Engineering Statement and Interference Analysis

This application modifies BXLCDT-20110201ABP, an auxiliary license for KVME-TV on channel 20 in Bishop, California, Facility ID 83825.

The proposed facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed auxiliary antenna is located 15 meters above ground level. The maximum ERP is 0.35 kW (horizontal polarization). A "worst-case" vertical plane relative field value of 0.22 (for angles below 28 degrees downward) is assumed for the antenna's downward radiation, see Attachment A. The calculated power density at a point 2 meters above ground level is less than 0.0629 mW/cm^2. This is less than 18.5% of the FCC's recommended limit of 0.34 mW/cm^2 for channel 20 for an "uncontrolled" environment. Attachment B is a map illustrating the proposed auxiliary facility of KVME-TV covering 11,889 persons and encompasses all of Bishop, CA.

The proposed auxiliary antenna is located atop the station's studio building because the transmitter site is sometimes snowed-in in the winter. It is believed that no significant effect on the human environment with regard to exposure of the general public.