How to Conduct a GMDSS Inspection

The GMDSS replaces the ship-to-ship safety system that used manual Morse code with a ship-to-shore safety system that uses satellite and automated terrestrial communications systems. The GMDSS requires ships to carry various types of communications equipment depending upon the voyages of the ship rather than the gross tonnage. (See § 80.1069.) The GMDSS also requires ships to comply with certain functional requirements. (See § 80.1081.) The GMDSS rules are found in **subpart W** of Part 80 [Code of Federal Regulations, Title 47, Part 80] and are applicable to the appropriate tonnage and operational areas of U.S. Flag Passenger and Cargo vessels. Under the Communications Act, Fishing vessels are considered to be Cargo vessels and, therefore, this Inspection form is to be used for them as appropriate.

As per 47 CFR Part 80.59 (a) (1), the following table illustrates the minimum licensing requirements for Inspectors (only one license required in case of multiples):

	General radiotelephone operator license	GMDSS radio maintainer's license	Second class radiotelegraph operator's certificate	First class radiotelegraph operator's certificate
Radiotelephone equipped vessels subject to 47 CFR part 80, subpart R or S	x	x	x	x
Radiotelegraph equipped vessels subject to 47 CFR part 80, subpart Q			x	x
GMDSS equipped vessels subject to 47 CFR part 80, subpart W or subpart Q		x		

Definitions of Sea Areas:

Ships must comply with the requirements for <u>all</u> Sea Areas in which they operate.

Sea Area A1 - Basically within VHF Coast Station range

Sea Area A2 - Basically within MF Coast Station range

Sea Area A3 - Ocean areas within INMARSAT coverage - below 70 degrees N Latitude and above 70 degrees S Latitude. Most ships will operate in Sea Area A3.

Sea Area A4 - Out of INMARSAT coverage area -above 70 degrees N Latitude and below 70 degrees S Latitude. These ships <u>must</u> be equipped with a HF DSC and NBDP installation.

Exempted Vessels

Please note that this form is also to be used (in part) for vessels in compliance with Part 80.851 (Subpart R – Compulsory Radiotelephone Installations for Vessels 300 Gross Tons) quoted here:

"The radiotelephone requirements of this subpart are applicable to all compulsory ships which are not required to comply with subpart W of this part in total or in part because they have received an exemption from all or some of the subpart W provisions." The Subpart R vessels are limited in operation to 100 miles from shore – effectively classing them as Sea Area A1 and Sea Area A2 vessels without the requirement for DSC operability.

The applicable inspection points are noted with an 'X-R' to indicate their exemption or non applicability

Please note that this form is also to be used for **Fishing** vessels as noted above. In the case of those Fishing vessels which are only operating in Sea Areas 1 and 2, they are currently under exemption from the carriage of DSC equipment until the U.S. Coast Guard declares that Sea Areas 1 and 2 are operational.

Exempted items are noted with "X-F1/2" – all other Subpart W items are required by these vessels.

Note: Contact the FCC at 1.202.418.7450 if there is any discrepancy between the ship's exemption and its area of operation.

Ship's Particulars (all vessels)

Vessel	_			
Date of survey	Survey location			
Port of registry	Gross Tonnage			
Cargo or Passenger Vessel	Number of passengers			
Call Sign				
IMO Number	USCG Number			
Telex ID Number (NBDP)	INMARSAT Number(s)			
Additional ID numbers				
Sea area(s) in which vessel is certified to operate: A1	A2 A3 A4 D			
Subpart R vessel (Y or N): Exempt I	Fishing Vessel (Y/N):			
Surveying Test Equipment (applicable all vessels):				
The following test instruments used:		<u>YES</u>	<u>NO</u>	<u>N/A</u>
Frequency counter Watt meter with plug in elements covering MF, Ampere/Volt/Ohm meter. Instrument for decoding the ID-signal of satellite Acid tester (specific gravity). Insulation resistance tester. GMDSS Test Set				

Ship sources of energy (applicable to all vessels)

Spectrum analyzer.

Oscilloscope.

Deviation meter.

a) Reserve power must meet either six (6) hour or one (1) hour requirement.

Six hours for ships constructed before February 1, 1995, or ships that do not meet the emergency power requirements of SOLAS, Chapter II-1, Regulation 42 or 43.

