

TECHNICAL SUMMARY  
APPLICATION FOR CONSTRUCTION PERMIT  
CLASS A STATION KCWT-CD  
LA FERIA, TEXAS  
CHANNEL 23 15 KW (ND)

1. The instant application for KCWV-CD on channel 23 at La Feria, Texas is filed in response to the FCC's Public Notice which temporarily lifted the freeze on the filing of minor modification applications that expand the contour or full power and Class A TV stations.<sup>1</sup> It is proposed to relocate the KCWV-CD transmitter site and modify facilities. There will be no change in the overall structure height of the existing tower to be used for KCWV-CD's operation (ASRN 1051020).

2. Minor Change Application: The proposal is considered a minor change pursuant as there will be no change in channel, the licensed and proposed protected 51 dBu contours overlap (see Figure 1 attached) and the distance between the licensed and proposed sites (14.7 miles/23.7 km), will be less than 30 miles (48 km).

2. As demonstrated in the *TVStudy* analysis exhibit, the proposal complies with the FCC's interference protection requirements based on a cell size of 1.0 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 137 meters above ground level. The total DTV ERP is 18.75 kW (15 kW horizontal polarization, 3.75 kW vertical polarization). A worst-case vertical plane relative field value of 1 is presumed for the antenna's downward radiation. The calculated power density at a point 2 meters above ground level is 8.8 uW/cm<sup>2</sup> which is 2.5% of the FCC's recommended limit of 351.3 uW/cm<sup>2</sup> for channel 23 for an uncontrolled environment. Therefore, based on the responsibility threshold of 5%, the proposal will comply with the RF emission rules.

---

<sup>1</sup> *Media Bureau Temporarily Lifts the Freeze on the Filing of Minor Modification Applications That Expand the Contour of Full Power and Class A Television Stations from November 28 Through December 7, 2017*, Public Notice, DA 17-1086 (released November 6, 2017).

Access to the transmitting site is restricted and appropriately marked with RFR warning signs. Also, as this is a multi-user site, a formal RFR protection protocol is 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.