



Survey:

**VOYAGE DATA RECORD (VDR) & SIMPLIFIED VOYAGE DATA RECORD (S-VDR) ANNUAL PERFORMANCE TEST**

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

**Voyage data recorder details**

MANUFACTURER \_\_\_\_\_ MODEL \_\_\_\_\_

SYSTEM SERIAL NUMBERS \_\_\_\_\_ SOFTWARE VERSION No. \_\_\_\_\_

DATE FITTED \_\_\_\_\_

1	Pro-existing alarms: Confirm that no alarms are present at start of procedure	CONDITION <sup>1)</sup>			
		1.	2.	3.	4.
2	<b>Power supply alarm check:</b> Remove source of external power. Confirm that alarm is activated. Record time (hh.mm) -----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<b>Reserve power source check:</b> 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) --	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<b>Reserve power source shutdown check:</b> 2 hours 05 minutes from “2” above confirm that the VDR has automatically stopped recording. Record time (hh.mm) -----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<b>Battery expiry dates:</b> Expiry dates (where applicable).				
	5.1 Acoustic beacon:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5.2 Reserve power source:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<b>Acoustic beacon test:</b> Using manufacturer’s test equipment confirm that acoustic beacon is functional or by the substitution of a certified fully operational unit.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<b>Overall condition of equipment:</b> Inspect equipment and record condition, check if satisfactory: sub unit..... notes on condition				
	7.1 Protective capsule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	7.2 External cables	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	7.3 Main unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<b>Interfaces: Operation and recording</b>				
	8.1 <b>Date and time:</b> Preferably external to ship (e.g. Global Navigational Satellite System).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8.2 <b>Ship’s position:</b> Electronic Positioning system. length and beam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8.3 <b>Speed (through water or over ground) <sup>(2)</sup>:</b> Ships designated speed & distance measuring equipment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8.4 <b>Heading:</b> Ship’s compass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8.5 <b>Bridge audio:</b> one or more bridge microphones.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8.6 <b>Communications Audio:</b> VHF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8.7 <b>Radar data: post display selection:</b> Master radar display.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8.8 <b>Water depth:</b> Echo sounder.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8.9 <b>Main alarms <sup>(3)</sup>:</b> All mandatory alarms on bridge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8.10 <b>Rudder order and response:</b> Steering gear and autopilot.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8.11 <b>Engine order &amp; response:</b> Telegraphs, controls and thrusters.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8.12 <b>Hull openings status:</b> All mandatory status information displayed on bridge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8.13 <b>Watertight and fire doors status:</b> All mandatory status information displayed on bridge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8.14 <b>Acceleration and hull stresses:</b> Hull stress & response monitoring equipment <b>where fitted.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.15 <b>Wind speed and direction:</b> Anemometer <b>where fitted.</b>					

NOTE: 1) 1. Found satisfactory ; 2. See remark ; 3. Repaired/Rectif; 4. Non applicable

**SURVEY CHECK LIST**

<b>9</b>	<b>Change or repair of sensors.</b>						
	9.1	Check maintenance records of VDR		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	9.2	Confirm any defects properly rectified.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.

<b>10</b>	<b>MANUFACTURER'S ANALYSIS:</b>						
	<b>Note</b> – This confirms the endorsement by the manufacturer of the testes and that the master record/database has been checked.						
	10.1	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 (resolution A.861(20), section 5.4). Confirmation that all data is available throughout the 12-hour recording Date and time of the above log. -----		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>11</b>	<b>Observations and additional manufacturer's requirements</b>						
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 harmonization of certificates this certificate will remain valid until the next annual re-validation inspection when a new check sheet is to completed and left on board.

**Radio Technician's Remarks:**

Place / Date	Stamp	Signature of CRS Surveyor
Place / Date	Stamp	Signature of competent radio expert

<sup>2</sup> Either speed through water or speed over ground needs to be recorded from the ship's speed and distance measuring equipment, along with an indicator of which one it is.

<sup>3</sup> For VDR's (not S-VDR's) Verification that recorded Main Alarms of unmanned engine room vessels includes the bridge alarms per MSC Resolution A.830(19) and MSC Resolution A.686(17) – Table 9.1.1.