



## **RADIO FREQUENCY IMPACT, SAFETY & STATEMENT OF COMPLIANCE**

The licensee of KDBC-TV is committed to the protection of station personnel and/or tower contractors working in the vicinity of the KDBC-TV antenna and will reduce power or cease operation, when necessary, to ensure protection to personnel.

The KDBC-TV channel 18 facility as proposed herein will operate with a maximum ERP of 1000 kW from an elliptically polarized directional transmitting antenna with a centerline height of 102 meters above ground level (AGL). Considering the elevation pattern submitted elsewhere in this submission, the vertical plane relative field factor is less than 0.100 at all depression angles greater than 10 degrees. The proposed KDBC-TV channel 18 facility is predicted to produce a worst-case power density at two meters above ground level, at 46.6 meters from the tower base, of  $33.38 \mu\text{W}/\text{cm}^2$ , which is 10.08% of the FCC guideline value of  $331.33 \mu\text{W}/\text{cm}^2$  for an "uncontrolled" environment, and 2.02% of the FCC's guideline value for "controlled" environments. However, because the proposed facility is located in close proximity to other DTV and FM radio stations, the cumulative power density of all the stations operating from the shared site must be considered.

In light of the above, once the proposed facility is authorized and installed, an RFR measurement survey will be undertaken to determine the effect of the proposed facility on the RFR environment. Any changes necessary to the existing RFR safety plan will be made accordingly. Further, the applicant is committed to reducing power or ceasing operation as necessary to protect persons having access to the site, tower or antenna from RF electromagnetic fields in excess of FCC's occupational guidelines.