



### 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:	46.0	dBm
Maximum peak output power at antenna input terminal:	40105.1	mW
Antenna gain(maximum):	16.4	dBi
Maximum antenna gain:	43.7	numeric
Time Averaging:	100	%
Prediction distance:	550	cm
Prediction frequency:	1930	MHz
Power density at prediction frequency:	0.46	mW/cm <sup>2</sup>
This equates to:	4.61	W/m <sup>2</sup>