Neptune

Title: Evaluation of ER Exposure from Neptune Transmitters for General Population / Uncontrolled Exposure

Methodology:

Using Table 1 in Appendix A of FCC OET Bullentin 65 (Edition 01-01), the Maximum Permissible Exposure limit for general population / uncontrolled exposure is specific as a power density:

$$MPE = f / 1500 \text{ milliwatts per square centimeter, } \text{ where } f \text{ is in MHz (between 300 to 1500 MHz)}$$

Averaged over 30 minutes. Based on spherical surface around the source, the minimum distance D can be computed as:

$$D = SQRT (\textit{EIRP} / 4\Pi * MPE)$$

Hardware	Average transmit power (dBm)	Antenna gain (dBi)	Duty cycle (averaged over 30 minutes)	Avg EIRP (dBm)	Avg EIPR (mW)	Frequency (MHz)	MPE (mW per sq. cm)	Minimum distance (cm)	Minimum distance (inches)
MIU	23	-5	.01%	-11.15	0.08	917.58	0.6120	0.04	0

Reference:

[1] FCC OET Bulletin 65 (01-01 Edition), "Evaluation Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields", June 2001.