

**DELAWDER COMMUNICATIONS, INC.**

P.O. Box 1095  
Ashburn, Virginia 20146-1095  
(703) 299-9222

**ENGINEERING REPORT**

---

**WOIL-CD, Talladega, AL Re-Assignment Minor Change for TV Channel 23**

**ENVIRONMENTAL STATEMENT**

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

The digital Class A TV station of the Applicant at this location produces an ERP that is less than or equal to 1.85 kilowatts (H-polarity) and 0.56 kilowatts (V-polarity). Assuming: (a) a maximum ERP of 2.41 kilowatts; (b) a relative field of less than 0.2 in the critical downward angles; and (c) a distance of at least 30 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

$$= 33.4 (0.2)(0.2)(2,410) / [(30)(30)]$$

$$= 3.6 \text{ uW/cm}^2$$

3.6 uW/cm<sup>2</sup> represents less than 5% of the uncontrolled power density limit (315.3 uW/cm<sup>2</sup> for UHF; 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 applicant will cooperate with the other operators in establishing a plan for work done on the structure in close proximity to the existing antenna.