

POWER DENSITY CALCULATION

PROPOSED K69EK  
CHANNEL 48 - OKLAHOMA CITY, OKLAHOMA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Oklahoma City facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 50 kw, an effective antenna height of 274 meters above ground, and the vertical pattern of the Andrew antenna, maximum power density two meters above ground of  $0.00022 \text{ mw/cm}^2$  is calculated to occur 63 meters from the base of the tower. Since this is less than 0.1 percent of the  $0.45 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 48 (674-680 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.