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ENGINEERING REPORT

K21PI-D, Salinas, CA LPTV 21D Site-Move Minor

ENGINEERING STATEMENT

This amendment changes the electrical beam-tilt to 0.75 degrees. Note that this proposal is to move the licensed site by less than 30 miles.

INTERFERENCE PROTECTION RESULTS

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

Note that LMS license file number 137431 of KMTP-TV, San Francisco, CA is active in LMS. However, KMTP-TV actually operates on channel 32 (as granted in LMS file number 140842). FCC staff verified in an email on March 10, 2023 that removing KMTP-TV's channel 21 presence from the TVStudy run would be appropriate.

A 0.1 kilometer step is requested and used for the TVStudy run.

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.

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 5 kilowatts.

Assuming: (a) a maximum ERP of 10 kilowatts (for circular or elliptical polarization use); (b) a relative field of less than 0.2 in the critical downward angles; and (c) a distance of at least 90 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

$$= 33.4 (0.2)(0.2)(10000) / [(90)(90)]$$

$$= 1.6 \text{ uW/cm}^2$$

1.6 uW/cm² represents less than 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.