

RF HAZARD STATEMENT
APPLICATION FOR CONSTRUCTION PERMIT
FM BROADCAST STATION KRDO-FM
SECURITY, COLORADO
CH 288C2 1.6 KW (MAX-DA) 652 M HAAT

With respect to the potential for human exposure to radio frequency (RF) energy, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposed KRDO-FM facility will not result in human exposure to RF energy at ground level in excess of FCC standards.

The proposed KRDO-FM facility will employ an Electronics Research, Inc. (ERI) “rototiller” type antenna with 2 bays and $\frac{1}{2}$ -wavelength spacing. The antenna will be mounted on the side of an existing tower and will have a radiation center height above ground level of 43 meters. An RF exposure analysis conducted using the FCC *FMMModel* Version 2.10 indicates that the RF exposure at 2 m above ground anywhere in the vicinity of the proposed facility will not exceed $5.6 \mu\text{W}/\text{cm}^2$, which is equivalent to 2.8% of the FCC exposure limit for general population / uncontrolled environments of $200 \mu\text{W}/\text{cm}^2$. This is within the 5% exclusion level outlined in Section 1.1307 of the FCC Rules. Therefore, the proposal complies with the FCC limits for human exposure to RF energy and it is categorically excluded from environmental processing.

The applicant, in coordination with any other users of the transmission facility, shall reduce power or cease operation as necessary to protect persons having access to the tower or antenna from RF energy in excess of the FCC guidelines.