

Name of Ship:



SURVEY REPORT ON SOLAS GMDSS RADIO TECHNICIAN'S SURVEY¹

This form must kept on board and be available for inspection By a nominated surveyor of recognized organization at all times

GT:

Call Letters:

Year Keel Laid:

NA

Port of Registry:

Patent Number and Expiration:	IMO No.:	Telex ID No:			
Sea area in which vessel is cer	·	MMSI No.	INMARS	SAT ID	No.
A1() A2() A3	() A4()				
1. The following test instru	ments used:		Υ	N	NA
a. Frequency counter					
b. Watt meter with plug in elem	ents covering MF, HF	and VHF			
c. Ampere / Volt / Ohm meter					
d. Insulation resistance tester.					
e. Acid tester (specific gravity)					
f: instrument for decoding the I	D-signal of satellite EF	PIRB's			
g. Spectrum analyzer.*					
h. Oscilloscope *					
i. Deviation meter. *					
j. Demute tester for testing th	ne radiotelephone dis	tress frequency watch receive	r		
(2182 kHz) *	·				

b. Emergency source of energy (specify below)
b 1. Capacity _____
b 2. Location _____
c. Reserve source of energy (specify below)

a. Checked main source of energy available in accordance with requirements.

Sources of energy:

c 1. Capacity ____
c 2. Location

Isthmus Bureau of Shipping (IBS), Williamson Place, Bldg. No. 0764-F, La Boca, Balboa, Panama, Rep. of Panama, Tels: + (507) 211 - 2122 ,Service 24/7 at + (507) 6611 - 3290, Fax: + (507) 211 - 2280 / 211 - 2273 email: ibs@classibs.org, web: www.classibs.org

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¹ The following part of the survey should always be performed by a fully qualified Radio Technician who has adequate knowledge of the Radio Regulations, the Convention, as amended, and the IMO performance standards for radio equipment.

² Verify and assign the navigation area according to the Radio Equipment installed on board.

This test equipment may also be used but is not mandatory.

c. Electrical lighting is permanently arranged and connected to a source of power independent of the main / emergency³ source of power. d. Radio installation clearly marked with call sign, ship station identify and other applicable codes. e. Radio equipment is located at⁴: f. Remote control from conning position provided. 4. Radio Equipment Requirement: a. Equipment installed fulfills the functional requirements for the vessel's sea areas of operation. 5. Method of availability of functional requirements: a. Duplication of equipment. b. Shore-based maintenance (Copy of contract should be verified and collected). c. Al-sea maintenance. 6. Antennas: a. Was a visual inspection of all antennas including, INMARSAT, GPS and AIS VHF antennas, and feeders for satisfactory sitting *including consideration of any possible interference and defects made. b. Checked that arrangements are provided enabling MF/HF transmitting antennas to be grounded. c. Checked that the MF/HF transmitting antennas are protected against being touched accidentally. d. For NIS ships, transmitting results to be tested with MEGGER MEGOHM (>50 MOHM dry, > 5 humid). e. For NIS ships, antenna coupling for MF/HF located outside of deckhouse. 7. Reserve source of energy: a. Checked its sitting and installation. Specify type: b. 1. Checked its sitting and installation. Specify location: b. 2. Checked for defects, including all cables b. 3. Checked its conditions by specific gravity measurement or voltage	3. Radio Installations:		Υ	N	NA
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		surement or voltage			
b. 4. With battery off change, and the maximum required radio installation load	Measurement. Specify Voltage / Specify Gravity:	_			
connected to the reserve source of energy, checked the battery voltage and	Measurement. Specify Voltage / Specify Gravity: b. 4. With battery off change, and the maximum	required radio installation load			

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Delete as appropriate.
 Please, indicate where is located.
 Ships engaged on voyages in sea area A3 and A4 must use a combination of two methods (check all that apply).
 Specify 1 or 6 hours.

