# RULES

## FOR THE CARGO HANDLING GEAR OF SEA-GOING SHIPS

ND No. 2-020101-179-E

## RULE CHANGE NOTICE

ENTERS INTO FORCE:

01.01.2026

St. Petersburg
2025

# RULES FOR THE CARGO HANDLING GEAR OF SEA-GOING SHIPS

The present Rule Change Notice to Rules for the Cargo Handling Gear of Sea-Going Ships (hereinafter — RCN) has been approved in accordance with the established approval procedure and contains information on amendments, except for editorial amendments. RCN amendments come in force on 1 January 2026.

## REVISION HISTORY

| Item | Applicability | Description | Remarks |
|---|---|---|---|
| Chapter 1.1 | Lifting appliances | Scope of application has been supplemented by appliances for raising and lowering hold hatch covers or removeable bulkheads, as stores and hose-handling cranes, and for launching and recovering of tender boats | IMO resolution MSC.532(107) |
| Para 1.2.1 | Lifting appliances | Definitions "cargo handling gear" and "safe working load (*SWL*)" have been updated in accordance with current international regulations.<br>New definitions for "Hook block", "Lifting Appliances " and "Maintenance" have been introduced | IMO circular MSC.1/Circ.1663 |
| Para 1.3.1 | Lifting appliances | Scope of the Rules application has been supplemented and relocated to para 1.1.1 | |
| Paras 3.1.7 and 4.2.11 | Cargo handling gear | Instructions have been introduced regarding documents to be issued for lifting appliances of ships covered by the provisions of SOLAS-74 | IMO resolution MSC.532(107) and IMO circular MSC.1/Circ.1663 |
| Chapter 5.8 | Lifting appliances<br>Appliance for personnel convey | Requirements have been introduced in compliance with IACS recommendations coming into force | IACS Recommendation No. 191 |
| Para 11.1.10 | Cargo handling gear | Scope of requirements for survey of lifting appliances having no previously issued confirmatory documents has been defined | IACS UI SC 310 |

| Item | Applicability | Description | Remarks |
|---|---|---|---|
| Table 11.2.1 | Cargo hoist arrangements, interchangeable components and loose gear | Test requirements have been aligned with current international regulations | IMO circular MSC.1/Circ.1663 |
| Paras 11.2.3, 11.2.6 | Cargo hoist arrangements, interchangeable components and loose gear | Instructions have been introduced regarding documents to be issued for lifting appliances of ships covered by the provisions of SOLAS-74 | IMO resolution MSC.532(107) and IMO circular MSC.1/Circ.1663 |
| Para 11.2.14 | Cargo hoist arrangements, interchangeable components and loose gear | Requirements have been introduced for the operation of items that have not passed prescribed tests and surveys | IMO circular MSC.1/Circ.1663 |
| Table 11.3.4 | Cargo handling gear | Requirements for proof load testing have been aligned with current international regulatory documents | IMO circular MSC.1/Circ.1663 |
| Para 11.3.4 | Cargo handling gear | Requirements have been introduced for determination of *SWL* of lifting appliances that do not have previously issued confirmatory documents.<br>Instructions has been introduced regarding the documents to be issued for lifting appliances of ships covered by the provisions of SOLAS-74 | IMO resolution MSC.532(107) and IMO circular MSC.1/Circ.1663 |
| Para 11.3.6 | Cargo handling gear | Instructions have been introduced regarding documents to be issued for lifting appliances of ships covered by the provisions of SOLAS-74 including lifting appliances having no previously issued confirmatory documents | IMO resolution MSC.532(107), IMO circular MSC.1/Circ.1663 and IACS UI SC 310 |

| Item | Applicability | Description | Remarks |
|---|---|---|---|
| Paras 11.3.7 and 11.3.14 | Cargo handling gear | Instructions have been introduced regarding documents to be issued for lifting appliances of ships covered by the provisions of SOLAS-74 | IMO resolution MSC.532(107) and IMO circular MSC.1/Circ.1663 |
| Para 11.3.16 | Cargo handling gear | Requirements have been introduced for operation of items which have not passed prescribed tests and surveys | IMO circular MSC.1/Circ.1663 |
| Para 11.4.4 | Appliance for personnel convey | Instructions have been introduced for documents to be issued for an appliance for personnel convey of ships covered by the provisions of SOLAS-74 | IMO resolution MSC.532(107) and IMO circular MSC.1/Circ.1663 |
| Para 11.4.5 | Lifting appliances<br>Residual thickness measurements | Requirements for necessity of measuring residual thickness of metal structures of lifting appliances that have been in operation for less than 10 years have been revised. | |
| Para 11.4.6 | Cargo handling gear | Instructions have been introduced for documents to be issued for lifting appliances of ships covered by the provisions of SOLAS-74 | IMO resolution MSC.532(107) and IMO circular MSC.1/Circ.1663 |
| Para 11.4.8 | Cargo handling gear | Requirements have been introduced for operation of items which didn't pass prescribed tests and surveys | IMO circular MSC.1/Circ.1663 |
| Para 11.5.1 | Cargo handling gear | Conditions for occasional surveys have been expanded.<br>Instruction has been introduced regarding documents to be issued for lifting appliances of ships subject to SOLAS-74 | IMO resolution MSC.532(107) and IMO circular MSC.1/Circ.1663 |

