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:	28.41	(dBm)
Maximum peak output power at antenna input terminal:	693.426	(mW)
Antenna gain(typical):	7.94	(dBi)
Maximum antenna gain:	6.223	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	924	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.858480	(mW/cm^2)
Maximum allowable antenna gain:	8.6	(dBi)
Margin of Compliance at 20 cm =	0.7	dB