discharge current. Specify Maximum di					
b. 5. Checked that the charger(s) are capable of recharging the reserve battery					
within 10 hours.					
b. 6. Checked that battery charger is o	an automatic type.				
8. VHF Transreceivers:			Υ	N	NA
	Basic	Duplication	1		
Make / Model:					
a. Checked for operation on channels 6					
b. Checked that equipment is within fre					
c. Checked RF power output and VSW					
d. Checked correct operation of all control	<u> </u>				
e. Checked that the equipment operate	s from the main, emergency (if provi	ded) and			
reserve sources of energy. f. Checked operation of the VHF control	Junit(a) of portable VHE aguisment	provided			
for navigational safety from bridge wing		provided			
g. Checked for correct operation by on-		her shin			
h. Checked that correct DSC number is		nor ornp.			
i. Checked that DSC distress procedure	. •	ved near			
the unit.		.,			
j. Checked that the ship's position in th	e distress alert is automatically prov	rided with			
this information from an internal or an e	xternal navigation receiver (e.g. GPS	S).			
k. Checked compliance with IMO perform	mance standards.				
	· · · · · · · · · · · · · · · · · · ·				
9. VHF DSC Controllers and Channel 70 DSC watch receiver:					
9. VHF DSC Controllers and Chann	el 70 DSC watch receiver:		Υ	N	NA
9. VHF DSC Controllers and Chann	el 70 DSC watch receiver:		Υ	N	NA
9. VHF DSC Controllers and Chann Make / Model:	el 70 DSC watch receiver:		Υ	N	NA
	el 70 DSC watch receiver:		Υ	N	NA
	el 70 DSC watch receiver:		Υ	N	NA
Make / Model:	el 70 DSC watch receiver:	I	Υ	N	NA
Make / Model:		e Service	Y	N	NA
Make / Model: Make / Model:		e Service	Y	N	NA
Make / Model: Make / Model: a. Performed and off-air check conf Identify programmed in the equipment. b. Checked for correct transmission by	rming the correct Maritime Mobile y means of a routine or test call to		Y	N	NA
Make / Model: Make / Model: a. Performed and off-air check conf Identify programmed in the equipment. b. Checked for correct transmission be station other ship, on board duplicate e	rming the correct Maritime Mobile y means of a routine or test call to quipment, or special test equipment.	a coast	Y	N	NA
Make / Model: Make / Model: a. Performed and off-air check conf Identify programmed in the equipment. b. Checked for correct transmission be station other ship, on board duplicate etc. Checked for correct reception by me	rming the correct Maritime Mobile y means of a routine or test call to quipment, or special test equipment. ans of a routine or test call to a coa	a coast	Y	N	NA
Make / Model: Make / Model: a. Performed and off-air check conf Identify programmed in the equipment. b. Checked for correct transmission b station other ship, on board duplicate e c. Checked for correct reception by me other ship, on board duplicate equipme	rming the correct Maritime Mobile y means of a routine or test call to quipment, or special test equipment. ans of a routine or test call to a coant, or special test equipment.	a coast	Υ	N	NA
Make / Model: Make / Model: a. Performed and off-air check conf Identify programmed in the equipment. b. Checked for correct transmission b station other ship, on board duplicate e c. Checked for correct reception by me other ship, on board duplicate equipmed. Checked the audibility of the VHF/DS	rming the correct Maritime Mobile y means of a routine or test call to quipment, or special test equipment. ans of a routine or test call to a coant, or special test equipment. SC alarm.	st station	Y	N	NA
Make / Model: Make / Model: a. Performed and off-air check conf Identify programmed in the equipment. b. Checked for correct transmission be station other ship, on board duplicate e. Checked for correct reception by me other ship, on board duplicate equipmed. Checked the audibility of the VHF/DS e. Checked that the equipment operate	rming the correct Maritime Mobile y means of a routine or test call to quipment, or special test equipment. ans of a routine or test call to a coant, or special test equipment. SC alarm.	st station	Y	N	NA
Make / Model: Make / Model: a. Performed and off-air check conf Identify programmed in the equipment. b. Checked for correct transmission b station other ship, on board duplicate e c. Checked for correct reception by me other ship, on board duplicate equipmed. Checked the audibility of the VHF/DS e. Checked that the equipment operate reserve sources of energy.	rming the correct Maritime Mobile y means of a routine or test call to quipment, or special test equipment. ans of a routine or test call to a coant, or special test equipment. C alarm. s from the main, emergency (if provi	st station ded) and	Υ	N	NA
Make / Model: Make / Model: a. Performed and off-air check conf Identify programmed in the equipment. b. Checked for correct transmission be station other ship, on board duplicate e. c. Checked for correct reception by me other ship, on board duplicate equipmed. Checked the audibility of the VHF/DS e. Checked that the equipment operate reserve sources of energy. f. Checked that the ship's position in the	rming the correct Maritime Mobile y means of a routine or test call to quipment, or special test equipment. ans of a routine or test call to a coant, or special test equipment. CC alarm. s from the main, emergency (if provi	st station ded) and	Y	N	NA
