

POWER DENSITY CALCULATION  
PROPOSED WGHP-DT AUXILIARY  
CHANNEL 35 – HIGH POINT, 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 High Point facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 4.2 kw, an effective antenna height of 274 meters above ground, and the elevation pattern of the Andrew antenna, maximum power density two meters above ground of  $0.000019 \text{ mw/cm}^2$  is calculated to occur 151 meters north-northwest of the base of the tower. Since this is significantly less than 0.1 percent of the  $0.40 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 35 (596-602 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.