



March 23, 2012

Attn: Director of Certification

Dear Sir or Madam:

The following is the SAR calculation for the FlexWave™ Prism – 700 MHz Upper C MIMO, FCC ID F8I-PSM07U2D 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  $\text{Freq. (MHz)}/1500 = \text{MPE mW/cm}^2$   
 $751 \text{ MHz}/1500 = 0.5007 \text{ mW/cm}^2$

The following equations determine the distance from the antenna that the power density is  $\leq 0.5007 \text{ mW/cm}^2$ .

+43.94 dBm Transmitter Power (Max)  
16.06 dBi Antenna Gain (Max)  
 $43.94 \text{ dBm} + 16.06 \text{ dBi} = +60 \text{ dBm ERP}$   
 $+60 \text{ dBm ERP} = 1000 \text{ Watts EIRP}$   
 $1640 \text{ Watts EIRP} = 1000 * 10^3 \text{ mWatts EIRP}$   
 $.5007 \text{ mW/cm}^2 = 1000 * 10^3 \text{ mW} / (4 * \pi * r^2)$   
 $r = \text{SQRT}(1000 * 10^3 / 4 * \pi * .5007)$   
 $r = 398.66 \text{ cm or } 3.98 \text{ Meters}$

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 black ink, appearing to read "Joshua J. Wittman", is written over a horizontal line.

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