Environmental Statement
KQSL
7/28/2018

No change in the main facility in Laytonville, CA, is proposed. Employing the methods set forth in OET Bulletin No. 65 and considering a main-lobe effective radiated power of 26 kW, an antenna radiation center 51 meters above ground, and assuming a vertical relative field value of 20 percent at the steeper elevation angles for the Bogner antenna, maximum power density two meters above ground of 0.014 mw/cm^2 is calculated to occur near the base of the tower. Since this is only 7.0 percent of the 0.2 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on channel 8 (180-186 MHz), this is considered a minor environmental action with respect to public and occupational ground-level exposure to non-ionizing electromagnetic radiation.

The additional transmitter at the Hopland site will have a main-lobe effective radiated power of 1 kW, an antenna radiation center 7 meters above ground, and assuming a vertical relative field value of less than 10% at the steep elevation angles for the antenna, a maximum power density two meters above ground of 0.014 mw/cm^2 is calculated to occur near the base of the tower. Since this is only 7.0 percent of the 0.2 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on channel 8 (180-186 MHz), this is considered a minor environmental action with respect to public and occupational ground-level exposure to non-ionizing electromagnetic radiation.

Nevertheless, both towers are fenced, and the applicant is diligent to ensure placards warning of radiation hazard are posted in and around the site always. Furthermore, station staff are trained how to cease operation if anyone climbs the tower.