

POWER DENSITY CALCULATION

PROPOSED W15EC-D  
CHANNEL 15 – DETROIT, MICHIGAN

[MODIFICATION OF CONSTRUCTION PERMIT 0000026746]

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Detroit facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 15.0 kW, an antenna radiation center 120.4 meters above ground, and the specific elevation pattern of the proposed ERI antenna, maximum power density two meters above ground of 0.0019 mW/cm<sup>2</sup> is calculated to occur 38 meters south-southeast of the base of the tower. Since this is only 0.6 percent of the 0.32 mW/cm<sup>2</sup> reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 15 (476-482 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.