

## § 21.1

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AUTHORITY: Secs. 1, 2, 4, 201–205, 208, 215, 218, 303, 307, 313, 403, 404, 410, 602, 48 Stat. as amended, 1064, 1066, 1070–1073, 1076, 1077, 1080, 1082, 1083, 1087, 1094, 1098, 1102; 47 U.S.C. 151, 154, 201–205, 208, 215, 218, 303, 307, 313, 314, 403, 404, 602; 47 U.S.C. 552, 554.

SOURCE: 44 FR 60534, Oct. 19, 1979, unless otherwise noted.

### Subpart A—General

#### § 21.1 Scope and authority.

(a) The purpose of the rules and regulations in this part is to prescribe the manner in which portions of the radio spectrum may be made available for domestic communication common carrier and multipoint distribution service non-common carrier operations which require transmitting facilities on land or in specified offshore coastal areas within the continental shelf.

(b) The rules in this part are issued pursuant to the authority contained in Titles I through III of the Communications Act of 1934, as amended, which vest authority in the Federal Communications Commission to regulate common carriers of interstate and foreign communications, to regulate radio

transmissions and issue licenses for radio stations, and to regulate all interstate and foreign communications by wire and radio necessary to the accomplishment of the purposes of the Act.

(c) Unless otherwise specified, the section numbers referenced in this part are contained in chapter I, title 47 of the Code of Federal Regulations.

[52 FR 37776, Oct. 9, 1987]

#### § 21.2 Definitions.

As used in this part:

*Antenna power gain.* The square of the ratio of the root-mean-square free space field intensity produced at one mile in the horizontal plane, in millivolts per meter for one kilowatt antenna input power to 137.6 mV/m. This ratio should be expressed in decibels (dB). (If specified for a particular direction, antenna power gain is based on the field strength in that direction only.)

*Antenna power input.* The radio frequency peak or RMS power, as the case may be, supplied to the antenna from the antenna transmission line and its associated impedance matching network.

*Antenna structures.* The antenna, its supporting structure and anything attached to it.

*Assigned frequency.* The centre of the frequency band assigned to a station.

*Authorized bandwidth.* The maximum width of the band of frequencies permitted to be used by a station. This is normally considered to be the necessary or occupied bandwidth, whichever is greater.

*Authorized frequency.* The frequency, or frequency range, assigned to a station by the Commission and specified in the instrument of authorization.

*Authorized power.* The maximum power a station is permitted to use. This power is specified by the Commission in the station's authorization.

*Bandwidth occupied by an emission.* The band of frequencies comprising 99 percent of the total radiated power extended to include any discrete frequency on which the power is at least 0.25 percent of the total radiated power.

*Basic Trading Area (BTA).* The geographic areas by which the Multipoint