Gainesville, Florida

Application for Minor Modification of

FM Translator W242CS

On Channel 242

by

Marc Radio Gainesville, LLC

Technical Exhibit

September 2020

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Table of Contents

Description	Page
Declaration	2
Narrative	3
Licensing Management System Differences	3
Allocations	4
Table 1: Allocations	5
Source of Data	6
Table 2: FM Over Output for Protection of WIMR-LP	7
Table 3: FM Over Output for Protection of W242CA	9
Licensed and Proposed Contours, Fill-In Demonstration	Figure 1
Allocation Study: WIMR-LP	Figure 2
Allocation Study: W242CA	Figure 3

Declaration

I declare, under penalty of perjury, that I am a technical consultant to broadcasting and other communications systems, that I have over twenty-five years of experience in the engineering of broadcast and other communications systems, that I am familiar with the Federal Communications Commission's Rules found in the Code of Federal Regulations Title 47, that I am a Professional Engineer registered in North Carolina, that I have prepared or supervised the preparation of the attached Technical Exhibit for Marc Radio Gainesville, LLC, and that all of the facts therein, except for facts of which the Federal Communications Commission may take official notice, are true to the best of my knowledge and belief.



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Narrative

This Exhibit supports a minor modification application for FM translator W242CS, on Channel 242 in Gainesville, Florida. Allocation details are provided in this exhibit. This proposal complies fully with the requirements of 47 C.F.R. §74.1204(a). The proposed modified facilities create no mutual exclusivities with any licensed facilities, construction permits, or applications as shown in the allocation table in this exhibit.

Figure 1 shows the proposed 60 dBu F(50,50) coverage area, and the licensed coverage area. Figure 1 shows fill-in status confirmation.

The changes are a new site, increase in height, an increase in power, and a new antenna.

The minor modification complies with the requirements of Sections 74.1204, 74.1205, 74.1232, and 74.1234.

Licensing Management System Differences

The licensed W242CS facilities, file number BLFT-20170227ACF, were authorized under the Consolidated Data Base System (CDBS) using NAD 27 coordinates to the nearest second and elevations to the nearest meter. The Licensing Management System (LMS) uses NAD83 coordinates to the nearest tenth of a second and elevations to the nearest tenth of a meter. In LMS, the NAD83 coordinates from the Antenna Structure Registration Number are used, while for existing facilities, the original NAD27 coordinates are converted to NAD83. This results in minor changes in allocations, even though there are no physical changes in the actual facilities.

Allocations

This application proposes service to Gainesville, Florida, on channel 242. An updated Table 1: Allocations is included in this exhibit with a list of the stations, construction permits, allocations, and applications studied. All are protected under §74.1204(a) contour protection by this application. The allocations table was prepared using the GLOBE 30 terrain database which is described below. Where the outgoing protection is provided by interference contours with a separation of less than 3.2 kilometers (2 miles), the lack of overlap is plotted in figures in this exhibit, and the output of the FM Over program is provided. For this application, there are two (2) facilities for which additional detail is provided.

Table and Figure	Call Sign	Location	Channel, class and relationship
2	WIMR-LP	Mcintosh, Florida	243L1, first adjacent
3	W242CA	Ocala, Florida	242D, co-channel

Table 1: Allocations

Allocation Study
Marc Radio Gainesville, LLC

REFERENCE — CH# 242D - 96.3 MHz, Pwr= 0.175 kW, HAAT= 75.9 M, COR= 114.1 M — DISPLAY DATES
29 38 04.0 N. — Average Protected F(50-50)= 10.4 km — DATA 09-04-20
82 18 49.0 W. — Omni-directional — SEARCH 09-04-20

