**AMERICAN BUREAU OF SHIPPING
CHECK SHEET ON SOLAS SURVEYS - “VDR” & “S-VDR” RADIO TECHNICIAN’S SURVEY**

(ORIGINAL TO BE RETAINED ONBOARD BY VESSEL’S MASTER UNTIL NEXT SLE SURVEY)

VESSEL       CLASS NO.

Associated REPORT NO.       DATE

 **RADIO TECHNICIANS SURVEY- “VDR” & “S-VDR” Performance Test Report**

**Ship’s details:**

GR. TONNAGE       DATE KEEL LAID

PORT OF REGISTRY

CALL SIGN       OFFICIAL NUMBER

IMO NUMBER       INMARSAT ID NUMBERS

**Voyage data recorder details**

MANUFACTURER       MODEL

SYSTEM SERIAL NUMBERS       SOFTWARE VERSION NO.

DATE FITTED

**Inspection Details**

NAME OF RADIO TECHNICIAN       COMPANY

INSPECTION DATE       INSPECTION LOCATION

  **YES NO N/A**

1. **Pre-existing alarms**: Confirm that no alarms are present at start of procedure. [ ]  [ ]  [ ]

2. **Power supply alarm check**: Remove source of external power. Confirm that alarm is activated. [ ]  [ ]  [ ]
Record time (hh.mm)

3. **Reserve power source check**: Allow VDR to continue running for 1 hour 55 minutes from “2” above [ ]  [ ]  [ ]
Confirm that equipment is still operating at this time, with no additional alarms. Record time (hh.mm)

4. **Reserve power source shutdown check**: 2 hours 05 minutes from “2” above confirm that the VDR has automatically [ ]  [ ]  [ ]
stopped recording. Record time (hh.mm)

5. **Battery expiry dates**: Expiry date (where applicable).
Acoustic beacon:       [ ]  [ ]  [ ]
Reserve power source:       [ ]  [ ]  [ ]

6. **Acoustic beacon test**: Using manufacturer’s test equipment confirm that acoustic beacon is functional or by the [ ]  [ ]  [ ]
substitution of a certified fully operational unit.

7. **Overall condition of equipment**: Inspect equipment and record condition, check if satisfactory:
Sub unit Notes on condition
Protective capsule       [ ]  [ ]  [ ]
External cables       [ ]  [ ]  [ ]
Main unit       [ ]  [ ]  [ ]  Float free arrangements, **where fitted[[1]](#footnote-1)**       [ ]  [ ]  [ ]  Release mechanisms or other datable items are within expiry date.       [ ]  [ ]  [ ]

8. **Interfaces: Operation and recording**
**Date and time**: Preferably external to ship (e.g. Global Navigational Satellite System).       [ ]  [ ]  [ ]
**Ship’s position**: Electronic position-fixing system.       [ ]  [ ]  [ ]
**Speed (through water or over ground**) ([[2]](#footnote-2)): Ships designated speed & distance measuring equipment.       [ ]  [ ]  [ ]
**Heading**: Ship’s compass       [ ]  [ ]  [ ]
**Bridge audio**: one or more bridge microphones.       [ ]  [ ]  [ ]
**Communications Audio**: VHF       [ ]  [ ]  [ ]
**Radar data- post display selection** ([[3]](#footnote-3)): Master radar display.       [ ]  [ ]  [ ]
**Water depth**: Echo sounder.       [ ]  [ ]  [ ]
**Main alarms** ([[4]](#footnote-4)): All mandatory alarms on bridge (including BNWAS).       [ ]  [ ]  [ ]
**Rudder order and response**: Steering gear and autopilot.       [ ]  [ ]  [ ]
**Engine order & response**: Telegraphs, controls and thrusters.       [ ]  [ ]  [ ]
**Hull openings status**: All mandatory status information displayed on bridge.       [ ]  [ ]  [ ]

VESSEL       CLASS NO.

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 **YES NO N/A**

 **Watertight and fire door status**: All mandatory status information displayed on bridge.       [ ]  [ ]  [ ] **Acceleration and hull stresses**: Hull stress & response monitoring equipment, **where fitted**.       [ ]  [ ]  [ ]
**Wind speed and direction**: Anemometer with indication of true or relative measurements, **where fitted**.       [ ]  [ ]  [ ]  **Automatic Information System:** All AIS Data **[ ]  [ ]  [ ] Electronic Chart Display and Information System**[[5]](#footnote-5): ECDIS, **where fitted**.       [ ]  [ ]  [ ]  **Rolling Motion**5 Electronic inclinometer, **where fitted**.       [ ]  [ ]  [ ]   **Configuration Data**5: Data block defining configuration of VDR and its sensors.       [ ]  [ ]  [ ]  **Electronic Logbook**5: **where fitted**.       [ ]  [ ]  [ ]

9. Software on a portable storage device for data downloading and playback, the instructions and any special
(not commercial off-the-shelf) parts necessary for the physical connection of an external laptop computer are
stored within the main unit of the VDR/S-VDR ([[6]](#footnote-6)) is provided **[ ]  [ ]  [ ]**

10**. Change or repair of sensors**.
Check maintenance records of VDR [ ]  [ ]  [ ]
Confirm any defects properly rectified. [ ]  [ ]  [ ]

Person authorized by the manufacturer       Date:
Ship’s representative       Date:

If the manufacturer does not complete a review and issue a completed test report within 45 days this test report should go forward for certification.

