Maritime Technology Services



CCS marine product inspection

CCS
CHINA CLASSIFICATION SOCIETY
中国船级社

Why a certificate is needed?

Classification requirement by classification societies; Flag state statutory requirements; Requirements of contract or agreement.

Why choose China Classification Society?

Material and equipment are the essential parts of ships. The quality of products is the foundation and guarantee of high quality ships. Therefore, marine product inspection plays a key role in the work of ship survey.

CCS has a survey team with rich experience of carrying out marine product inspection. With the help of effective control of all processes of the inspection including design, manufacture and test of marine product and quality management, all of which have impacts on the product quality, the quality of marine product is guaranteed to comply with the related conventions, regulations, rules and standards and a prerequisite is in place for safeguarding the quality of ships and the safety of life at sea.

Periodically, CCS publishes “List of Approved Marine Products” (www.ccs.org.cn), making public the qualified marine products approved by CCS with the aim to supply information to shipowners, shipyards and ship design institutes to choose satisfactory equipment, parts and materials for construction, repair and conversion of a ship.

CCS also performs inspection and approval of marine products for manufacturers worldwide spreading over around 30 countries and regions including Asia, Europe, the Americas, Oceania etc. The products inspected cover the industries of metallurgy, machinery, electronics, oil, chemical engineering and shipbuilding, etc.

What materials and equipment need product inspection?

The products required by CCS rules for classification and statutory products required by international conventions and regulations of the flag state shall be inspected by CCS, as well as products of third-party test which mainly include the following:

- Metal materials and products
- Non-mental materials and products
- Main engine and auxiliary machinery
- Boiler and pressure vessels
- Pollution-prevention equipment
- Fire-fighting appliances
- Fire-resistant material and fire-resistant structural elements
- Life-saving appliances
- Crane and parts
- Electrical equipment
- Radio communication and navigation equipment
- Fittings

Service modes provided by China Classification Society

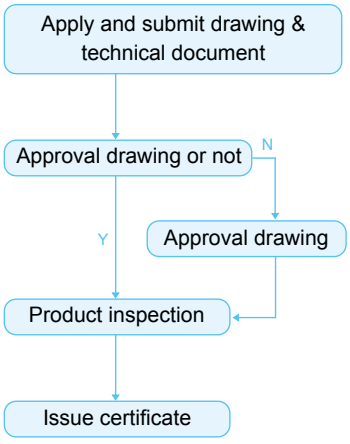
Product inspection is the basic mode of CCS marine product inspection. Namely, after CCS verification of the products complying with the requirements by reviewing the technical documents (drawings and technical criteria) and the type test of necessary items, CCS shall affix an inspection mark of CCS on the product and issue product certificate or equivalent document.

After individual/batch inspection by CCS, the classification products and statutory products shall be recorded and identified by the following: Marine Products Certificate; Equivalent Document.

For the products not covered in rules and statutory requirements, they shall, after individual/batch inspection, be recorded and identified by the following: Inspection Certificate; Test Certificate.

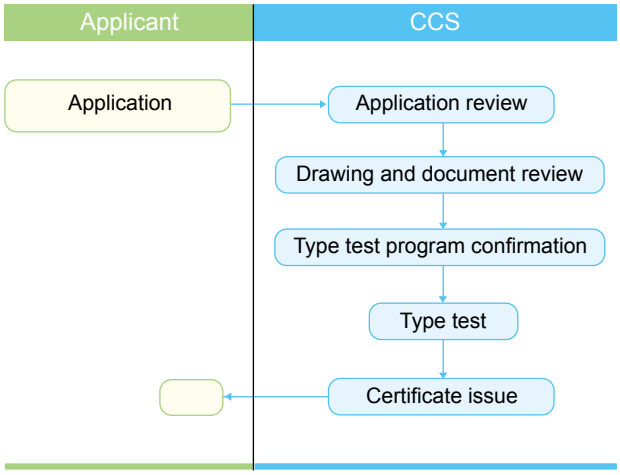
In the course of survey, to avoid unnecessary repeated test of the same product or in the case that the field inspection by the surveyor could be substituted to a certain extent based on the QA system of the manufacturer, CCS provides various modes of approval according to the categories of marine products for the manufacturer to choose when applying for the inspection of marine product. According to CCS' Rules and Regulations, there are following approval modes for CCS products certification:

Flow Chart Of Product Inspection



- **Design approval:** to verify that the products comply with the requirements of IMO convention, CCS rules or applicable criteria by way of reviewing the drawings and technical documents and related survey and experiment, such as windlasses, winches, steering gear. Certificate of design approval will be issued after CCS approval.

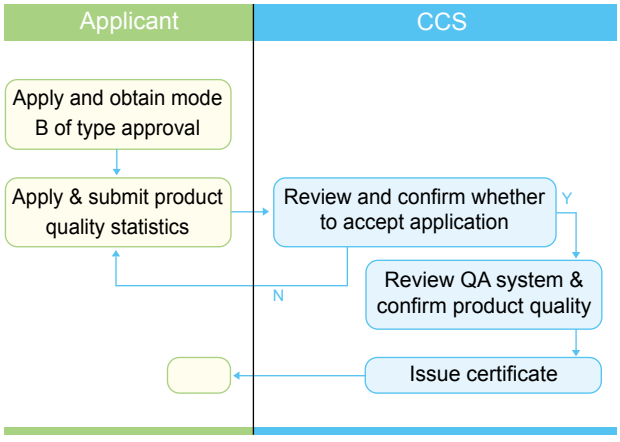
Flow Chart Of Design Approval



- **Type approval:** type approval can be divided into Mode A and Mode B.

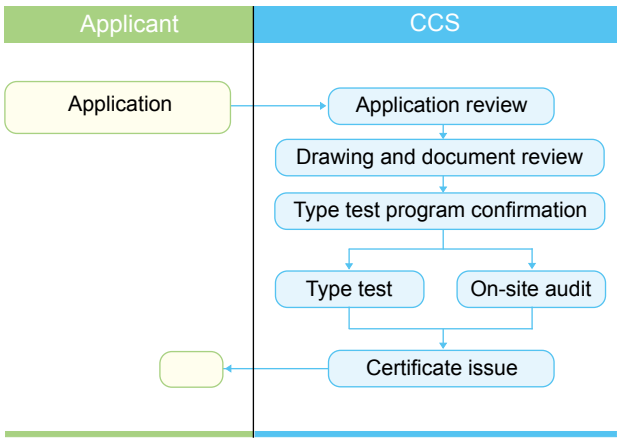
  ▶ Mode A of type approval is the high-level approval to be granted to the manufacturer with high-quality, based on the Mode B of type approval. Mode A of type approval =Mode B of type approval + perfect Q.A. system of the manufacturer + reliable quality of the products. For the manufacturer which has obtained the Mode A of type approval, CCS accepts that the field inspection of the surveyor can be replaced partly or totally by the quality statements supplied by quality inspector (designated) of the manufacture. Type approval mode A certificate will be issued after CCS approval.

