



January 10, 2006

Attn: Director of Certification

Dear Sir or Madam:

The following is the SAR calculation for the Digivance® Long Range Coverage Solution (LRCS) 1900 MHz System 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  $\text{Freq. (MHz)}/1500 = \text{MPE mW/cm}^2$   
 $1930 \text{ MHz}/1500 = 1.2867 \text{ mW/cm}^2$

The following equations determine the distance from the antenna that the power density is  $\leq 1.2867 \text{ mW/cm}^2$ .

+42.33 dBm Transmitter Power (Max)  
17.67 dBi Antenna Gain (Max)  
 $42.33 \text{ dBm} + 17.67 \text{ dBi} = +60 \text{ dBm EIRP}$   
 $+60 \text{ dBm EIRP} = 1000 \text{ Watts EIRP}$   
 $1000 \text{ Watts EIRP} = 1000 * 10^3 \text{ mWatts EIRP}$   
 $1.2867 \text{ mW/cm}^2 = 1000 * 10^3 \text{ mW}/(4 * \pi * r^2)$   
 $r = \text{SQR}(1000 * 10^3 / 4 * \pi * 1.2867)$   
 $r = 248.69 \text{ cm or } 2.48 \text{ Meters}$

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 'Dave Conyers', written in a cursive style.

Dave Conyers  
Vice President of Engineering  
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