

TECHNICAL SUMMARY
APPLICATION FOR CONSTRUCTION PERMIT
CLASS A STATION KQDK-CD
DENVER, COLORADO
CHANNEL 16 0.56 KW (DA)

1. The instant application is the initial 90 day 'Checklist' application for the reassigned facilities of KQDK-CD, Denver, Colorado (Ch. 16). It is proposed to replace the existing side-mount antenna with a new side-mount antenna (antenna information attached). There will be no change in antenna radiation center height (1769 meters AMSL). There will also be no change in the overall structure height. There is no extension of the predicted service area relative to the baseline reassignment facility listed in the FCC's Closing and Reassignment Public Notice. Also, the proposed facility is compliant with the 95% population service requirement. See attached FCC *TVStudy* analysis exhibit.

2. As also demonstrated in the *TVStudy* analysis exhibit, the proposal complies with the FCC's interference protection requirements based on a cell size of 2.0 km and profile resolution of 1.0 points/km.

3. RFR Compliance: The proposed facilities were evaluated in terms of potential radiofrequency radiation (RFR) exposure at ground level to workers and the general public. The radiation center for the proposed DTV antenna will be located 79 meters above ground level. The total DTV ERP is 0.56 kW (horizontal polarization). A worst case vertical plane relative field value of 1.0 is presumed for the antenna's downward radiation (for angles below 60 degrees downward). The calculated power density at a point 2 meters above ground level is 3.1 uW/cm^2 which is 0.96% of the FCC's recommended limit of 323.3 uW/cm^2 for channel 16 for an uncontrolled environment. Therefore, based on the responsibility threshold of 5%, the proposal will comply with the RF emission rules.

Access to the transmitting site is restricted and appropriately marked with RFR warning signs. Also, as this is a multi-user site, a protocol will be in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures will be taken to assure worker safety with respect to RFR exposure. Such measures include limiting the exposure time, wearing protective clothing, reducing power to an acceptable level or termination of transmitter output power all together until workers leave the restricted area.