



RF Radiation Analysis

In accordance with the order of Docket 79-144, as adopted January 1, 1986, the following analysis of human exposure to non ionizing RF radiation has been performed. For the purpose of this study the Commission's FM Model software was employed.

Facilities

Proposed New Station	KOEA (FM)
88.3 MHz	97.5 MHz
11.0 kW Vertical Only	40 kW H&V
54.6 m AGL	97.5 m AGL

The proposed new Channel 202 C3 operation will use a Shively model 6513, ½ wave spaced, 5 bay vertically polarized antenna system. A power density chart was generated for the proposed channel 202 operation and it is included in this report as Exhibit 14. From exhibit 14 we find that the maximum power density at 2 meters above ground level is 2.040 uW/cm² which is 1.02% of the 0.2 mW/cm² non controlled environment maximum.

The co-located facilities KOEA (FM) uses an ERI model SHPX –6 full wave spaced antenna. A power density chart was generated for the KOEA operation and it is included in this report as Exhibit 15. From exhibit 15 we find that the maximum power density at 2 meters above ground level is 10.0110 uW/cm² which is 5.01% of the 0.2 mW/cm² non controlled environment maximum.

The worst case power density from both radio stations is thus 6.03% of the non controlled environment maximum.

As the above calculations indicate, the worst case power density falls well below ANSI maximums for a non controlled environment and will pose no hazard due to exposure to non ionizing RF radiation.

Central Educational Radio. further pledges to work in concert wit the tower owner and other tower users to protect any workers from occupation overexposure to excessive levels of RF radiation by reducing power or ceasing the operation as necessary during periods of tower maintenance.

