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) 800 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 Freq. (MHz)/1500 = MPE mW/cm^2
869 MHz/1500= 0.5793 mW/cm^2

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

+44.93 dBm Transmitter Power (Max)
15.07 dBi Antenna Gain (Max)
44.93 dBm + 15.07 dBi= +60 dBm EIRP
+60 dBm EIRP = 1000 Watts EIRP
1000 Watts EIRP = $1000*10^3$ mWatts EIRP

0.5793 $mW/cm^2 = 1000*10^3 mW/(4*\pi*r^2)$

r= SQR($1000*10^3/4*\pi$ 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,

Dave Conyers
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