

**§§ 25.218–25.249**

**47 CFR Ch. I (10–1–03 Edition)**

the effective date of those rules, unless otherwise specified by either Commission or Bureau Order.

[68 FR 51508, Aug. 27, 2003]

**§§ 25.218–25.249 [Reserved]**

**§ 25.250 Sharing between NGSO MSS Feeder links Earth Stations in the 19.3–19.7 GHz and 29.1–29.5 GHz Bands.**

(a) NGSO MSS applicants shall be licensed to operate in the 29.1–29.5 GHz band for Earth-to-space transmissions and 19.3–19.7 GHz for space-to-Earth transmissions from feeder link earth station complexes. A “feeder link earth station complex” may include up to three (3) earth station groups, with each earth station group having up to four (4) antennas, located within a radius of 75 km of a given set of geographic coordinates provided by NGSO-MSS licensees or applicants.

(b) Licensees of NGSO MSS feeder link earth stations separated by 800 km or less are required to coordinate their operations, see §25.203. The results of the coordination shall be reported to the Commission.

[61 FR 44181, Aug. 28, 1996]

**§ 25.251 Special requirements for coordination.**

(a) The administrative aspects of the coordination process are set forth in §101.103 of this chapter in the case of coordination of terrestrial stations with earth stations, and in §25.203 in the case of coordination of earth stations with terrestrial stations.

(b) The technical aspects of coordination are based on Appendix S7 of the International Telecommunication Union Radio Regulations and certain recommendations of the ITU Radiocommunication Sector (available at the FCC’s Reference Information Center, Room CY-A257, 445 12th Street, SW., Washington, DC 20554).

[66 FR 10630, Feb. 16, 2001]

**§ 25.252 Special requirements for ancillary terrestrial components operating in the 2000–2020 MHz/2180–2200 MHz bands.**

(a) Applicants for an ancillary terrestrial component in these bands must

demonstrate that ATC base stations shall not:

(1) Exceed an EIRP of –100.6 dBW/4 kHz for out-of-channel emissions at the edge of the MSS licensee’s selected assignment.

(2) Exceed a peak EIRP of 27 dBW in 1.23 MHz.

(3) Exceed an EIRP toward the physical horizon (not to include man-made structures) of 25.5 dBW in 1.23 MHz.

(4) Be located less than 190 meters from all airport runways and aircraft stand areas, including takeoff and landing paths.

(5) Exceed an aggregate power flux density of –51.8 dBW/m<sup>2</sup> in a 1.23 MHz bandwidth at all airport runways and aircraft stand areas, including takeoff and landing paths and all ATC base station antennas shall have an overhead gain suppression according to the following.

(6) Be located less than 820 meters from a U.S. Earth Station facility operating in the 2200–2290 MHz band. In its MSS ATC application, the MSS licensee should request a list of operational stations in the 2200–2290 MHz band.

(7) Exceed an EIRP in the 1559–1610 MHz band of –70 dBW/MHz for wideband emissions and –80 dBW in the 1559–1605 MHz band for narrow-band emissions (discrete emissions of less than 700 Hz bandwidth). The wideband EIRP level is to be measured using a root mean square (RMS) detector function with a resolution bandwidth of 1 MHz or equivalent and the video bandwidth is not less than the resolution bandwidth. The narrowband EIRP level is to be measured using an RMS detector function with a resolution bandwidth of 1 kHz or equivalent. The measurements are to be made over a 20 millisecond averaging period when the base station is transmitting.

(8) Use ATC base station antennas that have a gain greater than 17 dBi and must have an overhead gain suppression according to the following: