

Attachment 46
Environmental Considerations
Univision Salt Lake City LLC
KUTH-DT Provo, UT
Channel 32 194 kW-DA 812 m

This application proposes continued use of the present KUTH transmitter site, which is a multiple-user facility owned by Roberts Broadcasting of Salt Lake City LLC. 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 an 87% reduction in radiated energy with respect to the current analog 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 32, with its center frequency of 581 MHz yielding a radiofrequency radiation exposure guideline value of $387 \mu\text{W}/\text{cm}^2$ for the general population. The Superior Broadcast Products UP-10-SSL/32 antenna has its radiation center 38 meters above ground level. The maximum radiation value at depression angles exceeding 45° is 0.1. Consequently, the worst-case predicted exposure level at 2 meters above ground level is $50 \mu\text{W}/\text{cm}^2$, which is 12.9% of the guideline value.

Attached hereto is the RFR Statement filed with the station's license renewal. With KUTH operating at an average ERP of 1536 kW ($3072 * [0.4 + 0.1]$), the highest total RFR level measured on the site was 31% of the general public protection guideline value. With the far lower ERP proposed herein, a reduction of exposure is expected.

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