



# Radiocommunications Equipment Survey Details

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Name of vessel

Checks (OK ✓, Deficient X, Not required —)

## Main Telephony Installation

Transmitter make/model \_\_\_\_\_  
Receiver make/model \_\_\_\_\_  
Distress/calling freqs tested \_\_\_\_\_  
\_\_\_\_\_ kHz

Freq accuracy .....Hz ☐  
Average rec sens .....  $\mu$ V ☐  
Mod % H3E ..... ☐  
Antenna VSWR ..... 1 ☐  
Rx antenna efficiency ☐  
Power supply ..... ☐

## Reserve Telephony Installation

Transmitter make/model \_\_\_\_\_  
Receiver make/model \_\_\_\_\_  
Distress/calling freqs tested \_\_\_\_\_  
\_\_\_\_\_ kHz

Freq accuracy .....Hz ☐  
Average rec sens .....  $\mu$ V ☐  
Mod % H3E ..... ☐  
Antenna VSWR ..... 1 ☐  
Rx antenna efficiency ☐  
Power supply ..... ☐

## MF/HF DSC and NBDP Systems

MF/HF watch receiver  
make/model \_\_\_\_\_  
Antenna efficiency ☐  
MF/HF controller  
make/model \_\_\_\_\_  
NBDP systems modem  
make/model \_\_\_\_\_

MF only ☐ MF/HF ☐ Op. test ☐ Power supply ☐  
Decode sens .....  $\mu$ V ☐ Scanning function check ☐  
Op. test ☐ NMEA input ☐ Remote alarm ☐ Power supply ☐  
Op. test ☐ Telex Rx. Ant. ☐ Power supply ☐

## INMARSAT

|     | Make/Model | Power supply |        | Gyro Input | Link Test | Op Test | Remote Alarms | RDID's | NMEA |
|-----|------------|--------------|--------|------------|-----------|---------|---------------|--------|------|
|     |            | Mains        | Emerg. |            |           |         |               |        |      |
| A/B |            |              |        |            |           |         |               |        |      |
| C1  |            |              |        |            |           |         |               |        |      |
| C2  |            |              |        |            |           |         |               |        |      |
| F77 |            |              |        |            |           |         |               |        |      |

## VHF Radio Installation

| Make/Model | Power supply |        | Channels | Rx. Sens | Tx Power (H/L) |   | Deviation | Freq. Error | Ant. VSWR |
|------------|--------------|--------|----------|----------|----------------|---|-----------|-------------|-----------|
|            | Mains        | Emerg. |          |          |                |   |           |             |           |
|            |              |        |          | $\mu$ V  | /              | W | kHz       | Hz          | :1        |
|            |              |        |          | $\mu$ V  | /              | W | kHz       | Hz          | :1        |
|            |              |        |          | $\mu$ V  | /              | W | kHz       | Hz          | :1        |
|            |              |        |          | $\mu$ V  | /              | W | kHz       | Hz          | :1        |

## VHF DSC Systems

VHF watch receivers  
make/model \_\_\_\_\_  
VHF controllers  
make/model \_\_\_\_\_

Op. test ☐ Decode sens ...../.....  $\mu$ V ☐  
Op. test ☐ NMEA input ☐ Remote alarm ☐ Power supply ☐

## EPIRBs 406 MHz or 1.6 GHz

Make/model \_\_\_\_\_ 406 ☐ 1.6 ☐ 5 year service ...../...../.....  
Next service due...../...../..... Battery expiry date...../...../..... Hydrostatic release expiry date ...../...../.....  
Nav. interface ☐ Remote activation ☐ Yes ☐ No Heater ☐ Yes ☐ No Easily accessible ☐ Yes ☐ No  
Serial number \_\_\_\_\_  
Identification number \_\_\_\_\_ Verified ☐ EPIRB self test ☐

## Portable VHF Equipment

| Make/Model | Channels   | Rx. Sens      | Tx Power | Deviation | Freq. Error | Primary Batteries exp. date |
|------------|------------|---------------|----------|-----------|-------------|-----------------------------|
|            | 16 13 6 67 | $\mu\text{V}$ | W        | kHz       | Hz          |                             |
|            | 16 13 6 67 | $\mu\text{V}$ | W        | kHz       | Hz          |                             |
|            | 16 13 6 67 | $\mu\text{V}$ | W        | kHz       | Hz          |                             |

## Liferaft EPIRBs (Australian vessels)

| Make/Model | Location<br>Liferaft No. or Serial No. | Battery expiry | Next service due |
|------------|----------------------------------------|----------------|------------------|
|            |                                        |                |                  |
|            |                                        |                |                  |
|            |                                        |                |                  |
|            |                                        |                |                  |
|            |                                        |                |                  |
|            |                                        |                |                  |

