



# Government of Pakistan

## Survey Checklist – GMDSS – Safety Radio

International Convention for the Safety of Life at Sea, 1974, as amended.

Survey requirements for passenger ships irrespective of size and cargo ships of 300 tons gross tonnage and upwards

Complete all relevant sections; give information, dates or measurements, as appropriate. Mark boxes "x" to indicate satisfactory inspection. Dates should be given in the format mm/yyyy (month/year; eg Dec 2014 = 12/2014).

A satisfactory operational status means that all major operating facilities and requirements of the equipment or unit have been tested and found to function in accordance with the relevant SOLAS regulations and associated IMO performance standards.

Name of Ship \_\_\_\_\_ IMO Number \_\_\_\_\_

### Maritime Mobile Service Identity

The "Record of Approved GMDSS Radio Installation" form reference \_\_\_\_\_ (Record number)

dated

is confirmed available on board  was not found on board  is attached with this checklist

Sea areas in which the ship is certified to operate: A1  A1+A2  A1+A2+A3  A1+A2+A3+A4

Methods to ensure the availability of radio facilities:

Duplication of equipment | |

Shore-based maintenance | |

At-sea maintenance capability | |

<b>1</b>	<b>General - All Ship Types</b>	
1.1	Are all other Statutory Certificates and Classification Certificates valid?	Yes/No*
1.2	Have any alterations been made or any new equipment installed? If so have they been approved?	Yes/No*
<b>2</b>	<b>National Administration Requirements</b>	
2.1	Have the country files been checked to ascertain any flag administration requirements?	Yes/No/NA*
2.2	Have all flag administration technical and reporting requirements been complied with?	Yes/No/NA*
<b>3</b>	<b>Manning</b>	
3.1	Does the ship's complement comply with the Minimum Safe Manning Document (SOLAS 74/00 reg V/14)?	Yes/No*
3.2	Are the master, officers and ratings are certificated as required by the STCW Convention?	Yes/No*
3.3	Radio operator's certificates of competence	Yes/No*
	<div style="width: 45%;">Name</div> <div style="width: 45%;">Name</div>	
	<div style="width: 45%;">Certificate</div> <div style="width: 45%;">Certificate</div>	
	<div style="width: 45%;">Administration</div> <div style="width: 45%;">Administration</div>	
<b>4</b>	<b>Manning (Continued)</b>	
	<div style="width: 45%;">Name</div> <div style="width: 45%;">Name</div>	
	<div style="width: 45%;">Certificate</div> <div style="width: 45%;">Certificate</div>	
	<div style="width: 45%;">Administration</div> <div style="width: 45%;">Administration</div>	

