

ClassNK**CHECK LIST FOR INITIAL/PERIODICAL/ RENEWAL SURVEY OF PASSENGER / CARGO SHIP SAFETY RADIO EQUIPMENT (GMDSS)**

Under the provision of the SOLAS 1974 as amended and the Rules for Radio Installations for GMDSS ships

Tests and measurements are to be done in accordance with the applicable provisions of the Guidance for Radio Installations. The provision numbers quoted in the round brackets correspond to those of the Guidance unless otherwise indicated particularly.

Ship's Name		Ship's Flag	
Ship's Owner			
Class No.		IMO No.	
Distinctive No.		Gross Tonnage	

Inspection Place :

Inspection Date :

Tested and measured by :

Radio Inspector :

Radio Firm :

Signature :

1. Station License (2.1.5)

Validity of radio station license	<input type="checkbox"/> Valid (until)		
Call Sign		MMSI	
Selcall No. for NBDP *		ID for DSC(VHF) *	
1st ID for INMARSAT- F ₇₇		ID for DSC(MF/HF) *	
2nd ID for INMARSAT- F ₇₇		ID for DSC(MF)*	
ID for Satellite EPIRB		ID for Satellite EPIRB	
ID for 1st INMARSAT-C		ID for 2nd INMARSAT-C	
ID for LRIT		ID for AIS-SART**	
Type of ship			
Sea area in which the ship is certified to operate <input type="checkbox"/> A1 <input type="checkbox"/> A1+A2 <input type="checkbox"/> A1+A2+A3 <input type="checkbox"/> A1+A2+A3+A4			
Maintenance requirements			
<input type="checkbox"/>	Duplication of equipment:	VHF and	
<input type="checkbox"/>	Shore-based maintenance:	Maintenance agreement	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/>	At-sea electronic maintenance:	Measuring instruments	<input type="checkbox"/> Yes <input type="checkbox"/> No
		Technical document	<input type="checkbox"/> Yes <input type="checkbox"/> No
		Special spare parts & tools	<input type="checkbox"/> Yes <input type="checkbox"/> No

* If assigned separately from the MMSI. ** If fitted.

2 Radio Personnel (2.1.5-1(3))**2.1 Radio operator**

☆	Name and Nationality	Class and Certificate No.	Certificate issued by
	(Nationality:)	(No.)	
	(Nationality:)	(No.)	
	(Nationality:)	(No.)	

☆ Check with "X" for the radio operator who is designated to have primary responsibility for radio-communications during distress incidents.

