

## POWER DENSITY CALCULATION

PROPOSED W56DN  
CHANNEL 36 - EVANSVILLE, INDIANA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Evansville facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 13.5 kw, an effective antenna height of 152 meters above ground, and the vertical pattern of the Andrew antenna, maximum power density two meters above ground of  $0.00019 \text{ mw/cm}^2$  is calculated to occur 35 meters southwest of the base of the tower. Since this is less than 0.1 percent of the  $0.40 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 36 (602-608 MHz), this proposal may be excluded from consideration with respect to public exposure to nonionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive nonionizing radiation.