

### Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

<u>Equipment</u>	WDT-6M, WDT-5E
<u>Manufacturer</u>	PATLITE CORPORATION

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:	3.07 (dBm)
Maximum peak output power at antenna input terminal:	2.02768272 (mW)
Antenna gain(typical):	1.64 (dBi)
Maximum antenna gain:	1.45881426 (numeric)
Prediction distance:	20 (cm)
Prediction frequency:	2440 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1 (mW/cm^2)
Power density at prediction frequency:	0.000588 (mW/cm^2)
Maximum allowable antenna gain:	33.94269855 (dBi)
Margin of Compliance:	32.30269855