



February 7, 2008

Attn: Director of Certification

Dear Sir or Madam:

The following is the SAR calculation for the FlexWave™ URH SMR G 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<sup>2</sup> over 30 minutes.

1500 MHz - 100,000 MHz

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

To convert to EIRP use the relation:  $\text{EIRP} = \text{ERP} \times 1.64$

+43.27 dBm Transmitter Power (Max)

16.73 dBi Antenna Gain (Max)

43.27 dBm + 16.73 dBi = +60 dBm ERP

+60 dBm ERP = 1640 Watts EIRP

1640 Watts EIRP =  $1640 \times 10^3$  mWatts EIRP

$1.0 \text{ mW/cm}^2 = 1640 \times 10^3 \text{ mW} / (4 \times \pi \times r^2)$

$r = \text{SQRT}(1640 \times 10^3 / 4 \times \pi \times 1.0)$

$r = 361.25 \text{ cm}$  or 3.61 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 1640 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 blue ink that reads "Mark F. Miska". The signature is written in a cursive style and is positioned above a solid black horizontal line.

Mark F. Miska

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