

**Engineering Statement and Interference Analysis**

This Technical Exhibit supports this application to requests a construction permit for an auxiliary facility for digital television station KBBC-DT at Bishop, California.

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 5 meters above ground level. The maximum ERP is 0.5 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 0.0898 mW/cm<sup>2</sup>. This is -44.9% of the FCC’s recommended limit of 0.34 mW/cm<sup>2</sup> for channel 20 for an “uncontrolled” environment. Attachment B is a map illustrating the proposed auxiliary facility of KBBC-DT covering 11,090 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.