## 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:	<u>27.00</u> (dBm)
Maximum peak output power at antenna input terminal:	<u>501.1872336</u> (mW)
Antenna gain(typical): _	<u> </u>
Maximum antenna gain:	10 (numeric)
Prediction distance:	20 (cm)
Prediction frequency:	1850 - 1910 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1.0</u> (mW/cm^2)
Power density at prediction frequency:	0.997080 (mW/cm^2)
Maximum allowable antenna gain:	10.01269855 (dBi)
Margin of Compliance:	0.012698554 (dB)