

Technical Report Supporting a Minor Modification of a Licensed Facility Construction Permit Application

Pursuant to 47 C.F.R. Section 73:

for

*WYFW(FM).L – Winder, GA
(Facility ID: 5125)*

Change to a New Site Location

*as a
Class A, NCE-FM Facility on
CH208A (89.5 MHz)*

Table of Contents

Table of Contents

Explanation of Technical Report

Exhibit 1 - Service Contour Study: Present vs Proposed Operations

Exhibit 2 - Service Contour Study: Proposed Longley-Rice Method *(for illustrative purposes only)*

Exhibit 3 - Copy of Existing Antenna Structure Registration

Exhibit 4 - Vertical Plan of Antenna System and Support Tower

Exhibit 5 - HAAT Calculation & Miscellaneous Coordinate Information

Exhibit 6 - Tabulation of Proposed Non-Commercial Allocation

Exhibit(s) 7(a-f) - §73.509 Contour Protection Studies Toward Select Station(s)

Exhibit 8 - Directional Antenna Pattern Documentation

Supplemental Appendixes:

RF Appendix 1 - Radio Frequency Radiation Compliance Showing

EXPLANATION OF PROPOSAL: This Minor Modification of a Licensed Facility Construction Permit Application and accompanying Technical Report supports a minor change for NCE-FM Station WYFW(FM).L – Winder, GA (Facility ID: 5125). This FCC Schedule 340-NCE-FM filing requests a change to a new site location with the same Class A status. Continued operation on the present NCE-FM channel of CH208A (89.5 MHz) with 5.0 kW ERP (Circular Polarization) is requested. From the new site, operation with an antenna COR height of 346.9 meters AMSL, 44.2 meters AGL (76.6 meters HAAT) is requested. The facility will employ a directional antenna. The facility will continue specifying service to the community of Winder, GA.

FACILITY COMPLIANCE SHOWINGS: A map of the proposed 60 dBμ service contour in relation to the present 60 dBμ service contour has been included in ***Exhibit 1***. The minor change proposed service area will overlap a portion of the present service area as noted in the exhibit. In addition, this exhibit demonstrates NCE-FM grade service of 1.0 mV/m, or 60 dBμ F(50:50), to visually more than 50% of the community of license, as allowed per 47 C.F.R. Section 73.515. In this instance, 100% community coverage will be attained.

A Longley-Rice coverage map of the proposed operation has been plotted in ***Exhibit 2***. The applicant acknowledges this map has been provided for illustrative purposes only.

The proposed facility will be located on the tower bearing Antenna Structure Registration Number 1024089. In support of this filing, a copy of the current ASRN has been included in ***Exhibit 3***. A depiction of the tower and antenna configuration has been included in ***Exhibit 4***. Further notification to the FAA or ASR governing authorities is not required as this proposal will not increase the overall tower height.

The applicant would like to note use of the NED 03 second terrain database for all allocation, contour and HAAT showings contained herein. A copy of the proposed HAAT calculation has been included in ***Exhibit 5***. In addition, the requested Class A power of 5.0 kW ERP has been verified accurate for the proposed 76.6 meter HAAT value also as noted in ***Exhibit 5***.

ALLOCATION COMPLIANCE SHOWINGS: The proposed full service NCE-FM site will meet all class contour protection requirements of 47 C.F.R. Section 73.509 toward each allocation protection. A tabulation of the proposed NCE-FM allocation is found in **Exhibit 6**. There are six (6) allocation concerns deemed close enough to require further study. Therefore, maps and/or tabulations of the relevant protected and interference contours toward these concerns have been supplied in **Exhibit(s) 7(a-f)**. Additional tabulations or maps will be supplied upon request.

The transmitter site is located more than 320 km from the common border of the United States and Canada or Mexico. As a result, full protection will be afforded all international concerns as noted in the **Exhibit 6** allocation study.

Full protection will be afforded all TV6 concerns as noted in **Exhibit 6**.

The remainder of the information in this report is responsive to the Rules of the Commission, and provides the data for the FCC's online master LMS (Licensing and Management System) Form 2100 - Schedule 340-FM.

