POWER DENSITY CALCULATION

KRIV-DT
CHANNEL 26 – HOUSTON, TEXAS

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Houston facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 300 kw (H, V), an antenna radiation center 593 meters above ground, and the elevation pattern of the in-place ERI antenna, maximum power density two meters above ground of 0.00022 mw/cm² is calculated to occur 158 meters northeast of the base of the tower. Since this is less than 0.1 percent of the 0.36 mw/cm² reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 26 (542-548 MHz), a grant of this proposal may be considered a minor environmental action with respect to public and occupational ground-level 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.