EXHIBIT 13. MPE CALCULATIONS

The following MPE calculations are based on the higher measured power, between radiated and conducted measurements. In the case of this product, the antenna is a formed wire, with no published data for the gain figure. A gain of 0 dBi is used in calculations, normalizing the data to EIRP.

"WWU"

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	8.50	(dBm)
Maximum peak output power at antenna input terminal:	7.079	(mW)
Antenna gain(typical):	0	(dBi)
Maximum antenna gain:	1.000	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	915	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.62	(mW/cm^2)
Power density at prediction frequency:	0.001408	(mW/cm^2)
Maximum allowable antenna gain:	26.4	(dBi)
Margin of Compliance at 20 cm =	26.4	dB

"WBU"

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	9.37	(dBm)
Maximum peak output power at antenna input terminal:	8.650	(mW)
Antenna gain(typical):	0	(dBi)
Maximum antenna gain:	1.000	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	915	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.62	(mW/cm^2)
Power density at prediction frequency:	0.001721	(mW/cm^2)
Maximum allowable antenna gain:	25.6	(dBi)
Margin of Compliance at 20 cm =	25.6	dB