

**DELAUDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

**K34FM-LD, Austin, TX LPTV Channel 20D**

**ENVIRONMENTAL STATEMENT**

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

The licensed LPTV produces an ERP that is no greater 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 150 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/cm<sup>2</sup>  
F equals the relative field factor  
ERP equals the effective radiate power in watts  
R equals the distance in meters

$$= 33.4 (0.3)(0.3)(15,000) / [(150)(150)]$$

$$= 2.0 \text{ uW/cm}^2$$

2.0 uW/cm<sup>2</sup> represents less than 5% the uncontrolled power density limit (315.3 uW/cm<sup>2</sup> for channel 14—channel 14 being the worst-case UHF channel or 200 uW/cm<sup>2</sup> 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 licensee will continue to cooperate with the other operators in establishing a plan for work done on the structure in close proximity to the existing antenna.