



RF Exposure Limits

February 8, 2007

Federal Communications Commission
Equipment Approval Services
P.O. Box 258315
Pittsburgh, PA 15251-5315

Subject: RF Radiation Exposure Limits
FCC ID: RD60PW1C0010

The limits on RF exposure is specified in Title 47 Part 1 Section 1310. For a transmitter operating at 1900MHz, the limit is 5.0 mW/cm² for Occupational/Controlled Exposures.

Calculating the minimum safe distance:

$$D = \sqrt{10^{((P+G)/10)} / (4 \cdot \pi \cdot \text{Limit})}$$

where

D = Minimum Safe Distance (cm)

G = Antenna Gain 10 (dBi)

P = Transmitted Power -10 (dBm)

Limit= 5 mW/cm²

For TX power of -10dBm with an antenna gain of 10 dBi, the minimum safe distance is 0.12 cm.

This will be installed and setup by trained technicians, and will be connected to an external antenna that will typically be located at the top of a large tower, thereby mitigating any exposure risk.

Please contact me if you need any additional information.

Sincerely,

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