

§ 22.911

47 CFR Ch. I (10-1-00 Edition)

“Common Carrier Public Mobile Services Information, Cellular MSA/RSA Markets and Counties”, dated January 24, 1992, DA 92-109, 7 FCC Rcd 742 (1992).

(a) MSAs. Metropolitan Statistical Areas are 306 areas, including New England County Metropolitan Areas and the Gulf of Mexico Service Area (water area of the Gulf of Mexico, border is the coastline), defined by the Office of Management and Budget, as modified by the FCC.

(b) RSAs. Rural Service Areas are 428 areas, other than MSAs, established by the FCC.

§ 22.911 Cellular geographic service area.

The Cellular Geographic Service Area (CGSA) of a cellular system is the geographic area considered by the FCC to be served by the cellular system. The CGSA is the area within which cellular systems are entitled to protection and within which adverse effects for the purpose of determining whether a petitioner has standing are recognized.

(a) CGSA determination. The CGSA is the composite of the service areas of all of the cells in the system, excluding any area outside the cellular market boundary, except as provided in paragraph (c) of this section, and excluding any area within the CGSA of another cellular system. The service area of a cell is the area within its service area boundary (SAB). The distance to the SAB is calculated as a function of effective radiated power (ERP) and antenna center of radiation height above average terrain (HAAT), height above sea level (HASL) or height above mean sea level (HAMSL).

(1) Except as provided in paragraphs (a)(2) and (b) of this section, the distance from a cell transmitting antenna to its SAB along each cardinal radial is calculated as follows:

d=2.531xh^{0.34} xp^{0.17}

where:

d is the radial distance in kilometers
h is the radial antenna HAAT in meters
p is the radial ERP in Watts

(2) For the cellular systems authorized to serve the Gulf of Mexico MSA, the distance from a cell transmitting

antenna to its SAB along each cardinal radial is calculated as follows:

d=6.895xh^{0.30} xp^{0.15}

where:

d is the radial distance in kilometers
h is the radial antenna HAAT in meters
p is the radial ERP in Watts

(3) The value used for h in the formula in paragraph (a)(2) of this section must not be less than 8 meters (26 feet) HASL (or HAMSL, as appropriate for the support structure). The value used for h in the formula in paragraph (a)(1) of this section must not be less than 30 meters (98 feet) HAAT, except that for unserved area applications proposing a cell with an ERP not exceeding 10 Watts, the value for h used in the formula in paragraph (a)(1) of this section to determine the service area boundary for that cell may be less than 30 meters (98 feet) HAAT, but not less than 3 meters (10 feet) HAAT.

(4) The value used for p in the formulas in paragraphs (a)(1) and (a)(2) of this section must not be less than 0.1 Watt or 27 dB less than (1/500 of) the maximum ERP in any direction, whichever is more.

(5) Whenever use of the formula in paragraph (a)(1) of this section pursuant to the exception contained in paragraph (a)(3) of this section results in a calculated distance that is less than 5.4 kilometers (3.4 miles), the radial distance to the service area boundary is deemed to be 5.4 kilometers (3.4 miles).

(6) The distance from a cell transmitting antenna to the SAB along any radial other than the eight cardinal radials is calculated by linear interpolation of distance as a function of angle.

NOTE TO PARAGRAPH (A) OF § 22.911: On May 13, 1994, the United States Court of Appeals for the District of Columbia Circuit instructed the FCC to vacate the provisions of old § 22.903(a), now § 22.911(a), insofar as they apply to cellular systems licensed to serve the Gulf of Mexico MSA (GMSA), pending reconsideration of an issue remanded to the FCC in that decision. See *Petroleum Communications, Inc. v. Federal Communications Commission*, No. 92-1670 and *RVC Services, Inc., D/B/A Coastel Communications Company v. Federal Communications Commission*, No. 93-1016, ___ F.2d ___, ___ (D.C. Cir. 1994). Accordingly, notwithstanding the provisions of