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

Maximum peak output power at antenna input terminal:	11.30	(dBm)
Maximum peak output power at antenna input terminal:	13.48962883	(mW)
Antenna gain(typical):	18	(dBi)
Maximum antenna gain:	63.09573445	(numeric)
Prediction distance:	200	(cm)
Prediction frequency:	2400	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^
Power density at prediction frequency:	0.001693	(mW/cm^
Maximum allowable antenna gain:	45.71269855	(dBi)

Minimum separation distance w/internal 18dBi antenna: 8.3 cm

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