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
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	22.80	(dBm)
Maximum peak output power at antenna input terminal:	190.5461	(mW)
Antenna gain(typical):	11	(dBi)
Maximum antenna gain:	12.58925	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	890	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.533333	(mW/cm^
Power density at prediction frequency:	0.477233	(mW/cm^
Maximum allowable antenna gain:	11.48269	(dBi)

isotropic radiator

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