

May 23, 2011

Attn: Director of Certification

Dear Sir or Madam:

The following is the SAR calculation for the FlexWave[™] Prism – 700 MHz 40 Watt Upper C-Band FCC ID: F8I-PRSM074C 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^2 751 MHz/1500 = 0.5006 mW/cm^2

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: EIRP = ERP X 1.64

+47.25 dBm Transmitter Power (Max)

12.75 dBi Antenna Gain (Max)

47.25 dBm + 12.75 dBi = +60 dBm ERP

+60 dBm ERP = 1000 Watts EIRP

1000 Watts EIRP = $1000*10^3$ mWatts EIRP

 $0.5006 \text{ mW/cm}^2 = 1000*10^3 \text{ mW/}(4*\pi*r^2)$

 $r = SQR(1000*10^3/4*\pi 0.5006)$

r= 398.70 cm or 3.98 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,

Joshua J. Wittman

Compliance Engineer Tele: 952 403-8322 Fax: 952 403-8858

Email: joshua.wittman@te.com