

## **Maximum Permissible Exposure (MPE) Evaluation**

Applicant :Kenwood Corporation

Equipment :VHF DIGITAL BASE-REPEATER

Model No. :NXR-700-K FCC ID :K44371300 IC CN and UPN :282F-371300

## **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/cm<sup>2</sup>)

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(r)

Calculated minimum separation distance from antenna:

44.25 (cm)