EXHIBIT 16. MPE CALCULATIONS

Antenna Manufacturer: Antenna Factor
Model Number: ANT-916-SP
Declared Antenna Gain: 2.5 dBi

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:	28.90	(dBm)
Maximum peak output power at antenna input terminal:	776.247	(mW)
Antenna gain(typical):	2.5	(dBi)
Maximum antenna gain:	1.778	(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:	0.274619	(mW/cm^2)
Maximum allowable antenna gain:	6.0	(dBi)
Margin of Compliance at 20 cm =	3.5	dB