



6210 Spine Rd. Boulder, CO 80301

Ph. (303)473-6956 Fax (303)437-6880

RF Exposure Calculations:

The following information provides the **minimum** separation distance for the highest gain antenna provide with the Ericsson RBS11X7 CDMA Base Station. The calculations are from **FCC OET 65 Appendix B, Table 1B** Guidelines for General Population/Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0 mW/cm² uncontrolled exposure limit. The Friss formula used was:

$$S = (P_o * G) / (4 * \pi * r^2)$$

Where S = 1.0 mW/cm² for 1900 MHz

Where P_o = 20,000 mW (Peak RF)

Where G = Isotropic antenna gain (numeric)

Where r = Minimum Safe Distance from antenna (cm)

For: 16 dB gain Antenna - r = 600cm