One hour for ships constructed after February 1, 1995, or older ships that voluntarily comply with SOLAS, Chapter II-1, Regulation 42 or 43. (80.1099(b)(2) (X-R)

- b) Verify that a continuous supply of electrical power, within equipment tolerances, is provided to all GMDSS equipment that could be affected by normal variations and interruptions of ship's power. (80.1099(i).
- c) When the reserve source of energy consists of batteries, equipment must be provided for automatically recharging them to minimum required capacity in not more than 10 hours. (80.1101(f)(1))
- d) When the reserve source of energy consists of batteries, the battery capacity must be checked at intervals not exceeding 12 months. If not completed within past 12 months, this must be done during inspection. (80.1101(f)(2))
- e) Storage batteries provided as a reserve source of energy must be installed in accordance with applicable electrical codes and good engineering practice. They must be protected from adverse weather and physical damage. They must be readily accessible for maintenance and replacement. (80.1101(g))

The fo	llowing items were checked and tested as necessary and found satisfactory:	<u>YES</u>	<u>NO</u>	<u>N/A</u>
1.	Checked main source of energy available in accordance with requirements.			
2.	Emergency generator fitted and functional as per Master.			
3.	If reserve source of energy is a battery, specify make and model:		_	
	If reserve source is a generator, specify make and model:		-	
	1) Checked the integrity of the installation. Specify location:			
	2) Checked for defects including all cables.			
	3) Checked there is sufficient capacity to operate the basic and/or duplicated equipment for six (6) hours or one (1) hour (X-R) as appropriate. Specify 1 (X-R) or 6 hours :			
4.	Checked the reserve battery condition by specific gravity measurement or voltage measurement: Specify voltage: or specific gravity:			
5.	With battery off charge, and the maximum required radio installation load connected to the reserve source of energy, check the battery voltage after testing and the discharge current. Specify maximum discharge current: voltage			
6.	Checked that the charger(s) are capable of recharging the reserve battery to the minimum capacity needed within 10 hours			
7.	Checked that battery charger is of an automatic type.			
8.	The capacity of battery(s) has been checked at intervals not exceeding 12 months.			
	Minimum capacity is calculated as: ($\frac{1}{2}$ transmitter currents + all receiver currents + emergency light + bridge to bridge VHF + GNSS receiver + all other devices) times the number of hours necessary to power the station (1 or 6 hours).			
<u>Radio</u>	Installations (applicable to all vessels)			
1.	Checked for FCC Certification and/or GMDSS compliance labels (80.1103).			
2.	Equipment installed fulfills the functional requirements for the vessel's areas of operation.			
3.	Permanently installed lighting sufficient to illuminate the operating controls of the radio installation and powered from a source independent of the ship's main and emergency power sources must be provided. (80.1083(b)(4))			
4.	Radiotelephone Station Clock is mounted near the operating position (R vessels only)			
5.	Spare assembled antenna for MF/HF equipment is onboard (R vessels only)			
6.	Radio installation is clearly marked with call sign, ship station identity, and other applicable codes (80.1083 (b)(5))			
7.	Must be able to initiate distress alert from position from which the vessel is normally navigated			
8.	Radio equipment is located at:			

		<u>YES</u>	<u>NO</u>	<u>N/A</u>
9.	Remote control from conning position provided (as applicable)			
10.	Was a visual inspection made of all MF/HF, VHF, INMARSAT, GPS antennas and coaxial feeders for satisfactory placement (including consideration of any possible interference)?			
11.	Checked that the MF/HF transmitting antennas are protected against being touched accidentally.			

Ship radio equipment and requirements for ALL GMDSS ships (§ 80.1085) (Exceptions to be noted)

1. VHF installation. (§ 80.1085(a)(1)&(2))

a) Required to have DSC channel 70 and must be able to initiate transmission of distress alerts from the position from which the ship is navigated. (X-F1/2 and X-R vessels)

b) Required to have channels for radiotelephony (transmit and receive): 6, 13, 16

c) Must have a separate, dedicated, non-scanning receiver capable of monitoring DSC on VHF channel 70 (will accept either a separate radio installation or a separate receiver combined with the VHF radio. In either event, the ship must have continuous monitoring capability for DSC on channel 70.) **(X-F1/2 and X-R vessels)**

