

POWER DENSITY CALCULATION

PROPOSED KYPX-DT  
CHANNEL 49 - CAMDEN, ARKANSAS

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Camden facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 1000 kw, an effective antenna height of 174 meters above ground, and the vertical pattern of the Antenna Concepts antenna, maximum power density two meters above ground of  $0.0037 \text{ mw/cm}^2$  is calculated to occur 33 meters from the base of the tower. Since this is less than 0.8 percent of the  $0.46 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 49 (680-686 MHz), a grant of this proposal may be considered a minor environmental action 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.