August 7, 2008

Attn: Director of Certification

Dear Sir or Madam:

The following is the SAR calculation for the FlexWave™ microBTS 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 $mW/cm^2$.

To convert to EIRP use the relation: EIRP = ERP ***X*** 1.64

+35.73 dBm Transmitter Power (Max)
24.27 dBi Antenna Gain (Max)
35.73 dBm + 24.27 dBi= +60 dBm ERP
+60 dBm ERP = 1640 Watts EIRP
1640 Watts EIRP = $1640*10^3$ mWatts EIRP

1.0 $mW/cm^2 = 1640*10^3 mW/(4*\pi*r^2)$

$r = SQR(1640*10^3/4*\pi\ 1.0)$
r= 361.25 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,

Mark F. Miska

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