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بازه زمانی بازرسی، تست و تعمیر و نگهداری سیستمهای نجات Summary of Maintenance, Testing and Inspection Intervals of Life Saving Appliances

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All respectful ICS Customers / Surveyors

Kindly a Summary of Maintenance, Testing and Inspection Intervals of Life Saving Appliances have been sent for your kind information.

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Also this Electronic File will be sent via email to all respectful ICS Surveyors.

A.M.Rezvan Panah Manager of Convention & Legislation Department ICS

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کلیه مشتریان و بازرسان محترم ICS

جان افراد

شماره: ٤٠١٠٤ شماره

تاريخ : ٢/١٠/١٩

با سلام و احترام بپیوست جدولی از بازه زمانی بازرسی، تست و تعمیر و نگهداری تجهیزات نجات جان افراد جهت اطلاع و بهره بر داري حضورتان ايفاد مي گردد. نسخه الکترونیکی اطلاعیه فنی مذکور در شبکه داخلی موسسه با آدرس ذیل قابل دسترسی میباشد:

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همچنین نسخه الکترونیکی این سند از طریق پست الكترونيكي به كليه مشتريان و بازرسان محترم موسسه ارسال می گردد.

مدير واحد كنوانسيون ها و مقررات دريايي موسسه رده بندی ایرانیان

ترک دعوی: اگرچه در گردآوری کلیه را هنماهای فنی ار انه شده توسط موسسه رده بندی ایرانیان ما حد مکن کلاش در دفت و صحت معتوا صورت گرفته است،این موسسه متعمل مسئولیتی در قبال هرگونه اشتباهات ،خسارت های احتمالی و جرائمی که ممکن است در ارتباط با بکار گیری مفاهیم و مطالب ارائه شده رخ

Code: ICS32F016/2

موسسه *ر*ده بندی ایر انیان تهران-خیابان قائم مقام فراهانی-بالاتر از میدان شعاع-کوچه شبنم-پلاک ٥ www.ics.org.ir info@ics.org.ir نماير : ۲۱ ۸۸۳۲۴۷۳۴ ۲۱۰ تلفن : ۲۱۴۲۱۸۶۰۰۰ ۲۱۰

CLASSIFICAT

Equipment/ Requirement		Regulation	Ship Type	Interval	Ву	Remark
	 Maintenance schedule : The maintenance to be undertaken as per manufacturer instruction and following to be done 1. Bent stanchions should be replaced or repaired and guard ropes should be inspected for wear and renewed where necessary. 2. Moving parts should be free to turn and should be greased as appropriate. 3. Hoist wire/falls condition to be examine for any deterioration specially in area of sheaves 4. Underside of gangway and accommodation to be examined 5. Any mild steel fitting use with aluminium accommodation ladder/gangway to be checked for corrosion . 6. Checking of any sign of distortion ,cracks and corrosion 	SOLAS II- 1/3-9.3 SOLAS III/20.4 SOLAS III/20.7.2 MSC.1/Circ. 1331, Annex, para. 4	All	Monthly	Ship	Record- maintenance and repair history to be recorded ,this include type of maintenance ,date , name of person and next date of inspection
Means of Embarkation on and	 Examination: A. Accommodation Ladder: 1. Following items should be thoroughly examined and checked for satisfactory condition of the accommodation ladder: a. Steps b. Platforms c. All support points such as pivots, rollers, etc. d. All suspension points such as lugs, brackets, etc. e. Stanchions, rigid handrails, hand ropes and turntables. f. Davit structure, wire and sheaves, etc. 			During Annual SEQ survey	Ship + Shore	
Disembarkation from ships (Gangways, accommodation ladders incl. Winch and fittings as well as use for pilot transfer)	 At every five yearly survey, upon completion of the examination required as above, the accommodation ladder should be operationally tested with the specified maximum load of the ladder. 	SOLAS II- 1/3-9.3 MSC.1/Circ. 1331, Annex, para. 5		SEQ Renewal 5 year	Shore	Wire fall to be renewed at intervals of not more than 5 year
	 B. Gangway: 1. Following items should be thoroughly examined and checked for satisfactory condition of the gangway: a. treads b. side stringers, cross-members, decking, deck plates, etc.; c. All support points such as wheel, rollers, etc. d. Stanchions, rigid handrails, hand ropes. 		All	During Annual SEQ survey	Ship + Shore	
	 At every five yearly survey, upon completion of the examination required as above, the gangway should be operationally tested with the specified maximum load of the gangway. 			SEQ Renewal 5 year	Shore	
	 C. Winch: 1. Following items should be thoroughly examined and checked for satisfactory condition: a. Brake mechanism including condition of brake pads and band brake, if fitted; b. Remote control system; and c. Dever supply system (mater) 			During Annual SEQ survey	Ship + Shore	
	 c. Power supply system (motor). 2. At every five yearly survey, upon completion of the examination required as above, the winch should be operationally tested with the specified maximum load of the 			SEQ renewal 5 year	Shore	

