

WARD MARITIME GROUP

ECDIS Configuration Review
Operationally Grounded Navigation Systems Support

Purpose

A practical operational review of vessel ECDIS configuration, sensor integration, safety settings, bridge workflow, and route-monitoring setup intended to improve navigational safety, reduce nuisance alarms, improve bridge-team usability, and support inspection readiness.

1. System Configuration Review

- ECDIS model and software version review
- Master/slave synchronization verification
- Sensor prioritization assessment
- Position source configuration review
- Heading and gyro input verification
- Speed source configuration review
- AIS overlay configuration
- Radar overlay integration review
- Depth sensor integration review
- Time and UTC synchronization verification
- Backup arrangements and redundancy review

2. Safety Settings Review

- Safety contour review
- Safety depth verification
- Shallow contour assessment

- Deep contour assessment
- Cross-track distance (XTD) review
- Look-ahead settings verification
- Guard zone configuration review
- Wheel-over settings assessment
- Anti-grounding parameter review
- CPA/TCPA settings review
- Vector settings review
- Alarm management philosophy review
- Assessment of operational practicality and bridge usability

3. Route Planning Workflow Review

- Route creation practices review
- Route validation workflow assessment
- Waypoint naming convention review
- Use of no-go areas
- Manual chart update workflow
- Chart correction practices
- Route approval workflow
- Under-keel clearance integration review
- Wheel-over management
- Parallel indexing practices
- Bridge team cross-check procedures

4. Sensor & Alarm Rationalization

- Nuisance alarm reduction review
- Alarm flooding assessment
- Improperly configured alert review
- Sensor dropout troubleshooting

- Invalid input prioritization review
- Duplicate alarm identification
- Alarm threshold rationalization
- Bridge usability improvements without reducing safety margin

5. Chart & Licensing Review

- ENC licensing status verification
- Permit management review
- Chart update status review
- AIO integration assessment
- Chart catalog management review
- Update procedure assessment
- Backup chart readiness review
- Navigation warning integration

6. Bridge Team Workflow Assessment

- Watchstander interaction with ECDIS
- Route monitoring practices
- Bridge monitoring configuration review
- Night orders integration
- Handover workflow review
- Position verification practices
- DR mode procedures
- Fallback procedures review

Deliverables

- Professional operational review report
- Configuration findings and observations

- Deficiency identification and recommendations
- Corrective action tracker
- Recommended baseline configuration package
- Inspection-readiness support documentation
- Operational risk observations
- Corrective action recommendations

Optional Add-On Services

- Remote troubleshooting support
- Live assistance for route validation issues
- Sensor integration troubleshooting
- Bridge team operational coaching
- ECDIS familiarization support
- SMS and SOP development
- Bridge systems readiness reviews

Suggested Package Structure

- **Tier 1:** Remote ECDIS Configuration Review
- **Tier 2:** Full Operational ECDIS Review
- **Tier 3:** Navigation & Bridge Systems Readiness Audit

Intended Clients

- Vessels with recurring ECDIS configuration or route validation issues
- Operators preparing for navigation audits or inspections
- Vessels transitioning crews or standardizing bridge procedures
- Small operators without dedicated navigation departments
- Commercial vessels, towing vessels, yachts, and expeditionary vessels
- Government-contracted or remote-area vessels requiring practical navigation systems support

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