| Item | Applicability | Description | Remarks |
|---|---|---|---|
| Para 12.1.1 | Cargo handling gear, cargo derricks used in union purchase, interchangeable components and loose gear | Instructions have been introduced for documents to be issued for items of ships covered by the provisions of SOLAS-74 | IMO resolution MSC.532(107) and IMO circular MSC.1/Circ.1663 |
| Para 12.1.1 | Documentation | Documents and requirements thereto mandatory for maintenance have been determined: lifting appliance maintenance manual; record book of the routine inspection and maintenance of lifting appliances, their components or parts; lifting appliance operations manual | IMO circular MSC.1/Circ.1663 |
| Para 12.1.3 | Interchangeable components and loose gear | Instructions have been introduced regarding documents to be issued for items of ships covered by the provisions of SOLAS-74 | IMO resolution MSC.532(107) and IMO circular MSC.1/Circ.1663 |
| Para 12.2.1 | Interchangeable components and loose gear | Requirements for marking of interchangeable components and loose gear have been aligned with current international regulatory documents | IMO circular MSC.1/Circ.1663 |
| Table 12.2.1.5 | Interchangeable components and loose gear | Requirements for marking of materials of interchangeable components and loose gear have been aligned with Part XIII of the RS Rules/C | |
| Chapter 13.2 | Lifting appliances, interchangeable components and loose gear, ropes | Requirements for technical maintenance and operation in conditions of non-compliance with requirements of the rules have been introduced | IMO circular MSC.1/Circ.1663 |

## 1 GENERAL

### 1.1 APPLICATION

**Chapter 1.1** is amended as follows:

"**1.1.1** The requirements of the Rules for the Cargo Handling Gear of Sea-Going Ships* apply to ~~cargo handling gear~~ lifting appliances and their components to be installed on ~~sea-going ships, fixed offshore platforms, as well as on mobile offshore drilling units and intended for loading, unloading and moving of loads carried and for conveyance of persons, and other cargo handling gear listed in 1.3.1~~ ships, floating and fixed facilities.

~~The requirements of these Rules apply also to loose gear suspended to cargo gripping devices which are an integral part of the ship, such as slings, lifting beams, frames and container spreaders, etc.~~

The lifting appliances and their components include the devices listed in 1.1.1.1 — 1.1.1.8.

**1.1.1.1** Lifting appliances (including cargo handling gear) with a maximum safe working load (lifting capacity) of 1 t or more:

**.1** used for cargo loading, transfer or discharge: ship's derricks, ship's cranes, stores cranes, floating dock cranes, cranes mounted on mobile offshore drilling units and fixed offshore platforms intended for loading and unloading of support vessels, ship's elevating platforms, and similar devices;

**.2** used for raising and lowering hold hatch covers or moveable bulkheads;

**.3** cranes, pulley blocks, telphers used in engine-rooms;

**.4** used as hose handling cranes;

**.5** used for launch and recovery of tender boats and similar applications;

**.6** used as personnel handling cranes.

**1.1.1.2** Ship's lifts with safe working load 0,25 t and more.

**1.1.1.3** Upper structures of floating cranes and crane ships.

**1.1.1.4** Fixed gear: derrick heel fork lugs, bearings, span eye plates, etc.

**1.1.1.5** Interchangeable components: sheaves, shackles, hooks, blocks, swivels, etc.

**1.1.1.6** Loose gear suspended to cargo gripping devices: slings, lifting beams, frames and container spreaders, etc.

**1.1.1.7** Appliance to convey the personnel: nets, baskets, cradles, etc.

**1.1.1.8** Ropes.

**1.1.2** The requirements of these Rules are not applicable to the suspended drilling equipment and cargo handling gear used for production processes in MODU, drilling ~~and geological exploration~~ ships, pipe and cable layers, barges and similar vessels ~~etc.~~, built-in mechanisms for opening and closing hatch covers of holds, devices for launching lifeboats and rafts, compliant with the requirements of the International Life-Saving Appliance (LSA) code, as well as to ~~grabs and~~ cargo lifting electromagnets.

**1.1.3** These Rules apply ~~in full measure to cargo handling gear, technical documentation for which was submitted to the Register for review after coming into force of these Rules~~ to lifting appliances installed on ships, floating and fixed structures after 1 January 2026.

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* Hereinafter referred to as "these Rules".

Note. The expression "installed after 1 January 2006" means:

**.1** For ships subject to Chapter I of SOLAS 74:

for ships the keel of which is laid or which is at a similar stage of construction on or after 1 January 2026, any installation date on the ship;

the contractual delivery date or the actual delivery date (in the absence of a contractual delivery date) for lifting appliance to the ships other than those specified in para **.1** above, on or after 1 January 2026.

**.2** for ships, floating and fixed structures other than those specified in para **.1** above: any installation date on a ship, the contract for the construction of which was signed on or after 1 January 2026.

