

POWER DENSITY CALCULATION

PROPOSED WSKY-DT
CHANNEL 4 - MANTEO, NORTH CAROLINA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Manteo facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 10 kw (H, V), an effective antenna height of 274 meters above ground, and the elevation pattern of the Dielectric antenna, maximum power density two meters above ground of 0.00060 mw/cm^2 is calculated to occur 88 meters from the base of the tower. Since this is only 0.3 percent of the 0.2 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 4 (66-72 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.