

may delay the application of the requirement for an automatic keying device in the case of new equipment for a period not exceeding one year from the date of coming into force of the present Convention, and in the case of existing equipment for a period not exceeding three years from the date of coming into force of the present Convention.

(c) In new equipment, the note frequency shall be between 450 and 1,350 cycles per second.

(d) The apparatus shall be readily portable, watertight and capable of floating in sea water and also capable of being dropped into the sea without damage.

(e) The transmitter shall have at least 10 watts input to the anode of the final stage, and shall preferably derive its power from a hand generator. If operated from batteries these shall comply with conditions laid down by the Administration to ensure that the batteries are of a durable type and are of sufficient capacity.

(f) An aerial shall be included, either self-supporting or capable of being supported by the mast of the lifeboat at the maximum practicable height.

(g) At sea a qualified operator shall at weekly intervals bring the battery up to full charge if the battery is of a type which requires charging and in any case shall test the transmitter, using a suitable artificial aerial.

(h) For the purpose of this Regulation, new equipment means equipment supplied to a ship after the present Convention comes into force.

## Regulation 15

### *Radiotelephone Installations*

(a) The ship's radiotelephone station shall be in the upper part of the ship, and, unless situated on the bridge, there shall be efficient communication with the bridge.

(b) The installation shall be capable of transmitting and receiving radiotelephony on the radiotelephone distress frequency and on at least one other frequency available for maritime radiotelephone stations in the medium frequency band under the Radio Regulations. In normal operation the depth of modulation shall be at least 70 per cent. at peak intensity.

(c) The transmitter shall have a minimum normal range of 150 miles, *i.e.*, it shall be capable of transmitting clearly perceptible signals from ship to ship by day and under normal conditions and circumstances over this range. (Clearly perceptible signals will normally be received if the R.M.S. value of the field strength produced at the receiver by the unmodulated carrier is at least 25 microvolts per metre).\*

(d) The receiver shall have sufficient sensitivity to receive an incoming signal as low as 50 microvolts by means of a loudspeaker.

(e) While the ship is at sea, there shall be available at all times a source of energy sufficient to operate the installation over the normal range required by paragraph (c) of this Regulation. If batteries are provided they shall have sufficient capacity to operate the transmitter and receiver for at least six hours continuously under normal working conditions. In new installations an

\* In the absence of field strength measurements it may be assumed that this range will be obtained by a power in the aerial of 15 watts (unmodulated carrier) with an aerial efficiency of 27 per cent.