CH CALL / CITY	TYPE ANT / STATE	AZI. <--	DIST / FILE #	LAT. / LNG.	Pwr(kW) / HAAT(M)	INT(km) / COR(M)	PRO(km) / LICENSEE	*IN* (Overlap in km)	*OUT*
242D W242CS!	LIC	115.2	2.68	29 37 26.90	0.150		---Reference---		
Gainesville	FL	295.2	BLFT20170227ACF	82 17 18.40		97	Marc Radio Gainesville, LL		
241C0 WEJZ	LIC	40.0	100.18	30 19 22.90	100.000	104.6	72.0	-14.6*	14.2
Jacksonville	FL	220.3	BLH19881109KA	81 38 33.30	300	304	Renda Broadcasting Corp. O		
243L1 WIMR-LP	LIC	157.7	22.23	29 26 57.80	0.094			2.6	0.1
Mcintosh	FL	337.7	BLL20071127AJQ	82 13 35.30	31	60	Micanopy Community Radio A		
242D W242CA	LIC	161.9	50.63	29 12 04.90	0.250	31.0	9.3	8.4	2.7
Ocala	FL	342.0	BLFT20141007ADA	82 09 06.30	57	79	Generations Broadcasting C		
243A WJTK	LIC N	331.8	65.81	30 09 20.80	5.000	45.2	29.3	11.5	23.7
Columbia City	FL	151.6	BLH20061010AOI	82 38 13.40	109	146	Mark C. Healy, Receiver		
245C0 WJGL	LIC	45.1	101.48	30 16 34.90	100.000	10.3	73.2	80.9	27.4
Jacksonville	FL	225.5	BMLH20130124AAR	81 33 52.30	309	315	Cox Radio, LLC		
295C1 WPLL	LIC N	267.0	51.97	29 36 32.00	100.000	0.0	0.0	21.5R	30.5M
Cross City	FL	86.7	BMLH20180306AAI	82 50 58.10	143	155	Marc Radio Gainesville, LL		
242D W242CW	LIC	268.2	79.33	29 36 35.80	0.250	32.5	9.7	35.9	32.7
Cross City	FL	87.8	BLFT20181015AAU	83 08 02.50		68	Suncoast Radio, Inc.		
240A WEYK	CP	237.6	64.01	29 19 27.90	6.000	2.6	26.9	50.3	36.2
Otter Creek	FL	57.3	BNPED20100226AGR	82 52 15.40	99	105	Citrus County Association		
243C WOEX	LIC N	133.8	170.29	28 34 08.00	100.000	122.8	82.7	36.6	72.3
Orlando	FL	314.4	BLH20011219AAC	81 03 15.20	454	463	Cox Radio, LLC		
244C3 WXOF	LIC N	208.2	77.19	29 01 18.90	14.500	3.8	37.9	62.0	38.3
Yankeetown	FL	28.0	BLH20121218AAC	82 41 19.40	132	135	Wgul-Fm, Inc.		
240D W240DU	LIC	331.8	65.81	30 09 20.80	0.250	1.1	13.7	55.6	51.1
Lake City	FL	151.6	BLFT20190909ABN	82 38 13.40		141	Newman Media, Inc.		
243D W243AW	LIC	75.6	97.93	29 51 01.90	0.250	22.1	14.7	65.3	68.6
Middleburg	FL	256.0	BLFT20141118ARM	81 19 48.30		144	Phillips Broadcasting, LLC		
243D W243DO	LIC	33.7	97.75	30 21 52.90	0.099	13.9	10.0	73.9	74.2
Jacksonville	FL	214.0	BLFT20170111ADH	81 44 53.40		119	Avm Broadcasting, LLC		
241A WTMP-FM	LIC	179.2	129.13	28 28 23.00	2.800	43.1	28.4	74.9	84.8
Dade City	FL	359.2	BLH20080109AFU	82 17 44.30	147	180	Nia Broadcasting, Inc.		

Terrain database is GLOBE 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 adjt.
All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected.
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.

Source of Data

Transmitter location, effective radiated power, directional antenna pattern, and elevation data are extracted from the Commission's CDBS (converted to NAD 83) or LMS. All contours for existing and proposed facilities are calculated using height above average terrain calculated at one degree horizontal increments.

The contours were evaluated using terrain extracted from the GLOBE 30 arcsecond terrain database, formatted by V-Soft Communications to work with its allocation and mapping programs.

