

DELAWDER COMMUNICATIONS, INC.

P.O. Box 1095
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ENGINEERING REPORT

KRVT-LP, Brownsville, TX, Channel 260 LPFM Site-move Minor

ENGINEERING STATEMENT – SECOND ADJACENT CHANNEL PROTECTION

KKPS(FM) (Brownsville, TX 258C0) and KTEX(FM) (Mercedes, TX 262C0) are second adjacent-channel FM stations to the proposed channel 260 LPFM facility. The 60 dBu F50,50 service contours of KKPS and KTEX extend well beyond the LPFM transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KKPS or KTEX.

Note that a rule waiver of Section 73.807 for this second adjacent-channel protection using the well-established *Living Way Ministries* Methodology is respectfully requested if such a rule waiver is deemed necessary for protection to any station.

The F50,50 signal strength from KKPS at the proposed LPFM transmitter site is greater than 76 dBu (the “desired” KKPS signal). The F50,50 signal strength from KTEX at the proposed LPFM transmitter site is greater than 77 dBu (the “desired” KTEX signal). The second/third adjacent-channel protection is an undesired-to-desired (“U/D”) dB signal strength ratio of 40:1. Therefore, predicted interference to KKPS and KTEX from the proposed LPFM facility is a signal of greater than or equal to 116 dBu.

The proposed ERP will be maintained at the minimum allowed ERP of 50 watts. This is based on an antenna centerline height of 36 meters AMSL (26 meters AGL) that has an HAAT of 29 meters. The Free Space Loss (“FSL”) 116 dBu signal extends 79 meters from the transmitting antenna. A vertical plane relative field pattern for the proposed Nicom BKG-77 three-bay halfwave-spaced antenna is attached. By adjusting for the vertical plane downward relative field values of the proposed antenna, it is herein demonstrated that the 116 dBu interfering signal (using a free space field determination) does not exist at any point at two meters above ground level (for downward angles of 0 to 40 degrees True – angles that do not hit the building) or to any point at two meters above the top floor of the building (a floor that is 10 meters or more below the antenna centerline). (Note that the rooftop is 18 meters AGL. A tower of approximately 12 meters in length exists on the roof of the building that will support the proposed antenna.)

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Attached is an FSL study using the spreadsheet recommended by the FCC for these types of studies. The clearance is at least 2.2 meters to the top floor of the building. (It is also noted that there are no other nearby buildings that are as tall or taller than the building that KRVI-LP will be mounted on.) Therefore, pursuant to the LPFM rules, KKPS and KTEX are adequately protected by the proposed facility.