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 device output terminal:	20.06	(dBm)
Cable and Jumper loss	0.0	(dB)
Maximum peak output power at antenna input terminal:	20.06	(dBm)
Maximum peak output power at antenna input terminal:	101.3911386	(mW)
Antenna gain:	7	(dBi)
Maximum antenna gain:	5.011872336	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5500	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
	10	(W/m^2)

Power density at prediction frequency:	0.101095	(mW/cm^2)
	1.010951	(W/m^2)
Tx On time:	1.000000	
Tx period time:	1.000000	
Average Factor:	100.000000	
Average Power density at prediction frequency:	1.010951	(W/m^2)
Maximum allowable antenna gain:	16.95269855	(dBi)
Margin of Compliance:	9.952698554	dB