Table 2: FM Over Output for Protection of WIMR-LP

09-04-2020 Terrain Data: GLOBE 30 Sec FMOver Analysis

WIMR-LP BLL20071127AJQ	W242CS
Channel = 243L1	Channel = 242D
Max ERP = 0.094 kW	Max ERP = 0.175 kW
RCAMSL = 60 m	RCAMSL = 114.1 m
N. Lat. 29 26 57.80	N. Lat. 29 38 04.00
W. Lng. 82 13 35.30	W. Lng. 82 18 49.00
Protected	Interfering
60 dBu	54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
293.0	000.0940	0016.1	005.5	169.8	000.1750	0087.3	018.7	51.61	
294.0	000.0940	0016.6	005.5	169.6	000.1750	0087.4	018.6	51.68	
295.0	000.0940	0017.3	005.5	169.4	000.1750	0087.4	018.5	51.75	
296.0	000.0940	0018.0	005.5	169.2	000.1750	0087.5	018.5	51.83	
297.0	000.0940	0018.4	005.5	169.1	000.1750	0087.7	018.4	51.91	
298.0	000.0940	0018.5	005.5	168.9	000.1750	0087.8	018.3	51.98	
299.0	000.0940	0018.6	005.5	168.7	000.1750	0088.0	018.2	52.06	
300.0	000.0940	0019.2	005.5	168.5	000.1750	0088.1	018.2	52.14	
301.0	000.0940	0020.2	005.5	168.3	000.1750	0088.3	018.1	52.22	
302.0	000.0940	0021.7	005.5	168.1	000.1750	0088.5	018.0	52.29	
303.0	000.0940	0023.3	005.5	167.8	000.1750	0088.6	018.0	52.37	
304.0	000.0940	0025.1	005.5	167.6	000.1750	0088.8	017.9	52.44	
305.0	000.0940	0026.8	005.5	167.4	000.1750	0089.0	017.8	52.51	
306.0	000.0940	0028.3	005.5	167.2	000.1750	0089.2	017.8	52.59	
307.0	000.0940	0029.3	005.5	166.9	000.1750	0089.4	017.7	52.66	
308.0	000.0940	0029.4	005.5	166.7	000.1750	0089.6	017.6	52.74	
309.0	000.0940	0028.8	005.5	166.4	000.1750	0089.9	017.6	52.81	
310.0	000.0940	0027.7	005.5	166.2	000.1750	0090.1	017.5	52.88	
311.0	000.0940	0026.6	005.5	165.9	000.1750	0090.3	017.5	52.95	
312.0	000.0940	0025.8	005.5	165.7	000.1750	0090.5	017.4	53.01	
313.0	000.0940	0025.2	005.5	165.4	000.1750	0090.6	017.4	53.07	
314.0	000.0940	0024.9	005.5	165.1	000.1750	0090.8	017.3	53.13	
315.0	000.0940	0025.1	005.5	164.8	000.1750	0091.0	017.3	53.19	
316.0	000.0940	0025.9	005.5	164.6	000.1750	0091.1	017.2	53.24	
317.0	000.0940	0027.1	005.5	164.3	000.1750	0091.2	017.2	53.29	
318.0	000.0940	0028.3	005.5	164.0	000.1750	0091.2	017.1	53.33	
319.0	000.0940	0029.5	005.5	163.7	000.1750	0091.2	017.1	53.36	
320.0	000.0940	0030.3	005.6	163.4	000.1750	0091.0	017.0	53.40	
321.0	000.0940	0031.0	005.6	163.2	000.1750	0090.9	016.9	53.46	
322.0	000.0940	0031.5	005.7	162.9	000.1750	0090.7	016.8	53.51	
323.0	000.0940	0032.0	005.7	162.7	000.1750	0090.5	016.8	53.55	
324.0	000.0940	0032.4	005.7	162.4	000.1750	0090.2	016.7	53.57	
325.0	000.0940	0032.4	005.7	162.1	000.1750	0089.8	016.7	53.56	
326.0	000.0940	0031.8	005.7	161.7	000.1750	0089.3	016.7	53.49	
327.0	000.0940	0030.8	005.6	161.3	000.1750	0088.7	016.8	53.39	
328.0	000.0940	0029.9	005.5	160.9	000.1750	0088.2	016.8	53.31	
329.0	000.0940	0029.4	005.5	160.6	000.1750	0087.9	016.8	53.29	
330.0	000.0940	0029.5	005.5	160.3	000.1750	0087.7	016.8	53.28	
331.0	000.0940	0029.6	005.5	159.9	000.1750	0087.6	016.7	53.28	
332.0	000.0940	0029.6	005.5	159.6	000.1750	0087.5	016.7	53.29	
333.0	000.0940	0029.6	005.5	159.3	000.1750	0087.6	016.7	53.31	
334.0	000.0940	0029.6	005.5	158.9	000.1750	0087.8	016.7	53.34	
335.0	000.0940	0029.9	005.5	158.6	000.1750	0088.0	016.7	53.37	
336.0	000.0940	0030.2	005.6	158.3	000.1750	0088.3	016.7	53.42	
337.0	000.0940	0030.8	005.6	158.0	000.1750	0088.7	016.6	53.50	
338.0	000.0940	0031.6	005.7	157.6	000.1750	0089.1	016.6	53.59	
339.0	000.0940	0032.7	005.8	157.3	000.1750	0089.5	016.5	53.70	
340.0	000.0940	0033.6	005.8	156.9	000.1750	0089.8	016.4	53.80	
341.0	000.0940	0034.1	005.9	156.5	000.1750	0090.1	016.4	53.85	
342.0	000.0940	0034.3	005.9	156.2	000.1750	0090.4	016.4	53.88	
343.0	000.0940	0034.4	005.9	155.8	000.1750	0090.5	016.4	53.90	
344.0	000.0940	0034.7	005.9	155.4	000.1750	0090.7	016.4	53.92	
345.0	000.0940	0035.0	006.0	155.1	000.1750	0090.8	016.3	53.94	
346.0	000.0940	0035.3	006.0	154.7	000.1750	0090.8	016.3	53.95	
347.0	000.0940	0035.6	006.0	154.3	000.1750	0090.9	016.3	53.95	
348.0	000.0940	0035.9	006.0	153.9	000.1750	0090.9	016.3	53.95	
349.0	000.0940	0035.8	006.0	153.6	000.1750	0090.9	016.4	53.92	
350.0	000.0940	0035.5	006.0	153.3	000.1750	0090.9	016.4	53.88	