5	Documentation			
5.1	Are type approval certificates onboard for all applicable GMDSS radio equipment?		Yes/No/NA*	
5.2	Valid radio licence issued by the flag administration		Yes/No/NA*	
5.3	Radio record (logbook) is available and properly kept		Yes/No/NA*	
5.4	Up-to-date ITU publications		Yes/No/NA*	
5.5	Operating manuals for all equipment		Yes/No/NA*	
5.6	Service manuals for all equipment when at-sea maintenance is the declared option		Yes/No/NA*	
6	Sources Of Energy			
	The following were found in satisfactory condition:	Details		
6.1	Main source of electrical power		Yes/No/NA	I, P, R
6.2	Emergency source of electrical power (if provided)		Yes/No/NA	I, P, R
6.3	Reserve source of energy to supply radio installations (radio battery)		Yes/No/NA	I, P, R
6.3a	Battery charger(s): charging current (Amperes)		Yes/No/NA	I, P, R
6.3b	Battery charger(s) capable of re-charging the battery within 10 hours		Yes/No/NA	I, P, R
6.3c	Date when battery capacity was last verified: (mm/yyyy)		Yes/No/NA	I, P, R
6.3d	Documentary evidence that the actual capacity of the battery has been proved in port within the last 12 months		Yes/No/NA	P, R
6.3e	Other relevant data (for example: specific gravity, date of battery manufacture)		Yes/No/NA	I, P, R
6.3f	Battery voltage and discharge current with the battery off charge and maximum load connected		Yes/No/NA	I, P, R
6.3g	Sufficient capacity to operate the basic or duplicated equipment for 1 hour or 6 hours, as appropriate		Yes/No/NA	I, P, R
6.3h	Information of ship's position is provided continuously and automatically to all two-way communication equipment		Yes/No/NA	I, P, R
6.4	An additional reserve source of energy (additional radio battery) if provided		Yes/No/NA	I, P, R
6.4a	Battery charger(s): charging current (Amperes)		Yes/No/NA	I, P, R
6.4b	Battery charger(s) capable of re-charging the battery within 10 hours		Yes/No/NA	I, P, R
6.4c	Date when battery capacity was last verified: (mm/yyyy)		Yes/No/NA	I, P, R
6.4d	Documentary evidence that the actual capacity of the battery has been proved in port within the last 12 months		Yes/No/NA	P, R
6.4e	Other relevant data (for example: specific gravity, date of battery manufacture)		Yes/No/NA	I, P, R
6.4f	Battery voltage and discharge current with the battery off charge and maximum load connected		Yes/No/NA	I, P, R
6.4g	Sufficient capacity to operate the basic or duplicated equipment for 1 hour or 6 hours, as appropriate		Yes/No/NA	I, P, R
6.4h	Information of ship's position is provided continuously and automatically to all two-way communication equipment		Yes/No/NA	I, P, R
7	Radio Installation – Radio Communications Form R – Section 2			
7.1	VHF transceiver(s):			
7.1a	Operation of channels 6, 13 and 16		Yes/No/NA	I, P, R
7.1b	Frequency tolerance, transmission line quality and radio frequency power output in good order		Yes/No/NA	I, P, R
7.1c	Correct operation of all controls including priority control units		Yes/No/NA	I, P, R
7.1d	The equipment operates from the main, emergency (if provided) and reserve sources of energy		Yes/No/NA	I, P, R
7.1e	Satisfactory operation of the VHF control unit(s) or portable VHF equipment provided for navigational safety		Yes/No/NA	I, P, R
7.1f	Correct operation by on-air contact with a coast station or other ship		Yes/No/NA	I, P, R
7.2	VHF DSC controller and channel 70 DSC watch receiver			
7.2a	Correct Maritime Mobile Service Identity is programmed in the equipment after performing an off-air check		Yes/No/NA	I, P, R
7.2b	Correct transmission and reception after a routine or test call to a coast station, other ship, on board duplicate equipment or special test equipment		Yes/No/NA	I, P, R
7.2c	Satisfactory audibility of the VHF/DSC alarm		Yes/No/NA	I, P, R
7.2d	The equipment can operate from the main, emergency (if provided) and reserve resources of energy		Yes/No/NA	I, P, R