~~The existing cargo handling gear are covered by the requirements of the rules, according to which they have been manufactured, as well as the requirements of Sections 10 – 12. Application of the present Rules in repair and rerigging of the existing cargo handling gear and in replacement of their interchangeable components and loose gear shall be determined depending on the works performed, critical interchangeable/repaired components or parts and the scope of rerigging.~~

**1.1.4** ~~Compliance with the requirements of these Rules is mandatory for obtaining or maintaining Register documents on cargo handling gear. Such documents are not part of the classification documents.~~ Lifting appliances listed in 1.1.1.1, installed before 1 January 2026 on the ships for ships covered by the provisions of Chapter I of SOLAS-74, shall be tested, surveyed and marked in accordance with the applicable requirements of Sections 11 – 12 during the first survey of a ship for the renewal of the Cargo Ship Safety Construction Certificate or the Passenger Ship Safety Certificate (as applicable), commencing from 1 January 2026.

Note. Lifting appliances with valid test and survey certificates (hereinafter referred to as "certified"), issued by RS, ACS or an organization recognized by the Administration, may be considered as complying with the requirements of regulation II-1/13.2.4 of SOLAS-74.

**1.1.5** ~~The Register may impose additional requirements not incorporated in these Rules provided they are necessary to ensure safe operation of the equipment. The existing cargo handling gear~~ The lifting appliances installed before 1 January 2026 on ships, floating and fixed structures other than those specified in 1.1.4, are covered by the requirements of the rules, according to which they have been manufactured, as well as the requirements of Sections 10 – 12.

**1.1.6** Application of the present Rules during repair, modernization, modification ~~and~~ or rerigging of the lifting appliances and replacement of their interchangeable components and loose gear shall be determined depending on the works performed, critical interchangeable/repaired components or parts and the scope of rerigging.

**1.1.~~6~~7** Provisions of the International Convention on Occupational Safety and Health (Deck Work), 1979 (ILO-152) and the ILO Code of Practice on Safety and Health in Ports, 20~~05~~16 and regulations II- 1/3 — 13 of SOLAS-74 have been taken into account in ~~the relevant Sections of~~ the Rules.".

## 1.2 DEFINITIONS AND EXPLANATIONS

**Para 1.2.1** is amended as follows:

**Definition "Cargo handling gear"** is amended as follows:

"Cargo handling gear is a combination of technical appliances installed on board ship (floating facility) and intended for loading, unloading and moving of loads from one position to another ~~and for conveyance of persons (ship's derricks, ship's cranes, hoists, ship's lifts, ship's elevating platforms and upper structures of floating cranes and crane ships)~~, hold hatch covers, movable bulkheads, hoses and other shipboard equipment.";

**definition "Safe working load (SWL)"** is replaced by the following text:

"Safe working load (*SWL*) is the maximum allowable static load at a specified radius which a lifting appliance or item of loose gear is certified to lift for a specified operating condition.

Safe working load (*SWL*) for multiple-sheaved blocks is the maximum allowable static load applied to the head fitting.

Safe working load (*SWL*) for a single sheave block, including single sheave blocks with beckets, is to be taken as one half of the maximum allowable static load on the head fitting.";

**new definition "Hook block"** is introduced after **definition "Heavy"** reading as follows:

"Hook block is a sheave block that is permanently attached to, or is a part of the hook.";

**New definition "Lifting Appliances"** is introduced after **definition "Lift trunk "** reading as follows:

"Lifting appliances is a combination of cargo handling gear and appliances installed on board ship (floating facility) and intended for conveyance of persons.";

**new definition "Maintenance"** is introduced after **definition "Machinery"** reading as follows:

"Maintenance is a set of actions or an activity carried out to main a lifting appliance, interchangeable components and loose gear in good working and serviceable condition.".

## 1.3 SCOPE OF SURVEY

**Para 1.3.1** is replaced by the following text:

"**1.3.1** Lifting appliances and their components listed in 1.1.1 and 1.1.2 are subject to the Register survey.".

## 3 MATERIALS AND WELDING

### 3.1 MATERIALS

**Para 3.1.7. The third paragraph** is supplemented by the following text:

"For ships subject to SOLAS 74, the issued documents shall be supplemented by the Certificate of Test and Thorough Examination of Loose Gear (Form 5.1.4.1).".

## 4 SHIP'S DERRICKS

### 4.2 CALCULATION

**Para 4.2.11** is amended as follows:

"**4.2.11** When several positions of a boom are possible, calculations shall be made for each position separately. Allowable angles of inclination shall be indicated in the Certificate of Test and Thorough Examination of Lifting Appliances (Form 5.1.2 and Form 5.1.2.1, when a ship is covered by the provisions of SOLAS-74).".

## 5 SHIP'S CRANES AND HOISTS

### 5.8 CRANES USED TO CONVEY PERSONNEL

**Chapter 5.8** is amended as follows:

"**5.8 ~~CRANES~~ LIFTING APPLIANCES USED TO CONVEY PERSONNEL**

**5.8.1** The requirements of this Chapter apply to ~~the cranes and the personnel transfer arrangements for transferring the personnel from ship to ship, or between ship and MODU/FOP~~ the lifting appliances designed to convey personnel and to cargo handling gear additionally used for transferring the personnel from one ship to another one/MODU/FOP. The requirements of this Chapter do not apply to lifts, escalators, and conveyors.

The following components of lifting appliances are subject to the requirements applicable to cargo handling gear, provided in the relevant Chapters of these Rules:

**.1** materials and welding;

**.2** luffing, telescoping, folding and slewing systems and their components;

**.3** electrical and control systems, hydraulic or pneumatic systems, hoisting and luffing winches, slewing gears, hydraulic cylinders, hook blocks, items of loose gear, sheaves, pressure vessels, flexible hoses, cables.

