

DELAWDER COMMUNICATIONS, INC.

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ENGINEERING REPORT

KZAU-LD, Killeen, TX LPTV (Channel 15)

ENGINEERING STATEMENT

INTERFERENCE PROTECTION RESULTS

Unchanged by this change from an omni horizontally-polarized antenna to an omni circularly-polarized antenna.

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.

The proposed LPTV produces an ERP that is equal to or less than 15 kilowatts. Assuming: (a) a maximum ERP of 30 kilowatts (twice 15 kW for circular polarization; (b) a relative field of less than 0.3 in the critical downward angles; and (c) a distance of 70 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

$$= 33.4 (0.3)(0.3)(30,000) / [(70)(70)]$$

$$= 18.4 \text{ uW/cm}^2$$

18.4 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.

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.