11. MAXIMUM PERMISSIBLE EXPOSURE

Equipment shall meet the limits below .

1mW/cm^2 max at 20 cm of distance

Calculation:

$$E = \frac{\sqrt{30PG}}{d}$$

$$S = \frac{(E)^2}{3770}$$

E= Field Strenght in Volts/meter
P=Power in watt
G= Numeric Antenna Gain
d= Distance in meter
S= power Density in milliwatts/square centimeter

Arranging terms to calculate the power density at a specifica distance yields:
S= 0.0795*10^((P+G)/10)/(d^2)

The power density in units of mW/cm^2 is converted to units of W/m^2 multiplying by a factor of 10.

Result

Power Density Limit mW/cm^2	**Output Power (erp) mW**	**Power Density at 20cm mW/cm^2**	**Remark**
1	21,3	0,013	-

(*) OET Bulletin 65