Make / Model: Make / Model: a. Performed and off-air check conf Identify programmed in the equipment. b. Checked for correct transmission b station other ship, on board duplicate e c. Checked for correct reception by me other ship, on board duplicate equipmed. Checked the audibility of the VHF/DS e. Checked that the equipment operate reserve sources of energy.	rming the correct Maritime Mobile y means of a routine or test call to quipment, or special test equipment. ans of a routine or test call to a coant, or special test equipment. CC alarm. S from the main, emergency (if proving the distress alert is automatically provinal navigation receiver (e.g. GPS).	st station ded) and	Y	N	NA
Make / Model: Make / Model: a. Performed and off-air check conf Identify programmed in the equipment. b. Checked for correct transmission be station other ship, on board duplicate e. Checked for correct reception by me other ship, on board duplicate equipmed. Checked the audibility of the VHF/DS e. Checked that the equipment operate reserve sources of energy. f. Checked that the ship's position in the this information from an internal or external contents.	rming the correct Maritime Mobile y means of a routine or test call to quipment, or special test equipment. ans of a routine or test call to a coant, or special test equipment. C alarm. s from the main, emergency (if provi- e distress alert is automatically provinal navigation receiver (e.g. GPS). rformance standards.	st station ded) and	Y	N	NA
Make / Model: Make / Model: a. Performed and off-air check conf Identify programmed in the equipment. b. Checked for correct transmission by station other ship, on board duplicate etc. Checked for correct reception by me other ship, on board duplicate equipmed. Checked the audibility of the VHF/DS e. Checked that the equipment operate reserve sources of energy. f. Checked that the ship's position in the this information from an internal or extended.	rming the correct Maritime Mobile y means of a routine or test call to quipment, or special test equipment. ans of a routine or test call to a coant, or special test equipment. C alarm. s from the main, emergency (if provi- e distress alert is automatically provinal navigation receiver (e.g. GPS). rformance standards.	st station ded) and	Y	N	NA NA
Make / Model: Make / Model: a. Performed and off-air check conf Identify programmed in the equipment. b. Checked for correct transmission by station other ship, on board duplicate etc. Checked for correct reception by me other ship, on board duplicate equipmed. Checked the audibility of the VHF/DS e. Checked that the equipment operate reserve sources of energy. f. Checked that the ship's position in the this information from an internal or extended.	rming the correct Maritime Mobile y means of a routine or test call to quipment, or special test equipment. ans of a routine or test call to a coant, or special test equipment. C alarm. s from the main, emergency (if provi- e distress alert is automatically provinal navigation receiver (e.g. GPS). rformance standards. conning position.	st station ded) and	Y	N	NA
Make / Model: Make / Model: a. Performed and off-air check conf Identify programmed in the equipment. b. Checked for correct transmission by station other ship, on board duplicate etc. Checked for correct reception by me other ship, on board duplicate equipmed. Checked the audibility of the VHF/DS e. Checked that the equipment operate reserve sources of energy. f. Checked that the ship's position in the this information from an internal or extending. Checked for compliance with IMO per h. Checked DSC alerting available from	rming the correct Maritime Mobile y means of a routine or test call to quipment, or special test equipment. ans of a routine or test call to a coant, or special test equipment. C alarm. s from the main, emergency (if provi- e distress alert is automatically provinal navigation receiver (e.g. GPS). rformance standards. conning position.	st station ded) and	Y		
Make / Model: Make / Model: a. Performed and off-air check conf Identify programmed in the equipment. b. Checked for correct transmission by station other ship, on board duplicate etc. Checked for correct reception by me other ship, on board duplicate equipmed. Checked the audibility of the VHF/DS e. Checked that the equipment operate reserve sources of energy. f. Checked that the ship's position in the this information from an internal or extending. Checked for compliance with IMO per h. Checked DSC alerting available from	rming the correct Maritime Mobile y means of a routine or test call to quipment, or special test equipment. ans of a routine or test call to a coant, or special test equipment. C alarm. s from the main, emergency (if provi- e distress alert is automatically provinal navigation receiver (e.g. GPS). rformance standards. conning position.	st station ded) and	Y		