11. **Manufacturer’s analysis**:
**Note** – This confirms the endorsement by the manufacturer of the tests and that the master record/database has been checked.

|  |  |
| --- | --- |
| Manufacturer’s analysis of 12-hour log is attached and in accordance with International Electrotechnical Commission (IEC) 61996 Maritime navigation and radio communication equipment and systems – Shipborne voyage data recorder (VDR) – Performance requirements – Methods of testing and required test results Section 4.6 - Data items to be recorded ([[7]](#footnote-7)). Confirmation that all data is available throughout the 12-hour recording. | [ ]  [ ]  [ ]  |
| For VDR’s installed on or after 1 July 2014: Manufacturer’s analysis of 48-hour log on the fixed and float-free recording media and 30days/720hours on the long-term recording medium is attached and in accordance with International Electrotechnical Commission (IEC) 61996-1:2013 Maritime navigation and radio communication equipment and systems – Shipborne voyage data recorder (VDR) – Part 1: Performance requirements – Methods of testing and required test results section 4.6 - Data items to be recorded (7). Confirmation that all data is available throughout the 48-hour recording on the fixed and float-free recording media and 30days/720 hours on the long-term recording medium. | [ ]  [ ]  [ ]  |
| **Date and time** of the above log.        |  |

12. **Observations and additional manufacturer’s requirements**
Note – This specifically provides for the logging of significant events that may have occurred on board since the previous test, including the refitting of equipment or major unit change to existing equipment. – Any or all of which may have an impact on the availability or quality of the VDR/S-VDR input signal.

This performance test was conducted in accordance with SOLAS regulation V/18.8 and forms part of the procedure for the issue of the Annual Performance test Certificate. The results, information and any comments should be relayed to the manufacturer in accordance with the instructions contained within the Operation Manual. Subject to satisfactory results, an Annual Performance Test Certificate will then be issued.

This report may also be considered as the certificate of compliance issued by the testing facility, as required by SOLAS V/18.8, provided it is properly signed and dated subject to the equipment being maintained in appropriate operational condition. In accordance with the principles of harmonization of certificates this certificate will remain valid until the next annual re-validation inspection when a new check sheet is to be completed and left on board.

**R****adio Technician's Remarks**:

Radio Technician's Signature

Company

Date

1. For float-free capsules approved in accordance with resolution MSC.333(90), as amended by MSC.494(104) : an examination according to MSC.1/Circ.1040/Rev.1 has been conducted. [↑](#footnote-ref-1)
2. Either speed through water or speed over ground needs to be recorded from the ship’s speed and distance measuring equipment, along with an indication of which one it is. VDR installed on or after 1 July 2014 require both speed measurements to be recorded MSC.333(90) [↑](#footnote-ref-2)
3. Both radar displays are to be recorded for VDR installed on or after 1 July 2014 MSC.333(90) [↑](#footnote-ref-3)
4. For VDR’s (not S-VDR’s) Verification that recorded Main Alarms of unmanned engineroom vessels includes the bridge alarms per IMO Resolutions A.830(19) and A.686(17) - Table 9.1.1. For VDR’s installed on or after 01 July 2014, refer to Resolution A.1021(26) – Table 10.1.1. [↑](#footnote-ref-4)
5. Applicable to VDR installed on or after 1 July 2014 [↑](#footnote-ref-5)
6. Applicable to both VDR and S-VDR installed on or after 1 June 2008, MSC.214(81) [↑](#footnote-ref-6)
7. For VDR, if installed on or after 1 July 2022, resolution MSC.333(90), as amended by MSC.494(104); if installed on or after 1 July 2014 and before 1 July 2022, MSC.333(90); if installed on or after 1 June 2008, but before 1 July 2014, A.861(20), as amended by resolution MSC.214(81); and if installed before 1 June 2008, resolution A.861(20).For S-VDR, if installed before 1June 2008 refer to MSC.163(78), if installed on or after 1 June 2008, but before 1 July 2022, resolution MSC.163(78), as amended by resolution MSC.214(81), and if installed on or after 1 July 2022, resolution MSC.163(78), as amended by resolution MSC.214(81) and MSC.493(104). [↑](#footnote-ref-7)