**5.8.2** The personnel shall be conveyed by the appliance for the personnel convey, including: a net, basket, cradle or other product specially designed and certified for this purpose. These products shall not be used for other purposes than the personnel convey.

**5.8.3** An ~~crane~~ operator of lifting appliance shall observe the appliance for the personnel convey with people during transportation as well as its lifting and lowering areas and have a direct continuous radio or telephone communication with the personnel conveyed.

**5.8.4** Speed of the vertical movement of the appliance for the personnel convey shall not exceed 20 m/min.

**5.8.5** ~~Accidental movement of the appliance for the personnel convey shall be prevented by stay ropes or other means of stabilization~~ Accidental movement of the appliance for the personnel convey shall be controlled and restrained by stay ropes or other means of stabilization.

**5.8.6** When the appliance for the personnel convey is gripped by a spreader, every fitting shall be provided with the clamps for blocking the spreader locks, and safety chains of the appliance for the personnel convey shall be secured to the spreader shackles.

**5.8.7** During convey of the personnel, the following conditions shall be met:

**.1** wave height shall not exceed 2 m;

**.2** wind speed shall not exceed 10 m/s;

**.3** personnel shall not be conveyed at night and in ~~low-visibility~~ restricted or insufficient visibility conditions (heavy rain, snow, fog), icing and in any other conditions that may endanger the personnel safety;

**.4** lifting and lowering areas of the appliance for the personnel convey shall be free from any foreign objects.

**5.8.8** The load diagram and curve built for the personnel lifting shall be submitted for review as part of the ~~crane~~ lifting appliance technical documentation.

**5.8.9** ~~SWL of the appliance for the personnel convey shall not exceed 50 per cent of SWL of the cargo handling gear at the specified luffing during the personnel convey.~~

Loose gear items of the appliance for the personnel convey shall be designed for a load at least twice *SWL* of the appliance for the personnel convey.

For lifting appliances intended solely for the personnel convey, the static load considered in the design and calculation of the lifting appliance shall be twice the *SWL* for the personnel convey.

For lifting appliances intended for both personnel convey and cargo handling, the *SWL* for the personnel convey shall not exceed fifty percent (50 %) of the corresponding *SWL* of the cargo handling.

**5.8.10** During design and analysis of the ~~cargo handling gear~~ lifting appliance used to convey the personnel, double personnel weight shall be applied as design load. The appliance for the personnel convey shall be regarded as part of load.

**5.8.11** During analysis of the ~~cargo handling gear~~ lifting appliance and building of a load diagram, a jib radius of boom and wave height shall be considered.

**5.8.12** The safety factor of ropes for the load corresponding to the full loading condition during the personnel convey shall be at least 10.

**5.8.13** Non rotating, corrosion-resistant steel wire ropes shall be used for personnel convey. The scope of the wire rope shall be confirmed by the manufacturer.

**5.8.14** The rope, which breaking load shall not be less than four times more than the design load under the most unfavourable conditions of the personnel convey, shall be secured between the appliance for the personnel convey and hook in such a way as to avoid injury of the personnel by a hook.

**5.8.15** The winches of hoisting and luffing machinery of the ~~cranes~~ lifting appliance used to convey the personnel shall be subject for survey for the personnel convey.

**5.8.16** The winches of hoisting and luffing machinery shall be provided with two closed-band brakes. In case of an emergency shutdown or a power failure, the brakes shall be activated automatically. It shall be possible to test each brake separately.

**5.8.17** Measures shall be provided to restart safe lifting and lowering of the personnel to be conveyed in a safe position from any position in case of a power failure.

**5.8.18** When hydraulic cylinders are used for luffing, retraction and extension of the derrick, they shall be provided with non-return valves at both inlet and outlet manifolds to provide the cylinders unchanged position in case of the hydraulic system failure. The required non-return valves shall be installed directly adjacent to the cylinders.

**5.8.19** At least three rope coils shall remain on the winch drum.

**5.8.20** The hooks used to lift the personnel shall be provided with safety latches with efficient securing to avoid any inadvertent opening of a safety latch. A blocking and/or a spring retention device cannot be considered the efficient securing.

**5.8.21** During convey of the personnel, the ~~cargo handling gear~~ lifting appliance shall be operated from one control panel complying with the requirements in 5.8.3.

**5.8.22** The crane control panel shall be equipped with a special manual switch to actuate the personnel covey/load lifting mode blocked in both positions with a key and with a continuous light indicator warning of the personnel convey mode activation. The automatic or manual overload protection systems, if any, shall be automatically switched off when the personnel convey mode is activated.

**5.8.23** In the personnel convey mode the following functions shall be provided:

**.1** all brakes are automatically actuated when the controls are in neutral position and in case of an emergency shutdown;

**.2** automatic overload protection system, if any, is interlocked;

**.3** manual overload protection system is interlocked;

**.4** motion compensators, rope tensioning systems, swell compensators, if any, are interlocked, except for those specially designed for the personnel convey;

**.5** emergency disconnect systems, if any, are interlocked, i.e. they shall not be actuated, irrespective of the switch or emergency release position.

