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 eirp:	8.67	(dBm)	(3.17dBm+5.5dBi)
Maximum peak eirp:	7.362070975	(mW)	
Time Averaging:	100	(%)	
Prediction distance:	20	(cm)	
Prediction frequency:	2480	(MHz)	
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)	
Power density at prediction frequency:	0.001465	(mW/cm^2)	
Margin of compliance:	-28.3	(dB)	
This equates to	0.014646375	W/m^2	