

(d) The antenna power must be determined at the operating carrier frequency by the product of the antenna resistance and the square of the average antenna current, both measured at the same point in the antenna circuit at approximately ground potential.

(e) A main transmitter producing more than 250 watts output power must have the output power reduced to not more than 150 watts when used for telegraphy. In stations where a separate telegraph transmitter operable on the same frequencies as the main transmitter with an output power of less than 250 watts, is installed, the power reduction requirement does not apply.

Such separate transmitters must not obtain power from the emergency power supply.

[51 FR 31213, Sept. 2, 1986, as amended at 63 FR 36606, July 7, 1998]

EFFECTIVE DATE NOTE: At 68 FR 46966, Aug. 7, 2003, §80.253 was removed effective October 6, 2003.

§ 80.255 Technical requirements for reserve transmitter.

(a) The following table describes the operating carrier frequency, emission, modulation and average ship station antenna power requirements for the reserve transmitter.

Operating frequency (kHz)	Frequency tolerance		Class of emission	Percentage modulation for amplitude modulation	Modulation for frequency for amplitude modulation	Power into an average ship station antenna
	Parts ¹ in 10 ⁶	Hz ²				
500	³ 1,000	20	A2A and A2B or H2A and H2B.	Not less than 70; not more than 100.	At least 1 frequency between 300 and 1250 Hertz except for transmitters installed after July 1, 1951, at least 1 frequency between 450 and 1250 Hertz.	Not less than 25 watts.
410 and 1 working frequency in the band 415 to 525.	³ 1,000	20	A2A and A3N or H2A and H3N.dododo

¹ For equipment approved before November 30, 1977.
² For equipment approved after November 29, 1977.
³ Except for reserve transmitters whose use is confined solely to safety communications. Such transmitters must maintain a frequency tolerance of 3000 parts in 10.³

(b) A reserve transmitter must operate at its required antenna power when adjusted to the operating frequency and energized by the reserve power supply of the ship station or by an equivalent power supply.

(c) A reserve transmitter must be equipped to measure antenna current.

(d) The antenna power must be determined at the operating carrier frequency by the product of the antenna resistance and the square of the average antenna current both measured at the same point in the antenna circuit at approximately ground potential.

[51 FR 31213, Sept. 2, 1986, as amended at 63 FR 36606, July 7, 1998]

EFFECTIVE DATE NOTE: At 68 FR 46966, Aug. 7, 2003, §80.255 was removed effective October 6, 2003.

§ 80.257 Manufacturing requirements for radiotelegraph automatic alarm receiver (auto alarm).

(a) The auto alarm must consist of:

(1) A radio receiver capable of receiving emissions of classes A1A, A1B, A2A, A2B, H2A, H2B, J2A, and J2B over the frequency range 496 through 504 kHz.

(i) The receiver must reject signals +106 dB above one microvolt at ±150 kHz from the center frequency and +88 dB above one microvolt at ±40 kHz from the center frequency.

(ii) The receiver must respond to signals from 100 microvolts to 1 volt on the center frequency. There must be less than 6 dB variation in sensitivity from 496 kHz through 504 kHz.

(2) A device capable of selecting the alarm signal specified under §80.259 (a) and (b).

(3) A minimum of 3 audible alarm units to meet the three location installation requirements of §80.259(g).