

Attn: Application Examiner, Reviewing Engineer

The following is the SAR calculation for the FlexWave[™] Prism – Cellular, FCC ID: F8I-PRSM084A, using the system's maximum RF emission. The calculation is based on FCC 47CFR Part 2 and OET 65.

Per OET 65: Maximum Permissible Exposure is Freq. (MHz)/1500 = MPE mW/cm² 869 MHz/1500= 0.5793 mW/cm²

The following equations determine the distance from the antenna that the power density is $\leq 0.5793 \text{ mW/cm}^2$.

+47.35 dBm Transmitter Power (Max) 12.65 dBi Antenna Gain (Max) 47.35 dBm + 12.65 dBi= +60 dBm EIRP +60 dBm EIRP = 1000 Watts EIRP 1000 Watts EIRP = 1000*10³ mWatts EIRP 0.5793 mW/cm² = 1000*10³ mW/(4* π *r²) r = SQR(1000*10³/4* π 0.5793) r = 370.63 cm or 3.70 Meters

In addition, the following statement will be added to our installation/operation manual:

To comply with Maximum Permissible Exposure (MPE) requirements, the maximum composite output from the antenna cannot exceed 1000 Watts EIRP and the antenna must be permanently installed in a fixed location that provides at least 6 meters (20 feet) of separation from all persons.

Sincerely,

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