

DELAWDER COMMUNICATIONS, INC.

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ENGINEERING REPORT

WEYS-LD, Miami, FL LPTV Channel 6D Antenna Minor Mod

ENGINEERING STATEMENT

CHANGE PROPOSED

The Applicant is changing the authorized 3 kW ERP omni antenna with a directional 3 kW ERP (maximum) antenna that will operate from the same centerline height as the CP centerline. Therefore, the overall effect of this change does not increase the ERP in any direction. The co-channel and adjacent-channel interference can only be lessened from that of the CP facility by this antenna change.

The applicant accepts any interference that is predicted to exist to the proposed facility by any licensed, authorized or previously proposed primary TV station. The applicant also accepts any interference that is predicted to exist to the proposed facility by any secondary TV facility that is given preferential status by the FCC over the Applicant's herein proposed facility.

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 LPTV of the Applicant at this location produces an ERP that is less than 3 kilowatts. Assuming: (a) a maximum ERP of 3 kilowatts; (b) a relative field of less than 0.5 in the critical downward angles; and (c) a distance of at least 242 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

$$= 33.4 (0.5)(0.5)(3,000) / [(242)(242)]$$

$$= 0.4 \text{ uW/cm}^2$$

0.4 uW/cm² represents less than 5% of the uncontrolled power density limit (315.3 uW/cm² for UHF; 200 uW/cm² 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.