2.2 Minimum number of persons with required qualifications to operate the radio installations:

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- 3. General Requirements for Radio Installations** Y N N/A
- 3.1 Are all radio controls for operating the radio installations adequately illuminated?
- 3.2 Are the ship's call sign, ship station identity and other codes, as applicable, for use of the radio station posted?
- 3.3 Is the radio installation(s) protected from adverse environmental conditions?
- 3.4 Is the radio installation(s) so located that no harmful interference affects its use and so located to ensure the greatest possibility of operational availability?
- 3.5 Are radio logs and the latest edition of ITU publications provided?
- 3.6 Are spare parts, tools and operating manuals available?
- 3.7 For "at-sea maintenance," are additional technical documentation, tools, measuring equipment & spare parts available?
- 3.8 Facilities for bridge wings communications (check off the applicable box):
- extension cords fixed handset line VHF transceiver
- 3.9 Is the antenna fitted as high as possible, sufficiently separated from other antennas, and fitted in such a position that no obstacles significantly degrade its performance?
- 3.10 In case where tracking antenna is used for GMDSS equipment, is there a means for ensuring continuous supply of ship's heading information?
- 3.11 In case of a passenger ship, are additional requirements for the passenger ship satisfied?
- 4. Source of Energy** Main Emergency Reserve
- 5. Composition of Radio Installation** (check off all boxes that apply)
- | | (VHF) | (MF) | (MF/HF) | (INMARSAT) |
|---------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Primary System : | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Duplicated System : | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> |
- 6. Secondary Means of Alerting** (check off the applicable box)
- | | | | |
|-----------------------------------|--|-------------------------------------|----------------------------------|
| <input type="checkbox"/> VHF(DSC) | <input type="checkbox"/> INMARSAT- F ₇₇ | <input type="checkbox"/> INMARSAT-C | <input type="checkbox"/> MF(DSC) |
| <input type="checkbox"/> HF(DSC) | <input type="checkbox"/> 406MHz EPIRB | <input type="checkbox"/> VHF EPIRB | |
- 7. Availability and Condition of Installations Recorded in "SR(GMDSS)check04-3 to -8"**
(check off the applicable boxes, (P) for primary system (D) for duplicated system)
- | | | |
|---|--------------------------|--------------------------|
| 7.1 VHF radio installation | (P) | (D) |
| 7.1.1 Transceiver | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.1.2 DSC controller | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.1.3 DSC watch receiver | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.2 MF radio installation | | |
| 7.2.1 Transceiver | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.2.2 DSC controller | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.2.3 DSC watch receiver | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.3 MF/HF radio installation | | |
| 7.3.1 Transceiver | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.3.2 DSC controller | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.3.3 DSC watch receiver | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.3.4 Direct-printing telegraphy | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.4 INMARSAT ship earth station | | |
| 7.4.1 INMARSAT- F ₇₇ direct-printing telegraphy | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.4.2 INMARSAT-C direct-printing telegraphy | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.5 Facilities for reception of Maritime Safety Information (MSI) | | |
| 7.5.1 NAVTEX receiver | <input type="checkbox"/> | |
| 7.5.2 EGC receiver/decoder | <input type="checkbox"/> | |
| 7.5.3 HF direct-printing telegraphy receiver | <input type="checkbox"/> | |

- 7.6 EPIRB: VHF EPIRB 406MHz EPIRB
- 7.6.1 Expiry date of battery
- 7.6.2 Expiry date of release sensor
- 7.6.3 Test / Maintenance Annual Test Shore-based Maintenance
- 7.7 Ship's search and rescue locating device: Exclusive use Common use
- 7.8 Radio life-saving appliances
- 7.8.1 Two-way VHF radiotelephone apparatus
- 7.8.2 Survival craft search and rescue locating device: SART AIS-SART
- 7.9 Position-Updating Auto Manual

8. Main Source of Electrical Power (2.2.2 (10), 2.3.1 (10))

Generator	Voltage		Capacity	Sets	Total Capacities
1.	AC	V	kVA		kVA
2.	AC	V	kVA		kVA
3.	AC	V	kVA		kVA
4.	AC	V	kVA		kVA

9. Emergency Source of Electrical Power (2.2.2 (11), 2.3.1 (11))

Generator	AC	V	kVA	sets
Battery	DC	V	AH	sets
Operating period	hours			

10. Reserve Sources of Energy (2.2.2 (12), 2.3.1 (12))

Type of battery	DC	V	AH	sets
Operating periods	hour(s)		Location	
Voltage & gravity of pilot cell (Alternative maintenance record is acceptable)				
Maintenance supplies (e.g. acid meter, tool, etc.)				
Battery Charger Make, Type & Sets				
Charging mode	<input type="checkbox"/> automatic	<input type="checkbox"/> manual	Full charge current	A

