



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