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August 16, 2001

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 LRCS SMR System's Remote 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
851 MHz/1500=.5673 mW/cm^2

The following equations determine the distance from the antenna that the power density is $\leq$ .5673 mW/cm^2.

+44.77dBm Transmitter Power (Max)
15.23dBi Antenna Gain (Max)
44.77dBm+15.23dBi=+60dBm EIRP
+60dBm EIRP= 1000 Watts EIRP
1000 Watts EIRP = $1000*10^3$ mWatts EIRP

.5673 $mW/cm^2 = 1000*10^3 mW/(4*\pi*r^2)$

$r = SQR(1000*10^3/4*\pi .5673)$
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,

Gary Spedaliere
Director of Product Mngt.
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