

EXHIBIT E

POWER DENSITY CALCULATION
PROPOSED K54GG
CHANNEL 50 – WILLMAR, MINNESOTA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Willmar facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 1.4 kw, an effective antenna height of 144 meters above ground, and the vertical pattern of the MCI antenna, maximum power density two meters above ground of $0.0000035 \text{ mw/cm}^2$ is calculated to occur 107 meters from the base of the tower. Since this is less than 0.1 percent of the 0.46 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 50 (686-692 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.