

## 附表四-I

中華民國國家通訊傳播委員會

船舶安全無線電設備審驗表

(GMDSS 設備)

NATIONAL COMMUNICATIONS COMMISSION

REPUBLIC OF CHINA

Check List for the Report of Ship Radio Installations

(GMDSS)

<input type="checkbox"/> 初次審驗	<input type="checkbox"/> 換證審驗	<input type="checkbox"/> 年度審驗	<input type="checkbox"/> 額外審驗
Report No	Date issued	Issued at	
Name of ship	IMO No	Call Sign	MMSI
Ship number	Port of Registry	Keel Laid	Gross Tonnage
Ship Owner and Address			
Place of Survery <input type="checkbox"/> In drydock <input type="checkbox"/> On slipway <input type="checkbox"/> Afloat	Survery commenced Mm/dd/year	Survery completed Mm/dd/year	

Conclusion

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Suveryor \_\_\_\_\_

Note: Fill out the blanks and check with "X" as appropriate in

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# Check list for the survey of Ship Radio Installations

## 1. Basic Data

- 1.1 Ship navigating sea areas (Reg. IV/2, 8, 9, 10, 11)  
☐A1    ☐A1+A2    ☐A1+A2+A3    ☐A1+A2+A3+A4
- 1.2 Methods of ensuring availability of Equipment (Reg. IV/15)  
☐Duplication of equipment    ☐shore based maintenance    ☐At-sea electronic maintenance capacity
- 1.3 Actual Provision of ship's radio equipment
- |                    | VHF                      | MF                       | MF/HF                    | INMARSAT                 | <input type="checkbox"/> B/ <input type="checkbox"/> C/ <input type="checkbox"/> F77 |
|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| 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"/> | <input type="checkbox"/> |  |

## 2. General

InS/PS/RS\*

- 2.1 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.....[    ]
- 2.2 Radio records kept in the period since the last survey to the satisfaction of the Administration and as required by the Radio Regulations (Reg. IV/17).....[    ]
- 2.3 Checking documentary evidence that the actual capacity of the battery has been proved in port within the last 12 months (Reg. IV/13).....[    ]
- 2.4 Confirming that all Radio equipment complies with appropriate performance standards not inferior to those adopted by IMO (Reg. IV/14).....[    ]

## 3. Examination of radio installations

- 3.1 Examining the position, physical and electromagnetic protection and illumination of each radio installation (Reg. IV/6).....[    ]
- 3.2 Confirming the provision of equipment for the radio installation with due regard to the declared sea areas in which the ship will trade and the declared means of maintaining availability of functional requirements (Reg. III/6, IV/7 to 11, 14 and 15).....[    ]
- 3.3 Confirming the ability to initiate the transmission of ship-to-shore distress alerts by at least two separate and independent means, each using a different radiocommunication service, from the position from which the ship is normally navigated (Reg. IV/4, 7 to 11).....[    ]
- 3.3.1 Secondary means of alerting  
☐VHF(DSC)    ☐INMARSAT-B/-F77    ☐INMARSAT-C    ☐MF(DSC)    ☐HF(DSC)    ☐VHF EPIRB  
☐406MHz EPIRB (close to, or by remote activation from bridge)
- 3.4 Checking that the following ship's radio equipment operates from the main, emergency (if provided) and reserve sources of energy (Reg. IV/13).....[    ]
- |                    | VHF                      | MF                       | MF/HF                    | INMARSAT                 | <input type="checkbox"/> B/ <input type="checkbox"/> C/ <input type="checkbox"/> F77 |
|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| 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"/> |  |
- 3.5 Antennas
- 3.5.1 Visually checking all antennas, including INMARSAT antennas, and feeders for satisfactory sitting and absence of defects (Reg. IV/14).....[    ]
- 3.5.2 Checking insulation and safety of all antennas.....[    ]
- 3.6 Reserve source of energy
- 3.6.1 Checking there is sufficient capacity to operate the basic or duplicated equipment for 1 hour(with emergency sources) or 6 hours(without emergency sources), as appropriate (Reg. IV/13).....[    ]
- 3.6.2 And, if the reserve source of energy is a battery:
- 3.6.2.1 Checking its sitting and installation(Reg. IV/13).....[    ]
- 3.6.2.2 Where appropriate, checking its condition by ☐specific gravity measurement or ☐voltage  
measurement — specific gravity = \_\_\_\_\_ or voltage = \_\_\_\_\_volts.....[    ]
- 3.6.2.3 With the battery off charge, and the maximum required radio installation load connected to the reserve source of energy, checking the battery voltage and discharge current.....[    ]
- 3.6.2.4 Checking that the charger(s) are capable of recharging the reserve battery within 10 hours (Reg. IV/13).....[    ]

## Check list for the survey of Ship Radio Installations

Survey condition code as follows:

- |                    |  |
|--------------------|--|
| 0 : Not applicable | 2 : Satisfactory after treatment, see further reports in head page/ Memoranda                |
| 1 : Satisfactory   | 3 : Outstanding recommendation/ Surveyor's note, see further reports in head page/ Memoranda |

Note: Entries in boxes ☐ shall be made by inserting a cross (x) as appropriate.

