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 iso
R = distance to the center of radiation of the antenna
Valid for frequencies from 100 to 300.000 MHz

Maximum peak output power at antenna input terminal:	34.20	(dBm)
Maximum peak output power at antenna input terminal:	2.630	(W)
Antenna gain(typical):	11.88	(dBi)
Maximum antenna gain:	15.417	(numeric)
Prediction distance:	60	(cm)
Prediction frequency:	1643.5	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	10.00	(W/m^2)
MPE limit for controlled exposure at prediction frequency:	50.00	(W/m^2)

Uncontrolled Exposure:

Power density at prediction frequency:	8.963707	(W/m^2)
Maximum allowable antenna gain:	12.36	(dBi)
Margin of Compliance:	0.48	(dB)

Controlled Exposure:

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