## Prediction of MPE limit at a given distance

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



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 centre of radiation of the antenna

	Value	Units	numeric
Max input to antenna terminal	17.6	dBm	57.54
Antenna gain	15	dBi	31.62
Prediction distance	20	cm	20.00
Prediction Freq	2.405	GHz	2.405E+09
MPE limit for uncontrolled exposure at prediction frequency	1	mW/cm2	
Power density at prediction frequency:	0.362	(mW/cm2)	

Maximum allowable antenna gain

19.4 dBi