

POWER DENSITY CALCULATION

PROPOSED W25AA
CHANNEL 25 - ONANCOCK, VIRGINIA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Onancock facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 31.2 kw, an effective antenna height of 138 meters above ground, and the vertical pattern of the MCI antenna, maximum power density two meters above ground of 0.000065 mw/cm^2 is calculated to occur 99 meters northeast and southwest from the base of the tower. Since this is significantly less than 0.1 percent of the 0.36 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 25 (536-542 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.