Flow Chart Of Mode A Type Approval



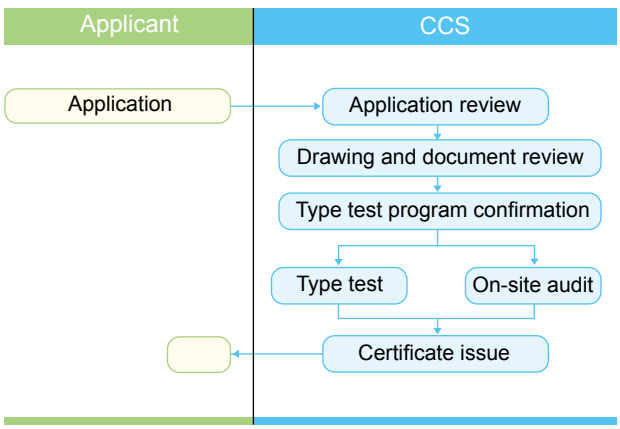
▸ Mode B of type approval refers to the approval granted by CCS for the Standardized Design and fitness for purpose of the product when CCS confirms that the products, the production and test equipment of the manufacturer, and the system of basic quality control comply with the regulations of CCS rules after the review of the product drawings and technical documents, verification of related technology, approval tests and field audit. For example, after CCS approval of diesel engines and pumps, type approval mode B certificate will be issued.

Flow Chart Of Mode B Type Approval



- **Works approval** refers to the approval of the manufacturer's conditions and capability for producing certain type of product, which is granted by the Society based on document review, approval test and field audit. Such as steel plates. Certificate of works approval will be issued after CCS approval.

Flow Chart Of Works Approval

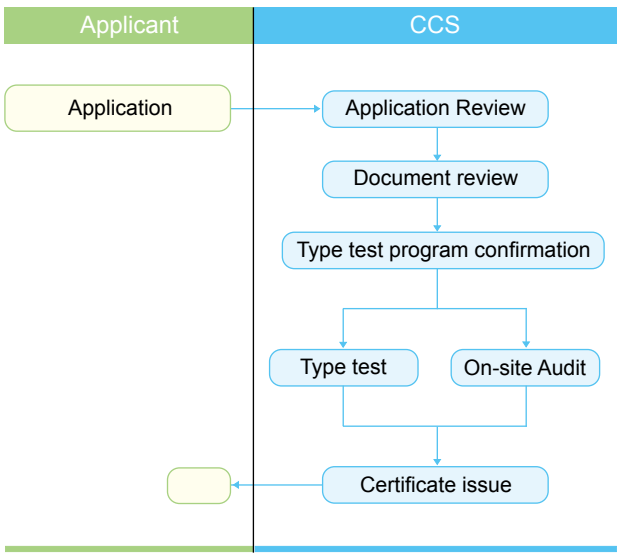


- **Approval of service firm of inspection and testing** refers to the approval of the product test and inspection institute's conditions and capability for marine and product-specific inspection and test projects which is granted by the Society based on document review, approval test and field audit. Certificate will be issued after CCS approval.

- **Class Notation Approval Certificate For Products** refer to the approval that comply with additional requirements of CCS by way of means as document examination, on-site audit and type test. There are currently five kinds of notations, are:

  Asbesto-free;
  Hongkong Convention;
  EU ship recycling Regulation;
  E-Noise.
  SLC1,SLC2,SLC3

Flow Chart Of Class Notation Approval Certificate For Products



Certification distinguish

● **E-Certificate** includes the digital signature displayed on the top of the document reader and in the signature panel to prevent electronic documents from being forged or illegally tampered with. A URL, a QR code and a unique identification code with a hyperlink (UTN code, such as S018-123456) are displayed below, in the front page of the document to verify the validity of the E-Certificate.

CCS certificate in anti-counterfeiting protection

● **Paper certificate/equivalent** document includes the seal of CCS, the signature of the surveyor, QR code, UTN code and the CCS anti-counterfeiting label as shown in Figure1.



Figure 1. the seal of CCS, the signature of the surveyor, QR code, UTN code and the CCS anti-counterfeiting label in the paper certificate/ equivalent document (sample)

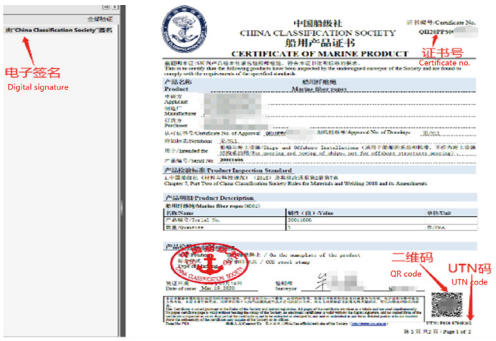


Figure 2. Digital signature, QR code and UTN code in the E-Certificate (sample)



Figure 3. Digital signature, QR code in the Equivalent Document Manufacturer's document (sample)

How to verify the validity of the certificates online?

● **Certificate of Marine Product (including both E-Certificate and traditional paper certificate) may be verified by any of the following methods**

Method 1:
The parties concerned can directly scan the QR code through CCS APP to verify the validity of the certificates.

Method 2(only for E-Certificate):
Go to CCS Website (https://www.ccs.org.cn/ccswzen/) → Online Service → E-Certificate & E-Document Verification → fill out the Unique Tracking No. (UTN) (which can be found below the bar code at the footer of the first page of the certificate) and Cert. No.

Method 3:
Go to CCS Website (https://www.ccs.org.cn/ccswzen/) → Information Center → Marine Product Information → fill out: the anti-fake code or UTN code (which can be found below the bar code at the footer of the first page of the certificate) and Cert. No.

