

Phoenix Register of Shipping (PH.R.S.)

Newsletter -135/2015

Electronic Chart Display and Information System (ECDIS)

Refers to: Ship Owners / Operators, PH.R.S. Representatives

Vessel Type: (1) Passenger ships of 500 GT and upwards;

(2) Oil/Chemical Tankers of 3,000 GT and upwards;

(3) New building cargo ships other than tanker of 3,000 GT and upward,

(4) Existing cargo ships other than tanker of 10,000 GT and upward.

Action Date: July 1st 2015

PH.R.S. would like to inform that SOLAS Chapter V/19 Paragraphs 2.1.4, 2.10 and 2.11 relating to the **Electronic Chart Display and Information System (ECDIS)** are newly added.

Carriage requirements of ECDIS and back-up arrangement are phased in from 1 July 2012.

1. Applicable ships

The carriage requirements shall apply to the following ships engaged on international voyages:

- (1) Passenger ships of 500 GT and upwards;

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- (2) Oil/Chemical Tankers of 3,000 GT and upwards; and
- (3) New building cargo ships other than tanker of 3,000 GT and upward, and
- (4) existing cargo ships other than tanker of 10,000 GT and upward.

2. Applicable due date

The due date for above ships is as follows:

(Definition of "constructed" is as per the paragraph 1 of SOLAS Chapter V/2.)

- Passenger ship
 - Passenger ship constructed on or after 1 July 2012, not later than the initial safety equipment survey.
 - Passenger ship constructed before 1 July 2012, not later than the first safety equipment survey on or after 1 July 2014.
- Tanker
 - Tanker constructed on or after 1 July 2012, not later than the initial safety equipment survey.
 - Tanker constructed before 1 July 2012, not later than the first safety equipment survey on or after 1 July 2015.
- Cargo ship other than tanker
 - Cargo ship, of 10,000 GT and upwards constructed on or after 1 July 2013, not later than the initial safety equipment survey.
 - Cargo ship, of 3,000 GT and upward but less than 10,000 GT constructed on or after 1 July 2014, not later than the initial safety equipment survey.
 - Cargo ship, of 50,000 GT and upward constructed before 1 July 2013, not later than the first safety equipment survey on or after 1 July 2016.
 - Cargo ship, of 20,000 GT and upward but less than 50,000 GT constructed before 1 July 2013, not later than the first safety equipment survey on or after 1 July 2017.
 - Cargo ship, of 10,000 GT and upward but less than 20,000 GT constructed before 1 July 2013, not later than the first safety equipment survey on or after 1 July 2018.

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- Ship constructed under the conditions of above (1) (ii), (2) (ii), (3) (iii), (iv) and (v), but delivered after the applicable due date, not later than the initial safety equipment (SE) survey.

3. Functional Requirements for ECDIS

ECDIS installed as meeting the chart carriage requirements and using for navigation shall be complied with as follows:

- Performance standards for ECDIS: IMO Resolution MSC.232(82)
- Requirements of back-up arrangement: Nautical paper charts or an ECDIS provided with electronic nautical charts are complied with as a backup arrangement for ECDIS. The backup ECDIS should be complied with the IMO resolution MSC.232(82) Appendix 6.

4. Type approval of ECDIS

- Type of ECDIS shall be approved by the Administration or Organizations approved by the Administration.
- ECDIS shall comply with the requirements of IMO performance standards.
 - (i) ECDIS installed on or after 1 Jan. 2009 shall comply with the IMO resolution MSC. 232(82).
 - (ii) ECDIS installed before 1 Jan. 2009 shall be complied with the A.817(19), MSC.64(67) annex 5 and MSC.86(70) annex 4, and provided IHO standard software and be able to display all information of latest ENC.
 - (ii) IEC 61174 Test standards for ECDIS shall be applied.

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5. Electronic Navigation Charts (ENC)

ECDIS is acceptable as meeting the chart carriage requirements and shall be complied with carriage requirements of ENC for navigation. When ship intends to omit provisions for paper charts, it should be satisfied with additional requirements.

6. Guidance for ECDIS installation

1. Steps for ECDIS installation

1. ECDIS should be of type approved and comply with the requirements of installation.
2. Authorized ENC should be supplied on board the ship and updated.
3. Master and deck officers should hold training certificates for ECDIS.

2. Guidance for ECDIS installation

1. Main ECDIS shall be located in the area of wheelhouse forwards any curtain.
2. Back-up ECDIS may be located anywhere in the wheelhouse, such as chart space.
3. ECDIS is required to connect to Radar (video and ARPA information) and AIS as well as equipment of paragraph 3.(1)(ix). This requirement is recommended to ECDIS for existing ships as far as practicable. Other navigation/radio equipment may be connected to ECDIS if it is available digital interface.
4. Type of back-up ECDIS shall be of the type/model prescribed on the certificate. Back-up ECDIS combined with radar function can not replace the mandatory radar required by Chapter V of SOLAS.

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3. Treatment of ECDIS installed before 1 July 2012

When ECDIS complying with the requirements of the performance standards is not fitted on board the ship, the ship should use paper charts for navigation. ECDIS cannot be used for navigation. It is required to replace the old ECDIS to a new type approved ECDIS.

7. Plan approval for ECDIS installation

For ECDIS already installed on board a ship and newly installed for existing ships before applicable due date, the drawings of installation are not necessary to be submitted for approval. After ECDIS is installed, the drawings of installation are necessary to be submitted for approval before PhRS survey the ECDIS on the safety equipment survey.

8. Survey for ECDIS

The following should be ensured or verified during the survey:

- Copy of type approval certificate and performance standards applied;
- Connection to emergency source of electrical power, gyro compass, speed log and GPS receiver;
- Display of latest ENC on the ECDIS and possession of ENC fully provided for intended voyages;
- Back-up arrangement complied with the requirement;
- When navigation charts are supplied as a backup, the charts should be updated; and
- Master and deck officer's Training certificates

9. Other information

- Refer to the attached IMO documentations,

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For your easy reference, you can download the present Newsletter 135/2015 through our webpage www.phrs.gr/eservices/index.aspx, where the certain document is located among others into: Tab Services / Files Download: @ PUBLIC

At this point, we would like to thank you for your kind attention remaining at your disposal for any further clarification and/or further assistance you may need, without hesitating to contact with our Technical Dpt. (mail@phrs.gr).

PH.R.S. Head Office – July 9th, 2015