatic, hydropneumatic), tightness tests (penetration, hose tests and others allowed by RS);
 P — operational testing of machinery, equipment and arrangements, external examination included;
 E — control of the availability of necessary documentation, including verification of documentation confirming carrying out of mandatory periodical checks/tests by the recognized service supplier as well as valid documents and/or stamps testifying to the instrumentation being calibrated, if subject thereto;
 K — verification of remaining service life.

No.	Item to be surveyed	High speed craft survey ¹														
		1st annual	2nd annual	3rd annual	4th annual	1st special	1st annual	2nd annual	3rd annual	4th annual	2nd special	1st annual	2nd annual	3rd annual	4th annual	3rd special
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 Hull																
1.1	Underwater part of hull (outer side) ²															
1.1.1	Stem, transom, bilges, skegs, steps, niches, rigid structures supporting and dividing the air cushion, flexible skirt of the air cushion, attachment points and lifting mechanisms of the flexible skirt, rigid air ducts and wells, propeller shaft brackets, landing pads, hull components intended for craft lifting and reinforcements for them	C	C	C	C	O	C	C	O	C	O	O	O	O	O	O
1.1.2	Shell plating, including areas of intense vibration, impact loads, hydrofoil installation location, stiffeners and foils attachments, propeller shaft brackets, angular propellers, rudder stock, foil pivot mechanism, flaps, shell plating in way of hulls connecting catwalks	C	C	C	C	O	C	C	O	C	OM ³	O	O	O	O	OM ³
1.1.3	Shell plating of sea chests, shell plating in way of branch pipes	C	C	C	C	CH ⁴	C	C	C	C	CM ³ H ⁴	C	C	C	C	CM ³ M ⁴
1.2	Above-water part of hull (outer side)															
1.2.1	Stem, transom	C	C	C	C	O	C	C	C	C	O	C	C	O	C	O
1.2.2	Shell plating, including that in the areas of foil attachments, angular propellers, shell plating in way of hulls connecting catwalks	C	C	C	C	O	C	C	O	C	O	C	C	O	C	OM ³
1.2.3	Deck plating enclosing buoyancy compartments	C	C	C	C	OH ⁵	C	C	O	C	OH ⁵ M ³	C	C	O	C	OH ⁵ M ³
1.2.4	Deck plating ensuring longitudinal strength of the craft	C	C	C	C	O	C	C	O	C	OM ³	C	C	O	C	OM ³
1.2.5	Deck and bulkheads of lavatories and accumulator battery rooms if they bound buoyancy compartments	C	C	C	C	O	C	C	O	C	OM ³	C	C	O	C	OM ³
1.2.6	Superstructures, wheelhouses (plating, decks, bulkheads)	C	C	C	C	O	C	C	C	C	O	C	C	C	C	OM ³
1.2.7	Hatch and ventilator coamings	C	C	C	C	O	C	C	C	C	OM ³	C	C	C	C	OM ³
1.2.8	Bulwark, hydrofoil installations skirt	C	C	C	C	O	C	C	C	C	O	C	C	C	C	O

No.	Item to be surveyed	High speed craft survey ¹														
		1st annual	2nd annual	3rd annual	4th annual	1st special	1st annual	2nd annual	3rd annual	4th annual	2nd special	1st annual	2nd annual	3rd annual	4th annual	3rd special
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	.2 sterntube bearings	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM
	.3 propeller shaft glands	C	C	OK	C	OK	C	C	OH	C	OH	C	C	OH	C	OK
	.4 flanged connections and couplings	C	O	C	O	O	C	O	C	O	O	C	O	C	O	O
	.5 reduction gear	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
4.6.2	Propeller (water and air) ¹⁸	C	C	O	C	O	C	C	O	C	O	C	C	O	C	O
	.1 static balancing ¹⁹															
	.2 propeller shaft fitting (adjusting) ²⁰															
	.3 propeller fastening ¹⁸															
	.4 pitch actuating mechanism	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
4.6.3	Water-jet propeller ¹⁷ :	C	O	C		O	C	O	C		O	C	O	C		O
	.1 propeller housing	C	O	C		OM	C	O	C		OM	C	O	C		OM
	.2 reversing gear	C	O	C		OM	C	O	C		OM	C	O	C		OM
	.3 impeller ¹⁹		O			O		O			O		O			O
	.4 propeller shaft		O			O		O			O		O			O
4.6.4	Angular propellers ^{11,17} :	CK	OK	CK		OK	CK	OK	CK		OK	CK	OK	CK		OK
	.1 shafts		O			O		O			O		O			O
	.2 pinions			OM		OM			OM		OM			OM		OM
	.3 screws			O		O			O		O			O		O
	.4 clutch, lifting and tilting arrangements			O		O			O		O			O		O
4.7	Auxiliary machinery ²¹															
4.7.1	Bilge pump	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
4.7.2	Fire pump	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
4.7.3	Compressors:	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
	.1 cylinders, crankshaft and main bearings, cylinder covers and valves					O					O					O
	.2 air coolers with fittings															
	.3 safety valve	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4.8	Steering gear	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
4.9	Anchor machinery	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
4.10	Tilting pylons	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
4.10.1	Angular gears	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
4.10.2	Couplings ²⁰	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
4.10.3	Tilting machinery	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK	PK
4.11	Heat exchangers and their fittings					OH ^{22P}					OHP					OH ^{22P}
4.11.1	Safety valves	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4.12	Air bottles and other pressure vessels and their fittings	P	P	P	P	OH ^{22P}	P	P	P	P	OH ^{22P}	P	P	P	P	OH ^{22P}
5 Systems and piping																
5.1	Bilge system	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
5.1.1	Scuppers					O					O					O
5.2	Air, vent, overflow and sounding pipes	C	C	C	C	O	C	C	C	C	O	C	C	C	C	O
5.3	Exhaust-gas system			O		OP				O	OP			O		OP

