Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01
RSS-102, Safety Code 6

$$S = \frac{PG}{4\pi R^2}$$

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:	20.93	(dBm)
Maximum peak output power at antenna input terminal:	123.8796587	(mW)
Antenna gain (typical):	13	(dBi)
Maximum antenna gain:	19.95262315	(numeric)
Prediction distance:	25	(cm)
Prediction frequency:	473	(MHz)
MPE limit for uncontrolled exposure at prediction frequency f = 300-1500MHz, f/1500:	0.315333333	(mW/cm^2)
Power density at prediction frequency:	0.314710	(mW/cm^2)
Maximum allowable antenna gain:	13.00859763	(dBi)
Margin of Compliance:	0.00859763	