● **Equivalent Document Manufacturer's document**
Go to CCS Website (https://www.ccs.org.cn/ccswzen/) → Information Center → Marine Product Information → Product Certificate Info → Equivalent Document → fill out: the anti-fake code or UTN code (which can be found below the bar code at the footer of the first page of the certificate) and Cert. No.

List of certification requirements

Appendix 1A List of certification requirements for classed marine products

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
					Material				
1	Metal material								
1.1	Rolled steel	X	–	–	–	–	X	–	Applicable to rolled steel for ships and offshore installations
1.2	Aluminum alloy	X	–	–	–	–	X	–	Applicable to aluminum alloy plate and section (including bar and pipe) for hull as well as aluminum alloy required by plan approval or strength calculation
1.3	Other non-ferrous metal material	X	–	–	–	–	X	–	Such as titanium and titanium alloy, copper and copper alloy, etc.
1.4	Steel wire rope	X	–	–	–	–	X	–	Applicable to towing and mooring ropes for towing ships, steel wire rope for lifting appliances and steel wire rope substituting anchor chain
2	Non-metallic material								
2.1	Resin	–	X	–	–	–	X	–	
2.2	Reinforcement material	–	X	–	–	–	X	–	
2.3	Fiber rope	X	–	–	–	–	X	–	Towing and mooring ropes for towing ships
2.4	Epoxy casting material for seating	–	X	–	–	–	X	–	For filling seating clearance of main engine, auxiliary engine and deck machinery
2.5	Synthetic (bearing) material	–	X	–	–	–	X	–	Nonmetallic synthetic material for bearings of rudder stock, rudder pin, rudder axle and stern shaft
2.6	Heat-insulating material	–	X	–	–	–	X	–	Applicable to LNG carrier and refrigerated ship
2.7	Cargo bearer	–	X	–	–	–	X	–	Applicable to tanker with independent tanks type C
2.8	Cargo hold supporting gaskets	–	X	–	–	–	X	–	Applicable to tanker with independent tanks type C
2.9	Wrapping material of the propeller shaft	–	X	–	–	–	X	–	For ships with water-lubricated screwshaft condition monitoring (SCM) system applying for the class notation SCM
2.10	Structural adhesives	—	X	—	—	—	X	—	
3	Welding consumables								
3.1	Electrode	–	X	–	–	–	X	–	
3.2	Wire	–	X	–	–	–	X	–	
3.3	Flux	–	X	–	–	–	X	–	
4	Corrosion resistant means								

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
4.1	Shop primer	–	X	–	–	–	X	–	For temporary protection after surface treatment of metal material
4.2	Coating below ship's waterline	–	X	–	–	–	X	–	Including bottom anti-corrosive paint, bottom anti-fouling paint and anodic shielding
4.3	Coating above ship's waterline	–	X	–	–	–	X	–	Including marine anti-corrosive paint, marine waterline paint, hull paint, deck paint, cargo hold paint and internal compartment finish coating
4.4	Ship tank coating	–	X	–	–	–	X	–	Including marine drinking water tank paint, ship ballast tank paint, ship oil tank paint, crude oil tanker cargo oil tank paint and engine room bottom paint
4.5	Sacrificial anode	X	–	–	–	–	–	–	
4.6	Cathodic protection system	X	–	–	–	–	–	X	
					Hull				
5	Hull structure equipment	X	–	–	–	–	X	X	
5.1	Stem, stern post, rudder horn, propeller shaft bracket and fore wheel bearing seating	X	–	–	–	–	–	X	Applicable to all forgings and castings integral to hull, and carrying out inspection and certification to roughly machined forgings and castings
5.2	Hatch cover	X	–	–	–	–	–	X	
5.3	Window	X	–	–	–	–	–	X	
5.4	Bow, stern and gangway doors	X	–	–	–	–	–	X	Including control, indication and alarm
5.5	Watertight door	X	–	–	–	–	–	X	Including control, indication and alarm
5.6	Portable means of access for inspections	X	–	–	–	–	–	X	Applicable to portable means of access for inspections listed according to approved ship structure access manual and kept on board (extension ladder type and cradle type lifting by winch)
5.7	Container securing arrangements	X	–	–	–	–	–	X	Applicable to container ships and non-container ships applying for class notation of container securing arrangements
5.8	Loading computer	–	X	–	X	–	–	X	Applicable to hardware, product inspection is not necessary for the ship provided with two loading computers
6	Outfitting								
6.1	Rudder blade	X	–	–	–	–	–	X	Raw material and products with finish machining are required to be inspected, requirements for raw material are shown in Appendix 2A

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
6.2	Rudder stock and pintle	X	–	–	–	–	–	X	Raw material and products with finish machining are required to be inspected, requirements for raw material are shown in Appendix 2A
6.3	Rudder bearing	X	–	–	–	–	–	X	Raw material and products with finish machining are required to be inspected, requirements for raw material are shown in Appendix 2A
6.4	Rudder stock connecting bolt	X	–	–	–	–	–	X	Raw material and products with finish machining are required to be inspected, requirements for raw material are shown in Appendix 2A
6.5	Single point mooring arrangement	X	–	–	X	O	–	X	Only spare parts need inspection and certificate
6.6	Emergency towing arrangement	X	–	–	X	O	–	X	Only spare parts need inspection and certificate, applicable to oil tankers, liquefied gas carrier and dangerous chemical carrier more than 20,000 tonnes deadweight
6.7	Towing hook	X	–	–	–	–	–	X	Applicable to towing vessels of ship type
6.8	Towing winch	X	–	–	–	–	–	X	Applicable to towing vessels of ship type, and the first product is to be subject to type test
6.9	Seats of high speed craft	–	X	–	X	–	–	X	Applicable to high speed craft
6.10	Accommodation ladder, ramp	X	–	–	–	–	–	X	
7	Anchoring and mooring equipment								
7.1	Anchor chains and fitting	X	–	–	–	–	X	O	Plan approval is only required for unmarked anchor chain fitting
7.2	Anchors and accessory	X	–	–	–	–	X	X	
7.3	Chain stopper	X	–	–	–	–	–	X	
7.4	Cable clenches	X	–	–	–	–	–	X	Applicable to cable clenches with watertight requirements in regulation 22-2 of Load Line Convention
7.5	Windlass	X	–	–	–	–	–	X	The first product is to be subject to type test
7.6	Mooring winch and capstan	X	–	–	–	–	–	X	The first product is to be subject to type test
7.7	Winch or capstan for operation	X	–	–	–	–	–	X	Applicable to working ships, and the first product is to be subject to type test
Machinery (including machinery equipment of refrigerated vessels)									
8	Pumps and piping								
8.1	Bilge pump and bilge injection pump	X	–	–	X	O	–	X	

