

DELAUDER COMMUNICATIONS, INC.

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ENGINEERING REPORT

KTAV-LD, Los Angeles, CA LPTV Channel 21 Site-move Minor

ENGINEERING STATEMENT

EELLIPTICAL POLARIZATION

The Vertical polarization ERP will be one-half of the Horizontal polarization. The horizontal plane pattern of the vertically-polarized signal will be completely within the horizontal plane pattern of the horizontally-polarized signal.

INTERFERENCE PROTECTION RESULTS ON NEW CHANNEL

The output from the FCC's current "TVStudy" software is attached demonstrating full compliance with the FCC's protection requirements.

Consent Agreements required for grant of this application: NONE

The applicant accepts any interference that is predicted to exist to the proposed facility by any licensed, authorized or previously proposed primary TV station. The applicant also accepts any interference that is predicted to exist to the proposed facility by any secondary TV facility that is given preferential status by the FCC over the Applicant's herein proposed facility. Additionally, as deemed necessary, the applicant may agree to consent to interference (either by a separate statement submitted with this initial application or by an amendment to this application) from another LPTV displacement application that has been submitted in the same filing window.

It is noted that a 0.5 kilometer grid spacing (a higher resolution than the standard 1 km grid spacing) was used for the TVStudy run.

It is also noted that the TVStudy results indicate that "No land mobile station failures found" although it references the channel 20 land mobile short-spacing. With no land mobile station failures found by TVStudy, the instant proposal is in full accord with, and contemplated by Commission policy stated in Public Notice DA 18-124, released February 9, 2018, at Note 14 to Appendix. Notwithstanding the foregoing, should a waiver

of any other Commission policy or rule be required for this displacement proposal, such a waiver is hereby respectfully requested.

ENVIRONMENTAL STATEMENT

This proposal does not involve a site location specified under Section 1.1307(a) through (a)(8) of the FCC Rules.

The proposed LPTV produces an ERP that is equal to or less than 15 kilowatts. Assuming: (a) a maximum ERP of 15 kilowatts; (b) a relative field of less than 0.3 in the critical downward angles; and (c) a distance of at least 60 meters from the lowest antenna element to 2 meters above ground level, the maximum power density is calculated as follows:

$$S = 33.4 (F)(F)(ERP) / [(R)(R)]$$

Where, S equals power density in uW/cm²
F equals the relative field factor
ERP equals the effective radiate power in watts
R equals the distance in meters

$$= 33.4 (0.3)(0.3)(15,000) / [(60)(60)]$$

$$= 12.5 \text{ uW/cm}^2$$

12.5 uW/cm² represents less than 5% of the uncontrolled power density limit (315.3 uW/cm² for channel 14—channel 14 being the worst-case UHF channel or 200 uW/cm² for VHF). The electromagnetic radiation from this proposed operation will not produce a value in excess of the radiation standard. The electromagnetic radiation from the proposed operation will not combine with other facilities on or near the structure to produce a significant change in value.

If this is a structure that may support various other operations, the applicant will cooperate with the other operators in establishing a plan for work done on the structure in close proximity to the existing antenna.