

Attachment: Guidance for ECDIS installation

1. Guidance

(1) General:

- (i) ECDIS shall be supplied by an emergency source of electrical power;
- (ii) ECDIS is required to connect to Radar (video and ARPA information) and AIS as well as gyro compass, speed log and GPS receiver. This requirement is recommended to ECDIS for existing ships as far as practicable. Other navigation/radio equipment may be connected to ECDIS if the digital interfaces are available.

Please also refer to the ClassNK Technical Information TEC-0912 for displaying Radar video ;

- (iii) ECDIS software should be updated by the manufacturer's information or manuals; and
- (iv) When ships, not mandatory to be fitted with ECDIS, have ECDIS for navigation, ship should observe the instructions by the Flag State.

(2) Main ECDIS:

- (i) Main ECDIS shall be located in the area of wheelhouse forwards any curtain; and
- (ii) Main ECDIS is required to arrange an appropriate back-up. Back-up ECDIS prescribed on the type approval certificate of main ECDIS, or appropriate nautical charts are acceptable as a back-up arrangement for ECDIS.

(3) Back-up ECDIS

- (i) Back-up ECDIS combined with radar function cannot replace the mandatory radar required by Chapter V of SOLAS;
- (ii) Back-up ECDIS may be located anywhere in the wheelhouse, such a chart space;
- (iii) Operations of equipment shall be same as main ECDIS;
- (iv) Navigational information of main ECDIS shall be relayed to back-up ECDIS;
- (v) Electrical power supply of the back-up ECDIS should be separated from electrical power supply of the main ECDIS;
- (vi) Connection cables to gyro compass, speed log and GPS receiver shall be separated from connection cables for the main ECDIS; and
- (vii) Connection cable for interface between main ECDIS and back-up ECDIS shall be provided.

(4) Treatment of TCS using ECDIS connected to Auto pilot (HCS)

- (i) When TCS is installed on board the ship, the operation test on the sea trial shall be required. When TCS has been installed on board the existing ship, the drawings of installation and operation test procedures should be submitted to ClassNK Material and Equipment Department. After plan approval, the operation test at sea shall be performed with attendance of ClassNK Surveyor.
- (ii) A back-up navigator alarm shall be located in the captain room. This alarm may be connected to the BNWAS on board.