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ENGINEERING REPORT

K294BX, Move to Santa Maria, CA, Minor Change to Channel 258D (as Translator for KSMX-AM)

ENGINEERING STATEMENT

Applicant submits this minor change Application for K294BX, Cambria, CA, for a move to a transmitter site near Santa Maria, CA as a fill-in for AM station KSMX. The proposed channel is 258. The site move is a distance of 67 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 KXFM, Santa Maria, CA, 256B. KXFM is protected, as discussed below.

PROTECTION TO KXFM

KXFM 256B (30.3 kilometers at 52 degrees True bearing from the 258D site) is a second adjacent-channel station to the proposed channel 258D facility. The 54 dBu F50,50 service contour for KXFM 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 KXFM.

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 KXFM at the proposed 258D transmitter site is greater than 73 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 KXFM from the proposed 258D facility is a signal of greater than or equal to 113 dBu.

The 113 dBu signal based on a free space field determination is predicted to extend out to 250 meters from the proposed 258D transmitter site. As shown by the attached aerial photograph of the proposed site, *there is no population located within the 113 dBu interfering contour distance of 250 meters*. Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KXFM is adequately protected by the proposed facility.



Google earth

feet 2000
meters 600