No.	Item to be surveyed	High speed craft survey ¹														
		1st annual	2nd annual	3rd annual	4th annual	1st special	1st annual	2nd annual	3rd annual	4th annual	2nd special	1st annual	2nd annual	3rd annual	4th annual	3rd special
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
5.4	Sewage system ¹⁰	C	C	C	C	O	C	C	C	C	O	C	C	C	C	O
5.5	Ventilation system															
5.5.1	Ventilation ducts passing through watertight and fire divisions					O					O					O
5.6	Fuel oil system	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
5.7	Lubricating oil system	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
5.8	Water cooling system	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
5.9	Compressed air system	P	P	P	P	OP	P	P	P	P	OPH ²³	P	P	P	P	OP
5.10	Hydraulic system with machinery, tanks, instruments and gauges ²⁴	PK	PK	PK	PK	OPK	PK	PK	PK	PK	OPK	PK	PK	PK	PK	OPK
5.11	Bottom and side valves on watertight bulkheads															
5.11.1	Bottom and side valves installed below waterline ²⁵	O	O	O	O	OH	O	O	O	O	OH	O	O	O	O	OH
5.11.2	Bottom and side valves installed above waterline	C	C	C	C	O	C	C	C	C	O	C	C	C	C	O
5.12	Instruments and gauges	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
5.13	Water separators on air intakes of turbines	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5.14	Ballast system	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
6 Electrical equipment																
6.1	Main and emergency sources of power:															
	.1 generators	P	P	P	P	OMP	P	P	P	P	OMP	P	P	P	P	OMP
	.2 accumulator batteries	MP	MP	MP	MP	OMP	MP	MP	MP	MP	OMP	MP	MP	MP	MP	OMP
6.2	Electrical energy converting devices feeding essential consumers	P	P	P	P	OMP	P	P	P	P	OMP	P	P	P	P	OMP
6.3	Switchboards:															
	.1 main and emergency switchboards	P	P	P	P	OEMP	P	P	P	P	OEMP	P	P	P	P	OEMP
	.2 navigation light, radio communication, navigation and automation equipment switchboards	P	P	P	P	OMP	P	P	P	P	OMP	P	P	P	P	OMP
	.3 section and group switchboards	P	P	P	P	OMP	P	P	P	P	OMP	P	P	P	P	OMP
	.4 control and monitoring panels	P	P	P	P	OEMP	P	P	P	P	OEMP	P	P	P	P	OEMP
6.4	Cabling:	M	M	M	M	OM	M	M	M	M	OM	M	M	M	M	OM
	.1 cables and wires															
	.2 cable protection (additional), passage of cables through watertight and fire-fighting bulkheads and decks	C	C	C	C	OH	C	C	C	C	OH	C	C	C	C	OH
6.5	Electric drives of essential arrangements and machinery as well as their control, protection, starting and regulation devices:															
	.1 bilge, fire, oil fuel and lubricating oil pumps	P	P	P	P	OMP	P	P	P	P	OMP	P	P	P	P	OMP
	.2 engine room ventilation	P	P	P	P	OMP	P	P	P	P	OMP	P	P	P	P	OMP
	.3 craft steering and stabilization control	P	P	P	P	OMP	P	P	P	P	OMP	P	P	P	P	OMP
	.4 anchor machinery	P	P	P	P	OMP	P	P	P	P	OMP	P	P	P	P	OMP
	.5 compressors	P	P	P	P	OMP	P	P	P	P	OMP	P	P	P	P	OMP
	.6 mooring machinery	P	P	P	P	OMP	P	P	P	P	OMP	P	P	P	P	OMP
	.7 survival craft launching devices	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP

