

**DELAUDER COMMUNICATIONS, INC.**

P.O. Box 1095  
Ashburn, Virginia 20146-1095  
(703) 299-9222

**ENGINEERING REPORT**

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**K287BQ, Alvin, TX, Minor Change to Houston, TX Site**

**ENGINEERING STATEMENT**

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to KAMA-FM, Deer Park, TX 285C2 and KHCB-FM, Houston, TX 289C. KAMA-FM and KHCB-FM are protected, as discussed below.

**PROTECTION TO KAMA-FM AND KHCB-FM**

KAMA-FM 285C2 (25 kilometers at 36 degrees True bearing from the 287D site) and KHCB-FM 289C (0.9 kilometers at 218 degrees True bearing from the 287D site) are both second adjacent-channel stations to the proposed channel 287D facility. The 60 dBu F50,50 service contour for both KAMA-FM and KHCB-FM extends well beyond the 258D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KAMA-FM or KHCB-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 KAMA-FM at the proposed 287D transmitter site is greater than 74 dBu (the KAMA-FM "desired" signal). The F50,50 signal strength from KHCB-FM at the proposed 287D transmitter site is greater than 95 dBu (the KHCB-FM "desired" signal). The second/third adjacent-channel protection of Section 74.1204 is an undesired-to-desired ("U/D") dB signal strength ratio of 40:1. Therefore, predicted interference to KAMA-FM from the proposed 287D facility is a signal of greater than or equal to 114 dBu. (The interference to KAMA-FM is considered the possible worst-case of interference since KHCB-FM has a stronger signal at the 287D tower site. Protection to KAMA-FM will also represent adequate protection to KHCB-FM.)

The 114 dBu signal based on a free space field determination is predicted to extend out to 140 meters from the proposed 287D transmitter 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 300 meters.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KAMA-FM and KHCB-FM are adequately protected by the proposed facility.