

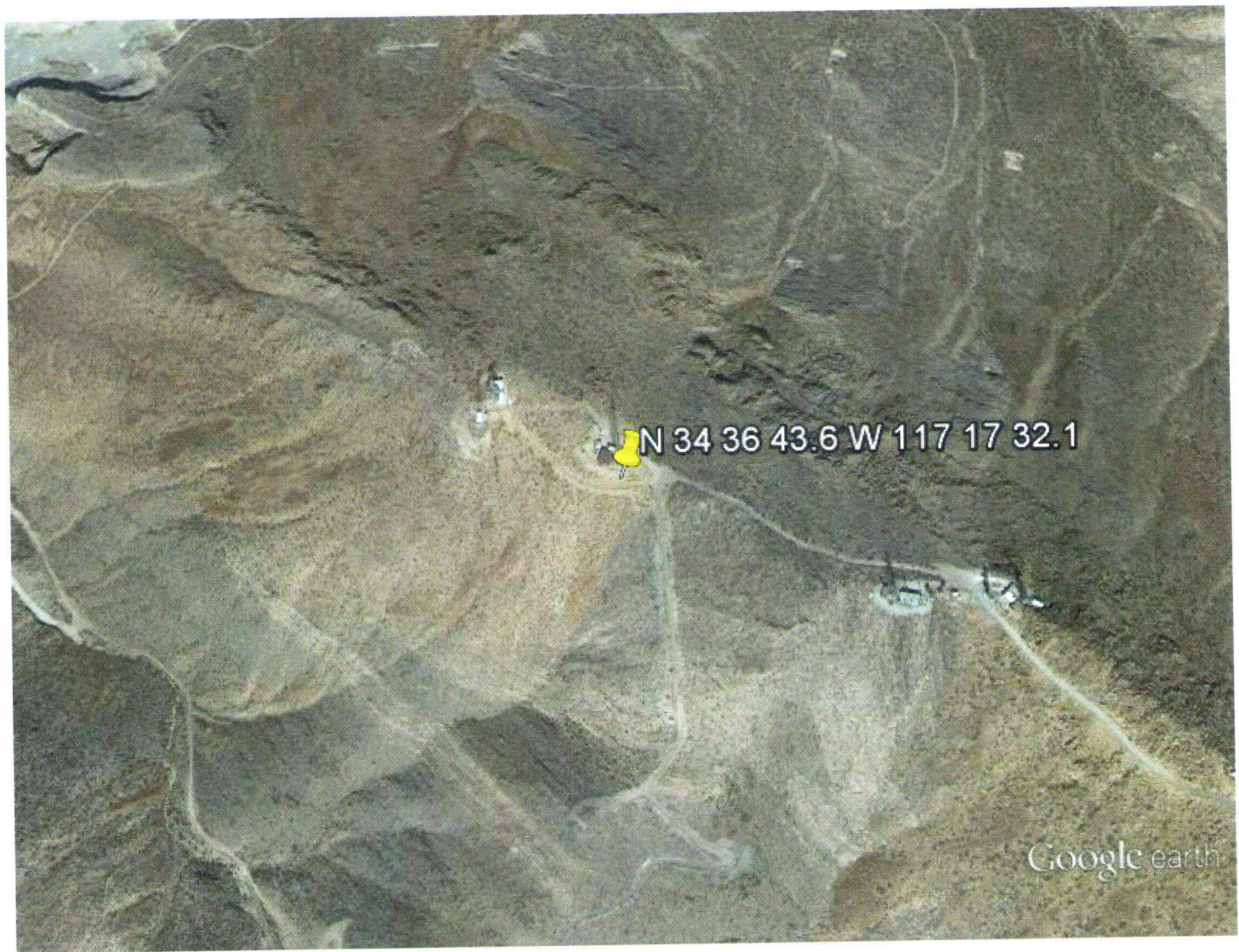
ENGINEERING STATEMENT – SECOND ADJACENT CHANNEL PROTECTION

KGGL, Riverside, CA, 256B, is second adjacent-channel to the proposed channel 254 LPFM facility and is located only 44.2 kilometers (at 162 degrees True bearing) from the proposed LPFM transmitter site. The 54 dBu F50,50 service contour extends well beyond the LPFM transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KGGL.

Note that a rule waiver of Section 73.807 for this second 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 KGGL at the proposed LPFM transmitter site is 64.5 dBu (the “desired” signal). The second/third adjacent-channel protection is an undesired-to-desired (“U/D”) dB signal strength ratio of 40:1. Therefore, predicted interference to KGGL from the proposed LPFM facility is a signal of greater than or equal to 104.5 dBu.

The 104.5 dBu signal based on a free space field determination is predicted to extend out to 42 meters from the proposed LPFM transmitter site (using the permitted one watt ERP for the LPFM at this mountain site). As shown by the attached aerial photograph of the proposed site, *there is no population located within the 104.5 dBu interfering contour distance of 42 meters.* Therefore, KGGL is adequately protected by the proposed facility.



Google earth