7 Radio Installation – Radio Communications Form R – Section 2 (Continued)			
7.3	MF/HF radiotelephone equipment:		
7.3a	The antenna tuning in all appropriate bands	Yes/No/NA	I, P, R
7.3b	The equipment is within frequency tolerance on all appropriate bands	Yes/No/NA	I, P, R
7.3c	Correct operation when contacting a coast station and/or measuring transmission line quality and radio frequency output	Yes/No/NA	I, P, R
7.3d	Satisfactory receiver performance (check by monitoring known stations on all appropriate bands)	Yes/No/NA	I, P, R
7.3e	Control unit on the bridge has first priority to initiate distress alerts (if control units provided outside the navigating bridge)	Yes/No/NA	I, P, R
7.3f	The equipment can operate from the main, emergency (if provided) and reserve resources of energy	Yes/No/NA	I, P, R
7.4	HF radiotelex equipment:		
7.4a	The equipment operates from the main, emergency (if provided) and reserve sources of energy	Yes/No/NA	I, P, R
7.4b	The correct selective calling number is programmed in the equipment	Yes/No/NA	I, P, R
7.4c	Correct operation (by inspection of recent hard copy or by a test with a coast radio station)	Yes/No/NA	I, P, R
7.5	MF/HF DSC controller(s):		
7.5a	The equipment operates from the main, emergency (if provided) and reserve sources of energy	Yes/No/NA	I, P, R
7.5b	The correct Maritime Mobile Service Identity is programmed in the equipment	Yes/No/NA	I, P, R
7.5c	The off-air self-test programme is in good order	Yes/No/NA	I, P, R
7.5d	Satisfactory operation by means of a test call on MF and/or HF to a coast radio station (if the rules of the berth permit the use of MF/HF transmissions)	Yes/No/NA	I, P, R
7.6	MF/HF DSC watch receiver(s):		
7.6a	Only distress and safety DSC frequencies are being monitored	Yes/No/NA	I, P, R
7.6b	A continuous watch is maintained whilst keying MF/HF radio transmitters	Yes/No/NA	I, P, R
7.6c	Satisfactory operation by means of a test call from a coast station or other ship	Yes/No/NA	I, P, R
7.7	INMARSAT Ship Earth Station(s):		
7.7a	The equipment operates from the main, emergency (if provided) and reserve sources of energy	Yes/No/NA	I, P, R
7.7b	Where an uninterrupted supply of information from the ship's navigational or other equipment is required, such information remains available in the event of failure of the ship's main or emergency source of electrical power	Yes/No/NA	I, P, R
7.7c	Distress function is in good working order, verified by means of an approved test procedure where possible	Yes/No/NA	I, P, R
7.7d	Correct operation by inspection of recent hard copy or by test call	Yes/No/NA	I, P, R
7.8	NAVTEX equipment:		
7.8a	Correct operation by monitoring messages or inspecting recent hard copy	Yes/No/NA	I, P, R
7.8b	Run self-test programme if provided	Yes/No/NA	I, P, R
7.9	Enhanced Group Call equipment:		
7.9a	Correct operation and area by monitoring incoming messages or by inspecting recent hard copy	Yes/No/NA	I, P, R
7.9b	Run self-test programme if provided	Yes/No/NA	I, P, R
7.10	Receipt of maritime safety information by HF NBDP (if appropriate):		
7.10a	Correct operation by monitoring messages or inspecting recent hard copy	Yes/No/NA	I, P, R
7.10b	Run self-test programme if provided	Yes/No/NA	I, P, R
7.11	406 MHz satellite EPIRB		
7.11a	MMSI number if encoded in the beacon corresponds with the MMSI number assigned to the ship	Yes/No/NA	I, P, R
7.11b	Unique beacon identification code clearly marked on the outside of the equipment, confirming it is correct by decoding the unique beacon identification code (where possible)	Yes/No/NA	I, P, R
7.11c	Unique beacon identification code programmed in the EPIRB corresponds with the unique beacon identification code assigned by or on behalf of the Administration		
7.11d	Hydrostatic release expiry date (mm/yyyy)	(a)	(b)
7.11e	Appropriate position and mounting for float free operation	(c)	Yes/No/NA I, P, R
7.11f	Satisfactory visual inspection	Yes/No/NA	I, P, R
7.11g	Self-test routine in good working order	Yes/No/NA	I, P, R
7.11h	Correct emission on operational frequencies, coding and registration on the 406 MHz signal (without transmission of a distress call to the satellite)	Yes/No/NA	I, P, R
7.11i	Satellite EPIRB tested at intervals not exceeding 12 months in accordance with MSC/Circ.1040/Rev.1(SOLAS IV/15)	Yes/No/NA	I, P, R



