

ENGINEERING STATEMENT – SECOND ADJACENT CHANNEL PROTECTION

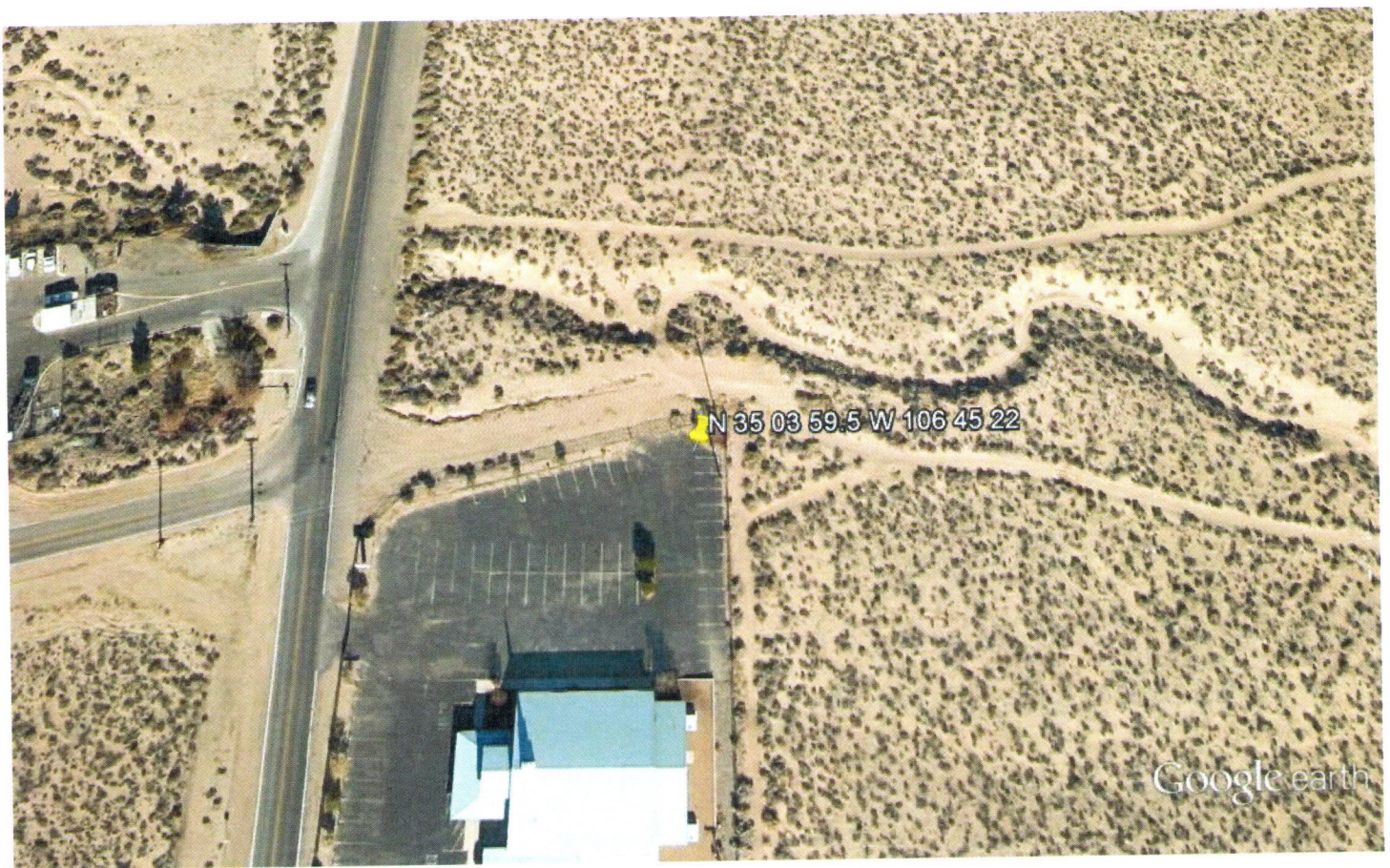
KMGA (258C) and KPEK (262C) are nearly co-located Albuquerque, NM stations that have identical facilities and that are second adjacent-channel to the proposed channel 260 LPFM facility. The KMGA/KPEK transmitter site is located only 32.3 kilometers (at 59 degrees True bearing) from the proposed LPFM transmitter site. The 60 dBu F50,50 service contour of each 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 KMGA or KPEK.

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 this station.

The F50,50 signal strength from both KMGA and KPEK at the proposed LPFM transmitter site is 87.7 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 KMGA and KPEK from the proposed LPFM facility is a signal of greater than or equal to 127.7 dBu.

The 127.7 dBu signal based on a free space field determination is predicted to extend out to 30 meters from the proposed LPFM transmitter site. As shown by the attached aerial photograph of the proposed site, *there is no population located within the 127.7 dBu interfering contour distance of 30 meters.* Therefore, KMGA and KPEK are adequately protected by the proposed facility.

FIGURE EE1: AERIAL PHOTO OF PROPOSED SITE



Google earth

feet 300
meters 100

30 meters

