

POWER DENSITY CALCULATION
PROPOSED K13IV-D
CHANNEL 8 – NEWELL, CALIFORNIA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Newell facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 0.02 kw, an antenna radiation center 28 meters above ground, and assuming a vertical relative field value of 20 percent at the steeper elevation angles for the proposed Scala antenna, maximum power density two meters above ground of 0.000040 mw/cm² is calculated to near the base of the tower. Since this is less than 0.1 percent of the 0.33 mw/cm² reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 8 (180-186 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.