

§ 80.205

47 CFR Ch. I (10–1–12 Edition)

(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]

§ 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 |
| 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 |

| Class of emission | Emission designator | Authorized bandwidth (kHz) |
|---------------------|---------------------|----------------------------|
| 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;
- (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]