11. VHF Radio Installations (2.2.2 (1), 2.3.1 (1))

11.1 Transceiver

	Primary VHF				Duplicated VHF			
Make								
Type								
Serial No.								
Approved by								
Max. output power								
Class of emission								
Frequency bands								
Channel								
MMSI Programming	<input type="checkbox"/> Good				<input type="checkbox"/> Good			
Measurement	ch. 16	ch.70	ch. 06	ch. 13	ch. 16	ch.70	ch. 06	ch. 13
Power	W	W	W	W	W	W	W	W
Frequency error	Hz on 156.800 MHz	Hz on 156.525 MHz	Hz on 156.300 MHz	Hz on 156.650 MHz	Hz on 156.800 MHz	Hz on 156.525 MHz	Hz on 156.300 MHz	Hz on 156.650 MHz
Operation Test								
On-air contact	<input type="checkbox"/> Good				<input type="checkbox"/> Good			
Controls	<input type="checkbox"/> Good (incl. priority of bridge control units)				<input type="checkbox"/> Good (incl. priority of bridge control units)			
Position-Updating	<input type="checkbox"/> Automatic <input type="checkbox"/> Manual				<input type="checkbox"/> Automatic <input type="checkbox"/> Manual			
Source of energy	<input type="checkbox"/> Main <input type="checkbox"/> Emergency <input type="checkbox"/> Reserve				<input type="checkbox"/> Main <input type="checkbox"/> Emergency <input type="checkbox"/> Reserve			

11.2 VHF DSC controller

Combined with VHF radio installation Separated from VHF radio installation

	Primary VHF	Duplicated VHF
Make & Type		
Location		
Transmission test	<input type="checkbox"/> Good	<input type="checkbox"/> Good

11.3 VHF DSC watch receiver

Combined with VHF radio installation Separated from VHF radio installation

	Primary VHF	Duplicated VHF
Make & Type		
Location		
DSC Alarm	<input type="checkbox"/> Good	<input type="checkbox"/> Good
Reception Test	<input type="checkbox"/> Good	<input type="checkbox"/> Good

12. MF and MF/HF Radio Installations (2.2.2 (2), 2.3.1 (2))

12.1 Transceiver

	MF radio installation				MF/HF radio installation				
Make									
Type									
Serial No.									
Approved by									
Location									
Max. output power									
Class of emission, Bands or Frequency									
MMSI Programming	<input type="checkbox"/> Good				<input type="checkbox"/> Good				
Antenna Tuning	<input type="checkbox"/> Good				<input type="checkbox"/> Good				
Position-Updating	<input type="checkbox"/> Automatic <input type="checkbox"/> Manual				<input type="checkbox"/> Automatic <input type="checkbox"/> Manual				
Source of energy	<input type="checkbox"/> Main <input type="checkbox"/> Emergency <input type="checkbox"/> Reserve				<input type="checkbox"/> Main <input type="checkbox"/> Emergency <input type="checkbox"/> Reserve				
Measurement	2187.5kHz	2182kHz			2187.5kHz	2182kHz	4207.5kHz	8414.5kHz	
Type of emission									
Power	W	W	W	W	W	W	W	W	W
Frequency error	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz

12.2 MF or MF/HF DSC controller

Combined with MF or MF/HF radio installation Separated from MF or MF/HF radio installation

	MF radio installation	MF/HF radio installation
Make & Type		
Location		
Self - test	<input type="checkbox"/> Good	<input type="checkbox"/> Good
On-air test call	<input type="checkbox"/> Good (if the rules of the berth permit)	<input type="checkbox"/> Good (if the rules of the berth permit)
Controls	<input type="checkbox"/> Good (incl. priority of bridge control units)	<input type="checkbox"/> Good (incl. priority of bridge control units)

12.3 MF or MF/HF DSC watchkeeping receiver

Combined with MF or MF/HF radio installation Separated from MF or MF/HF radio installation

	MF Radio installation	MF/HF Radio installation
Make & Type		
Location		
Operating condition	<input type="checkbox"/> Good	<input type="checkbox"/> Good

12.4 MF/HF NBDP

Combined with MF/HF radio installation Separated from MF/HF radio installation

Make & Type			
Location			
Sel Call No Programming	<input type="checkbox"/> Good	<input type="checkbox"/> N/A	(if the number is independently provided)
Operating condition	<input type="checkbox"/> Good	(by recent hard copies or a test with a coast radio station)	
Self – test, if provided			