351.0	000.0940	0034.7	005.9	153.0	000.1750	0090.9	016.5	53.80
352.0	000.0940	0033.6	005.8	152.7	000.1750	0090.9	016.6	53.70
353.0	000.0940	0032.9	005.8	152.5	000.1750	0090.8	016.7	53.63
354.0	000.0940	0032.7	005.8	152.2	000.1750	0090.8	016.8	53.58
355.0	000.0940	0033.0	005.8	151.8	000.1750	0090.6	016.8	53.55
356.0	000.0940	0033.4	005.8	151.5	000.1750	0090.5	016.8	53.52
357.0	000.0940	0033.3	005.8	151.2	000.1750	0090.3	016.8	53.46
358.0	000.0940	0033.3	005.8	150.9	000.1750	0090.1	016.9	53.40
359.0	000.0940	0032.9	005.8	150.6	000.1750	0089.9	017.0	53.32
000.0	000.0940	0033.1	005.8	150.3	000.1750	0089.7	017.0	53.27
001.0	000.0940	0033.3	005.8	150.0	000.1750	0089.4	017.0	53.21
002.0	000.0940	0033.5	005.8	149.6	000.1750	0089.2	017.1	53.16
003.0	000.0940	0033.4	005.8	149.4	000.1750	0089.0	017.1	53.09
004.0	000.0940	0033.1	005.8	149.1	000.1750	0088.9	017.2	53.01
005.0	000.0940	0032.9	005.8	148.9	000.1750	0088.8	017.3	52.93
006.0	000.0940	0031.9	005.7	148.8	000.1750	0088.7	017.4	52.82
007.0	000.0940	0030.6	005.6	148.7	000.1750	0088.7	017.6	52.70
008.0	000.0940	0029.1	005.5	148.6	000.1750	0088.6	017.7	52.61
009.0	000.0940	0028.2	005.5	148.4	000.1750	0088.6	017.7	52.55
010.0	000.0940	0027.5	005.5	148.1	000.1750	0088.5	017.8	52.49
011.0	000.0940	0026.9	005.5	147.9	000.1750	0088.4	017.9	52.43
012.0	000.0940	0026.3	005.5	147.7	000.1750	0088.4	017.9	52.37
013.0	000.0940	0025.7	005.5	147.4	000.1750	0088.4	018.0	52.31
014.0	000.0940	0025.4	005.5	147.2	000.1750	0088.3	018.1	52.25
015.0	000.0940	0025.6	005.5	147.0	000.1750	0088.3	018.1	52.19
016.0	000.0940	0026.0	005.5	146.8	000.1750	0088.3	018.2	52.12
017.0	000.0940	0026.3	005.5	146.6	000.1750	0088.2	018.3	52.06
018.0	000.0940	0026.8	005.5	146.4	000.1750	0088.1	018.4	51.99
019.0	000.0940	0027.5	005.5	146.3	000.1750	0088.1	018.4	51.92
020.0	000.0940	0028.1	005.5	146.1	000.1750	0088.0	018.5	51.85
021.0	000.0940	0028.6	005.5	145.9	000.1750	0088.0	018.6	51.78
022.0	000.0940	0028.9	005.5	145.7	000.1750	0087.9	018.7	51.70