No.	Item to be surveyed	High speed craft survey ¹														
		1st annual	2nd annual	3rd annual	4th annual	1st special	1st annual	2nd annual	3rd annual	4th annual	2nd special	1st annual	2nd annual	3rd annual	4th annual	3rd special
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
6.6	Lighting:															
	.1 of spaces and areas important for craft safety and propulsion, and people on board	C	C	C	C	OP	C	C	C	C	OP	C	C	C	C	OP
	.2 of other spaces					OP					OP					
	.3 emergency lighting	P	P	OP	P	OP	P	P	OP	P	OP	P	P	OP	P	OP
	.4 navigation lights	OP	OP	OP	OP	OP	OP	OP	OP	OP	OP	OP	OP	OP	OP	OP
6.7	Electrical heaters to provide operation of main engines and essential machinery	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6.8	Other fixed heating appliances			C		C			C		C			C		C
6.9	Signalling and internal communication devices															
6.9.1	All types of craft electrical signalling and internal communication systems	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
6.10	Protective devices															
6.10.1	Lightning protection device			C		C			C		C			C		C
6.10.2	Protection earthing	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
6.11	Spare parts					C					C					C
6.12	Instruments and gauges	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
7 Automation																
7.1	Craft automated stabilization control system ²⁴	PK	PK	PK	PK	OPK	PK	PK	PK	PK	OPK	PK	PK	PK	PK	OPK
7.2	All surveys referred to in section 8 of Table 2.1.1-1 of Part II "Survey Schedule and Scope"															
8 Life-saving appliances																
8.1	Launching appliances	P ²⁷	P ²⁷	P ²⁷	P ²⁷	P ²⁷	P ²⁷	P ²⁷	P ²⁷	P ²⁷	OP ²⁷	P ²⁷	P ²⁷	P ²⁷	P ²⁷	P ²⁷
8.2	Life and rescue boats	OP ^{27,28}	OP ^{27,28}	OP ^{27,28}	OP ^{27,28}	OP ^{27,28}	OP ^{27,28}	OP ^{27,28}	OP ^{27,28}	OP ^{27,28}	OP ^{27,28}	OP ^{27,28}	OP ^{27,28}	OP ^{27,28}	OP ^{27,28}	OP ^{27,28}
8.3	Rigid liferafts and buoyant apparatus	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
8.4	Inflatable liferafts, marine evacuation systems, inflated rescue boats, hydrostatic release units, inflatable lifejackets, immersion suits, anti-exposure suits and thermal protective aids	CE ²⁹	CE ²⁹	CE ²⁹	CE ²⁹	CE ²⁹	CE ²⁹	CE ²⁹	CE ²⁹	CE ²⁹	CE ²⁹	CE ²⁹	CE ²⁹	CE ²⁹	CE ²⁹	CE ²⁹
8.5	Lifebuoys and rigid life jackets	C	C	C	C	CE ²⁹	C	C	C	C	CE ²⁹	C	C	C	C	CE ²⁹
8.6	Line-throwing appliances	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
8.7	Posters or signs with symbols	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
9 Signal means																
9.1	Navigation and flashing lights	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
9.2	Sound signal means	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9.3	Signal shapes and pyrotechnical signal means	c	c	c	C	CK	c	c	c	c	CK	c	c	c	c	CK
10 Radio equipment																
10.1	Spaces where shipboard radio communication facilities are installed	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
10.2	Spaces where survival craft radio communication facilities are located	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
10.3	VHF radio installation:	MP	MP	MP	MP	OMP	MP	MP	MP	MP	OMP	MP	MP	MP	MP	OMP
10.4	MF radio installation:	MP	MP	MP	MP	OMP	MP	MP	MP	MP	OMP	MP	MP	MP	MP	OMP
10.5	MF/HF radio installation:	MP	MP	MP	MP	OMP	MP	MP	MP	MP	OMP	MP	MP	MP	MP	OMP

