

## EXHIBIT F

### POWER DENSITY CALCULATION PROPOSED KPBI-DT CHANNEL 34 – EUREKA SPRINGS, ARKANSAS

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, I have studied the matter with respect to this Eureka Springs facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 70 kw, an effective antenna height of 98 meters above ground, and the vertical pattern of the SWR antenna, maximum power density two meters above ground of  $0.0011 \text{ mw/cm}^2$  is calculated to occur 26 meters from the base of the tower. Since this is 0.3 percent of the  $0.39 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 34 (590-596 MHz), 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.