0200, 1 da. 1 (007) 2.11 2200 2.11 2210 citidat 80 @ citacolocio g, 1100. 11111. citacolocio g

Make / Model:			
a. Checked that the equipment operates from the main, emergency (if provided) and reserve sources of energy.			
b. Checked antenna tuning in all appropriate bands.			
c. Checked that equipment is within frequency tolerance on all appropriate bands (10 kHz).			
d. Checked for correct operation by contact with a coast station and / or measure RF power output and VSWR.			
e. Checked receiver performance by monitoring known stations on all appropriate bands.			
f. Checked that the control unit on the bridge has first priority for the purpose of Initialing distress alerts, if control units are provided outside the navigational bridge			
g. Checked for compliance with IMO performance standards			
			=
11. MF / HF Radio telex equipment:	Υ	N	NA
Make / Model:			
a. Checked that the equipment operates from the main, emergency (if provided) and reserve sources of energy.			
b. Confirmed that the correct selective calling number is programmed in the equipment.			
c. Checked correct operation by inspection of recent hard copy or by a test with a coast radio station.			
d. Checked for compliance with IMO performance standards			
		•	
12. MF / HF DSC controller(s):	Υ	N	NA
Make / Model:			
a. Checked that the equipment operates from the main, emergency (if provided) and reserve sources of energy.			
b. Confirmed that the correct Maritime Mobile Service Identify is programmed in the equipment.			
c. Checked the off air self test program.			
d. Checked operation by means of a test call on MF and / or HF to a coast radio			
atation if the value of the houth powers the area of NAC/IIC transcriptions			
station if the rules of the berth permit the use of MF/HF transmissions.			
e. Checked the audibility of the MF/HF DSC alarm.			
e. Checked the audibility of the MF/HF DSC alarm.f. Checked that the ship's position in the distress alert is automatically provided with			
e. Checked the audibility of the MF/HF DSC alarm.			

13.	MF / HF DSC watch receivers:	Υ	N	N/
	Make / Model:			

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a. Confirm that only DSC channels indicated in the are being monitored.b. Checked that a continuous watch is being main					
transmitters. c. Checked the off air self test program.					
or emocred and on an eon tool programm					
14. INMARSAT Ship Earth Station(s):				N	NA
	N. O				
No.1 Make / Model:	No.2	N	0.3		
Specify Type: A B C	Specify: Basic	Dup	olication	n 🔲	
a. Checked that the equipment operates from the manner reserve sources of energy, and that were an uniform the ship's navigational or other equipment information remains available in the event of failure source of electrical power.	nterrupted supply of ir ent is required, ensu of the ship's main or e	nformation ring such mergency			
b. Checked the distress function by means of an possible.					
c. Checked for correct operation by inspection of telex or telephone.	recent hard copy of te	est call by			
d. Checked distress function only if permitted to a station.	carry out test by the co	oast earth			
e. Checked for compliance with IMO performance s	tandards.				
15. NAVTEX equipment:			Υ	N	NA
Make / Model:					
a. Checked for correct operation by monitoring in	ooming massages or	inanaatina			
recent hard copy.	icoming messages or	inspecting			
recent hard copy. b. Performed test run of the self-test program, if pro	vided.	inspecting			
	vided.	inspecting			
b. Performed test run of the self-test program, if pro c. Checked for compliance with IMO performance s	vided.	mspecting			
b. Performed test run of the self-test program, if pro	vided.	inspecting	Υ	N	NA
b. Performed test run of the self-test program, if pro c. Checked for compliance with IMO performance s	vided.	inspecting	Υ	N	NA
b. Performed test run of the self-test program, if proc. Checked for compliance with IMO performance s 16. Enhanced Group Call: Make / Model: a. Checked for correct operation by monitoring in recent hard copy.	vided. tandards. acoming messages or		Y	N	NA
b. Performed test run of the self-test program, if proc. Checked for compliance with IMO performance s 16. Enhanced Group Call: Make / Model: a. Checked for correct operation by monitoring in recent hard copy. b. Performed test run of the self-test program, if pro	vided. tandards. acoming messages or vided.		Υ	N	NA
b. Performed test run of the self-test program, if proc. Checked for compliance with IMO performance s 16. Enhanced Group Call: Make / Model: a. Checked for correct operation by monitoring in recent hard copy.	vided. tandards. acoming messages or vided.		Y	N	NA
b. Performed test run of the self-test program, if proc. Checked for compliance with IMO performance s 16. Enhanced Group Call: Make / Model: a. Checked for correct operation by monitoring in recent hard copy. b. Performed test run of the self-test program, if pro	vided. tandards. acoming messages or vided.		Y	N N	NA NA

