

Attachment 46
Environmental Considerations
KUVI License Partnership, G.P.
KUVI-DT Bakersfield, CA
Channel 45 620 kW-DA 404 m

This application proposes continued use of the present KUVI-TV/KUVI-DT transmitter site, which is a multiple-user facility located atop Mt. Adelaide. No physical construction is proposed outside the existing transmitter building. Use of currently utilized, shared sites is environmentally preferred. Implementation of this proposal will result in a 64% reduction in radiated energy with respect to the current analog and transitional digital facilities of this station at this site. Previous applications for construction permits and licenses have demonstrated that excessive exposure to electromagnetic energy does not occur under present conditions.

Operation is proposed on channel 45, with its center frequency of 659 MHz yielding a radiofrequency radiation exposure guideline value of $439 \mu\text{W}/\text{cm}^2$ for the general population. The Andrew ATW30H3-HSC-45 antenna has its radiation center 44 meters above ground level. Its maximum radiation toward ground, at depression angles exceeding 60° , is 0.032 at 80° . Consequently, the worst-case predicted exposure level at 2 meters above ground level is $12.0 \mu\text{W}/\text{cm}^2$. This calculated exposure level is 2.74% of the guideline value.

This site is remotely located on a mountaintop, with the access road gated and locked far from the tower. Access to the site and tower base is further restricted by fencing, with appropriate warning signage.

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