- d) The transmitter power output must be between 6 and 25 watts. (§ 80.1101(c)(2).
- e) The equipment must have a frequency tolerance of 10 Hz per MHz (§ 80.209(a)(5)(ii).
- f) FCC Certified for GMDSS (must have a label so stating). (§ 80.1103(e)) (X-F1/2 and X-R vessels)

YES	NO	N/A

SART--Search And Rescue Transponder. (§ 80.1085(a)(3)) (all vessels)

- a) One (1) required for ships of between 300 and 500 gross tons Two (2) required for ships 500 gross tons or greater. (§ 80.1101)
- b) FCC Certified for GMDSS (must have a label so stating). (§ 80.1103(e))
- c) Self test capability required

SART Checklist

	Make / Model	Frequency band
1		
2		

1. Checked for satisfactory functional test using on board 9 GHz radar, if possible.		
2. Checked for satisfactory stowage		
3. Checked for operating instructions		
 Checked for sufficient battery capacity for stand-by condition and to provide transmissions. 		

YES NO N/A

- 5. Checked for clear markings with ship's call sign.
- 6. Battery expiration date:

#1 Expiration Date (mo/yr):_____

#2 Expiration Date (mo/yr):

GMDSS VHF-FM Handheld Radios (§ 80.1095(a)(c)) (all vessels)

- a) Two (2) required for ships of between 300 and 500 gross tons Three (3) required for ships 500 gross tons or greater. (§ 80.1101)
- b) FCC Certified for GMDSS (must have a label so stating). (§ 80.1103(e))
- c) Battery expiration date to be marked on equipment
- d) Must have Channel 16 plus one other (at minimum)

e) Must be an additional battery to be used for testing purposes (cannot be one of the compulsory batteries).

VHF Handheld Checklist

	Make / Model	Channels
1		
2		
3		

	<u>YES</u>	<u>NO</u>	<u>N/A</u>
1. Checked for satisfactory functional test			
2. Checked for satisfactory stowage/availability			
3. Checked for operating instructions			
4. Checked that the primary battery seals have not been broken			
5. Checked for clear markings with ship's call sign.			
6. Battery expiration dates:			

#1 Expiration Date (mo/yr):

#2 Expiration Date (mo/yr):

#3 Expiration Date (mo/yr):

Maritime Safety Information receiver(s) (§ 80.1085(a)(5) (all vessels)

- a) For Navtex, it must be a dedicated receiver
- b) FCC Certified for GMDSS (must have a label so stating). (§ 80.1103(e))
- c) Vessel must be capable of receiving MSI information in all areas in which the ship operates

Navtex Checklist

Make and Model:			
	<u>YES</u>	<u>NO</u>	<u>N/A</u>
 Checked for correct operation by monitoring incoming messages or inspecting recent hard copy. 			
 Performed test run of the self-test program, if provided. NOTE: This requirement(s) below only apply to ships operated in areas where NAVTEX service is not available (typically A3 and A4 Ocean Areas). (80.1087(a)(5)) 			
EGC Receiver Checklist (X-R)			
Make and Model:			
	<u>YES</u>	<u>NO</u>	<u>N/A</u>
 Checked for correct operation by monitoring incoming messages or inspecting recent hard copy. 			
2. Performed test run of the self-test program, if provided.			
HF MSI Receiver Checklist (if applicable) (X-F1/2 and X-R)			
Make and Model:			
1. Checked for correct operation by monitoring incoming messages or inspecting recent hard copy.			
2. Performed test run of the self-test program, if provided.			
<u>Category 1, 406 MHz EPIRB. (§ 80.1085(a)(6))</u> (all vessels)			
a) The installation must be such that the EPIRB will not be caught up in any rigging or str capsize. The unit must be capable of automatic release when submerged and automatic in water. Additionally, the unit must also be capable of manual release and manual activa	activatio		
b) The battery date must not be expired.			
c) The EPIRB(s) must be registered with NOAA			
d) FCC certified for GMDSS (must have a label so stating). (§ 80.1103(e))			
e) Must have a self test capability.			
	<u>YES</u>	<u>NO</u>	<u>N/A</u>
406 MHZ EPIRB Checklist			

#1 EPIRB	Make and Model:	_
#2 EPIRB(if fitted)	Make and Model:	_

1. Checked position and mounting for float free operation. Verified that EPIRB	
is installed in an easily accessible position and is ready to be manually released	
and capable of being carried by one person into a survival craft.	

