

Larry H. Will, P.E.

Broadcast Engineering

1055 Powderhorn Drive
Glen Mills, PA 19342-9504

PH (610) 399-1826
E-Mail lhwill@verizon.net

MARQUEE BROADCASTING INC.

LICENSEE OF WEVD-LD DOVER, DE

FCC FILE # 0000033780

**MINOR MODIFICATION OF LICENSE TO RELOCATE TRANSMITTER, CHANGE
ANTENNA HEIGHT AND INCREASE ERP**

RFR EXHIBIT

PROPOSED OPERATION

WEVD-LD, Channel 3, is proposing to utilize an average ERP of 1.25 kilowatts DA with horizontal polarization.

The proposed WEVD-LD, CH 3 transmitting antenna is a low gain unit with an elevation power gain of 1X side mounted with a base approximately 69 meters above ground. Because of the low gain, the ERP at angles departing +/- 60 degrees from the horizon is attenuated by a minimum of only 8 dB (0.165x field) times the main lobe power of 1250 watts or 200 watts maximum. For occupational/controlled environment (1.0 mW/cm² at 63 MHz) and utilizing Equation 10 of OET Bulletin 65 and allowing for the reduction at steep angles, the required physical separation is 2.6 meters. For general population/uncontrolled environment (0.20 mW/cm²), the required physical separation is 5.8 meters. Since the base of the antenna is 21 meters above ground, the height of the structure limits the possible excessive radiation values to at least 16 meters above the ground. Again using Equation 10 of OET Bulletin 65, and using the total RF power corrected for steep angles, the actual predicted RF level at 2 meters above the

ground from the proposed WEVD-LD is 34 uW/cm^2 or 10.3 % of the total allowable at 63 MHz.

Thus the WEVD-LD CH 3 antenna is calculated to contribute less than 11% of the allowable RFR energy at ground level in the vicinity of the existing tower for the general public/uncontrolled space. The proposed location of the transmitter and antenna will be within a locked and fenced area providing increase protection to the general public even below the values calculated herein.