

TECHNICAL SUMMARY  
APPLICATION FOR CONSTRUCTION PERMIT  
CLASS A STATION KCRP-CD  
CORPUS CHRISTI, TEXAS  
CHANNEL 17 8.85 KW (DA)

1. The instant application is the initial 90 day ‘Checklist’ application for the reassigned facilities of KCRP-CD, Corpus Christi, Texas (Ch. 17). It is proposed to replace the existing side-mounted directional antenna with a new side-mounted directional antenna. There will be no change in antenna radiation center height (107.2 meters AMSL). There will also be no change in the overall structure height (ASRN 1051895). 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, as indicated by the attached *TVStudy* analysis exhibit, the proposed facility is compliant with the 95% population service requirement and the FCC’s interference requirements. A cell size of 2.0 km and a profile resolution of 1.0 points/km were utilized for the *TVStudy* analysis.

2. 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 95 meters above ground level. The total DTV ERP is 12.29 kW (8.85 kW-horizontal, 3.44 kW-vertical). A conservative vertical plane relative field value of 0.25 is presumed for the antenna’s downward radiation (for angles below 60 degrees downward, see attached antenna information). The calculated power density at a point 2 meters above ground level is  $2.97 \text{ uW/cm}^2$  which is 0.91% of the FCC’s recommended limit of  $327.3 \text{ uW/cm}^2$  for channel 17 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.