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: 27.60 (dBm)

Maximum peak output power at antenna input terminal: 575.440 (mW)

Antenna gain(typical): 3.5 (dBi)

Maximum antenna gain: 2.239 (numeric)

Prediction distance: 20 (cm)
Prediction frequency: 2440 (MHz)

MPE limit for uncontrolled exposure at prediction frequency:

1 (mW/cm^2)

Power density at prediction frequency: 0.256289 (mW/cm^2)

Maximum allowable antenna gain: 9.4 (dBi)

Margin of Compliance at 20 cm = 5.9 dB