

ENGINEERING STATEMENT

This engineering data contained herein have been prepared on behalf of ECHO BROADCASTING NETWORK, INC., permittee of WSWL-LP, Channel 284L1 (104.7 MHz) in Valdosta, Georgia, in support of this Application for Construction Permit to specify a new transmitter site.

It is proposed to mount the licensed NIC BKG77-1 one-bay circularly polarized antenna near the top of a proposed 25.9-meter structure which will be located just 1.4 kilometers north of the presently licensed WSWL-LP site. The antenna radiation center will be 25.2 meters above ground and the expected effective radiated power of the station will be 100 watts (H,V). The predicted 60 dBu (1.0 mV/m) service contour of the proposed WSWL-LP facility is plotted in Exhibit B.

It is important to note that the site proposed herein meets the Commission's separation requirements to all full-power, low power and translator facilities operating on the same channel as WSWL-LP, as well as on all adjacent channels, as shown in the tabulation in Exhibit C.

A power density calculation is provided in Exhibit D.

Due to the diminutive height of the proposed antenna supporting structure and its proximity to the nearest airport runway, the Federal Aviation Administration has not been notified of this application. In addition, and for the same reasons, registration of the antenna structure with the Federal Communications Commission is not required. This conclusion is supported by the Commission's Towair software.

EXHIBIT A

I declare, under penalty of perjury, that the foregoing statements and the attached exhibits, which were prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.

A handwritten signature in blue ink, appearing to read "K. T. Fisher". The signature is written in a cursive style with a large initial "K" and a distinct "F" at the end.

KEVIN T. FISHER

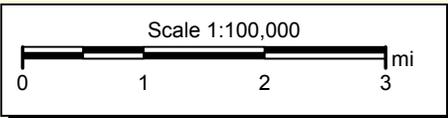
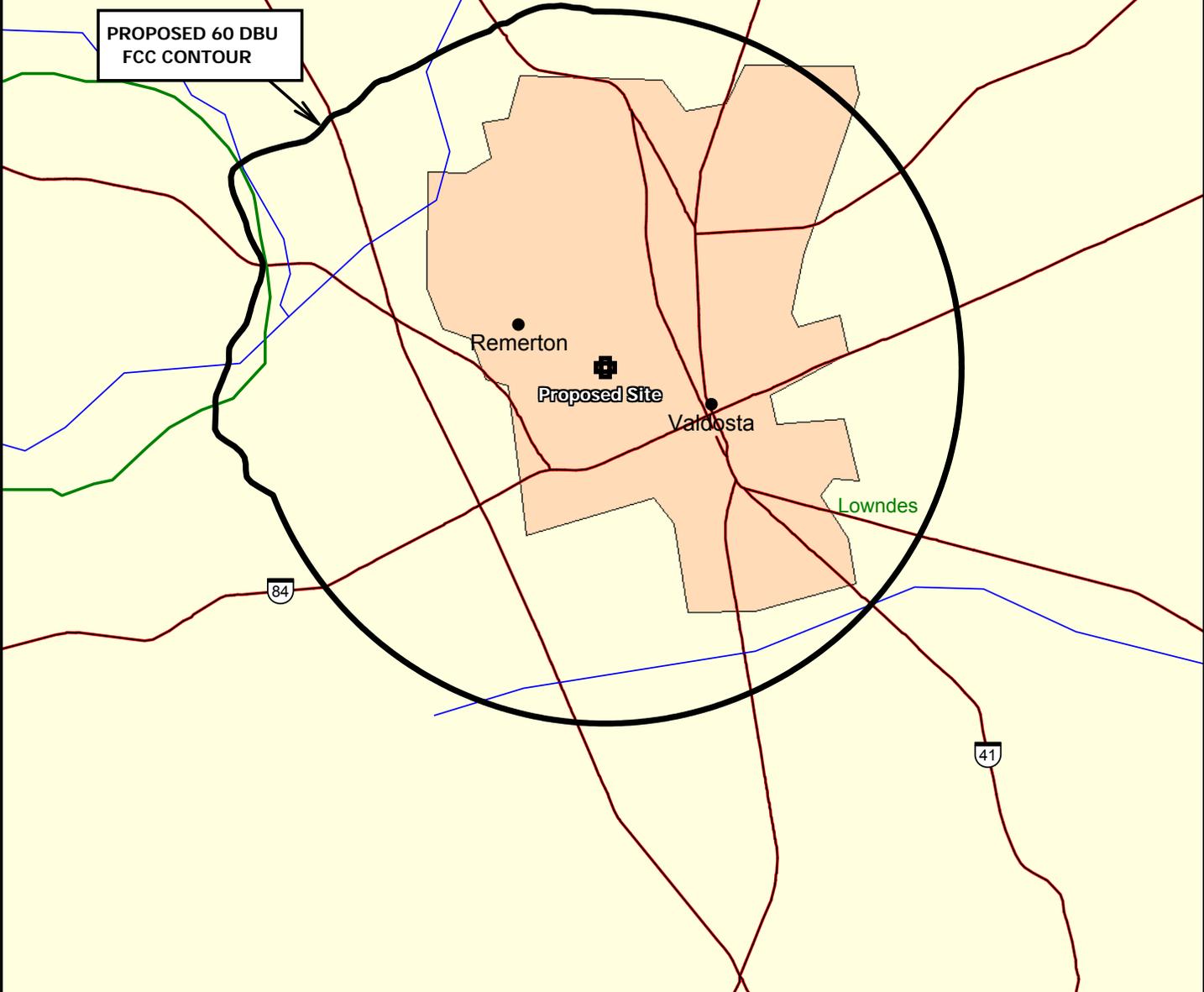
June 26, 2018

