

Federal Communications Commission

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position must stop the distress transmission and permit the transmitter to be used to send and receive standard voice communications.

(5) Use of the microphone must cause the synthesized voice distress transmission to cease and allow the immediate use of the transmitter for sending and receiving standard voice communications.

(6) No ship station shall include any device or provision capable of transmitting any tone or signal on a distress frequency for any purpose unless specific provisions exist in this part authorizing such tone or signal.

(n) Applications for certification of all marine radio transmitters operating in the 2–27.5 MHz band or the 156–162 MHz band received on or after June 17, 1999, must have a DSC capability in accordance with §80.225. This requirement does not apply to transmitters used with AMTS or hand-held portable transmitters.

(o) Existing equipment that does not comply with the rules in this subpart but was properly authorized as compliant with the rules in effect at the time of its authorization, and remains compliant with the rules in effect at the time of its authorization, may continue to be installed until February 1, 2003.

[51 FR 31213, Sept. 2, 1986, as amended at 53 FR 41434, Oct. 28, 1987; 53 FR 37308, Sept. 26, 1988; 54 FR 31839, Aug. 2, 1989; 56 FR 3787, Jan. 31, 1991; 56 FR 57496, Nov. 12, 1991; 56 FR 57988, Nov. 15, 1991; 57 FR 8727, Mar. 12, 1992; 62 FR 40305, July 28, 1997; 63 FR 36606, July 7, 1998; 68 FR 46962, Aug. 7, 2003; 69 FR 64672, Nov. 8, 2004; 73 FR 4481, Jan. 25, 2008; 78 FR 23156, Apr. 18, 2013; 78 FR 25175, Apr. 29, 2013]

§ 80.205 Bandwidths.

(a) An emission designator shows the necessary bandwidth for each class of emission of a station except that in ship earth stations it shows the occupied or necessary bandwidth, whichever is greater. The following table gives the class of emission and corresponding emission designator and authorized bandwidth:

Class of emission	Emission designator	Authorized bandwidth (kHz)
A1A	160HA1A	0.4
A1B ¹	160HA1B	0.4
A1D ¹²	16K0A1D	20.0

Class of emission	Emission designator	Authorized bandwidth (kHz)
A2A	2K66A2A	2.8
A2B ¹	2K66A2B	2.8
A2D ¹²	16K0A2D	20.0
A3E	6K00A3E	8.0
A3N ²	2K66A3N	2.8
A3X ³	3K20A3X	25.0
F1B ⁴	280HF1B	0.3
F1B ⁵	300HF1B	0.5
F1B ⁶	16K0F1B	20.0
F1C	2K80F1C	3.0
F1D ¹²	16K0F1D	20.0
F2B ⁶	16K0F2B	20.0
F2C ⁷	16K0F2C	20.0
F2D ¹²	16K0F2D	20.0
F3C	2K80F3C	3.0
F3C ⁷	16K0F3C	20.0
F3E ⁸	16K0F3E	20.0
F3N ⁹	20M0F3N	20,000.0
G1D ¹²	16K0G1D	20.0
G2D ¹²	16K0G2D	20.0
G3D ¹⁰	16K0G3D	20.0
G3E ⁸	16K0G3E	20.0
G3N ^{3 13}	16K0G3N	20.0
H2A	1K40H2A	2.8
H2B ¹	1K40H2B	2.8
H3E ¹¹	2K80H3E	3.0
H3N	2K66H3N	2.8
J2A	160HJ2A	0.4
J2B ⁴	280HJ2B	0.3
J2B ⁵	300HJ2B	0.5
J2B	2K80J2B	3.0
J2C	2K80J2C	3.0
J2D ¹⁴	2K80J2D	3.0
J3C	2K80J3C	3.0
J3E ¹¹	2K80J3E	3.0
J3N	160HJ3N	0.4
NON	NON	0.4
PON	(¹²)	(¹²)
R3E ¹¹	2K80R3E	3.0

¹ On 500 kHz and 2182 kHz A1B, A2B, H2B and J2B emissions indicate transmission of the auto alarm signals.

² Applicable only to transmissions in the 405–525 kHz band for direction finding.

³ Applicable only to EPIRB's.

⁴ Radioprinter transmissions for communications with private coast stations.

⁵ NB-DP radiotelegraph and data transmissions for communications with public coast stations.

⁶ Applicable only to radioprinter and data in the 156–162 MHz band and radioprinter in the 216–220 MHz band.

⁷ Applicable only to facsimile in the 156–162 MHz and 216–220 MHz bands.

⁸ Applicable only when maximum frequency deviation is 5 kHz. See also paragraph (b) of this section.

⁹ Applicable only to marine hand-held radar.

¹⁰ Applicable only to on-board frequencies for maneuvering or navigation.