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a. Chacked position and mounting for float free eneration				
a. Checked position and mounting for float free operation Location:				
Location.				
b. Verified that the lanyard is firmly attached in a good condition, neatly stower	ed, and			
not tied to the vessel or the mounting bracket.				
c. Carried out visual inspections for defects.				
d. Carried out the self-test routine.				
e. Checked that the EPIRB ID and other information (included call sign of the	ship) is			
clearly marked on the outside of the equipment.				
f. Decoding the EPIRB identify number an other information confirming it is	correct			
and the same as that marked on the EPIRB				
Identity number:				
·				
g. Checked registration through documentation or through the point of o	contact			
associated with a country code.				
h. Checked battery expiry date:				
i. Checked hydrostatic release unit (HRU) and its expiry date:	_			
j. Checked the emission in the 406 MHz band using the self-test mode	or an			
appropriate device to avoid transmission of a distress call satellites.	or arr			
k. If possible, checked the emission on the 121.5MHz frequency using the se	elf_test			
mode or an appropriate device to avoid activating the satellite system.	on toot			
I. Checked that the EPIRB has been maintained by an approved shore-	-based			
maintenance provider at interval required by the administration (but not ex				
years) ⁷ .	0000 0			
Date: , SBM Provider:				
m. Checked that no transmission has been started after the test and remour the EPIRB in its bracket.	nting of			
n. The presence o bacon operating instructions was verified.				
o. Checked for compliance of IMO performance standards.				
40 Occasional and a second sec				
18. Secondary means of alerting:				
Type of secondary means of alerting:				
Type of secondary means of alerting.				
19. Two way VHF Radiotelephone apparatus for survival craft :		Υ	N	NA
19. Two way VHF Radiotelephone apparatus for Survival Craft.		ı	IN	IVA
Make / Model E	Battery e	xniratio	n date	
No.1	Janory C	хрпанс	ii dato	
No.2				
No.3				
110.0				
a. Checked for correct operation on channel 16 and one other by testin	na with			
a. Oncored for correct operation on charmer to and one other by testing	ig willi			

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⁷ The results of shore–based maintenance should be provided in a form of shore–based maintenance report a copy which should be on board the vessel, and a label affixed to the exterior of the bacon detailing the name of the SBM provider and the date when the next shore–based maintenance is due. The SBM provider may affix a tamper proof seal or similar device on completion of the SBM. The maintenance interval provided it does not exceed 5 years, may be aligned with the replaced date of the battery.

another fixed or portable VHF installation.			
b. Checked the battery charging arrangements where rechargeable batteries are			
used.			
c. Checked that available channels are in compliance with requirements of flag administration.			
d. Checked the battery expiry dates if primary cells are used.			
e. Checked any fixed installation provided in a survival craft, where appropriate.			
f. Checked they are clearly marked with ship's call sign (fixed).			
g. Checked for compliance of IMO performance standards.			
20. Radar transponders :	Υ	N	NA
<u>'</u>			
Make / Model			
No.1			
No.2			
a. Checked for satisfactory functional test using on board 9 GHZ radar, if possible.			
b. Checked for satisfactory stowage.			
c. Checked for operating instructions.			
d. Checked for sufficient battery capacity for stand-by condition and to provide			
transmissions.			
e. Checked for clear markings with ship's call sign.			
f. Battery expiration date 1) 2)			
1. Battory expiration date 1/			
g. Operating frequencies:			
g. Checked for compliance with IMO performance standards			
21. Equipment and Spares:	Υ	N	NA
a. Checked test equipment and spares carried to ensure carriage is adequate in			
accordance with the sea areas in which the ship trades and the declared options for			
maintaining availability of the functional requirements.			
22. Radars:	Υ	N	NA
Make / Model			
No.1			
No.2			
a. Checked for satisfactory functioning of equipment.			
b. Checked radar facilities operational (if ARPA integral part of Radar).			
c. Checked acquisition, if test means is provided.			
1. Manual			
2. Automatic			
d. Checked capability to operate on 9GHz frequency8			

⁸ As per regulation V/12 (g) and (h) of the GMDSS Amendments, for ships that are required to be fitted with radar installations, at least one radar installation shall be capable of operating in the 9 GHz frequency band from 1 February 1995.

