

DELAWDER COMMUNICATIONS, INC.

P.O. Box 1095
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ENGINEERING REPORT

K217DP, Barker, TX, Channel 231D FM Application

ENGINEERING STATEMENT

Centro Cristiano De Vida Eterna (pending assignee; "Applicant") proposes a channel change for its FM translator at Barker, TX (K217DP) from channel 217 to channel 231. To the extent deemed necessary by the FCC, Applicant respectfully requests a waiver of the Commission's translator processing rules to allow for the grant of this channel displacement application to a non-adjacent non-reserved band channel.

The displacement from channel 217 is deemed necessary due to interference predicted to and from KPVU(FM), Prairie View, TX, 217C2, located only 43.8 km from the licensed K217DP transmitter site. The following Preclusion Study Results demonstrate the unavailability of channel 217 along with that of the adjacent and intermod frequency channels to channel 217:

PRECLUSION STUDY RESULTS

Channels 214, 215 and 216 are precluded for use due to KTSU, Houston, TX, 215C3 (37 km at 96 degrees True from translator site).

Channels 216, 217 and 218 are precluded for use due to KPVU, Prairie View, TX, 217C2 (44 km at 327 degrees True from translator site).

Channels 218, 219 and 220 are precluded for use due to KUHA, Houston, TX, 219C2 (57 km at 53 degrees True from translator site).

Channels 270 and 271 are precluded for use due to KMJQ, Houston, TX, 271C (32 km at 130 degrees True from translator site).

CHANNEL AVAILABILITY

A site move of 10 kilometers south is being proposed by this amendment. All required protections are met by contour non-contour overlap pursuant to Section 74.1204, with the exception of protection to Houston second adjacent-channel stations

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KQBT (229C) and KTBZ-FM (233C). Both KQBT and KTBZ-FM are protected, as discussed below.

PROTECTION TO KQBT AND KTBZ-FM

KQBT (27.5 kilometers at 112 degrees True from proposed translator site) and KTBZ-FM (25.9 kilometers at 112 degrees True from proposed translator site) are second-adjacent channel facilities to the proposed channel 231D facility. The 60 dBu F50,50 service contour of these two full-powered FM stations extends well beyond the proposed channel 231D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to either KQBT or KTBZ-FM.

The F50,50 signal strength from KQBT at the proposed 231D transmitter site is 84 dBu (the “desired” signal to KQBT). The F50,50 signal strength from KTBZ-FM at the proposed 231D transmitter site is 89 dBu (the “desired” signal to KTBZ-FM). 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, lowest predicted interference level that will cause interference to either of these full-powered FM stations is a signal of greater than or equal to 124 dBu.

The 124 dBu signal based on a free space field determination is predicted to extend out to 27 meters from the proposed 231D transmit antenna. The interfering signal level will not reach any point at ground level or at 2 meters above ground level. Therefore, both KQBT and KTBZ-FM are adequately protected by the proposed facility.