Table 3: FM Over Output for Protection of W242CA

09-04-2020 Terrain Data: GLOBE 30 Sec FMOver Analysis

W242CA BLFT20141007ADA	W242CS
Channel = 242D	Channel = 242D
Max ERP = 0.25 kW	Max ERP = 0.175 kW
RCAMSL = 79 m	RCAMSL = 114.1 m
N. Lat. 29 12 04.90	N. Lat. 29 38 04.00
W. Lng. 82 09 06.30	W. Lng. 82 18 49.00
Protected	Interfering
60 dBu	40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
297.0	000.2500	0052.1	009.5	170.6	000.1750	0087.7	044.4	37.30	
298.0	000.2500	0052.8	009.5	170.5	000.1750	0087.6	044.3	37.37	
299.0	000.2500	0053.2	009.6	170.4	000.1750	0087.5	044.1	37.42	
300.0	000.2500	0053.2	009.6	170.3	000.1750	0087.5	044.0	37.46	
301.0	000.2500	0052.7	009.5	170.1	000.1750	0087.4	043.9	37.49	
302.0	000.2500	0052.0	009.5	169.9	000.1750	0087.3	043.8	37.52	
303.0	000.2500	0051.4	009.4	169.7	000.1750	0087.3	043.7	37.55	
304.0	000.2500	0051.1	009.4	169.5	000.1750	0087.4	043.6	37.59	
305.0	000.2500	0051.2	009.4	169.4	000.1750	0087.4	043.5	37.64	
306.0	000.2500	0051.6	009.4	169.3	000.1750	0087.5	043.4	37.71	
307.0	000.2500	0052.5	009.5	169.2	000.1750	0087.6	043.2	37.78	
308.0	000.2500	0053.2	009.6	169.1	000.1750	0087.6	043.0	37.85	
309.0	000.2500	0053.3	009.6	168.9	000.1750	0087.8	042.9	37.91	
310.0	000.2500	0052.9	009.6	168.7	000.1750	0087.9	042.8	37.95	
311.0	000.2500	0052.5	009.5	168.5	000.1750	0088.1	042.8	38.00	
312.0	000.2500	0052.2	009.5	168.3	000.1750	0088.3	042.7	38.04	
313.0	000.2500	0051.8	009.5	168.1	000.1750	0088.4	042.6	38.08	
314.0	000.2500	0050.8	009.4	167.8	000.1750	0088.6	042.6	38.11	
315.0	000.2500	0049.3	009.2	167.5	000.1750	0088.9	042.6	38.11	
316.0	000.2500	0047.7	009.0	167.2	000.1750	0089.1	042.7	38.11	
317.0	000.2500	0046.7	008.9	167.0	000.1750	0089.3	042.7	38.13	
318.0	000.2500	0046.2	008.9	166.8	000.1750	0089.5	042.7	38.16	
319.0	000.2500	0046.0	008.8	166.6	000.1750	0089.7	042.6	38.20	
320.0	000.2500	0046.1	008.9	166.4	000.1750	0089.9	042.6	38.24	
321.0	000.2500	0046.2	008.9	166.2	000.1750	0090.1	042.5	38.29	
322.0	000.2500	0046.4	008.9	166.0	000.1750	0090.2	042.4	38.34	
323.0	000.2500	0046.5	008.9	165.9	000.1750	0090.3	042.3	38.38	
324.0	000.2500	0046.5	008.9	165.7	000.1750	0090.5	042.3	38.41	
325.0	000.2500	0046.5	008.9	165.5	000.1750	0090.6	042.2	38.44	
326.0	000.2500	0046.4	008.9	165.3	000.1750	0090.7	042.2	38.47	
327.0	000.2500	0046.5	008.9	165.1	000.1750	0090.8	042.1	38.51	
328.0	000.2500	0047.2	009.0	164.9	000.1750	0090.9	042.0	38.57	
329.0	000.2500	0048.2	009.1	164.7	000.1750	0091.0	041.8	38.64	
330.0	000.2500	0049.6	009.2	164.6	000.1750	0091.1	041.7	38.72	
331.0	000.2500	0050.9	009.4	164.4	000.1750	0091.2	041.5	38.79	
332.0	000.2500	0051.6	009.4	164.2	000.1750	0091.2	041.4	38.84	
333.0	000.2500	0051.5	009.4	164.0	000.1750	0091.2	041.4	38.85	
334.0	000.2500	0051.2	009.4	163.7	000.1750	0091.2	041.4	38.84	
335.0	000.2500	0051.4	009.4	163.5	000.1750	0091.1	041.3	38.85	
336.0	000.2500	0051.9	009.5	163.3	000.1750	0091.0	041.2	38.87	
337.0	000.2500	0052.0	009.5	163.1	000.1750	0090.8	041.2	38.87	
338.0	000.2500	0051.6	009.4	162.8	000.1750	0090.6	041.2	38.84	
339.0	000.2500	0051.1	009.4	162.6	000.1750	0090.4	041.3	38.81	
340.0	000.2500	0050.8	009.3	162.4	000.1750	0090.2	041.3	38.78	
341.0	000.2500	0050.7	009.3	162.2	000.1750	0089.9	041.3	38.75	
342.0	000.2500	0050.6	009.3	161.9	000.1750	0089.6	041.3	38.73	
343.0	000.2500	0050.6	009.3	161.7	000.1750	0089.3	041.3	38.69	
344.0	000.2500	0050.8	009.3	161.5	000.1750	0089.0	041.3	38.67	
345.0	000.2500	0051.3	009.4	161.2	000.1750	0088.7	041.3	38.66	
346.0	000.2500	0052.1	009.5	161.0	000.1750	0088.4	041.2	38.65	
347.0	000.2500	0052.7	009.5	160.8	000.1750	0088.1	041.1	38.65	
348.0	000.2500	0053.5	009.6	160.5	000.1750	0087.9	041.1	38.64	
349.0	000.2500	0054.2	009.7	160.3	000.1750	0087.7	041.0	38.65	
350.0	000.2500	0054.7	009.7	160.0	000.1750	0087.6	041.0	38.64	
351.0	000.2500	0054.4	009.7	159.8	000.1750	0087.5	041.1	38.61	
352.0	000.2500	0054.0	009.7	159.6	000.1750	0087.5	041.2	38.58	
353.0	000.2500	0053.3	009.6	159.4	000.1750	0087.6	041.3	38.55	
354.0	000.2500	0052.7	009.5	159.2	000.1750	0087.7	041.4	38.52	
355.0	000.2500	0052.3	009.5	159.0	000.1750	0087.8	041.4	38.50	

