

DELAWDER COMMUNICATIONS, INC.

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

ENGINEERING REPORT

K222CH, Move to Houston, TX, Minor Change to Channel 273D (as Translator for KBRZ-AM)

ENGINEERING STATEMENT

Applicant submits this minor change Application for K222CH, Three Rivers, TX, for a move to a transmitter site in Houston, TX as a fill-in for AM station KBRZ. The proposed channel is 273. The site move is a distance of 176 miles—well within the allowable move distance of 250 miles for this applicable AM Revitalization application.

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to Houston stations KMJQ 271C and KLTN 275C. KMJQ and KLTN are protected, as discussed below.

PROTECTION TO KLTN AND KMJQ

KLTN 271C and KMJQ 275C are second adjacent-channel stations to the proposed channel 273D translator facility. The 60 dBu F50,50 service contour of both KLTN and KMJQ extend well beyond the 273D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KLTN 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 KLTN at the proposed 273D transmitter site is greater than 82 dBu (the “desired” signal for KLTN). The F50,50 signal strength from KMJQ at the proposed 273D transmitter site is greater than 110 dBu (the “desired” signal for 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 KLTN or KMJQ is a 273D 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 67 meters from the proposed 273D transmitter site. The interfering signal level will not reach any point at ground level or at 2 meters above ground level.

Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KLTN and KMLQ are adequately protected by the proposed facility.