

## 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/cm<sup>2</sup> at a distance, d, of 20 cm from the EUT.

Therefore, for :

$$\text{EIRP (Watts)} = 0.0006$$

Distance, r = 20 cm

$$S = (PG / 4\pi r^2) = \text{EIRP}/4A$$

Where: A = the area of a circle with radius, r = 20cm.

Therefore,

$$S = 0.0006 / 4 \times 3.1416 \times (20)^2 = 0.0006 / 1600\pi = 1.2 \mu\text{W}/\text{cm}^2$$