356.0	000.2500	0052.0	009.5	158.8	000.1750	0087.9	041.5	38.48
357.0	000.2500	0051.9	009.5	158.6	000.1750	0088.1	041.6	38.47
358.0	000.2500	0051.9	009.5	158.3	000.1750	0088.3	041.6	38.47
359.0	000.2500	0051.9	009.5	158.1	000.1750	0088.5	041.7	38.47
000.0	000.2500	0051.7	009.4	157.9	000.1750	0088.7	041.8	38.45
001.0	000.2500	0051.4	009.4	157.7	000.1750	0088.9	041.8	38.44
002.0	000.2500	0051.1	009.4	157.5	000.1750	0089.2	041.9	38.42
003.0	000.2500	0051.3	009.4	157.3	000.1750	0089.4	042.0	38.42
004.0	000.2500	0052.3	009.5	157.1	000.1750	0089.7	042.0	38.45
005.0	000.2500	0053.5	009.6	156.8	000.1750	0089.9	042.0	38.49
006.0	000.2500	0054.3	009.7	156.5	000.1750	0090.1	042.0	38.50
007.0	000.2500	0054.6	009.7	156.3	000.1750	0090.3	042.0	38.49
008.0	000.2500	0054.6	009.7	156.1	000.1750	0090.4	042.1	38.47
009.0	000.2500	0054.2	009.7	156.0	000.1750	0090.5	042.2	38.43
010.0	000.2500	0053.8	009.6	155.8	000.1750	0090.5	042.4	38.38
011.0	000.2500	0053.5	009.6	155.6	000.1750	0090.6	042.5	38.34
012.0	000.2500	0053.5	009.6	155.4	000.1750	0090.7	042.6	38.31
013.0	000.2500	0053.7	009.6	155.3	000.1750	0090.7	042.7	38.28
014.0	000.2500	0053.8	009.6	155.1	000.1750	0090.8	042.8	38.24
015.0	000.2500	0053.8	009.6	154.9	000.1750	0090.8	042.9	38.20
016.0	000.2500	0053.7	009.6	154.7	000.1750	0090.8	043.0	38.16
017.0	000.2500	0053.6	009.6	154.6	000.1750	0090.8	043.1	38.11
018.0	000.2500	0054.1	009.7	154.4	000.1750	0090.9	043.2	38.08
019.0	000.2500	0054.8	009.7	154.1	000.1750	0090.9	043.3	38.06
020.0	000.2500	0055.5	009.8	153.9	000.1750	0090.9	043.3	38.03
021.0	000.2500	0055.9	009.8	153.7	000.1750	0090.9	043.4	37.99
022.0	000.2500	0056.4	009.9	153.5	000.1750	0090.9	043.5	37.95
023.0	000.2500	0056.9	009.9	153.3	000.1750	0090.9	043.6	37.91
024.0	000.2500	0057.3	010.0	153.2	000.1750	0090.9	043.7	37.87
025.0	000.2500	0057.6	010.0	153.0	000.1750	0090.9	043.9	37.82
026.0	000.2500	0057.7	010.0	152.9	000.1750	0090.9	044.0	37.76