vessel keel laid prior 01/01/2010) Examine cylinder gauges to confirm they MSC.1/Circ.14 All Weekly Ship are in the correct pressure range 32, para. 4.5 MSC.1/Circ.14 Check according to makers instructions All Annually Ship 32, para. 7.8.3 **Emergency escape** As breathing devices specified Hydrostatic test and internal inspection of IACS Rec. Approved (EEBDS) All by the cylinders No.88 Shore manufactu rer Testing of emergency At each SOLAS All lighting abandon Ship III/19.3.4.9 ship drill Maintenance: Weekly SOLAS III/20.4 Inspection and Lubrication as required. All Monthly Ship Special concern to hidden areas and MSC.1/Circ.12 Annually 06/Rev.1 areas of end terminations. Not more than 5 Falls used in launching years or appliances earlier Renewal after 5 years or earlier when SOLAS III/20.4 All when Ship necessary due to deterioration. necessary due to deteriorati on **Beplacements of first**aid outfit and antiseasickness medicine LSA Code, On expiry All Ship of life boat equipment para. 1.2.3 date Replacement of food rations of lifeboat LSA Code, On expiry All Ship equipment para. 1.2.3 date a) Administration may extend up to 17 month. b)As per HSSC Interval Approved Maintenance of SOLAS not service ,same may be hvdrostatic release Annual servicing All III/20.9.1 exceeding provider done along with units (non-disposable) . @В 12 month annual SEQ survey (Msc.1/circ 955) (as per flag requirement) 1.Check condition of storage bag as well During monthly as general condition of bag for ease of inspection crew SOLAS removal of suit must practice III/20.7.2 All Ship 2.Ensure donning instructions are legible. donning the SOLAS III/36.1 3.Confirm that suit is the type and size Monthly immersion suit or MSC/Circ.1047 identified on the bag. anti exposure suit . 4. Visually check for damage , rip and tear any repair to be as per manufacturer and by service station authorised by manufacturer or acceptable by administration. 5.condition of zipper for ease of Immersion suits and operation, if not functional same to be anti-exposure suits discarded or repaired at service station 6.check, if fitted any inflatable head support or buoyancy ring for damage and its proper attachment and inflation hose for any deterioration . 7. check condition of retro reflective tape for condition and adhesion 8. if fitted condition of whistle, expiry date of light and battery 1. The head support/buoyancy ring to be Not applicable for Quarterly SOLAS II/20.7.2 All ship inflated and tested for leaks integral inflatable MSC/CIRC 1047 lifejacket

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	 Air pressure test (seams and closure), suit to be inflated to a pressure of .1 to .2 psi and if auxiliary inflatable means of buoyancy is provided, it should be inflated through oral valve to a pressure of 0.1 psi. Each seam and closure of the suit and each seam, oral tube and attachment points, joint or valve of any auxiliary means of inflatable to be covered with soapy water to check leakage. if any repair needed, it is strongly recommended that any , repairs to a suit be carried out by a facility which has access to the original manufacturer's recommended servicing instructions, parts and adhesives, and suitably trained personnel. 	MSC/Circ.1114	All	3-yearly (Test more frequently for suits older than 10 years).	Ship / Shore @ c	1.Recommended that the air pressure test be performed at a suitable shore- based facility 2.The air pressure test may be carried out on board ship if suitable equipment is available. (more frequently testing to be as per flag)
Maintenance of inflatable life rafts, life jackets	Servicing of inflatable life raft , life jacket	SOLAS III/20.8.1.1	All	Interval not exceeding 12 month (administra tion may extend to 17 month)	Approved service provider @ B	Administration can accept specific liferafts for extended service intervals according to SOLAS III/20.8.3 and MSC.1/Circ.1328 (applicable for new and novel inflatable life raft arrangement approved as per regulation 4.3 by administration)
Launching appliances	 Following to be examined for satisfactory condition and operation For Davit: Davit structure, in particular with regard to corrosion, misalignments, deformations and excessive free play; Wires and sheaves, possible damages such as kinks and corrosion; Lubrication of wires, sheaves and moving parts; Functioning of limit switches; Stored power systems; and Hydraulic systems. For Winch: Open and inspect brake mechanism; Replace brake pads, if necessary; Remote control system; Power supply system; and Winch foundation. 	SOLAS III/20.11.1.1 III/20.11.1.2 MSC.1/Circ.12 06/Rev.1/Appe ndix of Annex 1, para. 2.8 and 2.9 as applicable	All	SEQ annually survey	Shore @A	
	Dynamic test of the winch brake: 1.lowering the empty boat and when the boat has reached its maximum lowering speed and before the boat enters the water, the brake should be abruptly applied. 2.The brake pads and stressed structural parts should be re-inspected. A) On-load release gear to be examination for 1.Operation of release gear for activation	SOLAS III/20.11.1.3 MSC.1/Circ.12 06/Rev.1/Appe ndix of Annex 1, para. 3.1 & 3.3 as applicable SOLAS III/20.11.2.1 III/20.11.2.2				Load on boat will be mass of life boat or rescue boat without person onboard.

