Prediction of MPE limit at a given distance
Fixed Mounted Vertical Antenna
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: _____ 20.00 (dBm)
Maximum peak output power at antenna input terminal: _____ 100 (mW)
Antenna gain(typical): _____ 16 (dBi)
Maximum antenna gain: _____ 39.81071706 (numeric)
Prediction distance: _____ 20 (cm)
Prediction frequency: _____ 5800 (MHz)
MPE limit for uncontrolled exposure at prediction frequency: _____ 1 (mW/cm^2)

Power density at prediction frequency: 0.792009 (mW/cm^2)

Maximum allowable antenna gain: 17.01269855 (dBi)

Margin of Compliance: 1.012698554