−18	dBW/4 kHz	For	48° <θ ≤180°

where θ is defined in paragraph (c)(2) of this section. For the purposes of this section, the envelope may be exceeded by no more than 10% of the sidelobes provided no individual sidelobe exceeds the envelope given above by more than 6 dB. The region of the main reflector spillover energy is to be interpreted as a single lobe and shall not exceed the envelope by more than 6 dB.

(h) *Extended Ku-band digital earth station operations.* (1) In the plane of the geostationary satellite orbit as it appears at the particular earth station location:

$15–10\log_{10}(N)–25\log_{10}\theta$	dBW/4 kHz	For	1.5° ≤θ ≤7°
$-6–10\log_{10}(N)$	dBW/4 kHz	For	7° <θ ≤9.2°
$18–10\log_{10}(N)–25\log_{10}\theta$	dBW/4 kHz	For	9.2° <θ ≤48°
$-24–10\log_{10}(N)$	dBW/4 kHz	For	48° <θ ≤180°

where θ and the plane of the geostationary satellite orbit are defined in paragraph (c)(1) of this section, and N is defined below. For the purposes of this section, the peak EIRP density of an individual sidelobe may not exceed the envelope defined above for θ between 1.5° and 7.0°. For θ greater than 7.0°, the envelope may be exceeded by no more than 10% of the sidelobes, provided no individual sidelobe exceeds the envelope given above by more than 3 dB. For digital SCPC using frequency division multiple access (FDMA) or time division multiple access (TDMA) technique, N is equal to one. For digital SCPC using code division multiple access (CDMA) technique, N is the maximum number of co-frequency simultaneously transmitting earth stations in the same satellite receiving beam.

(2) In all other directions, or in the plane of the horizon including any out-of-plane potential terrestrial interference paths:

$18–10\log_{10}(N)–25\log_{10}\theta$	dBW/4 kHz	For	3° ≤θ ≤48°
$-24–10\log_{10}(N)$	dBW/4 kHz	For	48° <θ ≤85°

where θ is defined in paragraph (c)(2) of this section and N is defined in paragraph (h)(1) of this section. For the purposes of this section, the envelope may be exceeded by no more than 10% of the sidelobes provided no individual sidelobe exceeds the envelope given above by more than 6 dB. The region of the main reflector spillover energy is to be interpreted as a single lobe and shall not exceed the envelope by more than 6 dB.

[73 FR 70902, Nov. 24, 2008, as amended at 74 FR 57099, Nov. 4, 2009; 78 FR 8429, Feb. 6, 2013; 78 FR 14927, Mar. 8, 2013; 79 FR 8324, Feb. 12, 2014]

EFFECTIVE DATE NOTE: At 74 FR 9962, Mar. 9, 2009, §25.218, which contains information collection and recordkeeping requirements, became effective with approval by the Office of Management and Budget for a period of 3 years.

§ 25.219 [Reserved]

§ 25.220 Non-conforming transmit/receive earth station operations.

(a)(1) The requirements in this section apply to earth station applications of the types to which §25.218 applies but that propose operation outside of relevant off-axis EIRP density envelopes specified in §25.218. This section also applies to applications for full-transponder analog video earth stations that are ineligible for routine licensing under §25.211(d).

(2) The requirements for petitions to deny applications filed pursuant to this section are set forth in §25.154.

(b) If an antenna proposed for use by the applicant does not comply with the antenna performance standards contained in §25.209(a) and (b), the applicant must provide, as an exhibit to its FCC Form 312 application, the antenna gain patterns specified in §25.132(b).