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
8.2	Ballast pump	X	–	–	X	O	–	X	
8.3	Liquid cargo pump, stripping pump and tank cleaning pump	X	–	–	X	O	–	X	Oil tanker, tanker carrying liquefied gas in bulk and tanker carrying dangerous chemicals in bulk
8.4	Fuel oil pump	X	–	–	X	O	–	X	Including gas fuel pump
8.5	Fuel oil injection valve cooling pump	X	–	–	X	O	–	X	
8.6	Lubricating oil pump	X	–	–	X	O	–	X	Lubricating oil pump for diesel engine and gearbox
8.7	Fire pump (including emergency fire pump)	X	–	–	X	O	–	X	
8.8	Cooling water pump	X	–	–	X	O	–	X	Cooling water pump for diesel engine
8.9	Boiler feed pump	X	–	–	X	O	–	X	
8.10	Boiler circulating water pump	X	–	–	X	O	–	X	
8.11	Hot oil circulating pump	X	–	–	X	O	–	X	
8.12	Condensate pump	X	–	–	X	O	–	X	Condensate pump for main condenser, gas pump and circulating pump
8.13	Pipes of more than 50 mm in diameter for piping of Classes I and II and fittings (flange, bend and three-way, etc.)	X	–	–	–	–	X	–	
8.14	Pipes of 50 mm in diameter and below for piping of Classes I and II and fittings (flange, bend and three-way, etc.)	–	X	–	–	–	X	–	
8.15	Pipes for piping of Class III and fittings (flange, bend and three-way, etc.)	–	X	–	–	–	X	–	
8.16	Valves of 50 mm in diameter and over for piping of Classes I and II, valves of 300 mm in diameter and over for piping of Class III; sea valve; (operation temperature below -55 ℃) low temperature valve	X	–	–	X	O	–	X	
8.17	Valves of less than 50 mm in diameter for piping of Classes I and II	–	X	–	X	–	–	X	

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
8.18	Plastic pipe	–	X	–	–	–	X	–	Applicable to pipes mentioned in Appendix 1, Chapter 2, PART THREE of the Rules, also applicable to the plastic pipes used on the machinery
’8.19	Flexible hose assembly, for piping of Classes I and II or more than 50 mm in diameter	‘X	–	–	X	O	–	X	For fuel oil, lubricating oil, hydraulic and hot oil system, fresh water and sea water cooling system, compressed air system, bilge and ballast system, also applicable to the flexible hoses used on the machinery of the above systems
8.20	Flexible hose assembly: except for above-mentioned	O	X	–	X	–	–	X	For fuel oil, lubricating oil, hydraulic and hot oil system, fresh water and sea water cooling system, compressed air system, bilge and ballast system as well as Class III steam piping system; C/E is necessary for gas pipe; applicable to the flexible hoses used on the machinery of the above systems
8.21	Mechanical pipe joint	–	X	–	X	–	–	X	
8.22	Corrugated expansion joint	–	X	–	X	–	–	X	
8.23	Air pipe closing appliance	X	-	–	X	–	–	X	
8.24	Spark arrester	–	X	–	X	–	–	X	
8.25	Sound damper	–	X	–	X	–	–	X	
8.26	Filter	X	–	–	–	–	–	X	For fuel oil, lubricating oil, sea water, fresh water system
9	Boiler and pressure vessel								
9.1	Boiler	X	–	–	–	–	X	X	Including hot oil boiler
9.2	Boiler burner	X	–	X	O	O	–	X	
9.3	Economizer	X	–	X	O	O	–	X	
9.4	Steam generator (over 0.35 MPa)	X	–	X	O	O	–	X	
9.5	Thermal oil and thermal water heating units (for service of propulsion machinery)	X	–	X	O	O	–	X	For heating oil and water for heat conduction
9.6	Safety valve	X	–	–	X	O	–	X	For boiler and air receiver, when kept on board separately
9.7	Boiler liquid meter	–	X	–	X	–	–	X	
9.8	Classes I and II pressure vessel	X	–	–	–	–	X	X	Air receiver, accumulator, etc.
9.9	Class III pressure vessel	X	–	–	–	–	O	X	Air receiver, accumulator, pressure tank, etc.

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
9.10	Heat exchanger	X	–	X	O	O	–	X	For heat exchange of fresh water, lubricating oil, hydraulic oil, fuel oil, steam and cooling systems
10	Machinery equipment								
10.1	Steam turbine	X	–	–	X	O	–	X	
10.2	Gas turbine	X	–	–	X	O	–	X	
10.3	Diesel engine	X	–	O	X	O	–	X	Dual fuel diesel engine and gas fuel engine are referred to this requirement
10.4	Air compressor	X	–	X	O	O	–	X	For 1) actuation / emergency actuation; 2) gas control system; 3) air compressor as replacement of spare air charging bottle of fireman's outfit
10.5	Oil separator	X	–	X	O	O	–	X	
10.6	Fuel oil supply unit	X	–	–	–	–	–	X	
10.7	Fan	X	–	X	O	O	–	X	For category A machinery space, cargo pump tank and other hazardous zone
10.8	Refrigerating plant	X	–	–	–	–	–	X	When there is class notation of cargo refrigeration
10.9	Hydraulic power plant	X	–	–	–	–	–	X	For adjustable pitch propeller (CPP), steering oar, steering gear, opening and closing hatch cover, driving cargo pump, etc.
10.10	Cargo compressor	X	–	–	–	–	–	X	Including compressor for gas fuel, for use by LNG and LPG carriers
10.11	Monitor, foam monitor	X	–	–	X	O	–	X	Applicable to external fire-fighting of fire-fighting ships applying for class notations of Fire Fighting Ship N
10.12	Steering arrangements								In addition to the steering gear, steering arrangements also include heading control system, rudder indicator, simplified operation box, starting box and alarm box for steering arrangements
10.12.1	Steering gear (of or more than 630 kNm)	X	–	–	–	–	–	X	The quality system of the steering gear manufacturer is to be satisfactorily audited by CCS; The components that transmit mechanical force to the rudder stock are to be satisfactorily inspected by CCS; The efficiency of the rudder steering mechanism is to be satisfactorily verified by the prototype test; The hydraulic pump set is to be subjected to a load test and satisfactorily inspected by CCS

