§ 80.271  Technical requirements for portable survival craft radiotelephone transceivers.

(a) Portable survival craft radiotelephone transceivers must comply with the following:

1. The transceivers must receive and transmit either on 457.525 MHz or on 156.800 MHz.

2. The receiver must comply with the requirements in part 15, subpart C of this chapter and must have a sensitivity of not more than 2 microvolts. The sensitivity requirement must be met using the receiver sensitivity measurement procedure specified in the Radio Technical Commission for Marine Services (RTCM) Special Committee No. 66 Report MMS-R2.

3. The effective radiated power of the transmitter must be at least 0.1 watt.

4. The transceivers must be battery powered and operate for at least four hours without recharging.

(b) The radiotelephone installation must be located in the radiotelegraph operating room or in the room from which the ship is normally steered.

(c) Demonstration of the radiotelephone installation may be required by Commission representatives to show compliance with applicable regulations.

(d) The radiotelephone installation must be protected from excessive currents and voltages.

(e) The radiotelephone installation must be maintained in an efficient condition.

hours with a transmit to receive ratio of 1:9 with no significant adverse effect upon the performance of the device;

(5) The transceivers must have a permanently attached waterproof label with the statement "Complies with the FCC requirements for survival craft two-way radiotelephone equipment"; and

(6) The antenna must be permanently attached to the device or its removal must require the use of a special tool.

(b) Portable radiotelephone transceivers that are already certificated may be used to satisfy the survival craft radiotelephone requirement until October 1, 1993, provided the device meets the technical requirements in paragraphs (a) (1) through (3) of this section.

(c) Survival craft radiotelephone equipment installed after October 1, 1988, must be certificated to meet the requirements of this section.

(d) After October 1, 1993, all portable radiotelephone transceivers that are used to satisfy the survival craft radiotelephone requirement must have been certificated to meet the requirements of this section.

(e) Portable radiotelephone transceivers which are certified to meet the requirements of this section must be identified by an appropriate note in the Commission's database.

§ 80.273 Technical requirements for radar equipment.

(a) Radar installations on board ships that are required by the Safety Convention or the U.S. Coast Guard to be equipped with radar must comply with the documents referenced in the following paragraphs of this section. These documents contain specifications, standards and general requirements applicable to shipboard radar equipment and shipboard radar installations. For purposes of this part the specifications, standards and general requirements stated in these documents are mandatory irrespective of discretionary language. The standards listed in this section are incorporated by reference. The Director of the Federal Register approves this incorporation by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies of these standards can be inspected at the Federal Communications Commission, 445 12th Street, SW., Washington, DC (Reference Information Center) or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html. The IMO standards can be purchased from International Maritime Organization (IMO), Publications, International Maritime Organization, 4 Albert Embankment, London SE1 7SR, United Kingdom; telephone 011 44 71 735 7611. IEC publications can be purchased from the International Electrotechnical Commission, 3 Rue de Varembe, CH–1211 Geneva 20, Switzerland, or from the American National Standards Institute (ANSI) through its NSSN operation (www.nssn.org), at Customer Service, American National Standards Institute, 25 West 43rd Street, New York, NY 10036, telephone (212) 642-4900. ITU documents can be purchased from the International Telecommunication Union (ITU), Place des Nations, CH–1211 Geneva 20, Switzerland (www.itu.int.)

(b) Radar installed on or after March 25, 2008 on ships of 300 tons gross tonnage and upwards, and radar installed on a ship after March 25, 2008, and certificated by the U.S. Coast Guard under the IMO Code for the Safety of High Speed Craft (Resolution MSC.36(63), May 20, 1994, with Supplement (2002)) must comply with:


(2) The emission limits contained in ITU Radio Regulations, Appendices Edition of 2004, Appendix 3 (Rev. WRC–03), “Tables of maximum permitted power levels for spurious or spurious domain emissions,” Section II—“Spurious domain emission limits for transmitters installed after 1 January 2003 and for all transmitters after 1 January 2012,” including Annex 1; and