

Federal Communications Commission,
7435 Oakland Mills Road,
Columbia, MD
21046
USA

**Maximum Permitted Exposure (MPE) Compliance Statement
For Multitone EkoTek Series Repeater - FCC ID: E862WREP**

The Multitone EkoTek 2WREP 2-way Radio Paging & Data equipment (2.405 - 2.48GHz) , contains a low power (10mW) RF transmitter and is intended for fixed use with the integral unity gain (or less) antenna supplied. The equipment's performance may be characterized in accordance with the exposure requirements of 47 CFR 1.1307, as below.

At the mid-band frequency of the equipment's spectrum of operation, the RF output power level of the equipment falls below the FCC's General Population Uncontrolled Exposure Limits, as specified in document OET 65.

Derivative analysis of this result is as follows: -

For the general uncontrolled population, the Maximum Permissible Exposure (MPE) power density limit is $1\text{mW}/\text{cm}^2$.

The prediction method provided for the distance at which this level occurs, is based the following worst-case (far-field) calculation: -

$$\text{Power Density (P}_D\text{)} = \text{EIRP}/(4\pi R^2)$$

Using this formula for the 2WREP with the following values inserted; $P_D = 1\text{mW}/\text{cm}^2$;
 $\text{EIRP} = 10\text{mW}$, yields a radius figure of 0.9cm from the antenna.

In normal use the user is not required to operate this equipment and would be prevented from approaching the antenna to such a point, by the case construction of the equipment and it's normally installed position.

Dated this 29th Day Of October 2007

Signed: 

B.R.Merchant,
Principal Approvals Engineer,
Multitone Electronics plc

Telephone: - +44 1256 320292
e-mail: - brian.merchant@multitone.com