



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:	31,16 (dBm)
Maximum peak output power at antenna input terminal:	1306 (mW)
Antenna gain(maximum):	7,84 (dBi)
EIRP	7,94 W
ERP	4,85 W
Maximum antenna gain:	6,08 (numeric)
Time Averaging:	100 (%)
Prediction distance:	50 (cm)
Prediction frequency:	758 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0,505 (mW/cm ²)
Power density at prediction frequency:	0,253 (mW/cm ²)
Margin of compliance:	-3,0 (dB)
This equates to:	2,53 W/m ²