

ECDIS FAILURE CHECKLIST

(For vessels fitted with ECDIS and approved ENC charts)

Vessel: _____ Date: _____

Position: _____ ECDIS Unit: _____

Part 1: Immediate Actions (0-2 Minutes)

- Steer the vessel by hand and steady on the present course.
- Slow down the vessel to a safe speed, or stop if in congested or confined waters.
- Call the Master immediately.
- Post an additional lookout.
- Begin to obtain rapid navigation fixes using radar bearings and visual marks.

Part 2: Contingency Procedures & Troubleshooting

Scenario A: Single ECDIS Unit Failure

- Switch to the second, working ECDIS system.
- Check and confirm that the settings on the secondary system are correct, including anti-grounding cone, safety depth, safety contour, velocity vector, units, and chart auto-load.
- Notify the Master and begin defect rectification procedures.

Scenario B: Both ECDIS Units Fail

- Refer to the ship's Navigation Manual, Chapter 6, Section 3.8.4 for the complete procedure.
- Immediately switch to a paper chart folio as the primary means of navigation.
- Manually plot positions using conventional navigation skills such as radar ranges, bearings, and parallel indexing.
- Notify the company and the ECDIS maker to seek assistance.

Part 3: Post-Incident Checks

- **After an uncontrolled shutdown or power failure:** Confirm that power supplies are restored to each system.
- **After restarting a system:**
 - Check that primary and secondary position sources are correctly selected and working.

- Check that the heading source is correctly selected and working.
- Confirm that the Radar Information Overlay (RIO) is operating correctly.
- Verify the vessel's current position.
- Verify that the vessel's shape is correct and aligned to the ship's head.
- Conduct an alarm self-test.

Part 4: Finalization

- Make a full entry in the bridge logbook detailing the failure, actions taken, and time of each event.
- Submit a formal defect report to the company and manufacturer for repair scheduling.
- Conduct a drill to practice the response.

Prepared by OOW: _____ **Signature:** _____

Verified by Master: _____ **Signature:** _____