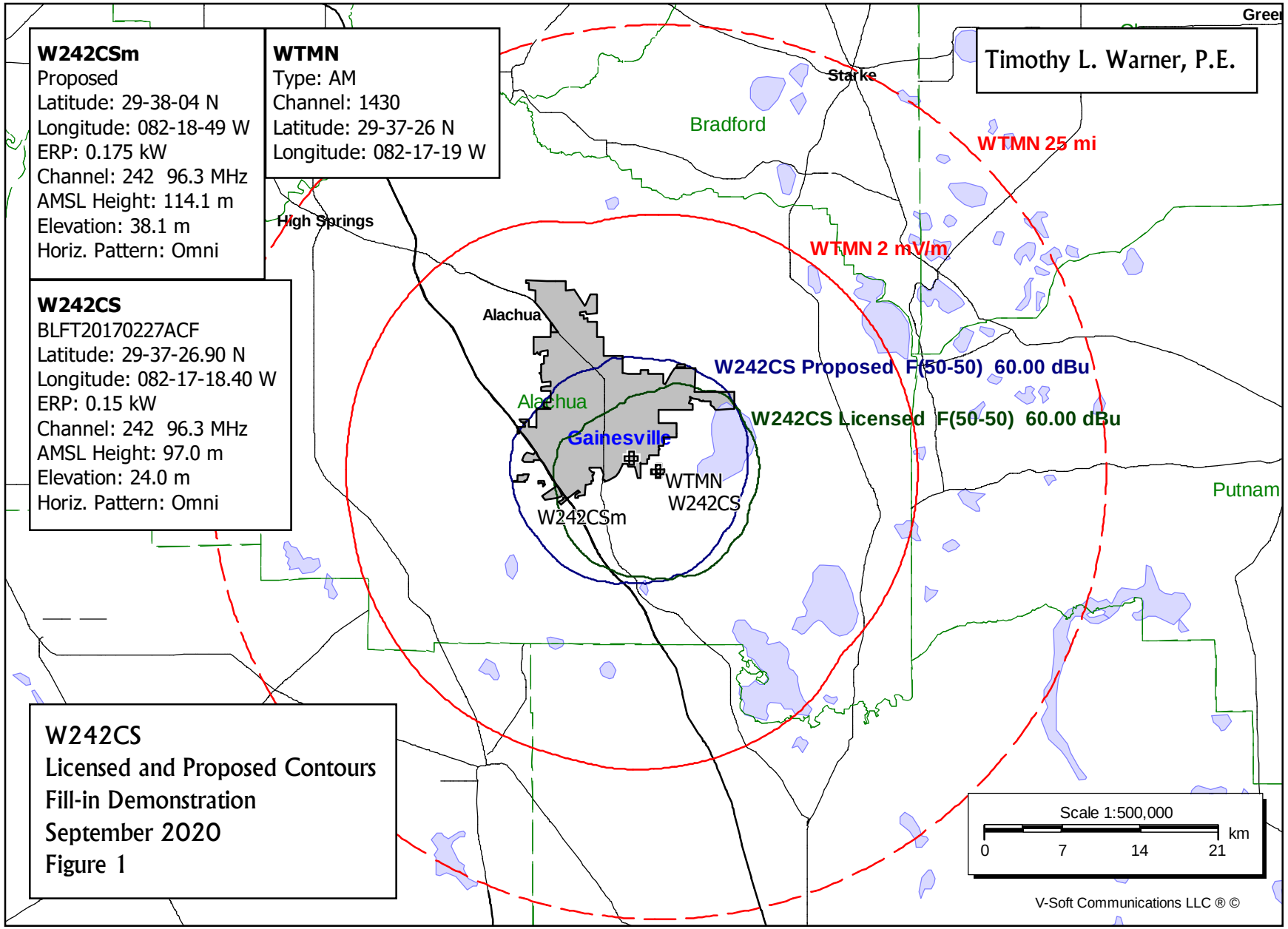

W242CSm
Proposed
Latitude: 29-38-04 N
Longitude: 082-18-49 W
ERP: 0.175 kW
Channel: 242 96.3 MHz
AMSL Height: 114.1 m
Elevation: 38.1 m
Horiz. Pattern: Omni
WTMN
Type: AM
Channel: 1430
Latitude: 29-37-26 N
Longitude: 082-17-19 W
W242CS
BLFT20170227ACF
Latitude: 29-37-26.90 N
Longitude: 082-17-18.40 W
ERP: 0.15 kW
Channel: 242 96.3 MHz
AMSL Height: 97.0 m
Elevation: 24.0 m
Horiz. Pattern: Omni
Timothy L. Warner, P.E.
Starke
Bradford
High Springs
Alachua
Alachua
Gainesville
WTMN
W242CS
W242CSm
WTMN 25 mi
WTMN 2 mV/m
W242CS Proposed F(50-50) 60.00 dBu
W242CS Licensed F(50-50) 60.00 dBu
Putnam
W242CS
Licensed and Proposed Contours
Fill-in Demonstration
September 2020
Figure 1
Scale 1:500,000
km
0
7
14
21
V-Soft Communications LLC ® ©

Figure 2: Allocation Study: WIMR-LP
Marc Radio Gainesville, LLC

FMCommander Single Allocation Study - 09-04-2020 - GLOBE 30 Sec
W242CS's Overlaps (In= 2.62 km, Out= 0.06 km)

W242CS CH 242 D
Lat= 29 38 04.00, Lng= 82 18 49.00
0.175 kW 75.9 m HAAT, 114.1 m COR
Prot.= 60 dBu, Intef.= 54 dBu

WIMR-LP CH 243 L1 BLL20071127AJQ
Lat= 29 26 57.80, Lng= 82 13 35.30
0.094 kW 30.59634 m HAAT, 60 m COR
Prot.= 60 dBu, Intef.= 54 dBu