ENVIRONMENTAL COMPLIANCE SHOWINGS: The proposed facility complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments as set forth under §1.1310 and/or §1.1307(b)(3) of the Commission's rules and the guidelines for RF radiation protection as set forth in OET Bulletin No. 65 (Edition 97-01), and the accompanying Supplement A, (Edition 97-01). Compliance has been demonstrated in the attached **RF Appendix 1** of this filing. The facility is, or will be, properly marked with signs. Entry is, or will be, restricted by means of fencing with locked doors or gates. In addition, coordination with other users of the site will be secured to reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

Regarding compliance with the NEPA, Nationwide Programmatic Agreement and NHPA Section 106 for tower co-location, compliance with the Agreement is not required where no new tower construction is being proposed and the tower is not being substantially altered. Specifically, compliance is not necessary where only an antenna and feedline are being added to an existing structure. However, should the Commission determine compliance is necessary, upon notification to the applicant, the applicant will file FCC Form 621.

CERTIFICATION OF TECHNICAL CONSULTANT: *I declare, under penalty of perjury, that the contents of this report are true and accurate to the best of my knowledge and belief. I further certify I have over twenty-four years of experience as a broadcast technical consultant before the Federal Communications Commission ("the FCC"); and am familiar with the Code of Federal Regulations Title 47 ("the Rules") as pertaining to this report and its contents herein. The underlying data utilized in this report was taken directly from FCC databases or indirectly through third party software vendors securing data directly from FCC databases. This firm cannot be held liable for errors or omissions resulting from the underlying data. The information contained herein is believed accurate to the date reported below.*



Justin W. Asher
Technical Consultant
March 26, 2024

Exhibit 1
Service Contour Study:
Present vs Proposed Operations

Proposed 60 dBμ F(50:50) Contour
Present 60 dBμ F(50:50) Contour

WYFW.L
Winder, GA
Facility ID: 5125
BLED20090909AAI
Channel: 208A (89.5 MHz)
Latitude: 33-59-29.30 N
Longitude: 083-45-45.60 W
AMSL Height: 333.0 m
ERP: 6.00 kW
Pattern: Directional

60 dBμ F(50:50) Contour
Total Population: 166,266
Total Area: 1,094.1 sq. km

WYFW.P
Winder, GA
Facility ID: 5125
Proposed Operation
Channel: 208A (89.5 MHz)
Latitude: 33-59-46.80 N
Longitude: 083-45-18.20 W
AMSL Height: 346.9 m
ERP: 5.00 kW
Pattern: Directional

