September 1, 2004

Federal Communications Commission
Equipment Approval Services
P.O. Box 358315
Pittsburgh, PA 15251-5315

Dear Sir or Madam:

The following is the SAR calculation for the Digivance Software Defined Radio 800 MHz 50 Watt 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
869 MHz/1500= 0.5793 mW/cm^2

The following equations determine the distance from the antenna that the power density is $\leq$ 0.5793 mW/cm^2.

+50.00dBm Transmitter Power (Max)
10.00dBi Antenna Gain (Max)
50.00dBm + 10.00dBi= +60dBm EIRP
+60dBm EIRP = 1000 Watts EIRP
1000 Watts EIRP = $1000*10^3$ mWatts EIRP

$0.5793\ mW/cm^2 = 1000*10^3\ mW/(4*\pi*r^2)$

$r= SQR(1000*10^3/4*\pi\ 0.5793)$
r= 370.63 cm or 3.70 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
Vice President of Engineering
Tele: 952 403-8424
Fax: 952 403-8577