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ENGINEERING REPORT

K36IV-D, Jackson, MN LPTV (Channel 22)—Antenna Height Increase Amendment

ENGINEERING STATEMENT

DISPLACEMENT QUALIFICATION

This licensed LPTV station qualifies for channel displacement due to interference that is predicted to be caused to KWSD, Sioux Falls, SD 36D (LMS file number 35767). The FCC's current "TVStudy" software predicts 4.66 percent of increased interference to KWSD.

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.

Note: By separate attachment to this application, a waiver of Section 73.3517 – The Contingent Application Rule—is being requested regarding the predicted interference to the licensed K22HJ-D, Worthington, MN channel 22 Digital facility. The Applicant has been in discussions with the licensee of K22HJ-D and has filed a displacement application to channel 18 (LMS file number 54769). (K22HJ-D is being displaced by the KDLT-TV, Sioux Falls, SD re-pack CP {LMS file number 27512} for channel 21.)

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.

ENVIRONMENTAL STATEMENT

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

All digital LPTVs at this location combine to produce an ERP that is less than 50 kilowatts. Assuming: (a) a maximum ERP of 50 kilowatts; (b) a relative field of less than 0.2 in the critical downward angles; and (c) a distance of at least 80 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

$$= 33.4 (0.2)(0.2)(50,000) / [(80)(80)]$$

$$= 10.4 \text{ uW/cm}^2 \text{ (combined worst-case for all LPTVs at this site)}$$

10.4 uW/cm² represents less than 5% the uncontrolled power density limit (315.3 uW/cm² for channel 14—channel 14 being the worst-case UHF channel). (This site supports LPTVs located within the UHF TV spectrum.) 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.