



November 18, 2005

Attn: Director of Certification

Dear Sir or Madam:

The following is the SAR calculation for the Digivance® SCS 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 $\text{Freq. (MHz)}/1500 = \text{MPE mW/cm}^2$

$869 \text{ MHz}/1500 = 0.5793 \text{ mW/cm}^2$

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

+37.97 dBm Transmitter Power (Max)

22.03 dBi Antenna Gain (Max)

$37.97 \text{ dBm} + 22.03 \text{ dBi} = +60 \text{ dBm EIRP}$

$+60 \text{ dBm EIRP} = 1000 \text{ Watts EIRP}$

$1000 \text{ Watts EIRP} = 1000 \times 10^3 \text{ mWatts EIRP}$

$0.5793 \text{ mW/cm}^2 = 1000 \times 10^3 \text{ mW}/(4 \times \pi \times r^2)$

$r = \text{SQR}(1000 \times 10^3 / 4 \times \pi \times 0.5793)$

$r = 370.63 \text{ cm or } 3.70 \text{ Meters}$

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', with a long, sweeping horizontal line extending to the right.

Dave Conyers

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