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
10.12.2	Steering gear (below 630 kNm)	X	–	–	X	O	–	X	
10.12.3	Heading control system								This product is a statutory product and the requirements for its certification are shown in Appendix 1B 4.12
10.12.4	Rudder indicator								This product is a statutory product and the requirements for its certification are shown in Appendix 1B 4.5
10.12.5	Simplified operation box, starting box and alarm box for steering arrangements								See Appendix 1A, 13.11 for certification and inspection requirements
10.13	Fin stabilizer	X	–	–	–	–	X		
10.14	Foundation bolts of main engines	X	–	–	–	–	–	–	Applicable to engines with cylinder diameter >300 mm; inspection is to be according to the drawing of arrangement of foundation of main engine provided by the diesel engine manufacturer. The drawing is to include the following: Bolts (Mounting bolts and tightening bolts) Quantity, bolt diameter, bolt material (grade and performance), tightening bolt arrangement, thrust block arrangement
11	Gear transmission arrangement								
11.1	Gearbox	X	–	–	X	O	–	X	Applicable to gear transmission arrangement of main propulsion machinery for transmitting maximum continuous power of not less than 220 kW and essential auxiliary engine of not less than 110 kW
11.2	Gearbox	X	–	–	–	–	–	X	Applicable to gear transmission arrangement of main propulsion machinery for transmitting maximum continuous power of less than 220 kW and essential auxiliary engine of less than 110 kW
12	Shafting and propeller								
12.1	Thrust shaft	X	–	–	–	–	–	X	Machining inspection, requirements for raw material are shown a in Appendix 2A
12.2	Intermediate shaft and bearing	X	–	–	–	–	–	X	Machining inspection, requirements for raw material are shown a in Appendix 2A
12.3	Stern tube shaft, propeller shaft	X	–	–	–	–	–	X	Machining inspection, requirements for raw material are shown a in Appendix 2A
12.4	Stern tube	X	–	–	–	–	–	X	
12.5	Stern tube sealing device	–	X	–	X	–	–	X	Applicable to oil-lubricated stern shaft and water-lubricated stern shaft

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
12.6	Stern tube bearing	X	–	–	–	–	X	X	
12.7	Propeller	X	–	–	–	–	X	X	
12.8	Adjustable pitch propeller	X	–	–	–	–	–	X	
12.9	Z propulsion arrangement	X	–	–	–	–	–	X	
12.10	Side thruster	X	–	–	–	–	–	X	
12.11	Water jet propulsion arrangement	X	–	–	–	–	–	X	
12.12	Other thrusters	X	–	–	–	–	–	X	
12.13	Elastic coupling	X	–	–	X	O	–	X	
12.14	Non-elastic coupling	X	–	–	–	–	–	X	
12.15	Shafting connecting bolt	X	–	–	–	–	–	X	
12.16	Steel adjustable packing block	–	X	–	X	–	–	X	
12.17	Vibration isolator	–	X	–	X	–	–	X	
Electrical installations and automatic equipment									
13	Electrical installations								
13.1	Generators (50 kVA and over)	X	–	–	X	O	–	X	
13.2	Generators (below kVA) kVA) 50	–	X	–	X	–	–	X	
13.3	Generating sets (50 kVA and over)	X	–	–	–	–	–	X	
13.4	Emergency generating sets	X	–	–	–	–	–	X	
13.5	Motors (50 kW and over)	X	–	–	X	O	–	X	
13.6	Motors (below 50 kW)	–	X	–	X	–	–	X	
13.7	Main switchboard	X	–	–	–	–	–	X	
13.8	Emergency switchboard	X	–	–	–	–	–	X	
13.9	Group starter panel	X	–	–	–	–	–	X	
13.10	Charging and discharging panel	X	–	–	–	–	–	X	
13.11	Electrical control box (associated with essential equipment)	X	–	–	–	–	–	X	For the definition of essential equipment, refer to paragraph 1.1.2.1(1), Chapter 1, PART FOUR of the Rules
13.12	Power, control and communication cables and wires	X	–	–	–	–	X	X	Including optical fiber and network cables in control and communication cables
13.13	Transformers (50 kVA and over)	X	–	–	X	O	–	X	For power and lighting

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
13.14	Transformers (below 50 kVA)	–	X	–	X	–	–	X	For power and lighting, and single phase transformers rated at 1 kVA or more and 3-phase transformers rated at 5 kVA or more
13.15	Battery	–	X	–	X	–	–	X	For actuation of main and auxiliary engines or spare/emergency power supply
13.16	Power conversion devices (charger, frequency converter, etc.)	X	–	–	X	O	–	X	Charger for charging emergency battery, frequency converter of 50 kW and over
13.17	Uninterrupted Power Supply (UPS) (50 kVA and over)	X	–	–	X	O	–	X	For application, refer to 3.9.1, Chapter 3, PART FOUR of the Rules
13.18	Uninterrupted Power Supply (UPS) (below 50 kVA)	–	X	–	X	O	–	X	For application, refer to 3.9.1, Chapter 3, PART FOUR of the Rules
13.19	Additional emergency illumination equipment	–	X	–	X	O	–	X	For passenger ships with ro-ro cargo spaces or special spaces (refer to 2.2.2.3, Chapter 2, PART FOUR of the Rules)
13.20	Cable management system	X	–	–	–	–	–	X	Applicable to ships applying for class notation of shore power
13.21	Distribution panel for high voltage shore power connection	X	–	–	–	–	–	X	Applicable to ships applying for class notation of shore power
13.22	Control panel for high voltage shore power switch in	X	–	–	–	–	–	X	Applicable to ships applying for class notation of shore power
13.23	Lighting fitting	–	X	–	X	–	–	X	
13.24	Electrical heater	X	–	–	–	–	–	X	For heating combustible medium such as fuel oil and lubricating oil
13.25	Explosion-proof motor	X	–	–	X	O	–	X	
13.26	Explosion-proof lamp	–	X	–	X	–	–	X	
13.27	Other explosion-proof electrical equipment 1	X1	X1	–	X1	–	–	X	Applicable to electrical products for which the certification requirements are specified in the List of Certification Requirements (such as sensor, meter, detector and control box/cabinet, etc.)
13.28	Engine telegraph	–	X	–	X	–	–	X	
13.29	Sound-powered telephone	–	X	–	X	–	–	X	
13.30	Engineer's alarm system	X	–	–	X	O	–	X	
13.31	Automatic start device of generators	X	–	–	–	–	–	X	
13.32	Combined visual and audible alarm panel (box)	X	–	–	–	–	–	X	

