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 the antenna terminal:	2.94 (dBm)
Maximum peak output power at the antenna terminal:	1.96788629 (mW)
Antenna gain(typical):	2.5 (dBi)
Maximum antenna gain:	<u>1.77827941</u> (numeric)
Prediction distance:	<u> </u>
Prediction frequency:	<u>902.7</u> (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>0.6018</u> (mW/cm^2)
Power density at prediction frequency:	0.000696 (mW/cm^2)
Maximum allowable antenna gain:	31.86722039 (dBi)