## Radar Transponders

| Make/Model | Location | Battery expiry | Next service due |
|------------|----------|----------------|------------------|
|            |          |                |                  |
|            |          |                |                  |

## MSI Reception Facilities

|           | Make/Model | Frequencies | Sensitivity   | Antenna efficiency | Op test |
|-----------|------------|-------------|---------------|--------------------|---------|
| NAVTEX    |            |             | $\mu\text{V}$ |                    |         |
| EGC RECVR |            |             |               |                    |         |
| HF NBDP   |            |             | $\mu\text{V}$ |                    |         |

## AIS

| Make/Model | Short/long range                    | Graphic display | Static info           |
|------------|-------------------------------------|-----------------|-----------------------|
|            | Functional <input type="checkbox"/> |                 | (a) IMO No:           |
|            |                                     |                 | (b) Callsign:         |
|            |                                     |                 | (c) Length & beam:    |
|            |                                     |                 | (d) Type of ship:     |
|            |                                     |                 | (e) Antenna location: |

## Antenna Inspection

| Antenna       | Condition | Mountings | Wx protection | Insulators | Notes | m/ohm | Weaklink/safety loops | Spares |
|---------------|-----------|-----------|---------------|------------|-------|-------|-----------------------|--------|
| Main          |           |           |               |            |       |       |                       |        |
| Emerg./spare  |           |           |               |            |       |       |                       |        |
| MF/HF DSC W/R |           |           |               |            |       |       |                       |        |
| Rx            |           |           |               |            |       |       |                       |        |
| Rx            |           |           |               |            |       |       |                       |        |
| Rx (Fwd)      |           |           |               |            |       |       |                       |        |
| VHF           |           |           |               |            |       |       |                       |        |
| VHF           |           |           |               |            |       |       |                       |        |
| VHF DSC W/R   |           |           |               |            |       |       |                       |        |
| NAVTEX        |           |           |               |            |       |       |                       |        |

| Battery | Make/Model | Type | Installed on | Av SG | Req'd AHC | Tested ANC | Charge I |
|---------|------------|------|--------------|-------|-----------|------------|----------|
| Bank A  |            |      |              |       |           |            |          |
| Bank B  |            |      |              |       |           |            |          |

Discharge stopped at \_\_\_\_\_ V (Bank A) & at \_\_\_\_\_ V(Bank B)

Battery charger make/model \_\_\_\_\_ remote failure alarm ☐

All communications equipment checked for operation from 2 or 3 supplies (as required) ☐

A/C - D/C automatic change-over checked (GMDSS only) ☐

NMEA data source backed up                      Yes ☐                      No ☐

V/L fitted with emergency generator                      Yes ☐                      No ☐

|                           |                          |                          |                          |              |                          |                                          |                          |
|---------------------------|--------------------------|--------------------------|--------------------------|--------------|--------------------------|------------------------------------------|--------------------------|
| Clock (Aust. ships)       | <input type="checkbox"/> | Em. lighting             | <input type="checkbox"/> | Antenna plan | <input type="checkbox"/> | Publications                             | <input type="checkbox"/> |
| Simple instructions       | <input type="checkbox"/> | Logbook                  | <input type="checkbox"/> | EGC records  | <input type="checkbox"/> | ITU Manual                               |                          |
| Manuals                   | <input type="checkbox"/> | Spares                   | <input type="checkbox"/> |              |                          | R/T Handbook                             |                          |
| Callsign & MMSI displayed | <input type="checkbox"/> |                          |                          |              |                          | GMDSS Handbook                           |                          |
|                           |                          | GMDSS system config plan | <input type="checkbox"/> |              |                          | List of ship stations                    |                          |
|                           |                          |                          |                          |              |                          | List of C/S & ship IDs                   |                          |
|                           |                          |                          |                          |              |                          | List of Coast Stations (for O/S voyages) |                          |

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

| Radar/ARPA Details                                                                                           |  | Equipment make and model         | Date of installation/operating band |
|--------------------------------------------------------------------------------------------------------------|--|----------------------------------|-------------------------------------|
| Radar No. 1                                                                                                  |  |                                  | / / cm                              |
| Radar No. 2                                                                                                  |  |                                  | / / cm                              |
| ARPA                                                                                                         |  |                                  | / / cm                              |
| ARPA slaved to radar #<br>1 <input type="checkbox"/> 2 <input type="checkbox"/> N/A <input type="checkbox"/> |  | Interswitching available between | True motion available on radar #    |