13. INMARSAT Communication Installation (2.2.2 (3), 2.3.1 (3))

13.1 Ship Earth Station

	Primary	Duplicated	Other
Standard Type	INMARSAT-	INMARSAT-	INMARSAT-
Make			
Type			
Serial No.			
Location			
PV Test, if available	<input type="checkbox"/> Good	<input type="checkbox"/> Good	<input type="checkbox"/> Good
Approved by			
Position- Updating	<input type="checkbox"/> Automatic <input type="checkbox"/> Manual	<input type="checkbox"/> Automatic <input type="checkbox"/> Manual	<input type="checkbox"/> Automatic <input type="checkbox"/> Manual
Source of energy	<input type="checkbox"/> Main <input type="checkbox"/> Emergency <input type="checkbox"/> Reserve	<input type="checkbox"/> Main <input type="checkbox"/> Emergency <input type="checkbox"/> Reserve	<input type="checkbox"/> Main <input type="checkbox"/> Emergency

13.2 EGC receiver

Combined with primary/duplicated INMARSAT-C Separated from INMARSAT-C

Make & Type	
Self – test, if provided	
Messages received/stored	

14. International NAVTEX Receiver (2.2.2 (5), 2.3.1 (5))

Make & Type	
Messages received/stored	<input type="checkbox"/> Good
Self - test	<input type="checkbox"/> Good

15. EPIRB Float Free (2.2.2 (6), 2.3.1 (6))

Kind	<input type="checkbox"/> VHF EPIRB		<input type="checkbox"/> 406MHz EPIRB		
Make		Type		Serial No.	
Date of Manufacture or Installation				Approved by	
Fitted Position					
Location to Float-Free	<input type="checkbox"/> Good	<input type="checkbox"/> NG	Lanyard	<input type="checkbox"/> Good	<input type="checkbox"/> NG
Visual Inspection	<input type="checkbox"/> Good	<input type="checkbox"/> NG	Self-test Routine	<input type="checkbox"/> Good	<input type="checkbox"/> NG
Assigned EPIRB ID					
Decoded EPIRB ID	(15-Digit Hexadecimal Code)				
406MHz emission by test mode	<input type="checkbox"/> Good	<input type="checkbox"/> NG	121.5MHz emission by test-mode	<input type="checkbox"/> Good	<input type="checkbox"/> NG
Battery Expiry Date	Expiry Date		Type		
Release Device	Expiry Date		Type	Condition	<input type="checkbox"/> Good <input type="checkbox"/> NG
406MHz emission	<input type="checkbox"/> Good	<input type="checkbox"/> NG	121.5MHz emission	<input type="checkbox"/> Good	<input type="checkbox"/> NG
Documents	<input type="checkbox"/> Yes	<input type="checkbox"/> NO	Remounting Condition	<input type="checkbox"/> Good	<input type="checkbox"/> NG
Validity of SBM	<input type="checkbox"/> Yes	Due date of Next SBM			

16. Search and Rescue Locating Device (2.2.2 (4), 2.3.1 (4))

	for Survival Craft (No.1)	for Survival Craft (No.2)	for Ship
Make			
Type	<input type="checkbox"/> SART or <input type="checkbox"/> AIS-SART	<input type="checkbox"/> SART or <input type="checkbox"/> AIS-SART	<input type="checkbox"/> SART or <input type="checkbox"/> AIS-SART
Location			
Condition	<input type="checkbox"/> Good <input type="checkbox"/> Rectified	<input type="checkbox"/> Good <input type="checkbox"/> Rectified	<input type="checkbox"/> Good <input type="checkbox"/> Rectified
Validity of battery			
Operation test			