**5.8.24** Lighting capable of being supplied by the emergency source of power shall be provided to illuminate the personnel transfer arrangements, the water surface below the transfer arrangements and the passage for industrial personnel between the personnel transfer arrangements and where they are being transported or accommodated on board.

**5.8.25** The characteristics of the appliance for the personnel convey shall comply with the following:

**.1** rated load of the appliance shall be calculated as follows:

165 kg for the first person,

100 kg for every subsequent person;

**.2** design of the appliance shall be such that personnel may hold on the appliance standing close to its side;

**.3** dimensions, shape and design of the appliance shall be such as to provide the appliance stability when lowered onto the deck.

**5.8.26** The appliance for the personnel convey shall have solid, non-skid bottom/floor surface to withstand a load at least twice exceeding the rated lifting capacity of the appliance and rigid guard rails at least 1100 mm high along the entire bottom/floor capable of withstanding a horizontal load equal to not less than half rated lifting capacity. The structure between the guard rails and the bottom/floor shall prevent the personnel accidental slipping-out in case of the appliance swinging during convey. Provision shall be made for the personnel efficient securing to the appliance with safety devices during convey. Safety harnesses of the personnel in the appliance shall be tightly secured to the appropriate anchor points. Length of the safety device lanyard shall be such that a person shall remain within the appliance in any case.

It is allowed not to install fencing railings and not to use safety belts when using other technical solutions that ensure reliable fixation of transferred personnel (for example, permanent fixation with seat belts).

**5.8.27** The appliance for the personnel convey shall be hung up on a hook of a ~~cargo handling gear~~ lifting appliance by a special ring non-detachable in operating conditions. The appliance may be moved by container cranes with the fixed spreaders.

**5.8.28** Any possibility of tipping over of the appliance for the personnel convey shall be excluded in case when the personnel to be conveyed is standing at one side of the appliance creating the maximum overturning moment.

**5.8.29** To provide safety, the slings used to hung up the appliance for the personnel convey shall not be used for other purposes and shall have the following values of the safety factor:

for chain slings – at least 8;

for rope slings – at least 10;

for thimbles (shackles, rings) used to hang up the appliance for the personnel convey – at least 10.

**5.8.30** The rope ends shall be fastened with braided thimbles or thimbles with clamps, ferrules shall not be used. Length of the slings used to lift the appliance for the personnel convey shall be set in accordance with the developed slinging diagrams.

**5.8.31** Only automatic spreaders with triple (electrical and mechanical) interlocking of twistlock release may be used to lift and move the appliance for the personnel convey. Mechanical spreaders and frames with manual lock release are not permitted.

**5.8.32** The tests include lifting and holding for 10 min a load located at the bottom/on the floor of the appliance for the personnel convey, which mass is twice greater than the lilting capacity of the appliance.

**5.8.33** The hoisting winches used for the lifting of persons shall be equipped with secondary motion limiters for the upper and lower position of the hook.

The secondary motion limiters and their signal circuits shall be independent of the motion limiters described in 5.5.

The secondary motion limiters shall automatically stop the motion when the limit setting is exceeded, but reversal of the motion shall not be inhibited.

The secondary hoisting limiter shall be set so that personnel being lifted, and the hook, blocks and lifting accessories used, cannot come into contact with the boom structure.".

## 11 EXAMINATIONS, INSPECTIONS AND TESTING

### 11.1 GENERAL

**New para 11.1.10** is introduced reading as follows:

"**11.1.10** In the absence of documentation from ACS or competent persons accredited by the Administration, the lifting appliance shall be subject to survey and testing to the applicable extent specified in 11.3.4 — 11.3.7 and 11.3.13 — 11.3.15.".

## 11.2 TESTING OF CARGO HOIST ARRANGEMENTS, INTERCHANGEABLE COMPONENTS AND LOOSE GEAR AND ROPES

**Table 11.2.1** is amended as follows:

"Table 11.2.1

| Nos. | Interchangeable components and loose gear | Load corresponding to safe working load SWL, t | Proof load, t |
|---|---|---|---|
| 1 | ~~Chains,~~ ~~s~~Swivels, shackles, hooks, rings, ~~links, as well as terminal fittings on ropes, such as thimble splices, rope sockets or pressed clamps (bushes),~~ etc. | *SWL*≤25<br>*SWL*>25 | 2×*SWL*<br>(1,22×*SWL*)+20 |
| 2 | Single-sheaved blocks ~~with the inner end of the rape not attached to the block~~ | *SWL* | 4×*SWL* |
| ~~3~~ | ~~Single-sheaved blocks with the inner end of the rope attached to the block~~ | ~~*SWL*~~ | ~~6×*SWL*~~ |
| 43 | Multi-sheaved blocks, hook blocks | *SWL*≤25<br>25<*SWL*≤160<br>*SWL*>160 | 2×*SWL*<br>(0,933×*SWL*)+27<br>1,1×*SWL* |
| 54 | ~~Loose gear (slings,~~ ~~l~~Lifting beams, grabs, frames and ~~container~~ spreaders~~, etc.~~) | *SWL*≤10<br>10<*SWL*≤160<br>*SWL*>160 | 2×*SWL*<br>(1,04×*SWL*)+9,6<br>1,1×*SWL* |

».

