



**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>29.9</u>	(dBm)	*
Maximum peak output power at antenna input terminal:	<u>977.2</u>	(mW)	
Antenna gain(maximum):	<u>5</u>	(dBi)	*
Maximum antenna gain:	<u>3.16</u>	(numeric)	
Time Averaging:	<u>100</u>	(%)	*
Prediction distance:	<u>20</u>	(cm)	*
Prediction frequency:	<u>2405</u>	(MHz)	*
MPE limit for uncontrolled exposure at prediction frequency:	<u>1.00</u>	(mW/cm <sup>2</sup> )	
Power density at prediction frequency:		0.6148 (mW/cm <sup>2</sup> )	
This equates to:		6.148 W/m <sup>2</sup>	