



### 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>22.9</u> (dBm)	*
Maximum peak output power at antenna input terminal:	<u>195.0</u> (mW)	
Antenna gain(maximum):	<u>0.8</u> (dBi)	*
Maximum antenna gain:	<u>1.20</u> (numeric)	
Time Averaging:	<u>100</u> (%)	*
Prediction distance:	<u>20</u> (cm)	*
Prediction frequency:	<u>2412</u> (MHz)	*
MPE limit for uncontrolled exposure at prediction frequency:	<u>1.000</u> (mW/cm <sup>2</sup> )	
Power density at prediction frequency:	0.047 (mW/cm <sup>2</sup> )	
This equates to:	0.466 W/m <sup>2</sup>	