

**APPLICATION FOR LICENSE
BLUESTONE LICENSE HOLDINGS, INC.
KRCR-DT, REDDING, CALIFORNIA**

Environmental Considerations

The antenna used for the KRCR-DT operation with maximum effective radiated power of 105.9 kilowatts is that currently used pursuant to Special Temporary Authority. The antenna is mounted on the existing KRCR, channel 7, antenna supporting tower at a height of 28 meters above ground. Use of this established transmitting site with no change in the existing tower height assures the avoidance of a significant effect that would require preparation of an environmental assessment. Furthermore, as discussed below, the operation would comply with the maximum permitted RF exposure.

Calculated maximum RF exposure in the vicinity of the KRCR tower, at a height of two meters above ground, stemming from the proposed operation on channel 34 is 93.3 microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$), 23.6 percent of the general population/uncontrolled maximum permitted exposure of $395 \mu\text{W}/\text{cm}^2$ at channel 34. Calculated maximum RF exposure at two meters above ground from KRCR-TV, channel 7, mounted on the same tower, is $95.7 \mu\text{W}/\text{cm}^2$ 47.8 percent of the $200 \mu\text{W}/\text{cm}^2$ permitted. The calculations were performed as prescribed in OET Bulletin 65.

Procedures for avoiding excessive exposure during work on the tower assure that, with the KRCR-DT transmission system in use, maintenance tasks can be carried out without subjecting workmen to exposure in excess of that permitted by the rules. Power will be reduced, or transmitters shut down as necessary to avoid over-exposure.