7 Radio Installation – Radio Communications Form R – Section 2 (Continued)			
7.11j	The EPIRB has been subject to maintenance at intervals not exceeding five years at an approved shore-based maintenance facility		Yes/No/NA I, P, R
	EPIRB Serial No.	Due Date of next on shore maintenance (mm/yyyy)	Expiry date of the battery (mm/yyyy)
7.11k	Correct emission on operational frequencies, coding and registration on the 121.5 MHz homing signal (without transmission of a distress call to the satellite), where possible		Yes/No/NA I, P, R
7.12	VHF DSC EPIRB in satisfactory condition		Yes/No/NA I, P, R
7.13	All two way communication equipment capable of automatically including the ships position in the distress alert is automatically provided with the information from an internal or external navigation receiver (e.g. GPS) which is connected to the reserve source of energy		Yes/No/NA I, P, R
7.14	Ability to initiate the transmission of ship-to-shore distress alerts by at least two separate and independent means, each using different radio communication service, from the position from which the ship is normally navigated		Yes/No/NA I, P, R
7.15	Examine all antennas, including Inmarsat antennas and feeders, for:		
7.15a	Satisfactory siting and absence of defects		Yes/No/NA I, P, R
7.15b	Insulation and safety		Yes/No/NA I, P, R
8 Methods Used To Ensure Availability Of Radio Facilities Form R – Section 3			
8.1	Duplication of equipment:		
8.1a	VHF DSC installation as "duplicated equipment"		Yes/No/NA I, P, R
8.1b	INMARSAT ship earth station as "duplicated equipment" or		Yes/No/NA I, P, R
8.1c	MF/HF radio installation as "duplicated equipment"		Yes/No/NA I, P, R
8.2	Shore-based maintenance:		
8.2a	Arrangements acceptable to flag state		Yes/No/NA I, P, R
8.3	At-sea maintenance capability		
8.3a	Spares/documentation/test equipment adequate to the sea areas		Yes/No/NA I, P, R
8.3b	Suitably qualified radio maintainer		Yes/No/NA I, P, R
9 Radio Installations – Life-Saving Appliances Form E – Section 2			
9.1	Two-way VHF radiotelephone apparatus		
9.1a	Correct operation on Channel 16 and one other by testing with another fixed or portable VHF installation		Yes/No/NA I, P, R
9.1b	Primary battery expiry date (mm/yyyy) (a)	(b)	(c) Yes/No/NA I, P, R
9.1c	and/or rechargeable batteries and battery charger (state which)		Yes/No/NA I, P, R
9.1d	Any fixed installation provided in a survival craft in satisfactory condition		Yes/No/NA I, P, R
9.2	Search and rescue locating devices (SART/AIS-SART)		Yes/No/NA I, P, R
9.2a	Appropriate position and mounting		Yes/No/NA I, P, R
9.2b	Adequate response on ship's 9GHz radar or on frequencies dedicated for AIS		Yes/No/NA I, P, R
9.2c	Battery expiry date (mm/yyyy) (a)	(b)	
10 Additional Requirements For Passenger Ships			
10.1	Distress panel (transmit)		Yes/No/NA I, P, R
10.2	Information on the ship's position		Yes/No/NA I, P, R
10.3	Distress alarm panel (receive)		Yes/No/NA I, P, R
10.4	Aeronautical radiocommunications		Yes/No/NA I, P, R
10.5	Person designated for radiocommunication duties during distress incidents		Yes/No/NA I, P, R

11 Deficiencies (See reg IV/15.8)

11.1

11.2

12 Changes to "Record of Approved GMDSS Radio Installation":

12.1

12.2

This is to certify that:

The following survey was completed/part held: Initial/Annual/Intermediate/Periodical/Renewal/GE\*

(a) the safety radio survey has been carried out in accordance with the relevant regulations of the Convention and as described above;

(b) deficiencies, if any, are described in section 11;

(c) all the functional requirements of reg IV/4 appropriate to the sea area or areas specified are provided and are operational.

If any one of the functional requirements of reg IV/4 is not available (excepting reg IV/4.1.8), whether using "basic" or "duplicated" equipment, a safety radio certificate should not be issued.

Surveyed by

Specialist Surveyor

Signature

Port

Date

Accepted by

Government Surveyor

Signature

Port

Date

\* Delete as applicable

