

DELAWDER COMMUNICATIONS, INC.

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ENGINEERING REPORT

WOYE(FM): Fajardo, PR FM Booster

EXHIBIT 16 - 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 booster station will produce an ERP that is less than 250 watts (peak). Assuming: (a) a maximum ERP of 250 watts and vertical polarization only (250 watts total); (b) a relative field of less than 0.3 in the critical downward angles; and (c) a distance of 25 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

$$= 33.4 (0.3)(0.3)(250) / [(25)(25)]$$

$$= 1.2 \text{ uW/cm}^2$$

1.2 uW/cm² represents less than 1% of the uncontrolled power density limit (200 uW/cm² 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.