

Attachment 46  
Environmental Considerations  
**KUVN License Partnership, L.P.**  
KUVN-DT Garland, TX  
Ch 23 1000 kW-DA 517m

This application proposes continued use of the present KUVN/KUVN-DT transmitter site, which is a multiple-user facility owned by American Towers, Inc. No physical construction is proposed outside the existing transmitter building. Use of shared sites located in areas where other towers are present is environmentally preferred. Implementation of this proposal will result in a 63% reduction in radiated energy with respect to the current analog and transitional digital facilities of this station at this site.

Operation is proposed on channel 23, with its center frequency of 527 MHz yielding a radiofrequency radiation exposure guideline value of  $351 \mu\text{W}/\text{cm}^2$  for the general population. The Andrew ATW30H4-ETCX-23H antenna, with its radiation center 456 meters above ground level, has a maximum downward radiation value, at depression angles of  $60^\circ$  or higher, of 0.030 at  $73\frac{1}{2}^\circ$  for its horizontally-polarized component and 0.064 at  $73^\circ$  for its vertically-polarized component, which has 20% of the horizontally-polarized power. Consequently, the worst-case predicted exposure level at 2 meters above ground level is  $0.279 \mu\text{W}/\text{cm}^2$ , 0.08% of the guideline value and far below the "responsibility threshold" of 5%. Access to the tower base is restricted by fencing, with appropriate warning signage.

16 June 2008



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