EPIRB Location(s):	_	
2. Verified that the lanyard is firmly attached, in good condition, neatly stowed, and not tied to the vessel or the mounting bracket.		
3. Carried out visual inspection for defects.		
4. Carried out the self-test routine.		
5. Checked that the EPIRB ID and other information (include call sign and MMSI of the ship) is clearly marked on the outside of the equipment.		
Decoded the EPIRB identity number and other information confirming it is correct and the same as that marked on the EPIRB.		
15 Digit Hexadecimal Number:		
7. Checked the registration through documentation (sticker) or directly with NOAA		
8. Checked battery expiry date(s):		
9. Checked hydrostatic release(s) expiration dates(s):		
10. Checked the emission in the 406 MHz band using the self-test mode or an appropriate device to avoid transmission of a distress call to satellites.		
11. If possible, checked emission on the 121.5 MHz frequency using the self-test mode or an appropriate device to avoid activating the satellite system.		
12. Checked that no transmission has been started after the test and remounting of the EPIRB in its bracket.		
13. Checked for the presence of beacon operating instructions.		
<u>Spare Parts</u> (all vessels)		
a) Tools, spares, and test equipment as deemed necessary.		
 b) Instruction and maintenance manuals, recommended spare parts, tools; and test equipment for all required equipment should be provided. (§ 80.1105(f)) 		
1. Checked test equipment, manuals and spares carried is adequate in accordance with the sea areas in which the ship trades and the declared options for maintaining availability of the functional requirements.		
Publications and documents (all vessels)		
a) Valid station license and posted (80.405)		
b) Operator license(s) (80.407(b) (X-R vessels)		
 (1) Two (2) operators (GMDSS Radio Operator (13.2)) are required, one mus designated as the primary operator in times of distress. (§ 80.1073(a)) (2) One (1) member of crew with GMDSS Radio Maintainer License if on-boa maintenance option is elected. (§80.1074) 		

Operator license(s) (80.159 (c)) (MP or General License) (Subpart R Vessels only)

Number of radio operators				
Operators name	License number			
Operators name	License number			
Operators name	License number			
		<u>YES</u>	<u>NO</u>	<u>N/A</u>
c) Station log (80.409 (a), (b) (e) and (f)) with correct entri	es			
d) Publications (X-R vessels)				
FCC Rules & Regulations Part 80 (§ 80.401). IMO publication: Master Plan of Shore Based Facilities (§ Alphabetical List of Maritime Mobile Call Signs (§ 80.401) List of Ship Stations (§ 80.401) Manual for Use by Maritime Mobile Service and Satellite S List of Coast Stations (§ 80.401) List of Radiodetermination and Special Services Stations	Service (§ 80.401)			

Maintenance (X-R vessels)

a) Ships must select a method of maintenance that depends on the area of operation. (§ 80.1105) Ships operated in Sea Areas A1 or A2 must select at least <u>one</u> of the methods of maintenance. Ships operated in Sea Areas A3 and A4 must select at least <u>two</u> of the methods of maintenance.
b) Methods

At-sea maintenance -- requires at least one member of the crew holding a GMDSS Maintainer License and all necessary spares parts, technical manuals, and test equipment be aboard.

Shore based maintenance -- requires ship to have shore based maintenance available.

Duplication of equipment -- means that the following equipment, in addition to all other basic requirements, must be carried:

<u>Sea Area A1</u> - a complete VHF DSC installation (including antenna). (<u>X-F1/2 for DSC function</u>) <u>Sea Area A2</u> - a complete VHF DSC installation and a complete MF DSC installation (including antennas). (X-F1/2 for DSC function)

- <u>Sea Area A3</u> a complete VHF DSC installation and either a complete MF/HF DSC/NBDP installation (including antenna) or a complete INMARSAT ship earth station, but not a separate power source.
- <u>Sea Area A4</u> -- a complete VHF DSC installation and a complete MF/HF DSC/NBDP installation (including separate antenna but not a separate power source).
- NOTE: The duplicated equipment must be immediately available for use this means that while the equipment does not have to be in standby, it must be installed and ready to be operated without any assembly.

