

## EXHIBIT E

### POWER DENSITY CALCULATION

#### PROPOSED WJMF-LP CHANNEL 19 – JACKSON, MISSISSIPPI

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Jackson facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 150 kw, an effective antenna height of 305 meters above ground, and the vertical pattern of the SWR antenna, maximum power density two meters above ground of  $0.00012 \text{ mw/cm}^2$  is calculated to occur 81 meters from the base of the tower. Since this is less than 0.1% percent of the  $0.34 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 19 (500-506 MHz), this proposal constitutes a minor environmental action and 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.