

- (4) Blocking diodes or similar arrangement shall be fitted to prevent mutual discharge between battery banks.
- (7) A battery cut-out switch shall be provided for all systems. It is preferable that this switch act as an isolator i.e. it is double pole, however if a battery change-over switch is fitted which is provided with an "off" position this may also be accepted.
- (8) A mixture of lead-acid and nickel-alkaline batteries shall not be permitted.
- (9) The battery installation shall be so designed as to ensure that when one set of batteries is used for the vessel lighting and general service requirements, the other set shall be charged and available for engine starting and communications and isolated from the vessel lighting and general service requirements.
- (10) Batteries shall be firmly secured in covered battery boxes.
- (11) Batteries boxes shall be ventilated and care shall be taken to remove potential sources of ignition or arcing contacts.
- (12) Batteries shall not be located in accommodation spaces.
- (13) Batteries required for communications shall not be located below the waterline of the vessel when in a fully loaded condition.

## **75. Distribution**

- (1) Consideration shall be given to the location of electrical equipment away from potential hazards and to facilitate maintenance.
- (2) The radio installation switchboard shall be separate from the main