

TECHNICAL SUMMARY
APPLICATION FOR CONSTRUCTION PERMIT
TELEVISION STATION KSWB-TV
SAN DIEGO, CALIFORNIA
CHANNEL 26 350 KW (H), 105 KW (V) 601 M HAAT

1. The instant application is the initial 90-day ‘Checklist’ application for the reassigned facilities of KSWB-TV, San Diego, CA (Channel 26). The proposed KSWB-TV facility will replace its existing top-mounted directional antenna with a new top-mounted directional antenna of a similar type. The antenna radiation center height above ground level will change from 55.2 m to 58.8 m as a result of the change. There will be no change in the overall structure height, since the new antenna will be mounted within the aperture space of the existing top-mounted pylon to be removed.

2. With the change in antenna radiation center height above ground and considering the given antenna structure registration site elevation, the new antenna radiation center height above mean sea level is specified as 840 m. In addition, it is noted that the antenna radiation center height above average terrain (HAAT) was re-calculated considering all changes 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 1° of mechanical beam tilt at 240°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 increase in radiation center height, in addition to the slightly changed azimuth pattern, the maximum effective radiated power (ERP) was reduced to 350 kW to maintain the predicted service area of the proposed facility within 1% of the KSWB-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 San Diego. This is illustrated in the Predicted Coverage Contours exhibit (Figure 1).