23. ARPA:		Υ	N	NA
	Make / Model			
No.				
No.	2			
			1	
	ory functioning of equipment.			
	es operational (if ARPA integral part of radar).			
	if test means is provided.			
1. Manual.				
2. Automatic	-			
	ual operational warnings			
	all equipment needs to be type approved.			
f. Checked for compliand	ce of IMO performance standards.			
	Slobal Navigation Satellite system or a Terrestrial Radio	Υ	N	NA
navigation System (GF	² S) ³ :			
	Make / Model			
No.				
No.				
140.	<u> </u>			
a. Information on the sh	ip's position is continuously and automatically provided to all			
relevant GMDSS equipn				
b. The navigation receive	ver is supplied from a source of energy ensuring continuous			
	ition information in the event of failure of the ship's main or			
emergency source of en				
c. Checked for complian	ce of IMO performance standards.			
25. Ship Security Ale	rt System (SSAS):	Υ	N	NA
	rt System (SSAS): ce of IMO performance standards. ¹⁰	Υ	N	NA
a. Checked for compliantb. Checked that a mining	ce of IMO performance standards. ¹⁰ num two activation points, one of which is on the navigation	Υ	N	NA
a. Checked for compliantb. Checked that a miningbridge, are provided, that	num two activation points, one of which is on the navigation at are protected against inadvertent operation. (It should not	Y	N	NA
a. Checked for compliant b. Checked that a minim bridge, are provided, the be necessary for the use	ce of IMO performance standards. ¹⁰ num two activation points, one of which is on the navigation	Y	N	NA
a. Checked for compliant b. Checked that a mining bridge, are provided, the be necessary for the us operate any control) ¹¹	num two activation points, one of which is on the navigation at are protected against inadvertent operation. (It should not ser to remove seals or to break any lid or cover in order to	Υ	N	NA
a. Checked for compliant b. Checked that a minin bridge, are provided, the be necessary for the us operate any control) ¹¹ c. Checked that the	num two activation points, one of which is on the navigation at are protected against inadvertent operation. (It should not ser to remove seals or to break any lid or cover in order to ransmission of the security alert is possible without any	Y	N	NA
a. Checked for compliant b. Checked that a mining bridge, are provided, the be necessary for the use operate any control) ¹¹ c. Checked that the tradjustment of the radio	num two activation points, one of which is on the navigation at are protected against inadvertent operation. (It should not ser to remove seals or to break any lid or cover in order to	Y	N	NA

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 ⁹ A RDF is not longer required, as per 2000 SOLAS amendments to Chapter V.
 10 If installed on or after July 1st, 2004, conforms to performance standards not inferior to those specified in the Annex RESOLUTION MSC. 147(77). If installed before July 1st, 2004,, conforms to performance standards not inferior to those specified in the Annex to Resolution MSC 136(76).

¹¹ Personnel involved in the survey of SSAS installation and testing are to have the necessary security clearance to know where the "secure" activation point(s) are located on board. If they do not have the security clearance, then the appropriate ship's crew/operating person is to be requested to activate the SSAS "IN TEST MODE" from the bridge and from the other "secure" location.

to be raised on the ship nor should impair the functionality of the GMDSS installation).		
d. Checked that the transmission initiated by SSAS activation points include a unique code/identifier indicating that the alert has not been generated in accordance with GMDSS distress procedures.		
e. Checked that the transmission includes the ship identity and current position associated with a date and time. (The transmission should be addressed to a shore station and should not to ship stations).		
f. Checked that the SSAS, when activated, continues the ship security alert until deactivated and/or reset.		
g. Checked that the SSAS capable of being tested.		
h. Checked that, where the ship security alert system is powered from the ship's main source of electrical power is it also possible to operate the system from an alternative source of power.		

The following requirement(s) is/are considered part of the Safety Equipment Survey, however it must be inspected by an IBS approved Radio Firm. If this equipment is not inspected at time of the Radio Survey, then the IBS approved Radio Firm is to be on board at the time of the Safety Equipment survey when an inspection of the below items is carried out:

26. Automatic Identification System (AIS):	Υ	N	N/A
a. Checked for compliance of IMO performance standards.			
b. Verified that the AIS power supply unit is type approved or tested for electromagnetic compatibility according to IMO Res. A.813(19), if the AIS does <i>not</i> have an integrated power supply unit.			
c. Verified that the interface installed between the AIS and other Radio-navigational equipment is type-approved.			
d. Verified that the AIS is connected to the emergency source of power.			
e. Checked that the AIS is synchronized with UTC, and if provided, position information is correct and valid.			
f. Verified that correct ship information has been entered into the AIS.			

