



September 14, 2006

Attn: Director of Certification

Dear Sir or Madam:

The following is the SAR calculation for the Digivance® SCS SMR 800/900 MHz and 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 1.0 mW/cm^2 over 30 minutes.
1500 MHz – 100,000 MHz

The following equations determine the distance from the antenna that the power density is $\leq 1.0 \text{ mW/cm}^2$.

+41.27 dBm Transmitter Power (Max)
18.73 dBi Antenna Gain (Max)
 $41.27 \text{ dBm} + 18.73 \text{ dBi} = +60 \text{ dBm EIRP}$
 $+60 \text{ dBm EIRP} = 1000 \text{ Watts EIRP}$
 $1000 \text{ Watts EIRP} = 1000 \times 10^3 \text{ mWatts EIRP}$
 $1.0 \text{ mW/cm}^2 = 1000 \times 10^3 \text{ mW} / (4 \times \pi \times r^2)$
 $r = \text{SQR}(1000 \times 10^3 / 4 \times \pi \times 1.0)$
 $r = 282.09 \text{ cm or } 2.82 \text{ Meters}$

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 "Jon Norton", is written over a horizontal line.

Jon Norton
Director of Engineering
Tele: 952 917-2112
Fax: 952 403-8858
Email: jon.norton@adc.com