2.19 Maximum Public Exposure to RF Radiation (MPE) CFR 15.247 (i)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, S, of 1 mW/cm₂ at a distance, d, of 20 cm from the EUT.

Therefore, for:

EIRP (Watts) = 0.4 Distance, r = 20 cm S = (PG/ $4\pi r_2$) = EIRP/4A Where: A = the area of a circle with radius, r = 20cm. Therefore, S = 0.4 / 4x3.1416 x (20)₂ = 0.4/1600 π = 79 μ W/cm₂