17. Two-way VHF Radiotelephone Apparatus (2.2.2 (7), 2.3.1 (7))

	No.1	No.2	No.3
Make			
Type			
Approved by			
Channels			
Max. output power			
Measurement	ch. 16	ch. 16	ch. 16
Power (if practicable)	W	W	W
Frequency error	Hz on 156.800 MHz	Hz on 156.800 MHz	Hz on 156.800 MHz
On-air contact	<input type="checkbox"/> Good	<input type="checkbox"/> Good	<input type="checkbox"/> Good
Primary Battery	<input type="checkbox"/> Fitted <input type="checkbox"/> Not Fitted	<input type="checkbox"/> Fitted <input type="checkbox"/> Not Fitted	<input type="checkbox"/> Fitted <input type="checkbox"/> Not Fitted
Primary Battery expiry date			
Rechargeable Battery	<input type="checkbox"/> Fitted <input type="checkbox"/> Not Fitted	<input type="checkbox"/> Fitted <input type="checkbox"/> Not Fitted	<input type="checkbox"/> Fitted <input type="checkbox"/> Not Fitted
Batt. charger	<input type="checkbox"/> Fitted <input type="checkbox"/> N/A	<input type="checkbox"/> Fitted <input type="checkbox"/> N/A	<input type="checkbox"/> Fitted <input type="checkbox"/> N/A

18. Spare parts, Tool and Measuring Instrument (2.2.2 (14), 2.3.1 (13))

Standard spare parts for shore-based maintenance	<input type="checkbox"/> Fitted
Additional spare parts for at-sea electronic maintenance	<input type="checkbox"/> Fitted <input type="checkbox"/> N/A

19. Automatic Identification System (AIS) (MSC.1/Circ.1252)

Make		Type	
Ser No		Type-approved by	
Source of energy	<input type="checkbox"/> Main <input type="checkbox"/> Emergency <input type="checkbox"/> Battery		
Documents	<input type="checkbox"/> Good (Ant location, Initial configuration, interconnection diagrams)		
Pilot plug	<input type="checkbox"/> Near Pilot position		
AC plug	<input type="checkbox"/> Near Pilot position Req. of Panama & St. Lawrence		
Statistic data	<input type="checkbox"/> Good, Comment if any ()		
MMSI / IMO No. / Call Sign / Ship's Name / Ship's Type / Length and beam / Antenna location			
Dynamic data	<input type="checkbox"/> Good, Comment if any ()		
Ship's Psn / Time(UTC) / COG / SOG / Heading / Nav status / ROT* / Angle of heel*, pitch* & roll* *if available			
Voyage related data	<input type="checkbox"/> Good, Comment if any ()		
Draught / Type of Cargo / Dest & ETA / Route plan / Short safety related message			
Performance test			
Frequency measurement	<input type="checkbox"/> Good, Comment if any ()		
Output measurement	<input type="checkbox"/> Good, Comment if any ()		
Send/ Receive data integrity	<input type="checkbox"/> Good, Comment if any ()		
On air check	<input type="checkbox"/> Good (Check with other ships, shore installations or an AIS tester.)		

20. Documentation, etc. (2.1.5.1(1))

Radio Log Book	<input type="checkbox"/> Yes	Operating Manuals	<input type="checkbox"/> Yes
ITU Publications	<input type="checkbox"/> Yes	List of Ship Stations, List of Coast Stations, Manual for use by the Maritime Mobile and Maritime-Satellite Services, Alphabetical List of Call Signs and/or Numerical Table of IDs	

21. Additional Requirements for passenger ships N/A

21.1 Distress Panel for initiating a distress alert. (SOLAS IV/6.4)

Make		Type	
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21.2 Continuous and automatic supply of ship's position to all relevant radiocommunication equipment (SOLAS IV/6.5) Yes No

21.3 Distress Alarm Panel for indicating received distress alerts. (SOLAS IV/6.6)

Make		Type	
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21.4 Satellite EPIRB. (SOLAS IV/6.4)

