



November 14, 2011

Attn: Application Examiner, Reviewing Engineer

The following is the SAR calculation for the FlexWave™ Prism – Cellular 40 Watt, FCC ID: F8I- PSM0804A, 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 $\text{Freq. (MHz)}/1500 = \text{MPE mW/cm}^2$
 $881.5 \text{ MHz}/1500 = 0.5877 \text{ mW/cm}^2$

The following equations determine the distance from the antenna that the power density is $\leq 0.5877 \text{ mW/cm}^2$.

+46.72 dBm Transmitter Power (Max)
13.28 dBi Antenna Gain (Max)
 $46.72 \text{ dBm} + 13.28 \text{ dBi} = +60 \text{ dBm EIRP}$
 $+60 \text{ dBm EIRP} = 1000 \text{ Watts EIRP}$
 $1000 \text{ Watts EIRP} = 1000 * 10^3 \text{ mWatts EIRP}$
 $0.5877 \text{ mW/cm}^2 = 1000 * 10^3 \text{ mW}/(4 * \pi * r^2)$
 $r = \text{SQR}(1000 * 10^3 / 4 * \pi * 0.5877)$
 $r = 367.97 \text{ cm or } 3.67 \text{ Meters}$

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,

A handwritten signature in blue ink, appearing to read 'Joshua J. Wittman', is written over a horizontal line.

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