



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>26.16</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>413</u>	(mW)
Antenna gain(maximum):	<u>12.84</u>	(dBi)
EIRP	<u>7.94</u>	W
ERP	<u>4.85</u>	W
Maximum antenna gain:	<u>19.2</u>	(numeric)
Time Averaging:	<u>100</u>	(%)
Prediction distance:	<u>50</u>	(cm)
Prediction frequency:	<u>800</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>0.53</u>	(mW/cm ²)
Power density at prediction frequency:	<u>0.253</u>	(mW/cm ²)
Margin of compliance:	<u>-3.24</u>	(dB)
This equates to:	<u>2.53</u>	W/m ²