- 3.7 VHF transceiver(s), ☐ Primary ☐ Duplicated
- 3.7.1 Checking for operation on channels 6,13 and 16 (Reg. IV/7 and 14).....[ ]
- 3.7.2 Checking for correct operation of all controls, including priority of control units (Reg. IV/14).....[ ]
- 3.7.3 Checking the operation of the VHF control unit(s) or portable VHF transceiver provided for navigational safety from the wing of bridge (Reg. IV/6).....[ ]
- 3.7.4 Checking for correct operation by on-air contact with ☐ a coast station or ☐ other ship.....[ ]
- 3.8 VHF DSC, ☐ Primary ☐ Duplicated
- 3.8.1 Confirming that the correct selective calling number is programmed in the equipment.....[ ]
- 3.8.2 Checking the off-air self-test programme.....[ ]
- 3.8.3 Checking for correct transmission by means of ☐ a routine or ☐ test call to ☐ a coast station, ☐ other ship, ☐ on-board duplicate equipment or ☐ special test equipment.....[ ]
- 3.9 CH70 DSC watch receiver, ☐ Primary ☐ Duplicated
- 3.9.1 Checking for correct reception by means of a ☐ routine or ☐ test call from ☐ coast station, ☐ other ship, ☐ on-board duplicate equipment or ☐ special test equipment.....[ ]
- 3.9.2 Checking that a continuous watch is being maintained whilst operating VHF transceiver.....[ ]
- 3.9.3 Checking the audibility of the VHF/DSC alarm.....[ ]
- 3.10 MF radiotelephone equipment (Primary)
- 3.10.1 Checking the antenna tuning in all appropriate bands.....[ ]
- 3.10.2 Checking for correct operation by contact with ☐ a coast station and / or ☐ measuring transmission line quality and ☐ radio frequency output.....[ ]
- 3.10.3 Checking receiver performance by monitoring known stations on all appropriate bands.....[ ]
- 3.10.4 If control units are provided outside the navigating bridge, checking the control unit on the bridge has first priority for the purpose of initiating distress alerts (Reg. IV/9, 10, and 14).....[ ]
- 3.11 MF DSC controller(s) (Primary)
- 3.11.1 Confirming that the correct Maritime Mobile Service Identity is programmed in the equipment.....[ ]
- 3.11.2 Checking the off-air self-test programme.....[ ]
- 3.11.3 Checking operation by means of a test call on MF to a coast radio station if the rules of the berth permit the use of MF transmissions (Reg. IV/9, 10 ).....[ ]
- 3.12 MF DSC watch receiver(s) (Primary)
- 3.12.1 Checking that a continuous watch is being maintained whilst operating MF radio transceivers (Reg. IV/12).....[ ]
- 3.12.2 Checking for correct operation by means of a test call from ☐ a coast station or ☐ other ship.....[ ]
- 3.12.3 Checking the audibility of the MF DSC alarm.....[ ]
- 3.13 MF/HF radiotelephone equipment, ☐ Primary ☐ Duplicated
- 3.13.1 Checking the antenna tuning in all appropriate bands.....[ ]
- 3.13.2 Checking for correct operation by contact with ☐ a coast station and / or ☐ measuring transmission line quality and ☐ radio frequency output.....[ ]
- 3.13.3 Checking receiver performance by monitoring known stations on all appropriate bands.....[ ]

