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ENGINEERING REPORT

K285HJ, Dallas, TX, Minor change to Channel 281D (due to channel 285 interference)

ENGINEERING STATEMENT

NON-ADJACENT CHANNEL CHANGE TO CHANNEL 281 (FROM 285) DUE TO INTERFERENCE CLAIMED BY KZMP-FM PILOT POINT, TX 285C0

The applicant has been made aware of complaints of interference to KZMP-FM 285C0 from K285HJ. It is noted that the KZMP-FM predicted 45 dBu F50,50 contour extends over the licensed K285HJ transmitter site.

It is noted that none of the typical “minor” change channels to channel 285 (231, 232, 282, 283, 284, 286, 287 and 288) are available to K285HJ as an alternative to its licensed channel 285 facility. On channel 281, 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).

SECOND/THIRD ADJACENT CHANNEL PROTECTION

KVIL(FM), Highland Park-Dallas, TX (279C) and KKDO-FM, Dallas, TX (283C) are second adjacent-channel stations to the proposed channel 281 translator facility. The 60 dBu F50,50 service contour of both KVIL(FM) and KKDO-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 KVIL(FM) or KKDO-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 KVIL(FM) and KKDO-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 KVIL(FM) and KKDO-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 11 meters from the proposed channel 281 transmit antenna. The antenna clearance to ground level is at least 120 meters. Therefore, KVIL(FM) and KKDO-FM are adequately protected by the proposed facility.