	<u>YES</u>	<u>NO</u>	<u>N/A</u>
1. Method of availability of functional requirements.			
Duplication of equipment			
Shore-based maintenance (copy of contract verified on board)			
At-sea maintenance			

Requirements for Vessels operating in Sea Area A1 (§ 80.1087)

Ships that operate only in Sea Area A1 must meet the above requirements for all ships and the following:

a) Be capable of secondarily transmitting a distress message by using either: (§ 80.1087(a)):

A VHF installation <u>or</u>, A MF installation <u>or</u>, A HF installation <u>or</u>, A INMARSAT installation <u>or</u>, By using the Category I, 406 MHz EPIRB (this requirement may be met by either mounting the EPIRB required for all ships near the conning position or by having remote activation capability).

b) The VHF installation required for all ships must be capable of operating on all marine VHF channels. (§ 80.1087(b))

Requirements for Vessels operating in Sea Areas A1 and A2 (§ 80.1089)

Ships that operate in Sea Areas A1 and A2 must meet the above requirements for all ships, Sea Area A1 ships **and** the following:

a) An MF installation with DSC capability and

1) 2187.5 kHz for DSC alerting

2) 2182 kHz for radiotelephony distress and safety communications

3) capable of <u>continuously</u> monitoring 2187.5 kHz DSC (This may be combined with the above installation, but must provided by a separate DSC receiver).

b) A means to secondarily initiate a distress alert by either:

A category I, 406 MHz EPIRB (This requirement may be met by installing the 406 MHz EPIRB close to the conning position or by having remote activation capability); <u>or</u>,

A separate HF installation with DSC capability; or,

A separate INMARSAT installation.

c) A radio installation capable of transmitting and receiving general radio communications using radiotelephony or direct-printing telegraphy by <u>either</u>:

A MF or HF installation with the capability to operate on working frequencies in the bands 1605-4000 kHz or 4000-27500 kHz (This capability may be added to the MF installation.); <u>or</u>, An INMARSAT ship earth station.

Requirements for Vessels operating in Sea Areas A1, A2 and A3 (§ 80.1091)

Ships that operate in Sea Areas A1, A2 and A3 must meet the requirements for all ships, Sea Area A1 and A2 ships <u>and either</u> paragraph a) <u>or</u> b):

a) Satellite:

An INMARSAT ship earth station capable of

Transmitting and receiving distress and safety communications by means of direct printing telegraphy, Transmitting and receiving distress priority calls,

Maintaining watches for shore-to-ship distress alerts including those directed to specifically defined geographical areas,

Transmitting and receiving general radio communications using either radiotelephony or direct-printing telegraphy.

a1) A MF radio installation including

2187.5 kHz transmit and receive using DSC

2182 kHz using radiotelephony and

Continuous monitoring capability of 2187.5 kHz DSC (may be combined with MF installation, but must have separate receiver).

a2) Means to secondarily initiate a distress alert by either:

A category I, 406 MHz EPIRB (This requirement may be met by installing the 406 MHz EPIRB close to the conning position or by having remote activation capability); <u>or</u>, A separate HF installation with DSC capability; <u>or</u>, A separate INMARSAT installation

b) MF/HF RT-DSC-NBDP:

A MF/HF radio installation capable of:

Transmitting and receiving on all distress frequencies in the band 1605-27500 kHz using DSC, radiotelephony, and narrow-band direct printing telegraphy. Selecting any of the DSC distress and safety frequencies at any time, Maintaining a DSC watch on 2187.5 kHz, 8414.5 kHz and on at least one of the DSC frequencies 4207.5 kHz, 6312 kHz, 12577 kHz, or 16804.5 Hz. (The watch-maintaining receiver may be separate from or combined with the MF/HF installation.)

b1) Means to secondarily initiate a distress alert by either:

The category I, 406 MHz EPIRB required for all ships. (This requirement may be met by installing the 406 MHz EPIRB close to the conning position or by having remote activation capability); <u>or</u>, A separate INMARSAT installation.

Capability to transmit and receive general radio communications using radiotelephony and direct printing telegraphy in the bands 1605-4000 kHz and 4000-27500 kHz. (This requirement may be fulfilled by adding this capability to the MF/HF installation).

