

### 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:	24.50 (dBm)
Maximum peak output power at antenna input terminal:	281.838 (mW)
Antenna gain(typical):	2 (dBi)
Maximum antenna gain:	1.585 (numeric)
Prediction distance:	20 (cm)
Prediction frequency:	926.6 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1 (mW/cm <sup>2</sup> )
Power density at prediction frequency:	0.088865 (mW/cm <sup>2</sup> )
Maximum allowable antenna gain:	12.5 (dBi)
Margin of Compliance at 20 cm =	10.5 dB