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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 centre of radiation of the antenna

Peak Envelope Power	30	watts
Maximum peak output power at antenna input terminal:	<u>44.77</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>30000</u>	(mW)
Antenna gain(typical):	<u>2</u>	(dBi)
Maximum antenna gain:	<u>1.585</u>	(numeric)
Prediction distance:	<u>150</u>	(cm)
Prediction frequency:	<u>30</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>0.200</u>	(mW/cm ²)
Power density at prediction frequency:	0.1682	(mW/cm ²)
Maximum allowable antenna gain:	2.753011231	(dBi)
Margin of Compliance:	0.753011231	