



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)
 $37.97 \text{ dBm} + 22.03 \text{ dBi} = +60 \text{ dBm EIRP}$
 $+60 \text{ dBm EIRP} = 1000 \text{ Watts EIRP}$
 $1000 \text{ Watts EIRP} = 1000 * 10^3 \text{ mWatts EIRP}$
 $0.5793 \text{ mW/cm}^2 = 1000 * 10^3 \text{ mW}/(4 * \pi * r^2)$
 $r = \text{SQR}(1000 * 10^3 / 4 * \pi * 0.5793)$
 $r = 370.63 \text{ cm or } 3.70 \text{ Meters}$

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
Vice President of Engineering
Tele: 952 403-8424
Fax: 952 403-8858
Email: dave.conyers@adc.com

Mailing Address: P.O. Box 1101, Minneapolis, Minnesota 55440-1101
World Headquarters: Minneapolis, Minnesota USA +1.952.938.8080 www.adc.com