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
13.33	Low voltage shore power box	X	–	–	–	–	–	X	Applicable to ships applying for class notation of shore power
14	Automatic equipment								
14.1	Propulsion machinery control system	X	–	–	X	O	–	X	
14.2	Engine room monitoring and alarm system	X	–	–	X	O	–	X	
14.3	Level measuring system	X	–	–	X	O	–	X	For level measuring outside cargo tank
14.4	Pressure, temperature, level measuring alarm system	X	–	–	X	O	–	X	Applicable to cargo tank
14.5	Valve remote control system	X	–	–	X	O	–	X	Including manual valve remote control system for emergency maneuvering
14.6	Dynamic positioning control system	X	–	–	X	O	–	X	
14.7	EOM system computer	–	X	–	X	–	–	X	Applicable to hardware, type approval is not necessary for two equipped computers which are standby each other. For ships applying for EOM notation
14.8	Shaft power meter	–	X	–	X	O	–	X	For ships applying for EOM notation
14.9	Flowmeter	–	X	–	X	O	–	X	For ships applying for EOM notation

Symbols:

1) C – Marine Products Certificate; E – Equivalent document; W – Manufacturer's document; X – Applicable; O – Optional.

2) DA – Design approval; TA-B – Type approval B; TA-A – Type approval A; WA – Works approval.

3) X[1]: The certification requirements for such explosion-proof product are consistent with those for the existing non explosion-proof product of the same type.

Appendix 1B① LIST OF CERTIFICATION REQUIREMENTS FOR STATUTORY MARINE PRODUCTS

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
1	Life-saving appliances								
1.1	Lifebuoy	X	–	–	X	O	–	X	
1.2	Position-indicating lamp for life-saving appliances	–	X	–	X	–	–	X	Including: for lifebuoy; for lifejacket
1.3	Spontaneous distress flare of lifebuoy	–	X	–	X	–	–	X	
1.4	Lifejacket	X	–	–	X	O	–	X	

① If the list is not consistent with the requirements of the flag State Government, the provisions of the flag State Government are to prevail.

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
1.5	Immersion suit, anti-exposure suit	X	–	–	X	O	–	X	
1.6	Thermal protective aid	–	X	–	X	–	–	X	
1.7	Visual signal	–	X	–	X	–	–	X	Including: rocket parachute flare; hand flare; buoyant smoke signal
1.8	Line-throwing appliance	–	X	–	X	–	–	X	
1.9	Life rafts	X	–	–	X	O	–	X	
1.10	Life boats	X	–	–	X	O	–	X	
1.11	Rescue boats	X	–	–	X	O	–	X	
1.12	Lowering apparatus	X	–	–	X	O	–	X	
1.13	Marine evacuation system	X	–	–	X	O	–	X	
1.14	Rescue equipment for person falling into water	X	–	–	X	O	–	X	Effective means for recovering the survival from water surface and transferring them from rescue equipment or life boat to the ship
1.15	Embarkation ladder	X	–	–	–	–	–	X	
1.16	Public address system	X	–	–	X	O	–	X	
1.17	General emergency alarm system	X	–	–	X	O	–	X	
2	Pollution prevention at sea								
2.1	Oil-filtering equipment	X	–	–	X	O	–	X	Oil content of effluent not exceeding 15 ppm
2.2	Oil/water interface detector	X	–	–	X	O	–	X	
2.3	Existing oil-filtering equipment (additional treatment equipment in MEPC.60(33))	X	–	–	X	O	–	X	Oil content of effluent not exceeding 15 ppm
2.4	Oil discharge monitoring and control system	X	–	–	X	O	–	X	For oil tanker
2.5	Sewage treatment plant	X	–	–	X	O	–	X	
2.6	Incinerator	X	–	–	X	O	–	X	
2.7	Nitrogen oxide analyzer (chemical luminescent detector (CLD) type/ heating chemical luminescent detector (HCLD) type)	X	–	–	X	O	–	X	For direct measurement of nitrogen oxide on board ship
2.8	Exhaust cleaning system	X	–	–	X	O	–	X	Exhaust cleaning system for scheme A
2.9	Equipment reducing NOx emission on board by other equivalent method	X	–	–	X	O	–	X	
2.10	Equipment limiting SOx emission by other	X	–	–	X	O	–	X	

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
2.11	NOx emission of diesel engines of over 130 kW	X	–	–	X	O	–	X	EIAPP certificate
2.12	Ballast water management system	X	–	–	X	O	–	X	
2.13	Crude oil washing machine	X	–	–	X	O	–	X	
2.14	Comminuting and disinfecting system	X	–	–	X	O	–	X	For sewage
2.15	Devices for processing and recording after discharge	X	–	–	X	O	–	X	
3	Fire-resisting material, structure and fire-fighting equipment								
3.1	Deck covering	–	X	–	–	–	X	–	
3.2	Non-combustible material	–	X	–	–	–	X	–	
3.3	Low flame spread material	–	X	–	–	–	X	–	Including: decoration sheet; paint; floor; insulation for cooling piping fittings; adhesives for classes “A”, “B” and “C” division; combustible duct
3.4	Vertical-mounted textile and film	–	X	–	–	–	X	–	Applicable to spaces of passenger ships with requirements for limited fire hazard
3.5	Soft cushion furniture	–	X	–	–	–	X	–	Applicable to spaces of passenger ships with requirements for limited fire hazard
3.6	Bedding	–	X	–	–	–	X	–	Applicable to spaces of passenger ships with requirements for limited fire hazard
3.7	Classes A, B and F fire division	–	X	–	X	–	–	X	
3.8	Class A fire window/side scuttle	X	–	–	X	O	–	X	
3.9	Class A and class B division penetrations	–	X	–	X	–	–	X	Including: (a) cable penetration; (b) penetrations such as pipes, ducts and ports (for penetration piping made of steel 3 mm and over in thickness, not less than 900 mm in length or the equivalent material with no opening, certificate is not required); class B division penetrations made of a steel sleeve, having a thickness of not less than 1.8 mm and a length of not less than 900 mm for pipe diameters of 150 mm or more and not less than 600 mm for pipe diameters of less than 150 mm, certificate is not required

