

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 # 0000114251

MINOR MODIFICATION OF LICENSE TO RELOCATE TRANSMITTER

PURPOSE OF AMENDMENT

WEVD-LD, Channel 3, is proposing to relocate transmitter site and to specify the use of the facility Licensed parameters to demonstrate that the instant application satisfies the 30-30 Rule as well as the required overlap of the 43 dBu F(50,90) contours of the two facilities. EE Exhibit 1 satisfies that requirement and is included here.

A copy of the required distances output printout is included herein.

A copy of tvixstudy output file for WEVD-LD is included here as an upload.

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**MINOR MODIFICATION OF CP TO RELOCATE TRANSMITTER AND CHANGE
ANTENNA HEIGHT**

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 medium gain unit with an elevation power gain of 11X side mounted with a base approximately 17 meters above ground. Because of the low gain, the ERP at angles departing +/- 60 degrees from the horizon is attenuated by a minimum of 8 dB (0.04x field) times the main lobe power of 1200 watts or 48 watts. For occupational/controlled environment (1.0 mW/cm^2 at 63 MHz) and utilizing Equation 10 of OET Bulletin 65 and allowing for the reduction at steep angles, the required physical separation is 0.6 meters. For general population/uncontrolled environment (0.20 mW/cm^2), the required physical separation is 2.9 meters. Since the base of the antenna is 17 meters above ground, the height of the structure limits the possible excessive radiation values to at least 14 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 21.3 uW/cm^2 or 10.7 % of the total allowable at 509 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.

quick contours

Interference contour study

Propagation methods:

service contour : FCC-FCC 90.0%

43.0 dBµV/m service contour

Sites

Site: Red Lion Twr Site

N39°54'18.00" W76°34'56.80" 265.5 m

RedLn Tx.Ht.AGL: 12.2 m Total ERPd: 0.85dBKW

Grp: 1 directional-horizontal/120.0° 63.3090 MHz

Site: WEVD-LD7

N39°42'51.52" W76°09'28.35" 154.4 m

WEVDL7 Tx.Ht.AGL: 18.3 m Total ERPd: 0.85dBKW

Grp: 1 directional-horizontal/132.0° 63.3090 MHz

Notes

Required move distances.

{RED} WEVD-LD LIC 114251:

{BLUE} PROPOSED NEW LOCATION this application

30 mi (48.27 km) circle shown

NOTE: ch 3 Yagi oriented to 120 degrees True at Red Lion

prepared by

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KILOMETERS



REQUIRED OVERLAP MAP

WEVD-LD FACILITIES

Figure 1 rev

05/28/2020

