



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/cm² over 30 minutes.
1500 MHz – 100,000 MHz

The following equations determine the distance from the antenna that the power density is ≤ 1.0 mW/cm².

+41.27 dBm Transmitter Power (Max)

18.73 dBi Antenna Gain (Max)

41.27 dBm + 18.73 dBi = +60 dBm EIRP

+60 dBm EIRP = 1000 Watts EIRP

1000 Watts EIRP = $1000 \cdot 10^3$ mWatts EIRP

$1.0 \text{ mW/cm}^2 = 1000 \cdot 10^3 \text{ mW} / (4 \cdot \pi \cdot r^2)$

$r = \text{SQR}(1000 \cdot 10^3 / 4 \cdot \pi \cdot 1.0)$

$r = 282.09 \text{ cm or } 2.82 \text{ Meters}$

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 light blue horizontal line.

Jon Norton

Director of Engineering

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