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 (eirp):	22.50	(dBm)**eirp**
Maximum peak output power (eirp):	177.827941	(mW)
Time Averaging:	100	(%)
Prediction distance:	20	(cm)
Prediction frequency:	902	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.6	(mW/cm^2)
Power density at prediction frequency:	0.035378	(mW/cm^2)
Margin of compliance:	-12.3	(dB)