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 at antenna input terminal:	31,00	(dBm)
Maximum peak output power at antenna input terminal:	1258,925412	(mW)
Antenna gain(maximum):	16	(dBi)
Maximum antenna gain:	39,81071706	(numeric)
Time Averaging:	100	(%)
Prediction distance:	100	(cm)
Prediction frequency:	728	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0,485	(mW/cm^2)
Power density at prediction frequency:	0,398832	(mW/cm^2)
Margin of compliance:	-0,9	(dB)
This equates to:	3,988321282	W/m^2

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$$S = \frac{PG}{4\pi R^2}$$

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 at antenna input terminal:	31,00	(dBm)
Maximum peak output power at antenna input terminal:	1258,925412	(mW)
Antenna gain(maximum):	20	(dBi)
Maximum antenna gain:	100	(numeric)
Time Averaging:	100	(%)
Prediction distance:	100	(cm)
Prediction frequency:	2300	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1,000	(mW/cm^2)
Power density at prediction frequency:	1,001821	(mW/cm^2)
Margin of compliance:	0,0	(dB)
This equates to:	10,01821011	W/m^2