

Minor Change of Facility W242BF; BLFT-20150603AAQ Facility ID No. 140060

This exhibit is for minor modification of the facility for W242BF, Facility ID No. 140060, BLFT-20150603AAQ. It specifies a change in location, antenna elevation, and antenna model only.

Antenna Location

The proposed antenna is to be mounted on an existing tower identified by registration number 1284436 at 85 meters above ground. Below as **Figure 1** is an overlap and spacing study from which it can be determined that this proposal is within the protected contour of **second** adjacent channel station WRBA.

73.1204 Compliance

We will demonstrate that a lack of population and/or other factors allow this proposal to be compliant with 74.1204. The process commonly called “Living Way”, allows for the use of D/U Analysis, also known as “signal strength ratio methodology” to be utilized to demonstrate compliance. In this instant case the facility to be protected is on a second or third adjacent channel and is to be afforded protection from signals 40 dB stronger than the protected facility presents near the proposed translator antenna location.

Concerning WRBA: In **Figure 2** a map showing the predicted 112.0 dBu signal contour of the protected facility at the proposed translator antenna location is given. This proposal can only cause predicted interference to the protected facility by having a signal exceeding 152.0 dBu ($112.0 + 40$) in a habitable/populated area. Utilizing the line of sight equation shown in **Figure** it has been determined that a 152.0 dBu signal developed by 250 watts, as proposed, emitted by the proposed antenna mounted 85 meters above ground, will not reach habitable areas or ground level. With examination of the image in **Figure 4** it can be determined that no habitable space extends above this height within the confines of this contour. Thus the provisions of the rules section concerning prohibited overlap will not apply as it has been demonstrated that no actual interference will occur due to a lack of population and other factors as applied in this instant proposal.

Fill-in and Minor Change Status

This proposal is to serve as a fill-in translator for station WDIZ(AM), Facility ID 66666, Panama City, FL. The map of **Figure 5** demonstrates that the proposed 60 dBu contour is contained within the 2 mV/m of the WDIZ(AM) facility. It can also be seen that the proposed and permitted facilities have service contour overlap.

RF Fields Statement

The proposed facilities were evaluated in terms of potential radio frequency fields exposure at ground level in accordance with OET Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation."

The proposed antenna system is an **ERI 100A-1M**, a one element antenna, mounted 85 meters above ground. As this element type is not modeled in any current RF Fields calculation computer program, for purposes of this analysis the FM Model RF Fields program has been set to calculate values for a "Type 3" type of antenna element, operated with an effective radiated power of 0.25 Kilowatts in the Horizontal and Vertical plane. At 2 meters above the surface, at 83 meters from the base of the tower, this proposal will contribute worst case, 0.5 microwatts per square centimeter, or 0.05 percent of the allowable ANSI limit for controlled exposure, and 0.1 percent of the allowable limit for uncontrolled exposure. This figure is less than 5.0% of the applicable FCC exposure limit at all locations extending out from the base of the tower. Section 1.1307(b)(3) excludes applications when the calculated level is predicted to be less than 5.0% of the applicable exposure limit. It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The site itself is restricted from public access. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

