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ENGINEERING REPORT

K274CJ, Santa Barbara, CA, 274D Site Move Minor Change

ENGINEERING STATEMENT

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to K272DI, Fillmore, CA, 272D and KVYB, Santa Barbara, CA, 277B. K272DI and KVYB are protected, as discussed below.

PROTECTION TO KVYB AND K272DI

KVYB (277B) and K272DI (272D) are second/third adjacent-channel stations to the proposed channel 274D translator facility. The respective 57 and 60 dBu F50,50 protected service contours of KVYB and K272DI extend well beyond the 274D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KVYB or K272DI.

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 KVYB at the proposed 274D transmitter site is greater than 88 dBu (the “desired” signal for KVYB). The F50,50 signal strength from K272DI at the proposed 274D transmitter site is greater than 91 dBu (the “desired” signal for K272DI). The second/third adjacent-channel protection is an undesired-to-desired (“U/D”) dB signal strength ratio of 40:1. Therefore, predicted interference to KVYB and K272DI is a 274D signal of greater than or equal to 128 dBu.

The 128 dBu signal based on a free space field determination is predicted to extend out to 24 meters from the proposed 274D transmitter site. As demonstrated by the attached aerial photo of the remote mountain location of the proposed translator site, there are no homes or major roads located within this distance. Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KVYB and K272DI are adequately protected by the proposed facility.



Google Earth

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