27. VDR/S-VDR						
Note- Check "Y" for success, "N" for failure or "N/A" for Non fitted interfaces in these boxes, as						as
appropriate.						
Voyage Data Recorder Details						
Manufacturer:						
Model:						
System Serial number:						
Software version Number:						
Date fitted:						
Inspection Details						
Name person conducting testing:						
Company:						
Inspection Date:						
Inspection Location:						
				Υ	N	N/A
		•	•			

Isthmus Bureau of Shipping (IBS), Williamson Place, Bldg. No. 0764-F, La Boca, Balboa, Panama, Rep. of Panama, Tels: + (507) 211 - 2122 ,Service 24/7 at + (507) 6611 - 3290, Fax: + (507) 211 - 2280 / 211 - 2273 email: ibs@classibs.org, web: www.classibs.org

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1. Pre- Existing Alarms						
Confirm that no alarms w		art of procedure	es			
2. Power supply alarm check						
Remove sources of external power. Confirm that alarm is activated. Record time						
(hh.mm)						
(1111.11111)						
3. Reserve power so	urce check					
Allow VDR to continue ru		55minutes from	"2" above.			
Confirm that equipment is	s still operating a	t this time, with	no additional alarms.			
Record time (hh.mm):				'		
4. Reserve power so	ource shutdown	check				
2 hours 05 minutes from			has automatically			
stopped recording.			,			
Record time (hh.mm) :				1	•	·
5. Battery				<u> </u>		
Battery Evaluate Outs (where applied	achia)					
Expiry Date (where applic Acoustic Beacon	cable)					
Reserve power source						
Reserve power source						
6. Acoustic beacon te					T	Г
	Using manufacturer's test equipment confirm that acoustic beacon is functional or by the substitution of a certified fully operational unit.					
7. Overall Conditions of	of equipment					
Inspect Equipment and reco		if satisfactory				
Sub unit	ra corrainori, non	Notes on Con	ditions			
Protective Capsule						
External Cables						
Main Unit						
<u>'</u>						
8. Interfaces: Operation and recording						
Date and Time Preferably ext		•				
	(e.g. Global Satellite Sys					
Ship's position	Electronic Positioning					
- r - r	System					
Speed (Through or over		Ship's designated speed				
ground)		and distance measuring				
	equipment					
Heading	Ship's comp	ass				
Bridge audio	1 or more br	ridge				
	microphones					
Communication Audio	VHF					
Radar Data-nost display	Master rada	r dienlov	i	1	1	Ī

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selection						
Water depth	Echo sounder					
Main Alarms	All mandatory alarms on bridge					
Rudder order and response	Steering gear and autopilot					
Engine order and response	Telegraphs, controls and					
·	thrusters					
Hull openings Status	All mandatory status					
. •	information displayed on					
	bridge					
Watertight and fire door	All mandatory status					
status	information displayed o	n				
	bridge					
Acceleration and hull stresses	Hull stresses and response	nse				
	monitoring equipment					
	where fitted					
Wind speed and direction	Anemometer where fitte	ed				
9.Change or repair of sens				T	ı	
Check maintenance records of						
Confirm any defects property re						
Person Authorized by the Manu	ıfacturer	Ship's	s representative			
<u> </u>		<u> </u>				
Date		Date				
If the meanifest man deep not re-				45 d.	0.1.	11
If the manufacturer does not co		ie a co	impleted test report with	iin 45 da	ays, this	test
report should go forward for ce	tification.					
10 Manufacturar's analysis						
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This performance test was conducted in accordance with SOLAS regulation V/18.8 and forms part of the procedure for the issue of the Annual Performance Test Certificate. The results, information and any comments should be relayed to the manufacturer in accordance with the instructions contained within the Operation Manual. Subject to satisfy results, an Annual Performance Test Certificate will then be issued.

In accordance with the principles of harmonization of certificates, the Certificate when issued will remain valid until the next annual re-validation of that Certificate, subject to the equipment being maintained in appropriate operational condition.

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28.	Radio Technician Remarks:	
		Radio Technician's Signature
		•
		Radio Firm Name
	Port of survey	Date (mm/dd/yy)

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ANNEX 1

SURVEYS FOR THE CARGO SHIP SAFETY RADIO CERTIFICATE Documentation to be checking that has been available on board

To be completed by ClassIBS attending surveyor/radio technician during periodical/renewal Radio surveys.

Mark "X" to indicate "Yes" and "N" to indicate an outstanding action in appropriate block for each item. If an item is not applicable mark "NA" in appropriate block.