Figure 1. Overlap and Spacing Study

W242BF at ASR 1284436 Clear Channel Broadcasting Licenses, Inc												
REFERENCE		CH#	242D	-	96.3 MHz, Pwr= 0.25 kW, HAAT= 92.9 M, COR= 96.3 M	DISPLAY DATES						
30 11 41.30 N.				Average Protected F(50-50)= 12.41 km		DATA 11-06-19						
85 37 50.80 W.				Omni-directional		SEARCH 11-06-19						
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*	*OUT*	
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)		
242D	W242BF	LIC	___	265.4	14.06	30 11 04.70	0.250	45.2	13.0	-43.6*	-42.2*	
	Panama City	FL		85.4	BLFT20150603AAQ	85 46 35.80		105				Clear Channel Broadcasting
240C2	WRBA	LIC	___	56.1	1.73	30 12 12.70	50.000	4.6	42.6	-14.8*	-41.9*	
	Springfield	FL		236.1	BLH19930518KC	85 36 56.70	86	90				Great American Media, L.L.
243C1	WZNS	LIC	___	284.5	98.75	30 24 50.70	100.000	86.7	57.2	-0.5	22.9	
	Fort Walton Beach	FL		104.0	BLH20030304AAG	86 37 39.80	134	140				Cumulus Licensing LLC
245C0	WDJR	LIC	___	352.3	81.59	30 55 19.70	100.000	10.4	73.8	58.8	6.7	
	Hartford	AL		172.3	BLH20161013ABC	85 44 40.80	316	354				Gulf South Communications,
242C1	WJIZ-FM	LIC	N__	45.4	216.19	31 32 58.00	79.000	163.3	67.7	40.7	106.9	
	Albany	GA		226.3	BLH20160406AAY	84 00 19.00	248	328				Cc Licenses, LLC
241C2	WHBX	LIC	N__	86.2	130.52	30 15 58.30	37.000	72.5	48.2	46.1	64.9	
	Tallahassee	FL		266.9	BLH20150505AAD	84 16 28.10	143	151				Cumulus Licensing LLC
244D	W244BM	LIC	___	125.6	87.92	29 43 57.80	0.250	1.1	12.0	74.4	74.8	
	Apalachicola	FL		305.9	BLFT20050331BCA	84 53 23.70	87	87				Florida State University
241C	WRKH	LIC	___	285.2	217.86	30 41 20.70	77.000	127.8	85.8	77.4	113.3	
	Mobile	AL		104.1	BMLH20130123AEQ	87 49 49.00	535	569				Cc Licenses, LLC
239C3	WPLV	LIC	___	283.8	121.94	30 27 02.70	25.000	4.1	39.1	105.3	81.7	
	Navarre	FL		103.2	BMLH20131028AOQ	86 51 58.90	86	104				Educational Media Foundati
295A	AL6316	VAC	___	284.4	98.54	30 24 40.72	6.000	0.0	0.0	9.5R	89.0M	
	Fort Walton Beach	FL		103.9	RM11783	86 37 27.83	100	106				Northwest Florida Media, L
295A	1745291	RSV-A	___	284.4	98.54	30 24 40.72	6.000	0.0	0.0	9.5R	89.0M	
	Ft. Walton Beach	FL		103.9		86 37 27.83	100	106				Northwest Florida Media, L
241D	W241CB	LIC	___	10.6	119.04	31 14 49.00	0.155	13.8	9.9	92.7	90.5	
	Dothan	AL		190.8	BLFT20140703AIC	85 23 58.00		153				Radio Training Network, In
245D	W245CB	LIC	D__	75.2	128.76	30 29 05.70	0.250	0.3	7.0	116.5	120.6	
	Tallahassee	FL		255.8	BLFT20170209AAW	84 19 53.60		120				La Promesa Foundation
296C1	WGMY	LIC	N__	71.6	140.89	30 35 12.70	100.000	0.0	0.0	21.5R	119.4M	
	Thomasville	GA		252.3	BMLH20110408ABL	84 14 10.60	251	290				Cc Licenses, LLC

Terrain database is NGDC 30 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 In & Out distances between contours are shown at closest points. Reference zone= East Zone, Co to 3rd adjacent.
 All separation margins (if shown) include rounding.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside restricted contour.
 "<" = Station meets FCC minimum distance spacing for its class.
 Reference station has protected zone issue: AM tower

