

MPE Calculation

$$S = (P * G) / (4 * \pi * R^2)$$

Where:

P = 745 mW

G = 0 dBi = 1

R = 20 cm

$$S = (745 * 1) / (4 * 3.14159 * 20^2)$$

$$S = 0.14 \text{ mW} / \text{cm}^2 @ 20 \text{ cm}$$

Solving for R with S = 5.00 and 1.00 yields the following separation distances:

	Occupational Control	Uncontrolled
Maximum Permissible Exposure (MPE)	5.00 mW/cm ²	1.00 mW/cm ²
Compliance from Center of Antenna	3.44 cm	1.03 cm
In Compliance	Yes	Yes