



RF Exposure Compliance Requirement ID ISC.LRMU1000 / ID ISC.LRU1000

The maximum permissible exposure (MPE) for **general population** is defined as 0.6mW/cm^2 (f/1500, FCC OET Bulletin 65, Supplement B). The distance from the transmitting antenna where the exposure level reaches the maximum permitted level is calculated using equation (1):

$$S = \frac{EIRP}{4 \cdot \pi \cdot R^2} \tag{1}$$

where:

 $S = Power density 0.6 mW/cm^2$

EIRP = Power output of an isotropic antenna 4W

R = Distance to the centre of the radiation of the antenna

Solving equation (1) the minimum distance at which a person must keep away in a uncontrolled exposure is

R = 23 cm

The maximum permissible exposure (MPE) for **controlled exposure** is defined as 3mW/cm^2 (f/300, FCC OET Bulletin 65, Supplement B). Solving equation (1) where $S=3\text{mW/cm}^2$ the minimum distance at which a person must keep away in a uncontrolled exposure is

R = 10,3cm