

**DELAWDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

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CTVN Harrisburg, LLC

W35BT: Displacement Digital Minor Modification (Channel 7D)

**EXHIBIT 12 - ENVIRONMENTAL STATEMENT**

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

All analog and digital LPTVs of the applicant at this location combine to produce an ERP that is less than 1 kilowatt. Assuming: (a) a maximum ERP of 1 kilowatt and circular polarization; (b) a relative field of less than 0.2 in the critical downward angles; and (c) a distance of at least 40 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

$$= 33.4 (0.2)(0.2)(1,000) / [(40)(40)]$$

$$= 0.8 \text{ uW/cm}^2 \text{ (combined worst-case for all LPTVs at this site)}$$

0.8 uW/ cm<sup>2</sup> represents less than 1% of the uncontrolled power density limit (200 uW/cm<sup>2</sup> for VHF; 315.3 uW/cm<sup>2</sup> for channel 14—channel 14 being the worst-case UHF channel). 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.