

**DELAWDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

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**K254BZ, Houston, TX, Channel 254D FM Translator Minor Mod**

**ENGINEERING STATEMENT**

**PROTECTION TO KODA**

All contour non-overlap protection requirements are met with the exception of Houston, TX station KODA (256C), discussed below.

KODA (16 kilometers at 182 degrees True) is a second adjacent-channel station to the proposed channel 254D facility. The 60 dBu F50,50 service contour extends well beyond the proposed 254D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KODA.

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 KODA at the proposed 254D transmitter site is at least 98 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 KODA from the proposed 254D facility is a signal of greater than or equal to 138 dBu.

The single-bay antenna centerline is 42 meters AGL on top of the main roof (at 37 meters AGL). The main rooftop and higher penthouse of the building do not provide access to the general public. For the 14-watt ERP proposal, the 138 dBu interfering signal (using a free space field determination) extends only 4 meters from the antenna and, therefore, does not exist at any point where the public has access within the building (or on the building rooftop). Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KODA is adequately protected by the proposed facility.