**Para 11.2.3.** The **second paragraph** is amended as follows:

"Upon satisfactory results of tests and examinations, a Certificate of Test and Thorough Examination of Interchangeable Components and Loose Gear (Form 5.1.44 and Form 5.1.4.1 for ships covered by the provisions of SOLAS-74) shall be issued and an entry shall be made in Part II of the Register of Ship's Lifting Appliances and Cargo Handling Gear. If the tests have been supervised by a competent person, the Certificate ~~according to~~ (Form 5.1.4 4 and Form 5.1.4.1 for ships covered by the provisions of SOLAS-74) shall be issued by the RS surveyor on the basis of the Certificate of Test and Thorough Examination of Interchangeable Components and Loose Gear issued in accordance with 12.1.3 and signed by the competent person.".

**Para 11.2.6.** The **third and fourth paragraph** are amended as follows:

"The tests shall be confirmed by documents drawn up by the manufacturer according to the standards of the firm, and for chains and wire ropes with/without end sockets additionally by certificates (Forms 5.1.4, ~~and~~ 5.1.5 and Form 5.1.4.1 when the ship is covered by the provisions of SOLAS-74).

If tests have been supervised by a competent person, Certificates of Test and Thorough Examination ~~according to~~ (Form 5.1.4 and Form 5.1.4.1, when the ship is covered by the provisions of SOLAS-74) for chains and according to Form 5.1.5 for wire ropes are issued by a Surveyor to the Register on the basis of the Certificate of Test and Thorough Examination signed by the competent person.

When the wire ropes are supplied in separate pieces with no rope end terminations or rope sockets etc., marked and stamped according to 12.2, it is necessary to provide a copy of

the RS certificate or document for the rope drawn up by the manufacturer according to the standards of the firm issued in accordance with the requirements of Section 5, Part I "General Regulations for Technical Supervision" of the Rules for TSDCS. In this case, the rope supplier is fully responsible for the identification of the supplied rope with indicated abovementioned documents.".

**New para 11.2.14** is introduced reading as following:

"**11.2.14** Where a lifting appliance, installed onboard the ship, has not passed the appropriate tests or surveys, then such appliance shall be taken out of service until deficiencies are rectified and relevant Register documents are issued.

Such lifting appliances shall be marked "not to be used". An appropriate entry shall be made in the Register of Ship's Lifting Appliances and Cargo Handling.".

## 11.3 TESTING AND EXAMINATIONS OF MOUNTED CARGO HANDLING GEAR

**Table 11.3.4** is amended as follows:

"Table 11.3.4

| *SWL*, т | Proof load |
|---|---|
| ~~Under~~*SWL* ≤ 20 | 1,25×*SWL* |
| 20 < ~~to~~*SWL* ≤ 50 | *SWL*+5 т |
| ~~Over~~ 50 < *SWL* | 1,1×*SWL* |

".

**Para 11.3.4. New paragraph** is introduced after Table 11.3.4 reading as follows:

"Where the safe working load of the lifting appliances is undocumented by ACS or competent persons accredited by the Administration for lifting appliances which are installed on board before 1 January 2026, the proof load shall be calculated using Table 11.3.4, based on a safe working load nominated by the owner, company, and shall be agreed with the Register.".

**Para 11.3.4.** The existing **eleventh and thirteenth paragraphs** are amended as follows:

"Inclination angles of derrick booms shall be stated in the Certificate of Test and Thorough Examination of Lifting Appliances (Form 5.1.2 and Form 5.1.2.1 for the ships covered by the provisions of SOLAS-74).".

…

"The crane jib radii shall be stated in the Certificate of Test and Thorough Examination of Lifting Appliances (Form 5.1.2 and Form 5.1.2.1 for the ships covered by the provisions of SOLAS-74).".

**Para 11.3.6.** The **fourth paragraph** is amended as follows:

"Upon satisfactory results of tests and ~~examinations of ship's derricks, ship's cranes and hoists~~ surveys of lifting appliances listed in 1.1.1.1 (excluding cargo derricks used in union

purchase), a Certificate ~~according to Form 5.1.2 shall be issued~~ of Test and Thorough Survey of Lifting Appliances shall be issued (Form 5.1.2 and Form 5.1.2.1 for the ships covered by the provisions of SOLAS-74 for new or previously certified lifting appliances, or Factual Statement of the test and thorough examination of non-certified existing cargo handling gear (Form 5.1.10) for lifting appliances without confirmatory documents according to 11.1.10 (refer also to IMO circular MSC.1/Circ.1696 and IACS UI SC310), and an entry shall be made in Part I of the Register of Ship's Lifting Appliances and Cargo Handling Gear".

**Para 11.3.7.** The **eighth paragraph** is amended as follows:

"Upon satisfactory results of tests and examinations, a Certificate according to form 5.1.2of Test and Thorough Examination of Derricks Used in Union Purchase (Form 5.1.3 and Form 5.1.2.1 for the ships covered by the provisions of SOLAS-74) shall be issued and an entry shall be made in Part I of the Register of Ship's Lifting Appliances and Cargo Handling Gear.".

**Para 11.3.14.** The **third paragraph** is amended as follows:

"Upon satisfactory results of tests and examinations, a Certificate ~~according to form 5.1.2~~ of Test and Thorough Examination of Lifting Appliances (Form 5.1.2 and Form 5.1.2.1 for the ships covered by the provisions of SOLAS-74) shall be issued and an entry shall be made in Part I of the Register of Ship's Lifting Appliances and Cargo Handling Gear.".

