

Maximum Permissible Exposure (MPE) Evaluation

Applicant : Kenwood Corporation

Equipment : UHF DIGITAL BASE-REPEATER

Model No. : NXR-800-E3
FCC ID : K44371412
IC CN and UPN : 282F-371412

MPE Calculations

According to the OET Bulletin 65 (Edition 97-01)

$$S = \frac{PG}{4\pi R^2}$$

$$R = \sqrt{\frac{PG}{4\pi S}}$$

Where:

S=Power density (in appropriate units, e.g. mW/cm²)

P=Power input to antenna (in appropriate units, e.g., mW)

G=Power gain of the antenna in the direction of interest relative to an isotropic radiator

R=Distance to the center of radiation of the antenna (appropriate units, e.g., cm)

P = Value calculated according to CFR Part 90.205(s)

Calculated minimum separation distance from antenna:

120.28 (cm)