No.	Item to be surveyed	High speed craft survey ¹														
		1st annual	2nd annual	3rd annual	4th annual	1st special	1st annual	2nd annual	3rd annual	4th annual	2nd special	1st annual	2nd annual	3rd annual	4th annual	3rd special
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
11.12	Automatic radar plotting aid (ARPA)	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11.13	Automatic identification system (AIS)	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP
11.14	Voyage data recorder (VDR)	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC
11.15	Speed and distance measuring device (through the water, over the ground in the forward and athwartship direction)	P	C	P	C	OP	P	C	P	C	OP	P	C	P	C	OP
11.16	Mechanical speed and distance measuring device	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
11.17	Echo sounder	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
11.18	Bridge navigational watch alarm system (BNWAS)	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
11.19	Equipment with long range identification and tracking (LRIT) capability	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11.20	Night vision equipment	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11.21	Sound reception system	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11.22	Radar reflector	P	C	P	C	P	P	C	P	C	P	C	P	C	P	P
11.23	Radiobeacon station	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11.24	Navigational equipment and devices	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
11.25	Spaces intended for installation of navigational equipment	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
11.26	Sources of power	P	P	P	P	OMP	P	P	P	P	OMP	P	P	P	P	OMP
11.27	Antennas	P	P	P	P	OP	P	P	P	P	OP	P	P	P	P	OP
11.28	Earthing	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
11.29	Spare parts, instruments and gauges	C	C	C	C	CE	C	C	C	C	CE	C	C	C	C	CE

¹ After 3rd special survey, the scope of subsequent annual, special surveys shall be repeated as for the 3rd cycle.

² Survey of the outside of the craft's bottom (bottom survey) shall be carried out annually in accordance with 2.5.4.2 of Part II "Survey Schedule and Scope" of these Rules. Steering gear, shafting and propellers, hydrofoil installations, air-cushion skirt elements, bottom and side valves shall also be surveyed when the craft is in a dry dock.

³ M — measurements of residual thickness of plates and framing members shall be made in the scope determined by RS surveyor according to technical condition. The minimum scope of thickness measurements is given in Table 2.4.2.6.2-1 of Part II "Survey Schedule and Scope" of these Rules. For the structures made of materials other than steel, the practicability and scope of thickness measurements shall be determined by the RS surveyor based on thorough examination of hull structures.

⁴ Tightness tests together with valves, refer to 5.11 of the Table.

⁵ Testing of hull compartments shall be conducted in accordance with 2.4.2.5 of Part II "Survey Schedule and Scope" of these Rules.

⁶ Shell plating, deck plating, platforms, inner bottom, bottom, side and deck framing, pillars, watertight bulkheads and recesses, foils attachments and reinforcements, angular propellers, pylons, lift air blowers, transmission reduction boxes and other loaded arrangements and machinery, which may cause vibrations, are surveyed from inside the spaces.

⁷ M — measurements of residual thickness of plates and framing members, refer to Footnote 3.

⁸ Tests afloat using fuel oil or lubricating oil are allowed.

⁹ Tests afloat are allowed, provided surveys from inside are also carried afloat.

¹⁰ Assessment of technical condition of corrosion protection is the responsibility of the shipowner.

¹¹ Examination is carried out by the shipowner each time when the craft is lifted out of the water.

¹² Examination and measurements (clearances in bearings and rudder sagging) are carried out during each craft's bottom survey in dry dock.

¹³ Remote control and monitoring systems shall be tested in operation.

¹⁴ Hydraulic tests of cylinders, piping and valves of carbon dioxide smothering system, vessels containing extinguishing medium, piping and valves of foam fire extinguishing system, inert gas system, dry powder system, halon smothering system, starting from the second special survey and then after two intervals between special surveys.

¹⁵ Examination of high-speed engines which cannot be repaired on board is not made. Operation of such engines is allowed only within the service life specified by the manufacturer, then the engines shall be replaced or repaired in the established order. Survey of high-speed engines by the Register shall be carried out in the scope and at intervals specified in the manufacturer's Operation Manual. Other engines are surveyed in the scope indicated in 4.1.1 of Table 2.1.1-1 of Part II "Survey Schedule and Scope" of these Rules.

25.2 SPECIAL SURVEY OF THE HULL

25.2.1 Periodicity.

The procedure for assigning period of class during special surveys shall comply with the applicable requirements listed in 2.4 of Part II "Survey Schedule and Scope" of these Rules.

25.2.2 Scope.

25.2.2.1 General.

25.2.2.1.1 Scope of the special survey of the hull shall include the scope of annual survey, as well as examinations, tests and checks to ensure that the hull and the related piping, as defined in 25.2.2.1.3, are in satisfactory condition and fit for the intended purpose for a new period of class of 5 years to be assigned, subject to proper maintenance and operation and to periodical surveys being carried out at the due dates.

25.2.2.1.2 All hull structures and piping specified in Table 25.1.3 of this Part of the Rules, shall be examined, and this examination shall be supplemented by testing of compartments as required by Annex 10 to the Guidelines, to ensure that the structural integrity remains effective. The examination shall be sufficient to reveal corrosion, deformations, fractures, damages and other structural deterioration that may be present.

