

FCC File #: 0446-EX-ST-2003

Reference #: 2774

The requested Transmitter Section information is set forth as follows, updated to specify Peak ERP from the attachment previously submitted as an amendment to the above-referenced application. The peak power specified is the peak power established in the far field of the antenna and in the direction of the satellite. The far field range at each frequency, in the direction of the specified 2.4 meter parabolic antenna, is as follows:

6150 MHz - 236 meters
14,250 MHz - 547 meters
8150 MHz - 313 meters
6137.5 MHz - 236 meters
30500 MHz - 1171 meters

The far field range is defined as the formula $2*(D^2)/\text{Lambda}$, where D is the antenna diameter and Lambda is the wavelength of the frequency under consideration.;

Frequency	Peak ERP	Tolerances (in percent)	Emission Designators (necessary BW & 3 modulation symbols)	Radius of mobile operations
6150 MHz	66 dBW (3.98 MW)		80K0 – G1N	0.02 km (60ft)
14250 MHz	73 dBW (19.95 MW)		320K – G1N	0.02 km (60ft)
8150 MHz	70 dBW (10.0 MW)		160K – G1N	0.02 km (60ft)
6137.5 MHz	66 dBW (3.98 MW)		80K0 – G1N	0.02 km (60ft)
30500 MHz	70 dBW (10.0 MW)		1G25 – G1N	0.02 km (60ft)