

POWER DENSITY CALCULATION

PROPOSED KSKN-DT
CHANNEL 36 – SPOKANE, WASHINGTON

[AMENDMENT TO BMPCDT-20031110AMP]

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Spokane facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 1,000 kw, an effective antenna height of 223 meters above ground, and the vertical pattern of the Dielectric antenna, maximum power density two meters above ground of 0.0084 mw/cm^2 is calculated to occur 89 meters northwest of the base of the tower. Since this is only 2.1 percent of the 0.40 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 36 (602-608 MHz), a grant of this proposal may be considered a minor environmental action 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.