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ENGINEERING REPORT

Stockton, CA, Channel 288D FM Translator Application

ENGINEERING STATEMENT

All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to K290AG, Stockton, CA, 290D. K290AG is protected, as discussed below.

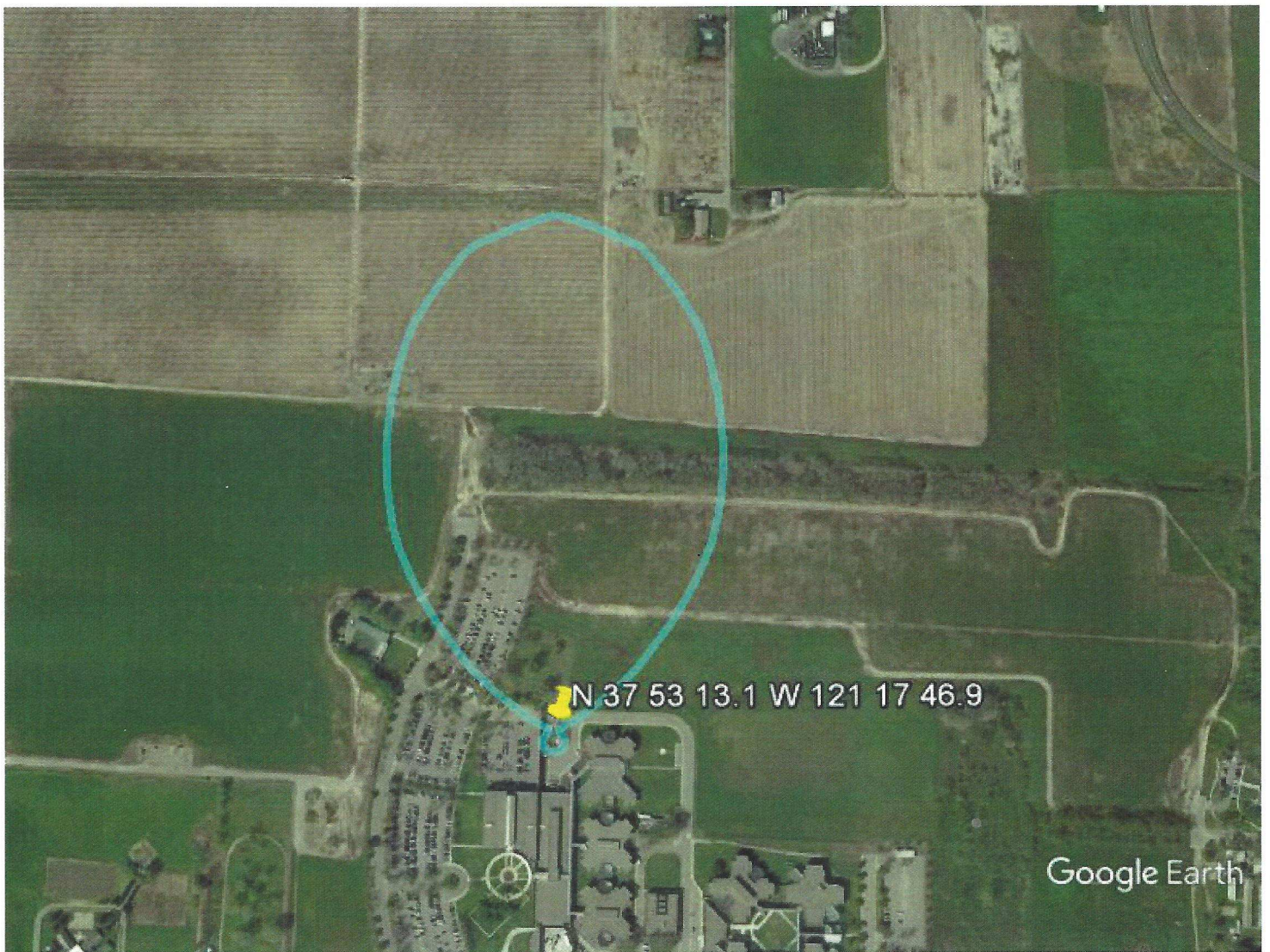
PROTECTION TO K290AG

K290AG (8 kilometers at 8 degrees from channel 288D site) is a second adjacent-channel station to the proposed channel 288D facility. The 60 dBu F50,50 service contours of K290AG extends slightly beyond the proposed 288D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to K290AG.

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 K290AG at the proposed 288D transmitter site is 64 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 K290AG from the proposed 288D facility is a signal of greater than or equal to 104 dBu.

The 104 dBu signal based on a free space field determination is predicted to extend out to 703 meters from the proposed 288D transmitter site. As shown by the attached aerial photograph of the proposed site, *there is homes, buildings or major roads located within the 104 dBu interfering contour*. Therefore, pursuant to Section 74.1204(d) of the FCC Rules, K290AG is adequately protected by the proposed facility.



Google Earth



The Proposed 104 dBu Free Space Loss Contour is Shown.