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- 3.13.4 If control units are provided outside the navigating bridge, checking the control unit on the bridge has first priority for the purpose of initiating distress alerts (Reg. IV/9, 10, and 14).....[ ]
- 3.14 MF/HF radiotelex equipment, ☐Primary ☐Duplicated
- 3.14.1 Confirming that the correct selective calling number is programmed in the equipment.....[ ]
- 3.14.2 Checking correct operation ☐by inspection of recent hard copy or ☐by a test with a coast radio Station (Reg. IV/10 and 11).....[ ]
- 3.15 MF/HF DSC controller(s), ☐Primary ☐Duplicated
- 3.15.1 Confirming that the correct Maritime Mobile Service Identity is programmed in the equipment.....[ ]
- 3.15.2 Checking the off-air self-test programme.....[ ]
- 3.15.3 Checking operation by means of a test call on MF and HF to a coast radio station if the rules of the berth permit the use of MF/HF transmissions (Reg. IV/9, 10 ).....[ ]
- 3.16 MF/HF DSC watch receiver(s), ☐Primary ☐Duplicated
- 3.16.1 Checking that a continuous watch is being maintained whilst operating MF/HF radio transceivers (Reg. IV/12).....[ ]
- 3.16.2 Checking for correct operation by means of a test call from ☐a coast station or ☐other ship.....[ ]
- 3.16.3 Checking the audibility of the MF/HF DSC alarm.....[ ]
- 3.17 INMARSAT - ☐B, ☐C or ☐F77 ship earth station(s), ☐Primary ☐Duplicated
- 3.17.1 Checking that the correct INMARSAT Identity is programmed in the equipment.....[ ]
- 3.17.2 Checking that the equipment operates from the main, emergency (if provided) and reserve sources of energy, and that where an uninterrupted supply of information from the ship's navigational or other equipment is required ensuring such information remains available in the event of failure of the ship's main or emergency source of electrical power (Reg. IV/13 and 14).....[ ]
- 3.17.3 Checking the distress function by means of an approved test procedure where possible (Reg. IV/10, 12 and 14).....[ ]
- 3.17.4 Checking for correct operation by ☐inspection of recent hard copy or ☐by test call.....[ ]
- 3.18 NAVTEX equipment (Reg. IV/7, 12 and 14)
- 3.18.1 Checking for correct operation by ☐monitoring incoming messages or ☐inspecting recent hard copy.....[ ]
- 3.18.2 Running the self-test programme if provided.....[ ]
- 3.19 Enhanced group call equipment, if provided (Reg. IV/7 and 14)
- 3.19.1 Checking for correct operation and area by monitoring incoming messages or by inspecting recent hard copy.....[ ]
- 3.19.2 Running the self-test programme if provided.....[ ]
- 3.20 Radio equipment for receipt of maritime safety information by HF NBDP; if provided (Reg. IV/7, 12 and 14)
- 3.20.1 Checking for correct operation by ☐monitoring incoming messages or ☐inspecting recent hard copy...[ ]
- 3.20.2 Running the self-test programme if provided.....[ ]
- 3.21 EPIRB, ☐406MHz ☐1.6GHz ☐CH 70 EPIRB (Reg. IV/7 and 14)
- 3.21.1 Checking position and mounting for float-free operation.....[ ]
- 3.21.2 Carrying out visual inspection for defects.....[ ]
- 3.21.3 Carrying out the self-test routine.....[ ]
- 3.21.4 Checking that the EPIRB Identity is clearly marked on the outside of the equipment and decoding the EPIRB identity number and confirming it is correct.....[ ]
- 3.21.5 Checking the battery expiry date:.....(D/M/Y).....[ ]
- 3.21.6 If provided, checking the hydrostatic release and its expiry date:.....(D/M/Y).....[ ]
- 3.22 Two-way VHF radiotelephone apparatus (Reg. III/6)
- 3.22.1 Checking for correct operation on channel 16 and one other by testing with another ☐fixed or ☐portable VHF installation(Reg.IV/14).....[ ]
- 3.22.2 Checking the battery charging arrangements, where rechargeable batteries are used (Reg.IV/14).....[ ]
- 3.22.3 Checking the expiry date of primary batteries, where used (Reg. IV/14)  
No.1.....No.2.....No.3.....(D/M/Y).....[ ]
- 3.22.4 Where appropriate, checking any fixed installation provided in a survival craft (Reg. IV/14).....[ ]
- 3.23 Search and rescue locating devices (☐Radar transponder/☐AIS-SART) (Reg. III/6, IV/7 and 14)
- 3.23.1 Checking the position and mounting.....[ ]
- 3.23.2 Monitoring response on ship's ☐9 GHz radar /☐AIS.....[ ]
- 3.23.3 Checking the battery expiry date: No.1.....No.2.....(D/M/Y).....[ ]
- 3.24 Examining the 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 (Reg. IV/15).....[ ]

<b>4</b>	<b>Documentation</b>	
4.1	A valid radio license issued by the flag Administration (ITU RR Art. 24).....	[ ]
4.2	※ Radio operator's certificates of competence (Reg. IV/16, ITU RR Art. 56, Chapter VIII / STCW).....	[ ]

- | * | Name of Radio Operator | Class & Certificate No. | Certificate issued by |
|---|------------------------|-------------------------|-----------------------|
|   |                        |                         |                       |
|   |                        |                         |                       |
|   |                        |                         |                       |

\* Entry in the box shall be made by inserting a cross (x) mark for the radio operator who is designated to have primary responsibility for radiocommunications during incidents.

- 5. Equipment renewal, alteration and/ or addition ( for Chinese Flag only )**

- 5.2 Equipment as mentioned in Ship Station License No \_\_\_\_\_ issued by NATIONAL COMMUNICATIONS COMMISSION was checked and found :

6. **Survey Results**  
☐ The above survey items have been checked and found in compliance with relevant provisions of convention.

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☐ Survey's Note

☐ Outstanding Recommendation

☐ The record of safety radio installation is updated if the equipment has been altered.

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[illegible]