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
3.10	Fire door	X	–	–	X	O	–	X	
3.11	Fire door control device	X	–	–	X	O	–	X	
3.12	Fire damper	X	–	–	X	O	–	X	
3.13	Flame-retarding material for furniture on high speed craft	–	X	–	–	–	X	–	
3.14	Flame-retarding material for high speed craft	–	X	–	–	–	X	–	Except for furniture
3.15	Fire division of high speed craft	–	X	–	X	–	–	X	
3.16	Fire division penetration of high speed craft	–	X	–	X	–	–	X	Including: cable penetration; penetration such as pipe, duct and port
3.17	Flame arrester	X	–	–	X	O	–	X	
3.18	Pressure vacuum valve	X	–	–	X	O	–	X	Including high speed venting valve and breathing valve
3.19	Bulkhead gearing	X	–	–	–	–	–	X	
3.20	Fixed gas fire-extinguishing arrangement (CO_2)	X	–	–	X	O	–	X	
3.21	Fixed equivalent gas fire-extinguishing arrangement	X	–	–	X	O	–	X	For machinery space and cargo pump tank
3.22	Equivalent gas fire-extinguishing arrangement (aerosol system)	X	–	–	X	O	–	X	For machinery space
3.23	Fixed local water-based fire-extinguishing arrangement	X	–	–	X	O	–	X	For machinery space of category A
3.24	Fixed water-based fire-extinguishing arrangement	X	–	–	X	O	–	X	For ro-ro space and special space
3.25	Fixed high-expansion foam fire-extinguishing arrangement	X	–	–	X	O	–	X	For machinery space and cargo pump tank protection
3.26	Fixed medium-expansion foam fire-extinguishing arrangement	X	–	–	X	O	–	X	For fixed deck system
3.27	Fixed low-expansion foam fire-extinguishing arrangement	X	–	–	X	O	–	X	For machinery space and deck protection
3.28	Foam fire-extinguishing medium	–	X	–	–	–	X	–	
3.29	Chemical dry powder fire-extinguishing arrangement	X	–	–	X	O	–	X	
3.30	Fixed pressure water spray fire-extinguishing arrangement	X	–	–	X	O	–	X	For a) cabin balcony; b) machinery space and cargo pump tank

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
3.31	Sprinkler arrangement	X	–	–	X	O	–	X	For accommodation space, service space and control station (including fixed sprinkler arrangement for high speed craft)
3.32	Helicopter deck foam fire-extinguishing arrangement	X	–	–	X	O	–	X	
3.33	Helicopter land area foam fire-extinguishing arrangement	X	–	–	X	O	–	X	
3.34	Fixed fire-extinguishing arrangement for gallery discharge duct	X	–	–	X	O	–	X	
3.35	Inert gas system	X	–	–	X	O	–	X	
3.36	Portable foam applicator	X	–	–	X	O	–	X	
3.37	Portable fire extinguisher	X	–	–	X	O	–	X	
3.38	Trolley type fire extinguisher	X	–	–	X	O	–	X	
3.39	Water jet/spray nozzle	–	X	–	X	–	–	X	
3.40	Fire hoses	–	X	–	X	–	–	X	
3.41	Fireman's protective clothing (insulation clothing)	–	X	–	X	–	–	X	
3.42	Lifeline	–	X	–	X	–	–	X	
3.43	Self-contained compressed air breathing apparatus	X	–	–	X	O	–	X	
3.44	Compressed air breathing apparatus	X	–	–	X	O	–	X	
3.45	Emergency escape breathing device	X	–	–	X	O	–	X	
3.46	Low location lighting system	–	X	–	X	–	–	X	
3.47	Equivalent low location lighting system	–	X	–	X	–	–	X	
3.48	Electrical safety lamp (explosion-proof electrical safety lamp)	–	X	–	X	–	–	X	For fireman's outfit specified in Chapter 3 of FSS Code
3.49	Portable oxygen concentration measuring device	X	–	–	X	O	–	X	
3.50	Fixed oxygen analyzing and gas detecting equipment	X	–	–	X	O	–	X	
3.51	Fixed hydrocarbon gas detection system	X	–	–	X	O	–	X	
3.52	Smoke detection system	X	–	–	X	O	–	X	
3.53	Fixed fire detection and alarm system	X	–	–	X	O	–	X	

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
3.54	Two-way portable radiotelephone apparatus of an explosion-proof type for fire-fighters	X	–	–	X	O	–	X	
4	Navigational equipment								
4.1	Magnetic compass	X	–	–	X	O	–	X	
4.2	Gyrocompass	X	–	–	X	O	–	X	
4.3	Propulsion indicator	–	X	–	X	–	–	X	
4.4	Side thrust, pitch and operational mode indicator	–	X	–	X	–	–	X	
4.5	Rudder indicator	–	X	–	X	–	–	X	
4.6	Propeller speed indicator	–	X	–	X	–	–	X	
4.7	Pitch indicator	–	X	–	X	–	–	X	
4.8	Rate-of-turn indicator	–	X	–	X	–	–	X	
4.9	Echo-sounding equipment	X	–	–	X	O	–	X	
4.10	Transmitting heading device (THD)	X	–	–	X	O	–	X	
4.11	Speed and distance measuring equipment (SDME)	X	–	–	X	O	–	X	
4.12	Heading control system (HCS)	X	–	–	X	O	–	X	
4.13	Track control system	X	–	–	X	O	–	X	
4.14	Integrated navigation system (INS)	X	–		X	–	–	X	
4.15	Integrated bridge system (IBS)	–	X	–	X	–	–	X	
4.16	Voyage data recorder	X	–	–	X	O	–	X	
4.17	Simplified voyage data recorder (S-VDR)	X	–	–	X	O	–	X	
4.18	Electronic chart display and information system (ECDIS) and backup equipment, raster chart display system (RCDS)	X	–	–	X	O	–	X	
4.19	Electronic chart system (ECS)	X	–	–	X	O	–	X	
4.20	Multi-system electronic positioning equipment	X	–	–	X	O	–	X	
4.21	Global positioning system (GPS) receiver equipment	X	–	–	X	O	–	X	