¹¹ Transmitters approved prior to December 31, 1969, for emission H3E, J3E and R3E and an authorized bandwidth of 3.5 kHz may continue to be operated. These transmitters will not be authorized in new installations.

¹² Applicable to radiolocation and associated telecommand ship stations operating on 154.585 MHz, 159.480 MHz, 160.725 MHz, 160.785 MHz, 454.000 MHz, and 459.000 MHz; emergency position indicating radiobeacons operating in the 406.000–406.1000 MHz frequency bank; and data transmissions in the 156–162 MHz band.

¹³ [Reserved]

¹⁴ The information is contained in multiple very low level subcarriers.

(b) For land stations the maximum authorized frequency deviation for F3E or G3E emission is as follows:

- (1) 5 kHz in the 72.0–73.0 MHz, 75.4–76.0 MHz and 156–162 MHz bands;

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(2) 15 kHz for stations which were authorized for operation before December 1, 1961, in the 73.0–74.6 MHz band.

[51 FR 31213, Sept. 2, 1986, as amended at 52 FR 7418, Mar. 11, 1987; 53 FR 37308, Sept. 26, 1988; 56 FR 11516, Mar. 19, 1991; 57 FR 43407, Sept. 21, 1992; 58 FR 33344, June 17, 1993; 59 FR 7714, Feb. 16, 1994; 62 FR 40305, July 28, 1997; 63 FR 36606, July 7, 1998; 68 FR 46962, Aug. 7, 2003; 76 FR 67611, Nov. 2, 2011]

§ 80.207 Classes of emission.

(a) Authorization to use radiotelephone and radiotelegraph emissions by ship and coast stations includes the use of digital selective calling and selective calling techniques in accordance with §80.225.

(b) In radiotelegraphy communications employing a modulated carrier the carrier must be keyed and modulated by an audio frequency.

(c) Authorization to use single sideband emission is limited to emitting a carrier;

(1) For full carrier transmitters at a power level between 3 and 6 dB below peak envelope power;

(2) For suppressed carrier transmitters at a power level at least 40 dB below peak envelope power; and

(3) For reduced or variable level carrier:

(i) In the 1600–4000 kHz band:

(A) For coast station transmitters 18±2 dB below peak envelope power;

(B) For ship station transmitters installed before January 2, 1982, 16±2 dB below peak envelope power; and

(C) For ship station transmitters installed after January 1, 1982, 18±2 dB below peak envelope power.

(ii) In the 4000–27500 kHz band:

(A) For coast station transmitters 18±2 dB below peak envelope power;

(B) For ship station transmitters installed before January 2, 1978, 16±2 dB below peak envelope power; and

(C) For ship station transmitters installed after January 1, 1978, 18±2 dB below peak envelope power.

(d) The authorized classes of emission are as follows:

Types of stations	Classes of emission
Ship Stations ¹	
Radiotelegraphy:	
100–160 kHz	A1A.
405–525 kHz	A1A, J2A.
1615–27500 kHz:	
Manual ^{15 16 17}	A1A, J2A, J2B, J2D.
DSC ⁶	F1B, J2B.
NB–DP ^{14 16}	F1B, J2B, J2D.
Facsimile	F1C, F3C, J2C, J3C.
156–162 MHz ²	F1B, F2B, F2C, F3C, F1D, F2D.
DSC	G2B.
216–220 MHz ³	F1B, F2B, F2C, F3C.
1626.5–1646.5 MHz	(⁴).
Radiotelephony:	
1615–27500 kHz ¹⁶	H3E, J2D, J3E, R3E.
27.5–470 MHz ⁶	G3D, G3E.
1626.5–1646.5 MHz	(⁴).
Radiodetermination:	
285–325 kHz ⁷	A1A, A2A.
405–525 kHz (Direction Finding) ⁸	A3N, H3N, J3N, NON.
154–459 MHz: ¹²	A1D, A2D, F1D, F2D, G1D, G2D.
2.4–9.5 GHz	PON.
Land Stations ¹	
Radiotelegraphy:	
100–160 kHz	A1A.
405–525 kHz	A1A, J2A.
1605–2850 kHz:	
Manual	A1A, J2A.
Facsimile	F1C, F3C, J2C, J3C.
Alaska-Fixed	A1A, J2A.
4000–27500 kHz:	
Manual ¹⁶	A1A, J2A, J2B, J2D.
DSC ¹⁸	F1B, J2B.
NB–DP ^{14 18}	F1B, J2B, J2D.
Facsimile	F1C, F3C, J2C, J3C.
Alaska-Fixed ^{17 18}	A1A, A2A, F1B, F2B, J2B, J2D.
72–76 MHz	A1A, A2A, F1B, F2B.