Radar Checks

|                                           | Radar # 1                | Radar # 2                | ARPA                     |
|-------------------------------------------|--------------------------|--------------------------|--------------------------|
| Antenna siting, access & platform         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Scanner/Waveguide/Coax Secure             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Condition of scanner/waveguide/coax       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Observer forward view/light interference  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Display contrast & phosphor condition     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Display centering & orientation           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bearing scale & reflect. plotter lighting | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bearing cursor operation & alignment      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Heading marker, alignment & switch        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Range rings, correct No. & accuracy       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Variable range marker accuracy            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Electronic bearing line accuracy          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sea clutter control                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Rain clutter control                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| True motion tracking                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Gyro stabilization                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Operation of controls                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Performance monitor fitting & operation   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Performance monitor readings record       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Blind arcs/shadow sectors record          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| SARTs tested                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Additional ARPA Checks

|                                                    |                          |                          |
|----------------------------------------------------|--------------------------|--------------------------|
| Manual acquisition                                 | <input type="checkbox"/> | <input type="checkbox"/> |
| Auto acquisition - up to 20 targets tracked        | <input type="checkbox"/> | <input type="checkbox"/> |
| Acquired targets identification                    | <input type="checkbox"/> | <input type="checkbox"/> |
| Motion trend after 1 minute                        | <input type="checkbox"/> | <input type="checkbox"/> |
| Predicted motion after 3 minutes                   | <input type="checkbox"/> | <input type="checkbox"/> |
| Weaker targets tracking                            | <input type="checkbox"/> | <input type="checkbox"/> |
| True & relative vectors (vector only display)      | <input type="checkbox"/> | <input type="checkbox"/> |
| True OR relative vectors (vector/graphic display)  | <input type="checkbox"/> | <input type="checkbox"/> |
| Vector time scale indication                       | <input type="checkbox"/> | <input type="checkbox"/> |
| Radar information visibility                       | <input type="checkbox"/> | <input type="checkbox"/> |
| Cancellation of unwanted data                      | <input type="checkbox"/> | <input type="checkbox"/> |
| Independent brilliance for radar & ARPA data       | <input type="checkbox"/> | <input type="checkbox"/> |
| Plots displayed 4 scans after range change         | <input type="checkbox"/> | <input type="checkbox"/> |
| Alpha-numeric information - Range                  | <input type="checkbox"/> | <input type="checkbox"/> |
| Bearing                                            | <input type="checkbox"/> | <input type="checkbox"/> |
| CPA                                                | <input type="checkbox"/> | <input type="checkbox"/> |
| TCPA                                               | <input type="checkbox"/> | <input type="checkbox"/> |
| True course                                        | <input type="checkbox"/> | <input type="checkbox"/> |
| True speed                                         | <input type="checkbox"/> | <input type="checkbox"/> |
| Visual/aural warning for CPA & TCPA targets        | <input type="checkbox"/> | <input type="checkbox"/> |
| Threatening target (above) indication              | <input type="checkbox"/> | <input type="checkbox"/> |
| Lost target (above) indication                     | <input type="checkbox"/> | <input type="checkbox"/> |
| Lost target indication & its last position         | <input type="checkbox"/> | <input type="checkbox"/> |
| Activation/deactivation of warnings                | <input type="checkbox"/> | <input type="checkbox"/> |
| Past positions indication                          | <input type="checkbox"/> | <input type="checkbox"/> |
| Trial manoeuvre operation & indication of trial    | <input type="checkbox"/> | <input type="checkbox"/> |
| Auto acquisition zones indication                  | <input type="checkbox"/> | <input type="checkbox"/> |
| Visual ID & aural signal from target entering zone | <input type="checkbox"/> | <input type="checkbox"/> |
| Malfunction warnings & error source information    | <input type="checkbox"/> | <input type="checkbox"/> |
| Speed input & course input                         | <input type="checkbox"/> | <input type="checkbox"/> |

Range and Bearing Checks for Radar and ARPA Using Targets

| Target Ident. | Range (nm) | Bearing (deg.) | Radar # 1 |      | Radar # 2 |      | ARPA |      |
|---------------|------------|----------------|-----------|------|-----------|------|------|------|
|               |            |                | nm        | deg. | nm        | deg. | nm   | deg. |
|               |            |                |           |      |           |      |      |      |
|               |            |                |           |      |           |      |      |      |
|               |            |                |           |      |           |      |      |      |
|               |            |                |           |      |           |      |      |      |

Remarks

Radio Technician \_\_\_\_\_

Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Surveyor \_\_\_\_\_

Date \_\_\_\_/\_\_\_\_/\_\_\_\_