

POWER DENSITY CALCULATION

PROPOSED WMWC-TV
CHANNEL 8 – GALESBURG, ILLINOIS

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Galesburg facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 39 kW (H,V), an antenna radiation center 325.2 meters above ground, and the specific elevation pattern of the Alive ATC-BCE780-8 antenna, maximum power density two meters above ground of 0.00063 mW/cm^2 is calculated to occur 124 meters northeast of the base of the tower. Since this is only 0.3 percent of the 0.20 mW/cm^2 reference for uncontrolled environments (areas with access to the public) surrounding a facility operating on Channel 8 (180-186 MHz), a grant of this proposal may be considered a minor environmental action with respect to public exposure to non-ionizing 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 non-ionizing radiation.