ADC

January 14, 2002

TCB
BABT Product Service
4855 Patrick Henry Drive, Building 6
Santa Clara, CA 95054

Dear Sir or Madam:

The following is the SAR calculation for the Digivance ICS System's 1900 MHz Remote Interface Unit 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 Freq. (MHz)/1500 = MPE mW/cm^2
1850 MHz/1500 = 1.233 mW/cm^2

The following equations determine the distance from the antenna that the power density is ≤ 1.233 mW/cm^2.

+37dBm Transmitter Power (Max)
23dBi Antenna Gain (Max)
37dBm + 23dBi = +60dBm EIRP
+60dBm EIRP = 1000 Watts EIRP
1000 Watts EIRP = 1000*10^3 mWatts EIRP

1.233 mW/cm^2 = 1000*10^3 mW/(4*π*r^2)

r = SQR(1000*10^3/4*π 1.233)
r = 374.53 cm or 3.75 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,

Dave Conyers
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