**New para 11.3.16** is introduced reading as follows:

"**11.3.16** Where a lifting appliance, installed onboard the ship, has not passed the appropriate tests or surveys, then such appliance shall be taken out of service until deficiencies are rectified and relevant Register documents are issued.

Such lifting appliances shall be marked "not to be used". An appropriate entry shall be made in the Register of Ship's Lifting Appliances and Cargo Handling Gear.".

## 11.4 PERIODICAL SURVEYS, EXAMINATIONS AND TESTS

**Para 11.4.4.** The **second para** is amended as follows:

"Based on the results of the examination, the Certificate of Test and Thorough Examination of Interchangeable Components and Loosing Gear (Form 5.1.4 and Form 5.1.4.1 for the ships covered by the provisions of SOLAS-74) shall be issued, and the results of the examination shall be entered to Part II "Ship's Cargo Handling Gear Lifting Appliances" of the Register.".

**Para 11.4.5.** The **third paragraph** is amended as follows:

"The measurements of residual thickness of metal structures shall be carried out at least once every 5 years. The need to measure the residual thicknesses of lifting appliance

structures that have been in operation for less than 10 years is determined by the Register surveyor.".

**Para 11.4.6.** The **third paragraph** is amended as follows:

"The tests and associated examinations shall be confirmed by a Certificate of Test and Thorough Examination of Lifting Appliances (Form 5.1.2 and Form 5.1.2.1 for the ships covered by the provisions of SOLAS-74).".

**Para 11.4.8** is amended as follows:

"**11.4.8** No ~~cargo handling gear~~ lifting appliance, interchangeable components and loose gear shall be used if:
they have not undergone examinations and surveys in accordance with 11.4.1 — 11.4.5;
in the view of the competent or responsible person, they are not safe for use;
Such lifting appliances, interchangeable components or loose gear shall be marked "not to be used". An appropriate entry shall be made in the Register of Ship's Lifting Appliances and Cargo Handling Gear.".

## 11.5 OCCASIONAL EXAMINATIONS AND TESTS

**Para 11.5.1.** The **last paragraph** is amended as follows:

"Occasional examinations and tests shall be confirmed by an appropriate Certificate of Test and Thorough Examination (Forms 5.1.2, ~~and~~ 5.1.4 and, in addition, Forms 5.1.2.1 and 5.1.4.1 for the ships covered by the provisions of SOLAS-74).".

**New para 11.5.1.7** is introduced reading as follows:

"**.7** when revising *SWL* of the lifting appliance.".

# 12 DOCUMENTATION AND MARKING

## 12.1 DOCUMENTS

**Para 12.1.1** is amended as follows:

"**12.1.1** Ships and mobile offshore drilling units, ~~cargo handling gear~~ lifting appliances of which are subject to survey by the Register shall be provided (as required for the appliances installed) with the following documents:
**12.1.1.1** Register of Ship's Lifting Appliances and Cargo Handling Gear, Form 5.1.1;
**12.1.1.2** Certificate of Test and Thorough Examination of Lifting Appliances~~,~~ (Form 5.1.2 and Form 5.1.2.1 for the ships covered by the provisions of SOLAS-74);
**12.1.1.3** Certificate of Test and Thorough Examination of Derricks Used in Union Purchase~~,~~ (Form 5.1.3 and Form 5.1.3.1 for the ships covered by the provisions of SOLAS-74);
**12.1.1.4** Certificate of Test and Thorough Examination of Interchangeable Components and Loose Gear~~,~~ (Form 5.1.4 and Form 5.1.4.1 for the ships covered by the provisions of SOLAS-74);

**12.1.1.5** Certificate of Test and Thorough Examination of Wire Rope, Form 5.1.5;
**12.1.1.6** Certificate of Test and Thorough Examination of Lifts, Form 5.1.6;
**12.1.1.7** Statement of Test and Thorough Examination of Uncertified Lifting Appliances (Form 5.1.10);
~~.7~~**12.1.1.8** documents for ropes drawn up by the manufacturer declaring compliance with the RS requirements or the RS Certificates issued according to the requirements of Section 5, Part I "General Regulations for Technical Supervision" of the Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships;
~~.8~~**12.1.1.9** Instructions on Operation of Ship's Derricks Used in Union Purchase.
**12.1.1.10** Lifting appliance maintenance manual.
A maintenance manual for a lifting appliance shall be provided by the manufacturer. Where a maintenance manual for a lifting appliance is not available from the manufacturer, it may be provided by competent third parties. The maintenance manual for each lifting appliance shall include the following:
**.1** description of the required inspection regime and maintenance schedules specific to the lifting appliance, checklists and a list of key tools or other items for use when carrying out inspections and maintenance;
**.2** instructions for routine repairs and maintenance;
**.3** technical maintenance information;
**.4** information on recommended lubricants and filters;
**.5** information on slewing bearing maintenance, if applicable;
**.6** lists of interchangeable parts and components, as well as the inspection, maintenance or replacement procedures;
**.7** lists of sources of spare parts;
**.8** model forms for records of inspections and maintenance;
**.9** operational test procedures, as well as the pre- and post-operational test inspection procedures;
**.10** list of components requiring particular attention during inspections, as well as the inspection and maintenance procedures for these components;
**.11** recommended intervals for replacement and overhaul of components and equipment;
**.12** information on the preservation of the coating and corrosion protection system;
**.13** information regarding special inspection and maintenance in cases where the lifting appliance is not operated for long periods of time.
**12.1.1.11** A record book of the routine inspection and maintenance of lifting appliances, their components or parts shall be maintained and kept on board. The records and particulars of inspection and maintenance may be documented in free format, in paper or electronic form, provided that:
each entry contains necessary information;
it is clearly legible;
it is authenticated by a responsible person assigned by the ship's master or the Company.
Ship's officers shall follow manufacturer's recommendations for such inspection and maintenance records.
**12.1.1.12** Lifting appliance operations manual.
An operations manual for a lifting appliance shall be provided by the manufacturer.
Where an operations manual for a lifting appliance is not available from the manufacturer, these may be provided by competent third parties. In such case, operations manuals shall be developed based on original manufacture, design and build data and take into account any modifications since installation. Where original data or modification data is not available, the operations manual shall be developed based on current operational procedures and practices.

