RF Exposure MPE Exhibit

Maximum permissible exposure is Freq. (MHz)/1500 = MPE mW/cm² 869 MHz/1500 = 0.5793 mw/cm²

The following calculations determine at what distance from the antenna the power density is $= 0.5793 \text{ mw/cm}^2$

Tx output power = 36 dBm Antenna Gain = 12 dBi EIRP of TX and Antenna = 48 dBm 45 dBm= 63.09 Watts or 63090 mW

MPE Calculation

PowerDensity =
$$Pd(\text{mW/cm}^2) = \frac{EIRP}{4\pi d^2}$$

$$d = \sqrt{\frac{EIRP}{4\pi Pd}}$$

$$d = \sqrt{\frac{63090}{4\pi 0.5793 mw/cm^2}}$$

$$d = 93.09 \text{ cm}$$

The minimum safe distance is 93.09 cm for the UtStarcom iBTS when installed. This product is installed by trained professionals in outdoor applications only