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 isotropic
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	**36.00**	(dBm)
Maximum peak output power at antenna input terminal:	3981	(mW)
Isotropic antenna gain(typical):	**9**	(dBi)
Isotropic antenna gain(numeric):	7.943	(numeric)
Prediction distance:	**100**	(cm)
Source Based Time Average Duty Cycle:	**100**	(%)
Prediction frequency:	469	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.313	(mW/cm^2)
Power density at prediction frequency:	0.2516	(mW/cm^2)
Margin of Compliance:	0.9	
Power density (W/m):	2.5165	

Maximum peak output power at antenna input terminal:	**36.00**	(dBm)
Maximum peak output power at antenna input terminal:	3981	(mW)
Isotropic antenna gain(typical):	**15**	(dBi)
Isotropic antenna gain(numeric):	31.623	(numeric)
Prediction distance:	**200**	(cm)
Source Based Time Average Duty Cycle:	**100**	(%)
Prediction frequency:	469	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.313	(mW/cm^2)
Power density at prediction frequency:	0.2505	(mW/cm^2)
Margin of Compliance:	1.0	
Power density (W/m):	2.5046	