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RF Exposure Calculations:

The following information provides the **minimum** separation distance for the highest gain antenna provide with the Ericsson RBS1130 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:

$S = (Po*G)/(4*Pi*r^2)$

Where S = 1.0 mW/cm² for 1900 MHz
Where Po = 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 = 250cm