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
4.22	Shipborne BEIDOU Satellite navigation system (BDS) receiver equipment	X	–	–	X	O	–	X	
4.23	9 GHz radar search and rescue transponders (SART)	X	–	–	X	O	–	X	
4.24	AIS SART equipment	X	–	–	X	O	–	X	
4.25	Automatic Identification System (AIS)	X	–	–	X	O	–	X	
4.26	Radar equipment	X	–	–	X	O	–	X	
4.27	Radar equipment with chart option	X	–	–	X	O	–	X	
4.28	Radar reflector—passive type	–	X	–	X	–	–	X	
4.29	Radar target intensifier	–	X	–	X	–	–	X	
4.30	Searchlight for high speed craft	–	X	–	X	–	–	X	
4.31	Night-vision unit for high speed craft	X	–	–	X	–	–	X	
4.32	Daylight signaling lamp	X	–	–	X	O	–	X	
4.33	Bridge navigational watch alarm system (BNWAS)	–	X	–	X	–	–	X	
4.34	Sound reception system	X	–	–	X	O	–	X	
4.35	Long-range identification and tracking system (LRIT)	X	–	–	X	O	–	X	
4.36	Ship's electronic clinometer (navigation bridge)	X	–	–	X	O	–	X	
4.37	Pilot ladder	X	–	–	–	–	–	X	
4.38	Pilot's accommodation ladder	X	–	–	–	–	–	X	
4.39	Suez Canal searchlight	X	–	–	–	–	–	X	
5	Radio communication equipment								
5.1	VHF radio installations capable of voice communication and digital selective calling (DSC)	X	–	–	X	O	–	X	
5.2	MF radio installations capable of voice communication and digital selective calling (DSC)	X	–	–	X	O	–	X	
5.3	MF DSC watch-keeping receiver	X	–	–	X	O	–	X	
5.4	M/HF DSC watch-keeping receiver	X	–	–	X	O	–	X	

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
5.5	Narrow-band direct printing telegraph equipment receiving safety information to ship by high frequency	X	–	–	X	O	–	X	
5.6	VHF DSC watch- keeping receiver	X	–	–	X	O	–	X	
5.7	NAVTEX receiver	X	–	–	X	O	–	X	
5.8	Enhanced group call receiver	X	–	–	X	O	–	X	
5.9	406 MHz emergency position-indicating radio beacon (COSPAS-SARSAT)	X	–	–	X	O	–	X	
5.10	BEIDOU emergency position-indicating radio beacon (BD-EPIRB)	X	–	–	X	O	–	X	
5.11	INMARSAT ship earth station	X	–	–	X	O	–	X	
5.12	MF/HF radio installation capable of voice communication narrow band direct-printing telegraph and digital selective calling (DSC)	X	–	–	X	O	–	X	
5.13	Portable survival craft two-way VHF radiotelephone apparatus	X	–	–	X	O	–	X	
5.14	VHF emergency position-indicating radio beacon	X	–	–	X	O	–	X	
5.15	Distress alarm panel	X	–	–	X	O	–	X	
5.16	Ship security alert system	X	–	–	X	O	–	X	
5.17	Aviation two-way VHF radiotelephone apparatus	O	X	–	O	O	–	X	Accepted upon certification of the site survey unit
6	Equipment required by International Regulations for Preventing Collisions at Sea, 1972								
6.1	Navigation light	–	X	–	X	–	–	X	
6.2	Navigation light control panel	X	–	–	X	O	–	X	
6.3	Whistle	X	–	–	X	O	–	X	
6.4	Control panel of whistles	–	X	–	X	–	–	X	
6.5	Audible signal equipment (bell and gong)	–	X	–	X	–	–	X	
7	SOLAS II-1 equipment								

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
7.1	Water ingress detection alarm system	X	–	–	X	O	–	X	
7.2	Transfer arrangements	X	–	–	–	–	–	X	Embarkation and disembarkation of personnel on board the ships constructed after January 1, 2010, to which SOLAS Chapter II-1, Part A-1 apply
8	SOLAS II-2 equipment								
8.1	Deep-fat cooking equipment	O	X	–	X	O	–	X	
8.2	Fire-extinguishing appliances of deep-fat cooking equipment	O	X	–	X	O	–	X	
8.3	Water fog applicator	–	X	–	X	–	–	X	For container ships
9	SOLAS XI-1 equipment								
9.1	Portable atmosphere testing instrument	X	–	–	X	O	–	X	
10	IBC and IGC Codes								
10.1	Cargo hose	O	X	–	X	O	–	X	

Symbols:
C – Marine Products Certificate; E – Equivalent document; W – Manufacturer's document; X – Applicable; O – Optional.
DA – Design approval; TA-B – Type approval B; TA-A – Type approval A; WA – Works approval.
Note: Other statutory marine products with certification requirements of the Administration are to be implemented as required by the Administration.

Appendix 1C LIST OF CERTIFICATION REQUIREMENTS FOR LIFTING APPLIANCES

No.	Product name	Document		Approval mode				Plan approval	Remark
		C/E	W	DA	TA-B	TA-A	WA	PA	
1	Derrick system (including derrick type crane)	X	–	–	–	–	–	X	
2	Crane	X	–	–	–	–	–	X	
3	Engine room crane	X	–	–	–	–	–	X	
4	Submersible launching arrangement	X	–	–	–	–	–	X	
5	Lift	X	–	–	–	–	–	X	
5.1	Lift for passenger or crew	X	–	–	–	–	–	X	
5.2	Cargo and vehicle lift and vehicle ramp	X	–	–	–	–	–	X	

Symbols:
1) C – Marine Products Certificate; E – Equivalent document; W – Manufacturer's document; X – Applicable; O – Optional.
2) DA – Design approval; TA-B – Type approval B; TA-A – Type approval A; WA – Works approval.

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Marine Product Dept at the Qingdao Branch
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Marine Product Dept at the Jiangsu branch
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Marine Product Dept at the Shanghai Branch
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Marine Product Dept at the Guangzhou Branch
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Marine Product Dept at the Fuzhou Branch
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