

Federal Communications Commission

§ 80.855

(e) These exemptions may be terminated at any time without hearing if, in the Commission's discretion, the need for such action arises.

[51 FR 31213, Sept. 2, 1986, as amended at 56 FR 19301, Apr. 26, 1991; 60 FR 58244, Nov. 27, 1995; 61 FR 19559, May 2, 1996, 63 FR 36607, July 7, 1998]

Subpart R—Compulsory Radiotelephone Installations for Vessels 300 Gross Tons

§ 80.851 Applicability.

(a) The radiotelephone requirements of Part II of Title III of the Communications Act apply to cargo ships of 300 gross tons and upward but less than 1600 gross tons. The radiotelephone requirements of the Safety Convention apply to passenger ships irrespective of size and cargo ships of 300 gross tons and upward on international voyages. These ships are required to carry a radiotelephone installation complying with this subpart.

(b) Until February 1, 1999, the inspection of all cargo vessels equipped with a radiotelephone installation operated on domestic or international voyages must be conducted by an FCC-licensed technician in accordance with § 80.59 once every 12 months. If the ship passes the inspection the technician will issue a Safety Certificate. Cargo Ship Safety Radio Certificates may be obtained from the Commission's National Call Center—(888) 225-5322—or from its forms contractor.

[51 FR 31213, Sept. 2, 1986, as amended at 63 FR 29660, June 1, 1998]

§ 80.853 Radiotelephone station.

(a) The radiotelephone station is a radiotelephone installation and other equipment necessary for the proper operation of the installation.

(b) The radiotelephone station must be installed to insure safe and effective operation of the equipment and to facilitate repair. Adequate protection must be provided against the effects of vibration, moisture, and temperature.

(c) The radiotelephone station and all necessary controls must be located at the level of the main wheelhouse or at least one deck above the ship's main deck.

(d) The principal operating position of the radiotelephone station must be in the room from which the ship is normally steered while at sea. In installations on cargo ships of 300 gross tons and upwards but less than 500 gross tons on which the keel was laid prior to January 1, 1965, the location of the principal operating controls may be in a room adjoining and opening into the room from which the vessel is normally steered while at sea. If the station can be operated from any location other than the principal operating position, a positive means must be provided at the principal operating position to take full control of the station.

(e) The use of a independent communication system between the principal operating position and all other operating locations is acceptable as a method for taking control at the principal operating position. For stations first placed in service on or after June 1, 1956 the use of this method for taking control at the principal operating position is acceptable only for operating locations in the chartroom or master's quarters.

§ 80.854 Radiotelephone installation.

The radiotelephone installation includes:

- (a) A radiotelephone transmitter;
- (b) A receiver as specified in § 80.858(a);
- (c) A radiotelephone distress frequency watch receiver specified in § 80.269;
- (d) A main source of energy;
- (e) A reserve source of energy, when required by § 80.860(a);
- (f) An antenna system.

§ 80.855 Radiotelephone transmitter.

(a) The transmitter must be capable of transmission of H3E and J3E emission on 2182 kHz, and J3E emission on 2638 kHz and at least two other frequencies within the band 1605 to 3500 kHz available for ship-to-shore or ship-to-ship communication.

(b) The duty cycle of the transmitter must permit transmission of the international radiotelephone alarm signal.

(c) The transmitter must be capable of transmitting clearly perceptible signals from ship to ship during daytime

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under normal conditions over a range of 150 nautical miles.

(d) The transmitter complies with the range requirement specified in paragraph (c) of this section if:

(1) The transmitter is capable of being matched to actual ship station transmitting antenna meeting the requirements of §80.863; and

(2) The output power is not less than 60 watts peak envelope power for H3E and J3E emission on the frequency 2182 kHz and for J3E emission on the frequency 2638 kHz into either an artificial antenna consisting of a series network of 10 ohms resistance and 200 picofarads capacitance, or an artificial antenna of 50 ohms nominal impedance. An individual demonstration of the power output capability of the transmitter, with the radiotelephone installation normally installed on board ship, may be required.

(e) The transmitter must provide visual indication whenever the transmitter is supplying power to the antenna.

(f) The transmitter must be protected from excessive currents and voltages.

(g) A durable nameplate must be mounted on the transmitter or made an integral part of it showing clearly the name of the transmitter manufacturer and the type or model of the transmitter.

(h) An artificial antenna must be provided to permit weekly checks of the automatic device for generating the radiotelephone alarm signal on frequencies other than the radiotelephone distress frequency.

§ 80.856 Automatic radiotelephone alarm signal generator.

The transmitter must be equipped with an international radiotelephone alarm signal generator certificated by the Commission. See §80.221.

[51 FR 31213, Sept. 2, 1986, as amended at 63 FR 36607, July 7, 1998]

§ 80.857 Installation of automatic radiotelephone alarm signal generator.

The controls of the automatic radiotelephone alarm signal generator required by §80.856 must be located at the principal radiotelephone operating position only. The controls must permit

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instant use of this device to modulate the required transmitter and permit the device to be taken out of operation at any time so that the transmitter may be immediately voice modulated for transmission of a distress call and message.

§ 80.858 Radiotelephone receiver.

(a) The receiver required by §80.854(a) of this part must be capable of reception of H3E and J3E emissions on the radiotelephone distress frequency. The receiver must be capable of reception of J3E emissions on 2638 kHz and the receiving frequencies associated with the transmitting frequencies authorized pursuant to §80.855(a).

(b) In addition to the receiver required by paragraph (a) of this section, a radiotelephone distress frequency watch receiver meeting the technical standards of §80.269 must be provided.

(c) One or more loudspeakers capable of being used to maintain the distress frequency (2182 kHz) watch at the principal operating position and at any other place where the listening watch is performed must be provided.

(d) The receiver required by paragraph (a) of the section must:

(1) Have a sensitivity of 50 microvolts;

(2) Be capable of operation when energized by the main source of energy, and by the reserve source of energy if a reserve source is required by §80.860(a);

(3) Be protected from excessive currents and voltages;

(4) Be provided with a nameplate showing the name of the receiver manufacturer and the type or model.

(e) The sensitivity of a receiver is the strength in microvolts of a signal, modulated 30 percent at 400 cycles per second, required at the receiver input to produce an audio output of 50 milliwatts to the loudspeaker with a signal-to-noise ratio of at least 6 decibels. Evidence of a manufacturer's rating or a demonstration of the sensitivity of a required receiver computed on this basis must be furnished upon request of a Commission representative.