

**DELAWDER COMMUNICATIONS, INC.**

2121 Eisenhower Avenue, Suite 200

Alexandria, Virginia 22314

(703) 299-9222

**ENGINEERING REPORT**

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**New NCE-FM Application: Newport, MN Channel 201A**

**EXHIBIT 22 - ENVIRONMENTAL STATEMENT**

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

This FM station proposal specifies an ERP that is less than or equal to 2 kilowatts (peak). Assuming: (a) a maximum ERP of 4 kilowatts (with circular polarization); (b) a relative field of less than 0.2 in the critical downward angles; and (c) a distance of 38 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

$$= 33.4 (0.2)(0.2)(4,000) / [(38)(38)]$$

$$= 3.7 \text{ uW/cm}^2$$

3.7 uW/cm<sup>2</sup> represents less than the uncontrolled power density limit (200 uW/cm<sup>2</sup> for FM). 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.