	Items to be verified on board
١.	Checking for a valid radio license issued by the flag Administration
2.	Checking the radio operator's certificates of competence (SOLAS 74/88 reg. IV/16)
3.	Checking the radio record (log) (SOLAS 74/88 reg. IV/17)
4.	Checking the carriage of up-to-date ITU publications
5.	Checking the carriage of operating manuals for all equipment (SOLAS 74/88 reg. IV/15)
6.	Examination of current certificates and other records validity, as appropriate.
7.	Checking that the master, officers and ratings are certificated as required by the STCW Convention.
8.	Confirming that any new equipment has been properly approved before installation and
	that no changes have been made such as would affect the validity of the certificate.
9.	Confirming that a record has been kept in the period since the last survey to the 74/88
	satisfaction of the Administration and as required by the Radio Regulations (SOLAS
	reg. IV/17)
10.	Checking documentary evidence that the actual capacity of the battery has been proved
	in port within the last 12 months (SOLAS 74/88 reg. IV/13)
11.	Checking the carriage of service manuals for all equipment when at-sea maintenance is
	the declared option (SOLAS 74/88 reg. IV/15).
12.	Checking that the annual test has been carried out for the Satellite EPIRB and, if
	applicable, shore-based maintenance has been carried out at intervals not exceeding
	five years (SOLAS 74/04 reg. IV/15);

Date and Place of Survey

ClassIBS Surveyor / Radio Technician

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ANNEX 2 AUTOMATIC IDENTIFICATION SYSTEM (AIS) ANNUAL TEST REPORT

Name of ship/call sign:	
MMSI number:	
Port of registry:	
IMO Number:	
Gross tonnage:	
Date keel laid:	

1. lns	stallation details	
	Item	Status
1.1	AIS transponder type:	
1.2	Type approval certificate	
1.3	Initial installation configuration report on board?	
1.4	Drawings provided? (Antenna-, AIS-arrangement and block diagram)	
1.5	Main source of electrical power,	
1.6	Emergency source of electrical power,	
1.7	Capacity to be verified if the AIS is connected to a battery	
1.8	Pilot plug near pilots operating position?	
1.9	120 V AC provided near pilot plug? (Panama and St. Lawrence requirement)	
2. AI	S programming - Static information	
2.1	MMSI number	
2.2	IMO number	
2.3	Radio call sign	
2.4	Name of ship	
2.5	Type of ship	
2.6	Ship length and beam	
2.7	Location of GPS antenna	
3. Al	S programming - Dynamic information	
3.1	Ships position with accuracy and integrity status (Source: GNSS)	
3.2	Time in UTC (Source: GNSS)	
3.3	Course over ground (COG) (will fluctuate at dockside) (Source GNSS)	
3.4	Speed over ground (SOG) (zero at dockside) (Source: GNSS)	
3.5	Heading (Source: Gyro)	
3.6	Navigational status	

Isthmus Bureau of Shipping (IBS), Williamson Place, Bldg. No. 0764-F, La Boca, Balboa, Panama, Rep. of Panama, Tels: + (507) 211 - 2122 ,Service 24/7 at + (507) 6611 - 3290, Fax: + (507) 211 - 2273 email: ibs@classibs.org, web: www.classibs.org

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3.7	Rate of turn, where available (ROT)			
3.8	Angle of heel, pitch and roll, where available			
4. AIS	programming - voyage related information			
4.1	Ships draught			
4.2	Type of cargo			
4.3	Destination and ETA (at masters discretion)			
4.4	Route plan (optional)			
4.5	Short safety-related messages			
5. Performance test using measuring instrument				
5.1	Frequency measurements AIS ch. 1 and 2, GMDSS ch. 70			
5.2	Transmitting output, AIS ch. 1 and 2, GMDSS ch. 70			
5.3	Polling information ch. 70			
5.4	Read data from AIS			
5.5	Send data to AIS			
5.6	Check AIS response to "virtual vessels"			
6. "On air" performance test				
6.1	Check reception performance			
6.2	Confirm reception of own signal from other ship/VTS			
6.3	Polling by VTS/shore installation			
Electromagnetic interference from AIS observed to other installations?:				
D	ha (fa ha addad in Yene 00 ah are)			
Kemar	ks (to be added in item 28 above):			

The AIS has been tested according to IMO SN/Circ.227 and resolution MSC.74(69), annex 3, Revised by Res.MSC.115(73) (If installed on or after 1 July 2003, refer to Res.MSC.115(73)).				
Name of Radio Inspector	Date and place	Name of Radio Inspector Company		

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