Proposed Site  
BLL20180423ACC  
Latitude: 30-50-15.90 N  
Longitude: 083-17-46.20 W  
ERP: 0.10 kW  
Channel: 284  
Frequency: 104.7 MHz  
AMSL Height: 84.6 m  
Elevation: 59.75 m  
Horiz. Pattern: Omni  
Vert. Pattern: No

CONTOUR POPULATION  
2015 U.S. CENSUS DATA  
54,684 (23,240 HH)



PROPOSED 60 DBU  
FCC CONTOUR



**EXHIBIT B**  
**PREDICTED SERVICE CONTOUR**  
**PROPOSED WSWL-LP**  
**CH. 284L1 - VALDOSTA, GEORGIA**

Proposed WSWL-LP  
Channel 284L1 - Valdosta, Georgia

REFERENCE		DISPLAY DATES
30 50 15.9 N.	CLASS = L1	DATA 06-18-18
83 17 46.2 W.	Current Spacings to 2nd Adj.	SEARCH 06-26-18
----- Channel 284 - 104.7 MHz -----		

Call	Channel	Location	Azi	Dist	FCC	Margin
WSWL-LP	LIC 284L1	Valdosta	GA 180.8	1.44	23.5	-22.1
WKAK	LIC 283C1	Albany	GA 319.7	103.87	99.5	4.4
WHTF	LIC 285C2	Havana	FL 253.0	94.27	79.5	14.8
WKUB	LIC 286C2	Blackshear	GA 66.1	95.36	52.5	42.9
WELG-LP	LIC 284L1	Live Oak	FL 160.6	70.75	23.5	47.3
W286BO	LIC 286D	New Elm	GA 312.0	62.80	13.5	49.3

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All separation margins include rounding

POWER DENSITY CALCULATION  
PROPOSED LPFM STATION WWSL-LP  
CHANNEL 284L1 – VALDOSTA, GEORGIA

Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 100 watts (H,V), an antenna radiation center 25.2 meters above ground level and assuming a relative field value of 40 percent at the steeper elevation angles for the proposed NIC BKG77-1 antenna, maximum power density two meters above ground of  $0.0020 \text{ mW/cm}^2$  is calculated to occur near the base of the antenna supporting structure. Since this RF value is only 1.0 percent of the  $0.20 \text{ mW/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating in the FM band, a grant of this proposal may be considered a minor environmental action with respect to public exposure to non-ionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive non-ionizing electromagnetic radiation.