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

Maximum peak output power at antenna input terminal:	**12.04**	(dBm)
Maximum peak output power at antenna input terminal:	16	(mW)
Antenna gain(typical):	**-3**	(dBi)
Maximum antenna gain:	0.501	(numeric)
Prediction distance:	**20**	(cm)
Sourse Based Time Average Duty Cycle:	**100**	(%)
Prediction frequency:	2400	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1.000	(mW/cm^2)
Power density at prediction frequency:	0.0016	(mW/cm^2)
Margin of Compliance:	28.0	