25.2.2.1.3 All piping systems within the above spaces shall be examined in accordance with Annex 26 to the Guidelines (where applicable) and operationally tested under working pressure to the RS attending surveyor's satisfaction to ensure that tightness and condition remain satisfactory.

25.2.2.2 Overall and close-up survey.

25.2.2.2.1 An overall survey of all craft's spaces shall be carried out at each special survey. The minimum requirements for close-up surveys at special survey are given in 2.4 and 2.5, Part II "Survey Schedule and Scope" of these Rules as well as in relevant Sections of this Part depending on the hull material.

25.2.2.2.2 The RS surveyor may extend the close-up survey, as deemed necessary, taking into account maintenance of the spaces under survey, the condition of the corrosion prevention system and where spaces have structural arrangements or details, which have suffered defects in similar spaces or on similar ships according to available information.

25.2.3 Testing of compartments.

25.2.3.1 All hull compartments used for water ballast, fuel and other liquid cargoes shall be tested for tightness at special survey in compliance with the requirements of Annex 10 to the Guidelines.

25.2.3.2 The testing of compartment not intended for the carriage of liquids may be omitted, provided a satisfactory internal examination together with an examination of the upper parts is carried out.

25.2.3.3 During the tightness tests of hull structures the following preparation work shall be performed: surfaces of the structures subject to testing including welded and riveted joints shall be thoroughly cleaned and dried up.

25.3 ANNUAL SURVEY

25.3.1 Periodicity.

25.3.1.1 The procedure and scope of the annual surveys shall comply with the applicable requirements of 2.2 of Part II "Survey Schedule and Scope" of these Rules.

25.3.2 Scope.

25.3.2.1 General.

25.3.2.1.1 The survey shall consist of an examination for the purpose of ensuring, as far as practicable, that the hull, weather decks, hull closures and systems piping are maintained in a satisfactory condition and should take into account the service history, condition and extent of the corrosion prevention system.

25.3.2.2 Hull survey.

25.3.2.2.1 When assigning the scope of close-up survey, requirements of relevant Sections of these Rules depending on the type and/or material of the hull shall be considered.

25.3.2.2.2 Overall survey shall consist, as far as practicable, of external examination of the mentioned below structures, but not limited to:

.1 side and bottom shell plating in the underwater and above-water parts of the hull, including the areas of intense vibration, impact loads, hydrofoil installation location, stiffeners

and foils attachments, propeller shaft brackets, angular propellers, rudder stock, foil pivot mechanism; shell plating in way of discharge valves, sea chests and hulls connecting catwalks; stem, transom, bilges, skegs, steps, niches;

.2 rigid air ducts and wells, landing pads, hull components intended for craft lifting and reinforcements for them;

.3 rigid structures supporting and dividing the air cushion, flexible skirt of the air cushion, attachment points and lifting mechanisms of the flexible skirt;

.4 hydrofoil installations and stabilization controls;

.5 deck plating enclosing buoyancy compartments and ensuring longitudinal strength;

.6 spaces inside the hull: peaks, void spaces, cofferdams; fuel oil tanks, lube oil tanks, ballast tanks, grey and black water tanks (sanitary/domestic waste water and sewage holding tanks); machinery spaces, passenger and public spaces, other spaces of the hull, superstructures and wheelhouses;

.7 structures inside hull compartments, including bottom, side and deck framing; transverse bulkheads;

.8 hatch and manhole covers of the open deck areas and inside the superstructures, outer doors of superstructures and wheelhouses, portholes, covers of ventilators bell-mouth and openings;

.9 systems piping within the above mentioned spaces shall be examined in accordance with Annex 26 to the Guidelines (where applicable) to confirm that their tightness and condition remain satisfactory.

25.4 INTERMEDIATE SURVEY

25.4.1 Periodicity.

25.4.1.1 The procedure and scope of the intermediate surveys shall comply with the applicable requirements of 2.3 of Part II "Survey Schedule and Scope" of these Rules.

25.4.1.2 The scope of survey of hull structures at intermediate survey consists of the scope of the annual hull survey and the scope of additional hull surveys taking into account that for ships over 10 years of age, an additional examination for particular structures shall be carried out with access, opening-up or dismantling being provided, where necessary.

25.5 SURVEY OF THE OUTSIDE OF THE CRAFT'S BOTTOM

25.5.1 At survey of the outside of the craft's bottom applicable requirements of 2.5 of Part II "Survey Schedule and Scope" of these Rules shall be considered."