



RADIO FREQUENCY IMPACT, SAFETY & STATEMENT OF COMPLIANCE

As shown in Appendix A the KCFW-TV channel 17 facility as proposed herein will operate with a maximum ERP of 400 kW from an elliptically polarized non-directional transmitting antenna with a centerline height of 67 meters above ground level (AGL). Considering the elevation pattern provided elsewhere in this submission, the vertical plane relative field factor is less than 0.175 at all depression angles greater than 9 degrees. The proposed KCFW-TV channel 17 facility is predicted to produce a worst-case power density at two meters above ground level, at 37.5 meters from the tower base, of $124.48 \mu\text{W}/\text{cm}^2$, which is 38.03% of the FCC guideline value of $327.33 \mu\text{W}/\text{cm}^2$ for an “uncontrolled” environment, and 7.61% of the FCC’s guideline value for “controlled” environments. There is one full-service DTV station, KUKL-TV, one LPTV station, K25KZ-D, one full power FM station, KALS and one reserved band FM station, KLKM, that are located within the relevant distance of 415 meters from the KCFW-TV site. The two DTV facilities contribute an additional 4.77% to the “uncontrolled” environment and 0.95% to the “controlled” environment. The two FM facilities contribute an additional 72.88% to the “uncontrolled” environment and 14.58% to the “controlled” environment. The total predicted power density from all five of these facilities is 115.68% of the “uncontrolled” guideline and 23.14% of the “controlled” environment” guideline.

Since the total RF power density at the site is predicted to exceed 100% of the “uncontrolled” guideline the applicant will conduct RF measurements to confirm the signal levels and will take measures necessary to demonstrate that the transmission site will

comply with the FCC's environmental guidelines, and will continue to cooperate/coordinate with the other site users and reduce power and/or cease operation during times of service or maintenance of the transmission systems as necessary to avoid potentially harmful exposure to personnel.

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