

TECHNICAL SUMMARY  
APPLICATION FOR CONSTRUCTION PERMIT  
TELEVISION STATION KDVR(TV)  
DENVER, COLORADO  
CHANNEL 36 590 KW (H), 118 KW (V) 291 M HAAT

1. The instant application is the initial 90-day ‘Checklist’ application for the reassigned facilities of KDVR(TV), Denver, CO (Channel 36). The proposed KDVR(TV) facility will replace its existing side-mounted directional antenna with a new side-mounted directional antenna, which will operate on Channel 36. The antenna radiation center height above ground level will remain unchanged and there will be no change in the overall structure height.

2. Considering the given antenna structure registration site elevation, the antenna radiation center height above mean sea level for the proposed facility is specified as 2323.7 m. In addition, it is noted that the antenna radiation center height above average terrain (HAAT) was re-calculated considering the change to the value in agreement with that given by the FCC’s *TVStudy* analysis software.

3. In addition to 1° of electrical beam tilt, the proposed facility will employ 0.75° of mechanical beam tilt at 110° True. The elevation pattern was uploaded to the FCC system and it is employed in all contour calculations and the *TVStudy* analysis.

4. As a result of the antenna pattern differences, the maximum effective radiated power (ERP) was reduced to 590 kW to maintain the predicted service area of the proposed facility within 1% of the KDVR(TV) baseline reassignment facility listed in the FCC’s Closing and Channel Reassignment (CCR) *Public Notice*. See attached *TVStudy* analysis results.

5. The proposed facility is compliant with the 95% population service requirement relative to the CCR baseline facility as outlined in the CCR.

6. The instant proposal is compliant with the principal city coverage requirements of Denver. This is illustrated in the Predicted Coverage Contours exhibit (Figure 1).