 2. check for any free play 3. hydrostatic interlock system , if fitted 4. Cables for control and release 5. Hook fastening ON load release gear to be operational tested for 1. operational test with lifeboat partially in water so mass of boat is supported by falls and hydrostatic interlock (where fitted) , and same should not triggered. 2. operation of on load gear 3. reset the on load gear and examine the release gear and hook fastening that the hook is completely reset and no damage 	MSC.1/Circ.12 06/Rev.1/ Appendix of Annex 1, para. 2.4 / 2.5				Load on boat will be mass of life boat or rescue boat without person onboard
 B) off-load release gear to be examined for . 1.Operation of release gear for activation 2. check for any free play 3. Cables for control and release OFF load release gear to be operational tested 1. Position the life lifeboat fully waterborne and operate the release gear 2. Reset the release gear and lifeboat in stowed position. 	SOLAS III/20.11.2.1 III/20.11.2.2 III/36 MSC.1/Circ.1206 /Rev.1/ Appendix of Annex 1, para2.4/. 2.6				Load on boat will
 C) free fall life boat release gear to be examination for . 1. check for any free play 2. Cables for control and release Release gear to be operational tested 1. engage the simulated launching arrangement as specified by manufacturer. 2. Operate the release mechanism . 3. Reset the lifeboat in stowed configuration. 4. conjugate a and 2 to be done with 	SOLAS III/20.11.2.1 III/20.11.2.2 MSC.1/Circ.1206 /Rev.1/ Appendix of Annex 1, para. 2.4/2.7				be mass of life boat or rescue boat without person onboard
 4 sequence 2 and 3 to be done with backup release mechanism. 5. Remove simulated launching arrangement. 6. lifeboat to be placed in stowed position. D) davit launched life raft automatic release hook checked for examination and operational test . 1. operational test for hook and rest operation 2. check for any free play 3. Cables for control and release 	SOLAS III/20.11.3.1 III/20.11.3.2				
Dynamic test of the winch brake : 1.lowering the boat loaded and when the boat has reached its maximum lowering speed and before the boat enters the water, the brake should be abruptly applied. 2.The brake pads and stressed structural parts should be re-inspected.	SOLAS III/20.11.1.3 MSC.1/Circ.12 06/Rev.1/Appe ndix of Annex 1, para. 3.2 & 3.3 as applicable	All	5-yearly	Shore @ A	Load will be 1.1 times (weight of life boat or rescue boat + weight of full complement +boat equipment) For testing purpose, 75 kg to be taken as weight for each person For cargo ship built after 1 July 2010, 82.5 kg be taken as weight for each person. For Passenger ship 75 kg to taken as weight for each person

