Prediction of MPE limit at a given distance
10dBi Integral 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): _____ 10 (dBi)
Maximum antenna gain: _____ 10 (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: 0.198944 (mW/cm^2)

Maximum allowable antenna gain: 17.01269855 (dBi)

Margin of Compliance: 7.012698554