21.4.1 Remote activation of a satellite EPIRB.

 Yes No

21.4.2 Additional Satellite EPIRB, when item 22.5.1 above is "No".

 Fitted N/A

Kind	<input type="checkbox"/> VHF EPIRB	<input type="checkbox"/> 406MHz EPIRB		
Make		Type		Serial No.
Date of Manufacture or Installation			Approved by	
Fitted Position			Lanyard	<input type="checkbox"/> Good <input type="checkbox"/> NG
Visual Inspection	<input type="checkbox"/> Good <input type="checkbox"/> NG	Self-test Routine		<input type="checkbox"/> Good <input type="checkbox"/> NG
Assigned EPIRB ID				
Decoded EPIRB ID	(15-Digit Hexadecimal Code)			
406MHz emission by test mode	<input type="checkbox"/> Good <input type="checkbox"/> NG	121.5MHz emission by test mode	<input type="checkbox"/> Good <input type="checkbox"/> NG	
Battery Expiry Date	Expiry Date		Type	
Release Device	Expiry Date		Type	Condition <input type="checkbox"/> Good <input type="checkbox"/> NG
406MHz emission	<input type="checkbox"/> Good <input type="checkbox"/> NG	121.5MHz emission		<input type="checkbox"/> Good <input type="checkbox"/> NG
Documents	<input type="checkbox"/> Yes <input type="checkbox"/> NO	Remounting Condition		<input type="checkbox"/> Good <input type="checkbox"/> NG
(Due date of next SBM)				

21.5 Two-way on-scene radiocommunications for search and rescue purposes using the aeronautical frequencies 121.5 MHz and 123.1 MHz. (SOLAS IV/7.5)

Make		Type		Approved by	
Rating output power	W		Battery expiry date		
Transmitter	121.5MHz		123.1MHz		
Output power (if practicable)	W		W		
Frequency error	Hz		Hz		

21.6 Fixed Two-way VHF Radiotelephone Apparatus for a Survival Craft. (SOLAS III/6.2.1.1)

 Fitted N/A

Make		Type		Approved by	
Channels					
Rating output power	W/max				
Measured output power	W				
Frequency error	Hz on 156.800MHz(Ch.16)				
Communication Test	<input type="checkbox"/> Good on Ch.16				
Primary Battery	<input type="checkbox"/> Fitted (Expiry date :)				<input type="checkbox"/> N/A
Secondary Battery	<input type="checkbox"/> Fitted	<input type="checkbox"/> N/A	Battery Charger	<input type="checkbox"/> Fitted	<input type="checkbox"/> N/A

21.7 Search and Rescue Locating Device for Liferrafts on Ro-Ro Passenger Ships (III/26.1.4) Fitted N/A

Make & Type	Sets	Approved by
<input type="checkbox"/> SART or <input type="checkbox"/> AIS-SART		
<input type="checkbox"/> SART or <input type="checkbox"/> AIS-SART		

22 Other Radio Equipment (2.2.2 (13))

Radar & Plotting Facility	Make Type & Ser. No.	<input type="checkbox"/> ARPA / <input type="checkbox"/> ATA / <input type="checkbox"/> EPA	Approved by	
Radar & Plotting Facility	Make Type & Ser. No.	<input type="checkbox"/> ARPA / <input type="checkbox"/> ATA / <input type="checkbox"/> EPA	Approved by	
Radar & Plotting Facility	Make Type & Ser. No.	<input type="checkbox"/> ARPA / <input type="checkbox"/> ATA / <input type="checkbox"/> EPA	Approved by	
GPS	Make Type & Ser. No.		Approved by	
GPS	Make Type & Ser. No.		Approved by	
LRIT	Make Type & Ser. No.		Approved by	
	<input type="checkbox"/> Exclusive use for LRIT Shared use with <input type="checkbox"/> GMDSS & <input type="checkbox"/> SSAS			

23. Remarks, If Any

24. Measuring Instruments used

	Type & No.		Type & No.
Freq. counter		Watt meter	
Oscilloscope		Multi-meter	
EPIRB tester		Acid meter	
AIS tester			

- END -