



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 isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	29.6 (dBm)	*
Maximum peak output power at antenna input terminal:	918.3 (mW)	
Antenna gain(maximum):	42.5 (dBi)	*
Maximum antenna gain:	17782.79 (numeric)	
Time Averaging:	100 (%)	*
Prediction distance:	1200 (cm)	*
Prediction frequency:	5700 (MHz)	*
FCC MPE limit for uncontrolled exposure at prediction frequency:	1.000 (mW/cm ²)	
IC MPE limit for uncontrolled exposure at prediction frequency:	30.60 (W/m ²)	
Power density at prediction frequency:	0.902 (mW/cm ²)	
This equates to:	9.02 (W/m ²)	