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ENGINEERING REPORT

K291BK, Move to San Luis Obispo, CA, Minor Change to 243D (as Translator for KVEC-AM)

ENGINEERING STATEMENT

Applicant submits this minor change Application for K291BK, Chalfant Valley, CA, for a move to a transmitter site near San Luis Obispo, CA as a fill-in for AM station KVEC. The proposed channel is 243. The site move is a distance of 192 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 KSLY-FM, San Luis Obispo, CA, 241B. KSLY-FM is protected, as discussed below.

PROTECTION TO KSLY-FM

KSLY-FM 241B (0.1 kilometers away) is a second adjacent-channel station to the proposed channel 243D facility. The 54 dBu F50,50 service contour for KSLY-FM extends well beyond the 243D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KSLY-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 KSLY-FM at the proposed 243D transmitter site is greater than 110 dBu (the “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 KSLY-FM from the proposed 243D facility is a signal of greater than or equal to 150 dBu.

The 150 dBu signal based on a free space field determination is predicted to extend out to 3 meters from the proposed 243D transmit antenna and will not reach ground level. (The clearance to ground is over 16 meters at this mountain site tower.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KSLY-FM is adequately protected by the proposed facility.