

DELAUDER COMMUNICATIONS, INC.

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

ENGINEERING REPORT

W16EE-D, Augusta, GA LPTV Channel 16D Minor Amendment

ENGINEERING STATEMENT

This amendment changes the transmitter site and transmit facilities.

INTERFERENCE PROTECTION RESULTS

The output from the FCC's current "TVStudy" software is attached demonstrating full compliance with the FCC's protection requirements. A 0.1 kilometer step is requested and used for the TVStudy run.

Consent Agreements required for grant of this application:

W16EL-D (facility id 185710)

- 8.67% predicted increased interference to licensed W16EL-D facility;
- 63.81% predicted increased interference to W16EL-D CP facility (LMS 217786)

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.

Assuming: (a) a maximum ERP of 15 kilowatts; (b) a relative field of less than 0.2 in the critical downward angles; and (c) a distance of at least 120 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

$$= 33.4 (0.2)(0.2)(15,000) / [(120)(120)]$$

$$= 1.4 \text{ uW/cm}^2$$

1.4 uW/cm² represents less than the uncontrolled power density limit (315.3 uW/cm² for channel 14—channel 14 being the worst-case UHF channel or 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.