Requirements for Vessels operating in Sea Areas A1, A2, A3 and A4 (§ 80.1093)

Ships that operate in Sea Areas A1, A2, A3 and A4 must meet the requirements for all ships and those for Sea Areas A1, A2 and A3 listed above except that the satellite option available in the A3 area is not available in the A4 area and the automated terrestrial option listed above (para. b) for the A3 area which is repeated here becomes mandatory:

a) An MF/HF radio installation capable of:

Transmitting and receiving on all distress frequencies in the band 1605-27500 kHz using DSC, radiotelephony, and narrow-band direct printing telegraphy,

Selecting any of the DSC distress and safety frequencies at any time,

Maintaining a DSC watch on 2187.5 kHz, 8414.5 kHz and on at least one of the DSC frequencies 4207.5 kHz, 6312 kHz, 12577 kHz, or 16804.5 Hz. (The watch-maintaining receiver may be separate from or combined with the MF/HF installation.)

A means for secondarily initiating a distress alert by both:

The category I, 406 MHz EPIRB required for all ships. (This requirement may be met by installing the 406 MHz EPIRB close to the conning position or by having remote activation capability.) and

The MF/HF installation using DSC on any of the above DSC distress alerting frequencies. It must be possible to initiate the distress alert by this means from the position from which the ship is normally navigated.

Capability for transmitting and receiving general radio communications using radiotelephony and direct printing telegraphy in the bands 1605-4000 kHz and 4000-27500 kHz. This requirement may be fulfilled by adding this capability to the MF/HF installation.

Sea Area Equipment Checklists

YES NO N/A

VHF transceivers (all vessels)

Make / Medel	BASIC	DUPLICATED (X-F	R)
Make / Model			
1. Checked for o	operation on all marine channels.		
2. Checked that	equipment is within frequency tolerance.		
3. Checked RF	power output and VSWR on channels 6, 13, and 1	6. 🗆	
4. Checked corr control units (if p	rect operation of all controls including priority of provided).		
5. Checked that and reserve sou	the equipment operates from the main, emergency inces of energy.	y (if provided) □	
	ration of the VHF control unit(s) or portable VHF ea vigational safety from bridge wings.	quipment	
7. Checked for o	correct operation by on-air contact with a coast stat	tion or other ship.	

VHF DSC controller and Channel 70 DSC watch receiver (X-F1/2 and X-R vessels)

	BASIC	DUPL	ICATED	
Make / Model				
	off-air check confirming the correct Maritime Mobi n the equipment.	le Service Identity		
	orrect transmission by means of a routine or test on ther ship, on-board duplicate equipment or special t			
	orrect reception by means of a routine or test call p, on board duplicate equipment, or special test equipment			
4. Checked the a	audibility of the VHF/DSC alarm.			
5. Checked that and reserve sou	the equipment operates from the main, emergency rces of energy.	y (if provided)		
	the ship's position in the distress alert is automatic s information from an internal or external navigatic	5		
receiver (e.g. GF	PS)			
7. Checked DSC	alerting available from conning position			
8. Checked that displayed near the time of the second seco	DSC distress procedure and the MMSI number and the unit.	e clearly		

MF or MF/HF radiotelephone equipment

(Subpart W vessels as applicable and R vessels beyond 20 miles as an alternative to Inmarsat)

	BASIC	DUPLICATED (X	-R vessel	s)		
Make / Model						
1. Checked that the equipment operates from the main, emergency (if provided), and reserve sources of energy.						
2. Checked ante	enna tuning in all appropriate bands.	C				
3. Checked that equipment is within frequency tolerance on all appropriate bands (10 Hz).						
4. Checked for correct operation by measuring RF power output and VSWR and/or by contact with a coast station. [<i>MF</i> >60 watts or <i>MF/HF</i> > 120 watts] □ □						
5. Checked rece appropriate bane	iver performance by monitoring known stations on ds.	all				
	the control unit on the bridge has first priority for the alerts, if control units are provided outside the nat					
	the vessel is able to watch 2182 khz and transmit oped. (Fishing Sea Area A2 and Subpart R vessels o		ם נ			

MF/HF radio telex equipment (Subpart W vessels as applicable but X-F1/2 and X-R vessels)

	BASIC	DUPLICATED
Make / Model		
<u>.</u>		

1. Checked that the equipment operates from the main, emergency (if provided), and reserve sources of energy.		
2. Confirmed that the correct selective calling number is programmed in the equipment.		
3. Checked correct operation by inspection of recent hard copy or by a test with a coast radio station.		