Figure 2. Contour Map

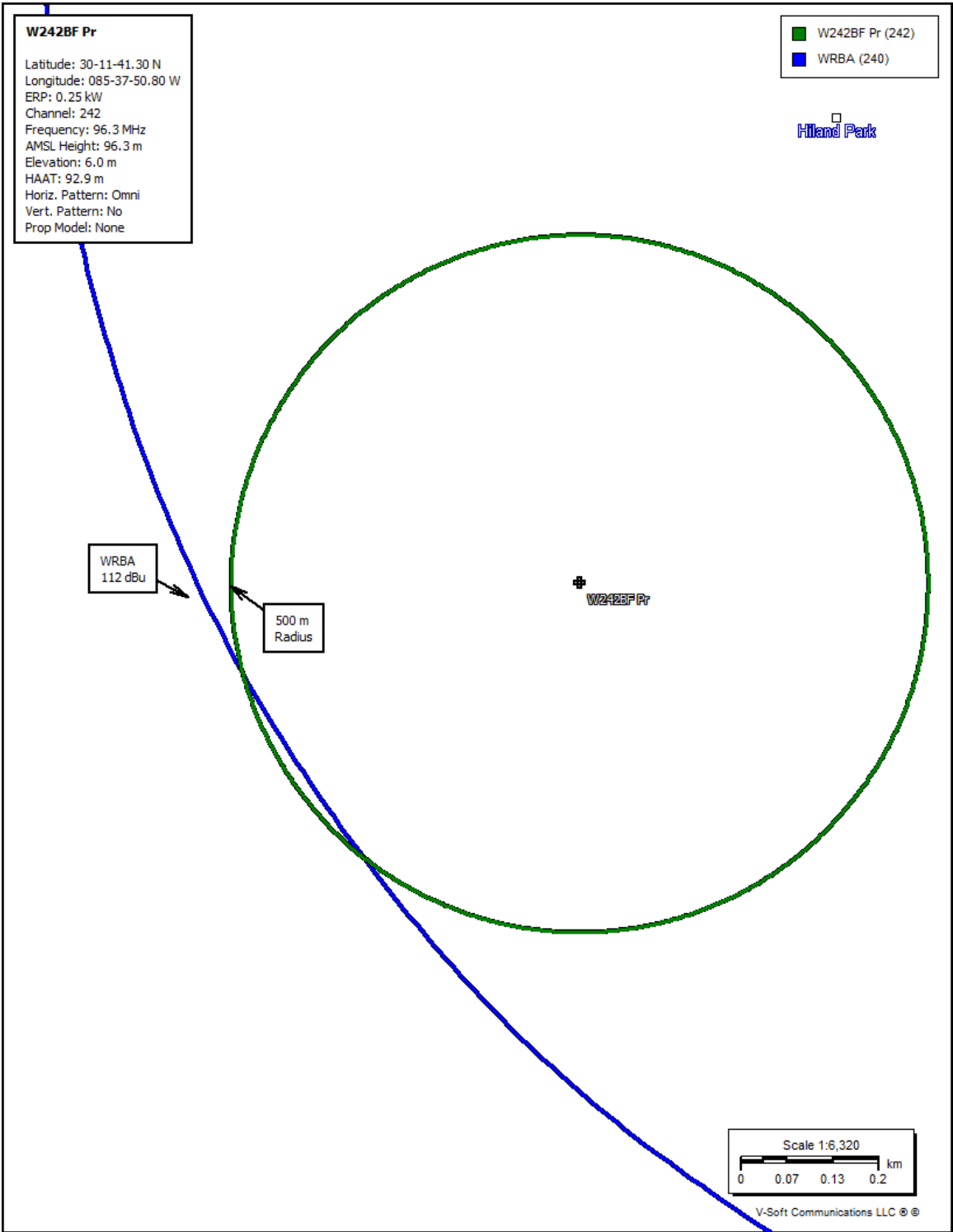


Figure 3. Signal Level at or Near Ground Level

ERP	0.25	kw		
Calculated IX contour	142	dbu		
			Distance to interfering contour	Height of IX
Relative Field	Downward ERP		meters (hypot)	meters
1	0.2500		8.8099	83.470

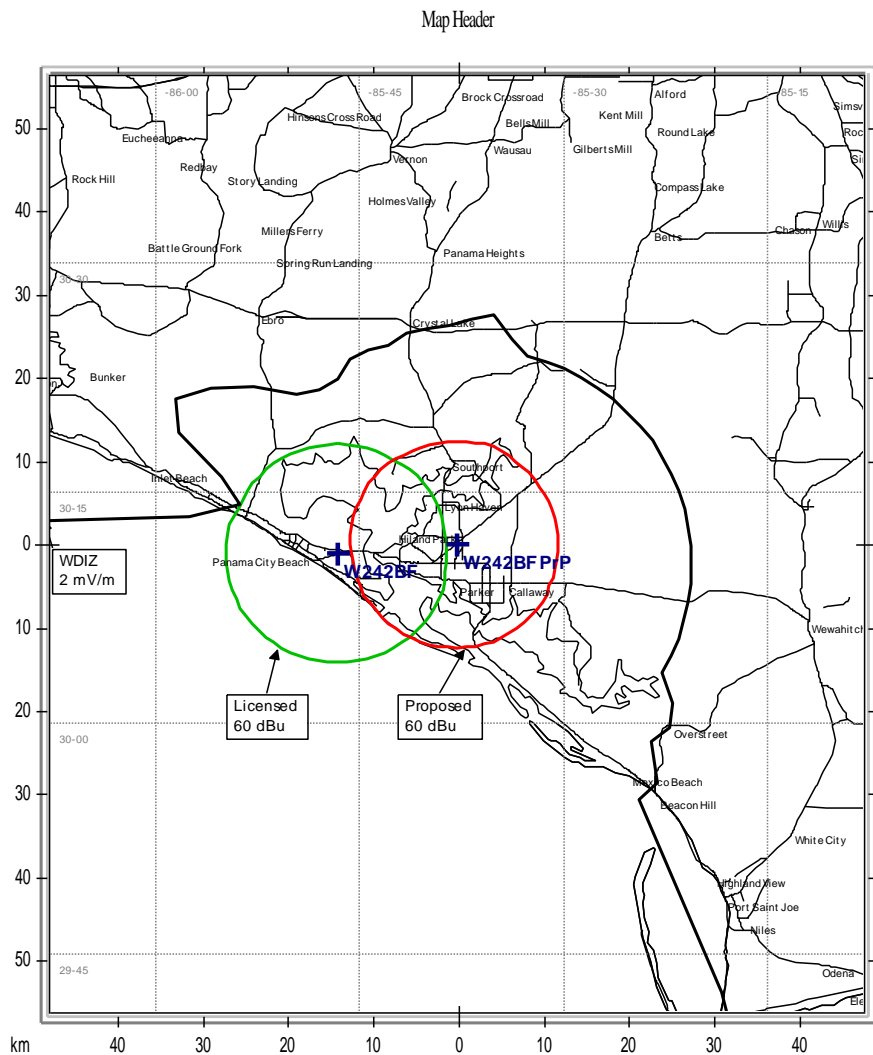
Figure 4. Image of Proposed Support Tower



Figure 5. Fill-in and Minor Change Contour Map

ComStudy

Wednesday, November 6, 2019



State Borders Highways Lat/Lon Grid

Map Scale: 1:711839 1 cm = 7.12 km V/H Size: 112.63 x 95.55 km