

TECHNICAL SUMMARY
APPLICATION FOR CONSTRUCTION PERMIT
LPTV STATION KFXV-LD
MCALLEN, TEXAS
CHANNEL 20 15 KW (DA)

1. The instant minor change application for KFXV-LD on channel 20 at McAllen, Texas proposes to increase antenna height and change the directional antenna pattern. No other changes are proposed including no change in the overall structure height of the existing tower (ASRN 1051020).

2. Minor Change Application: The proposal is considered a minor change pursuant to Section 74.787(b) as there will be no change in channel and the licensed and proposed protected 51 dBu contours overlap (see Figure 1 attached).

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 to all pertinent stations with the exception of the licensed operation of KXFX-CD on channel 20 at Brownsville, Texas (BLDTA-20150202ADU). However, as detailed elsewhere in this application, KXFX-CD has agreed to accept the interference caused by the proposed KFXV-LD operation.

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 253.5 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 9.9 uW/cm^2 which is 2.9% of the FCC's recommended limit of 339.3 uW/cm^2 for channel 20 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 markets 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 measure 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.