

**DELAWDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

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**K225CM, Dallas, TX, Minor change to Channel 285D (due to channel 225 interference)**

**ENGINEERING STATEMENT**

**NON-ADJACENT CHANNEL CHANGE TO CHANNEL 285 (FROM 225) DUE TO PREDICTED INTERFERENCE TO THE KSKY(AM) CHANNEL 225 EMERGENCY FM REPEATER**

Bison Media, Inc. operates an Emergency FM Repeater for KSKY(AM), Balch Springs, TX on FM channel 225 as an STA that was originally granted on August 29, 2008. This STA operates with 775 watts omnidirectional ERP from near downtown Dallas.

Due to the KSKY(AM) FM repeater, a non-adjacent-channel move is requested by K225CM to channel 285. Figure EE1 is a map that shows the predicted 60 and 45 dBu F50,50 service contour associated with the Bison STA FM Repeater.

It is noted that none of the typical "minor" change channels to channel 225 (222, 223, 224, 226, 227, 228, 278 and 279) are available to K225CM as an alternative to its licensed channel 225 facility. On channel 285, all Section 74.1204 protection requirements to co-channel and first adjacent-channel FM stations are met – and a second adjacent-channel waiver is requested (below).

If deemed necessary by the FCC, this application will be amended to include a waiver request for the channel change to channel 285.

**SECOND/THIRD ADJACENT CHANNEL PROTECTION**

KKDA-FM, Dallas, TX (283C) and KRLD-FM, Dallas, TX (287C) are second adjacent-channel stations to the proposed channel 285 translator facility. The 60 dBu F50,50 service contour of both KKDA-FM and KRLD-FM extends well beyond the 285 translator's transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KKDA-FM or KRLD-FM.

Note that a rule waiver of Section 74.1204 for this second/third 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 both KKDA-FM and KRLD-FM at the proposed transmitter site is greater than 100 dBu (the “desired” 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 KKDA-FM and KRLD-FM from the proposed FMT facility is a signal of greater than or equal to 140 dBu.

The 140 dBu signal based on a free space field determination is predicted to extend out to 7 meters from the proposed channel 285 transmit antenna. The antenna clearance to ground level is at least 260 meters. Therefore, KKDA-FM and KRLD-FM are adequately protected by the proposed facility.