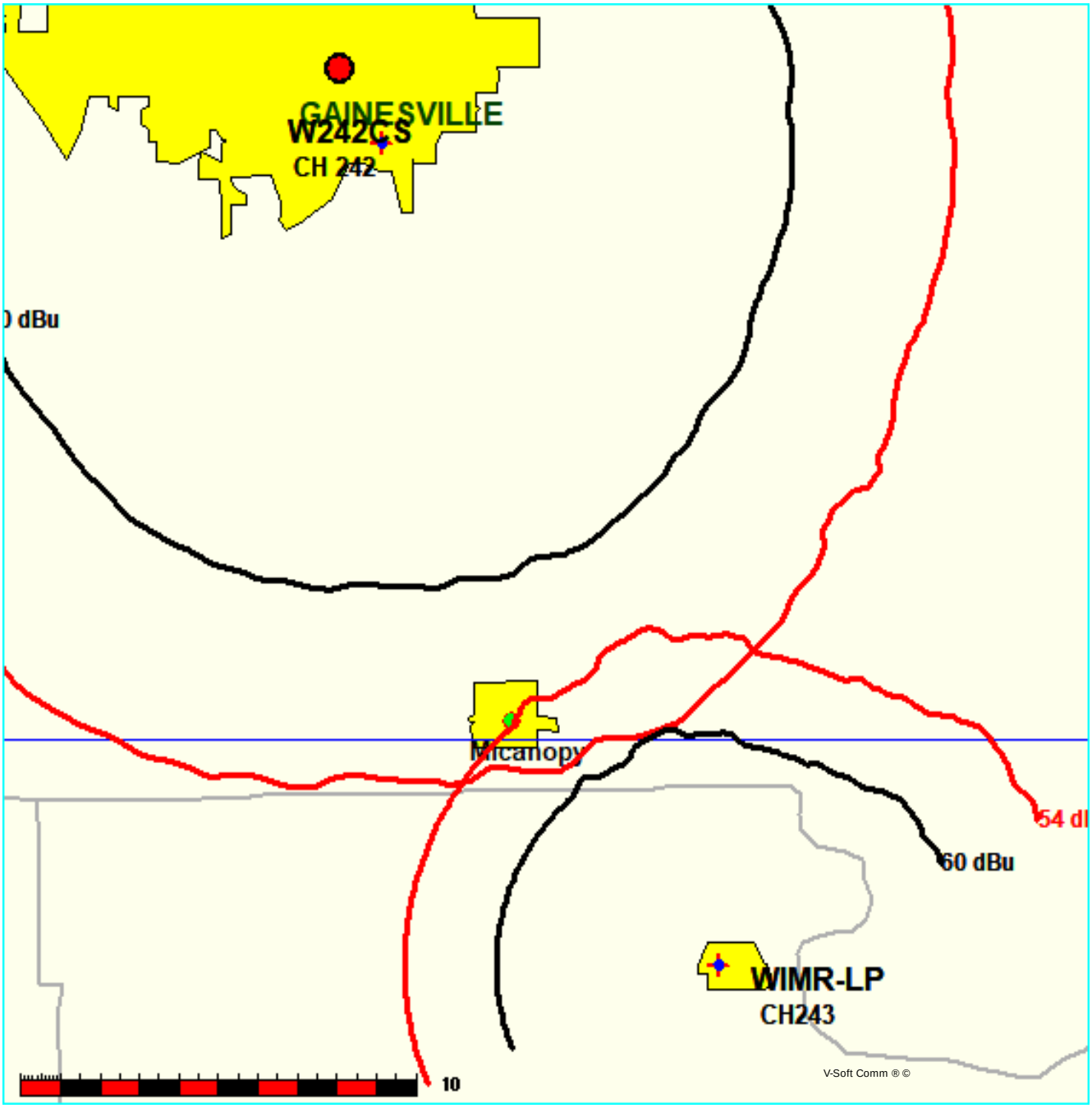


Figure 3: Allocation Study: W242CA
Marc Radio Gainesville, LLC

FMCommander Single Allocation Study - 09-04-2020 - GLOBE 30 Sec
W242CS's Overlaps (In= 8.37 km, Out= 2.7 km)

W242CS CH 242 D
Lat= 29 38 04.00, Lng= 82 18 49.00
0.175 kW 75.9 m HAAT, 114.1 m COR
Prot.= 60 dBu, Intef.= 40 dBu

W242CA CH 242 D BLFT20141007ADA
Lat= 29 12 04.90, Lng= 82 09 06.30
0.25 kW 56.5 m HAAT, 79 m COR
Prot.= 60 dBu, Intef.= 40 dBu

