

Site Selection and RF Energy Exposure

KUVN License Partnership, L.P.

KUVN-DT Garland, TX

Channel 23 365 kW-DA 517 m

This application proposes use of a multiple-use communications tower owned by American Tower, located in the “antenna farm” near Cedar Hill, TX. No physical construction is proposed outside the existing transmitter building. Use of currently utilized, shared sites in areas with similar structures is environmentally preferred.

Operation on channel 23, with its center frequency of 527 MHz, implies a radiofrequency radiation exposure guideline value of $351 \mu\text{W}/\text{cm}^2$ for the general population. The proposed Dielectric TFU-10DSC/R C170 antenna will have its radiation center 385.6 meters above ground level. The maximum downward radiation value, at depression angles greater than 50° , does not exceed 0.2. Consequently, the worst-case predicted exposure level at 2 meters above ground level will not exceed $1.58 \mu\text{W}/\text{cm}^2$. This exposure level is 0.45% of the guideline value, far below the “responsibility threshold” of 5%. Access to the site and tower base is restricted by fencing and marked by appropriate warning signs. A formal RFE exposure control protocol is in effect for on-tower work. The applicant recognizes its responsibility to reduce power or interrupt operation during tower work, to ensure safe working conditions for rigging personnel.

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