



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: dBm
Maximum peak output power at antenna input terminal: mW
Antenna gain(maximum): dBi
Maximum antenna gain: numeric
Time Averaging: %
Prediction distance: cm
Prediction frequency: MHz
Power density at prediction frequency: mW/cm²
This equates to: W/m²