The operations manual for each lifting appliance shall include the following:
**.1** design, operational and environmental limitations;
**.2** compatible loose gear;
**.3** safety instructions;
**.4** operating procedures.".

**Para 12.1.3.** The **first paragraph** is amended as follows:

"**12.1.3** Particulars of the tested item to be given in the Certificate of Test and Thorough Examination of Interchangeable Components and Loosing Gear (Form 5.1.4 and Form 5.1.4.1 for the ships covered by the provisions of SOLAS-74) shall contain a designation according to the standard or safe working load for non-standard parts, type of material and of heat treatment together with the following dimensions:".

## 12.2 MARKING AND STAMPING

**Para 12.2.1.4** is amended as follows:

"**.4** for lifting beams, frames and spreaders: range of sling angle, degree; details of *SWL* application (in case of complex equipment which can be used in different ways); own mass, in t, with letters *TW* in front ~~(for lifting beams, frames and spreaders)~~;".

**New paras 12.2.1.6, 12.2.1.7 and 12.2.1.8** are introduced reading as follows:

"**.6** for ramshorn hooks: range of sling angle, degree;
**.7** for block and hook blocks: rope diameter, mm; rigging plan identification mark (if any);
**.8** for grabs: own mass, in t, with letters *TW* in front.".

**Table 12.2.1.5** is amended as follows:

"Table 12.2.1.5

**Steel grade marking**

| Steel marking | Grade of steel | ~~Stress in a sample at the breaking load specified in~~ Minimum tensile strength of material in tensile test according to applicable ISO standards, $R_m$[1], ~~Н/мм$^2$~~ MPa |
|---|---|---|
| L | ~~Low-carbon~~ Normal strength | 300 |
| M | Higher strength ~~tensile~~ | 400 |
| P | ~~Alloyed~~ | 500 |
| S | ~~»~~ High strength ~~»~~ | 630 |
| T | | 800 |
| ~~[1] $R_m$ – tensile strength.~~ | | |

".

## 13 TECHNICAL SUPERVISION OF CARGO HANDLING GEAR IN USE

### 13.2 PERIODICAL EXAMINATIONS OF INTERCHANGEABLE COMPONENTS AND LOOSE GEAR, AND ROPES BY SHIP'S OFFICERS

**Chapter 13.2** is replaced by the following text:

"**13.2 PERIODICAL EXAMINATIONS OF LIFTING APPLIANCES, INTERCHANGEABLE COMPONENTS AND LOOSE GEAR, AND ROPES BY SHIP'S OFFICERS**

**13.2.1** Lifting appliances, all interchangeable components and loose gear, and ropes shall be maintained, inspected, and operational tested in accordance with the manufacturer's instructions by a responsible person assigned by the ship's master or the Company, taking into account 3.5, 3.6, 4.5, and 4.6 of IMO MSC.1/Circ.1663.

Besides, a thorough examination of interchangeable components and loose gear, and ropes shall be carried out by a responsible person every time before use of the cargo handling gear.

**13.2.2** If defects are identified, the responsible person shall make records in Part III of the Register of Ship's Lifting Appliances and Cargo Handling Gear.

If the responsible person considers the lifting appliance, interchangeable components and loose gear to be unsafe for operation or not in compliance with the requirements of these Rules, then the lifting appliances, interchangeable components and loose gear shall not be used until any deficiency is rectified to the satisfaction of a competent person. In this case provisions of 11.4.8 considering provisions of Section 5 of IMO circular MSC.1/Circ.1663 shall be met.

If broken wires are found in a rope, the rope shall be examined at least once a month. During of examinations the hooks, shackles, swivels, chains, etc., related to lifting appliances located on the decks of oil tankers, oil tank barges, oil recovery ships, gas carriers, chemical tankers and other similar ships, the fulfillment of requirements of 1.6 shall be checked. If a protective coating has been applied to ensure intrinsic safety, its integrity shall be confirmed.".

Russian Maritime Register of Shipping

**Rule Change Notice**
**to the Rules for the Cargo Handling Gear of Sea-Going Ships**

Endorsed: 25-261038

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