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ENGINEERING REPORT

K269GT, Houston, TX, Channel 269D Antenna Change Minor

ENGINEERING STATEMENT

DESCRIPTION OF ANTENNA CHANGE

Two side-by-side Kathrein (Scala) CL-FM(V) antennas are added to the existing Scala CA5-FM/CP antenna. The added CL-FM(V) antennas are described by Kathrein as "2xCLFM/VRM/VV spaced at 0.7 wavelength, phase 54 degrees-0 degrees-skewed at 161 degrees P3:2". The relative field values of this application were provided for this composite antenna by Kathrein Broadcast USA, Inc.

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection Houston stations KLOL (266C) and KMJQ (271C). KLOL and KMJQ are protected, as discussed below.

PROTECTION TO KLOL AND KMJQ

KLOL 266C and KMJQ 271C (both 36 kilometers South of the translator site) are second/third adjacent-channel stations to the proposed channel 269 translator facility. The 60 dBu F50,50 service contours of both KLOL and KMJQ extend well beyond the 269D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KLOL or KMJQ.

Note that a rule waiver of Section 74.1204 for this second and 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 KLOL at the proposed 269D transmitter site is greater than 84 dBu (the "desired" signal KMJQ). The F50,50 signal strength from KMJQ at the proposed 269D transmitter site is greater than 82 dBu (the "desired" signal of KMJQ). The second/third adjacent-channel protection is an undesired-to-desired ("U/D") dB signal strength ratio of 40:1. Therefore, predicted interference to KLOL and KMJQ is a 269D signal of greater than or equal to 122 dBu.

The 122 dBu signal based on a free space field determination is predicted to

extend out to 88 meters from the proposed 269D transmit antenna. The interfering signal level will not reach any point at ground level or at 2 meters above ground level. (The clearance is at least 50 meters.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KLOL and KMJQ is adequately protected by the proposed facility.