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	Operational test at 1.1time of load for On-load release gear, automatic release hooks for davit launched life raft and free fall life boat release mechanism whenever release gear overhauled . The following to be done during overhaul Of release system a) dismantling of hook release b) checking of tolerance requirement c)adjustment of release gear d) visual examination d) operational test with load e) NDT testing , such as DPT	SOLAS III/20.11.23 III/20.11.3.3 MSC.1/Circ.12 06/Rev.1/Appe ndix of Annex 1, para. 4				Load will be 1.1 times (weight of life boat or rescue boat + weight of full complement +boat equipment) For testing purpose, 75 kg to be taken as weight for each person For cargo ship built after 1 July 2010, 82.5 kg be taken as weight for each person. For Passenger ship 75 kg to taken as weight for each person
Examination of lifeboats(All)	 The following items to be examined and checked for satisfactory condition and operation: 1. Condition of structure including fixed and loose equipment; 2. Engine and propulsion system 3. Manoeuvring system 4. Power supply system 5. Bailing system. 	MSC.1/Circ.12 06/Rev.1	All	Within window period of SEQ	Shore @A	•
Lifeboats (except free fall lifeboats)	The following item to be examined and checked for satisfactory condition and operation. 1.Inspection of hook , their attachment 2.On load release gear and reset operation . 3.Running for 3 min for life boat engine and verifying gear box and gear train are engaged satisfactorily. 4 .For cargo ships moved from their stowed position, without any persons on board, to the extent necessary to demonstrate satisfactory operation of launching appliances, if weather and sea conditions so allow.	SOLAS III/20.6	All	Weekly	Ship	
	1.Turned out from their stowed position, without any persons on board if weather and sea conditions so allow.	SOLAS III/20.7.1	All	Monthly	Ship	
Inspection of lifeboat equipment	1.Verification of satisfactory condition of item as per checklist require by regulation 36.1	SOLAS III/20.7.2	All	Monthly	Ship	A report of the inspection shall be entered in the log- book.
Lifeboats with self- contained air support	Examination	MSC.1/Circ. 1206/Rev.1	Tanker (chem./g as)	SEQ survey annually	Ship / Shore @ A	Incl. External inspection of air cylinders
system	Hydrostatic test of air cylinders	IACS Rec. No. 88	Tanker (chem./g as)	5-yearly	Shore	
Examination of lifeboats with sprinkler system	Examination (Monthly testing of water spray systems on lifeboats in accordance with manufacturer's instructions and then flushed through with fresh water)	MSC.1/Circ 1206/Rev.1	Tanker (oil)	SEQ survey annually	Ship / Shore @ A	
Battery replacement of lifebuoy lights	(LSA Code, para 1.2.3	All	on expiry date	Ship	Annually, if not marked with expiration date.
Marine evacuation Systems (MES)	Annual Servicing	SOLAS III/20.8.1.1	Passeng er Ships	Interval not exceeding 12 month (administra tion may be extended to 17 month	Shore @ B	

	Each MES shall be deployed from the ship on a rotational basis so that each system is deployed at least once every six years.	SOLAS III/20.8.2	Passeng er Ships	6-yearly	Shore @ B	Deployment of rotational basis at intervals to be agreed by Administration, however each system to be deployed at least once every six years.
Testing of public address system and general alarm systems	Functional testing public address and general alarm	SOLAS III/20.6.4 MSC.1/Circ1432 para 4.4	All	Weekly	Ship	
Replacement of rocket parachute flares and rockets line throwing appliances		LSA Code, para 1.2.3	All	on expiry date	Ship	
Replacement of smoke Signals		LSA Code, para, 1.2.3	All	on expiry date	Ship	
Inspection of rescue boats	The following item to be examined and checked for satisfactory condition and operation. 1.Inspection of hook , their attachment 2.On load release gear and reset operation , if fitted 3. Running for 3 min for life boat engine and verifying gear box and gear train are engaged satisfactorily	SOLAS III/20.6	All	Weekly	Ship	Outboard motor fitted with rescue boat to be run for 3 min when only when suitable water supply provided . In special case administration may waived requirement of running of engine for ship keel laid prior 1 July 1986

@A)For Lifeboat, Launching appliance and on load release gear

Service provider- Life boat, launching appliance and on load release gear examination to be carried out by service provider authorised by administration and are qualified for each make and type for above activity by manufacturer OR by OEM authorised by administration.

Competent person-The examination should be conducted by the manufacturer's representative or other person appropriately trained and certified for the work to be done in accordance with MSC.1/Circ.1277.[MSC.1/CiRC 1277, MSC.1/CiRC/1206/1]

@B) For Inflatable life raft ,life jacket , Marine evacuation system

Service provider- Servicing to be carried out an approved servicing station authorised by administration and to be approved by manufacturer.[Solas Reg.III/20.8.1, A 761(18), MSC 55(66)]

Competent person-The examination to be carried out by person certified and trained by manufacturer

@C) For Immersion suit

Suitable repair station/ shore based facility- facility which is approved by suit manufacturer and or acceptable to administration .

Reports and record

1. Record of inspection, servicing , repair and maintenance to be updated and maintained

2. All checklist and reports to be filled correctly and signed by person who carries inspection and maintenance work and signed by Master as required by III/36

3. On completion of annual through examination and servicing of launching appliance, statement of confirm that lifeboat arrangement fit for purpose to be issued by service provider

Certification

1.Personnel engage for servicing/ annual though examination of launching appliance and lifeboat to have certificate in accordance as per MSC .1/Circ.1277, valid for 3 year.