MF/HF DSC controller(s) (Subpart W vessels as applicable but X-F1/2 and X-R vessels)

	BASIC	DUPL	ICATED)	
Make / Model					
1. Checked that reserve sources	equipment operates from the main, emergency (if of energy.	provided), and			
2. Confirmed that equipment.	at the correct Maritime Mobile Service Identity is pr	ogrammed in the			
3. Checked the	off air self test program (if provided)				
station if the rule	ration by means of a test call on MF and/or HF to a es of the berth permit the use of MF/HF transmissio audibility of the MF/HF DSC alarm.				

	<u>YES</u>	<u>NO</u>	<u>N/A</u>
Checked that the ship's position in the distress alert is automatically provided with this information from an internal or external navigation receiver (e.g. GPS)			
7. Checked DSC alerting is available from the conning position.			
MF/HF DSC watch receiver (Subpart W vessels as applicable but X-F1/2 and X-R vessels)			
Make / Model			
1. Confirmed that only DSC channels indicated in Regulations IV/9, 10, 11, and 12 are being monitored.			
2. Checked that a continuous watch is being maintained while keying MF/HF radio transmitters.			
3. Checked for correct operation by means of a test call from a coast station or other ship.			
INMARSAT Ship Earth Station(s) (Subpart W vessels as applicable and R vessels beyond 20 miles as an alternati	ve to Inmars	sat)	
(NR 1) B C F77 (NR 2) B C F77 F	7		
Make and Model			
1. Checked that equipment operates from the main, emergency (if provided), and reserve sources of energy			
2. Where an uninterrupted supply of information from the ship's navigational or other equipment is required, ensure that such information remains available in the event of failure of the ship's main or emergency source of electrical power.			
3. Checked the distress function by means of an approved test procedure where possible.			
4. Checked for correct operation by inspection of recent hard copy of test call by telex or telephone.			
5. Checked distress function only if permitted to carry out test by the coast earth station.			
Secondary Distress Alerting (Subpart W vessels only)			
1. Identify the method of secondary means of alerting:			
Global Navigation Satellite System Receiver (80.1083 (f) and 80.1085 (c)) (Subpart W vessels on	ly but X-F1/2	! vessel:	s)
Make / Model			
1. Information on the ship's position is continuously and automatically provided to all relevant GMDSS equipment.			
2. The navigation receiver is supplied from a source of energy ensuring continuous supply of the ship's position information in the event of failure of the ship's main or emergency source of energy.			

	<u>YES</u>	<u>NO</u>	<u>N/A</u>
Passenger Ship Requirements (Additional as per 80.1083 (e) (g)) (Subpart W vessels)			
1. The reception notification of distress alerts by which means and the transmission of distress alerts by the required means are part of a control panel located at the conning position of the vessel.			
Make / Model			
Passenger Ship Requirements (Additional as per 80.1085 (d)) (Subpart W vessels)			
1. The vessel has the proper radio equipment to communicate with aircraft on the frequencies 121.5 and 123.1 mhz			
Make / Model			
U.S. Coast Guard Advisement of Passenger Vessel Radio Inspection (As per 80.59 (a) (3) (Subpart	W vesse	ls)	
1. FCC Form 806 completed and submitted to the USCG			
<u>Bridge to Bridge Requirements (As per 80.1001)</u> (all vessels)			
1. The installation is functional and capable of operating on Channel 16, Channel 13, and Channel 22A at minimum.			
Make / Model			

Radio Technician's Remarks:	
is suggested that one copy of this report be	Master's Signature and Ship's Stamp
eft onboard and one copy be kept with the Surveyor	,
	Radio Surveyor's Signature
	, , , , , , , , , , , , , , , , , , ,
	Radio Surveyor's Printed Name and License Number
	Surveyor's Company, City, State
	Date
	NOTE: Logbook Entry to be made by Surveyor along with Master's comments (§ 80.59 (2))