60 dBμ F(50:50) Contour
Total Population: 180,598
Total Area: 1,214.3 sq. km

Terrain
134 417 m

NED 03 SEC Terrain Database
US Census 2020 PL Database
NAD 1983 Coordinate Datum

Scale 1:265,000
0 5 10 15 km

Asher Broadcast Consulting LLC
justinasher@consultant.com
1 (202) 875-2986

non-FCC-sanctioned coverage map
for illustrative purposes only

NED 03 SEC Terrain Database
US Census 2020 PL Database
NAD 1983 Coordinate Datum

Exhibit 2

Service Contour Study: Proposed Longley-Rice Method

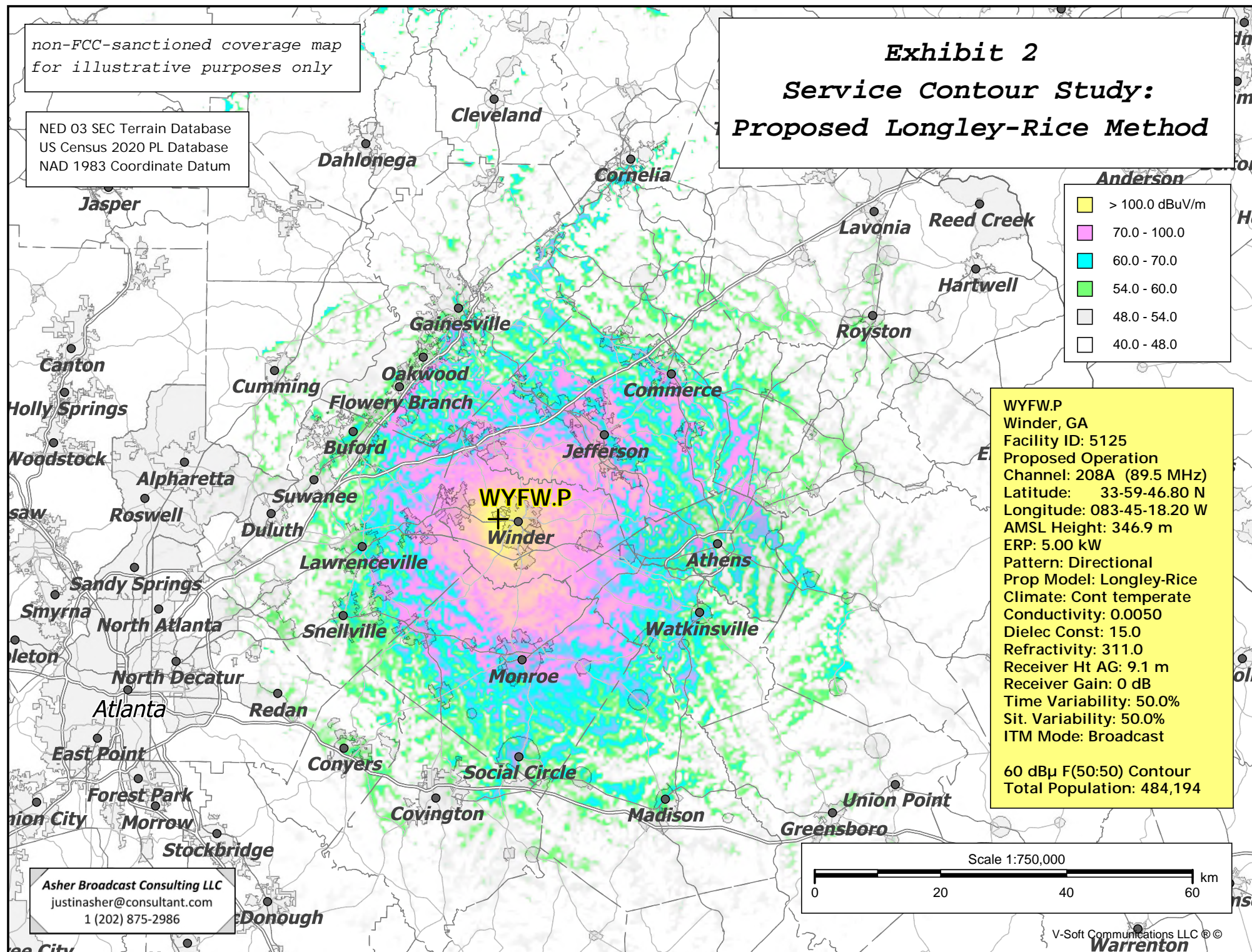


Exhibit 3

Copy of Existing Antenna Structure Registration

(public record copy)

Registration Detail

Reg Number	1024089	Status	Constructed
File Number	A1177546	Constructed	11/05/2003
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

Lat/Long	33-59-46.8 N 083-45-18.2 W	Address	SUBSTATION, 0.4 MI N OF HWY 29, 1 MI W
City, State	WINDER , GA		
Zip	30680	County	BARROW
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
302.7	113.4
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
416.1	106.7

Painting and Lighting Specifications

FAA Chapters 4, 5, 6, 8, 13
Paint and Light in Accordance with FAA Circular Number 70/7460-1J

FAA Notification

FAA Study	97-ASO-2085-OE	FAA Issue Date	05/01/1998
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Owner & Contact Information

FRN	0001858604	Owner Entity Type	Corporation
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Owner

GEORGIA POWER COMPANY
Attention To: Michael V. Wright
Bin 10028, 241 Ralph McGill Blvd.
Atlanta , GA 30308
P: (404)506-3846
F:
E: mvwright@southernco.com

Contact

Wright , Michael V
Bin 10028, 241 Ralph McGill Blvd.
Atlanta , GA 30308
P: (404)506-3846
F:
E: mvwright@southernco.com

Last Action Status

Status	Constructed	Received	11/04/2020
Purpose	Admin Update	Entered	11/04/2020
Mode	Interactive		

Related Applications

11/04/2020	A1177546 - Admin Update (AU)
11/05/2003	A0354037 - Modification (MD)
11/05/2003	A0354046 - Notification (NT)

Related applications (8)

Comments

Comments

None

History

Date

11/05/2020
11/04/2020
11/06/2003
All History (10)

Event

Registration Printed
Administrative Update Received
Registration Printed

Pleadings

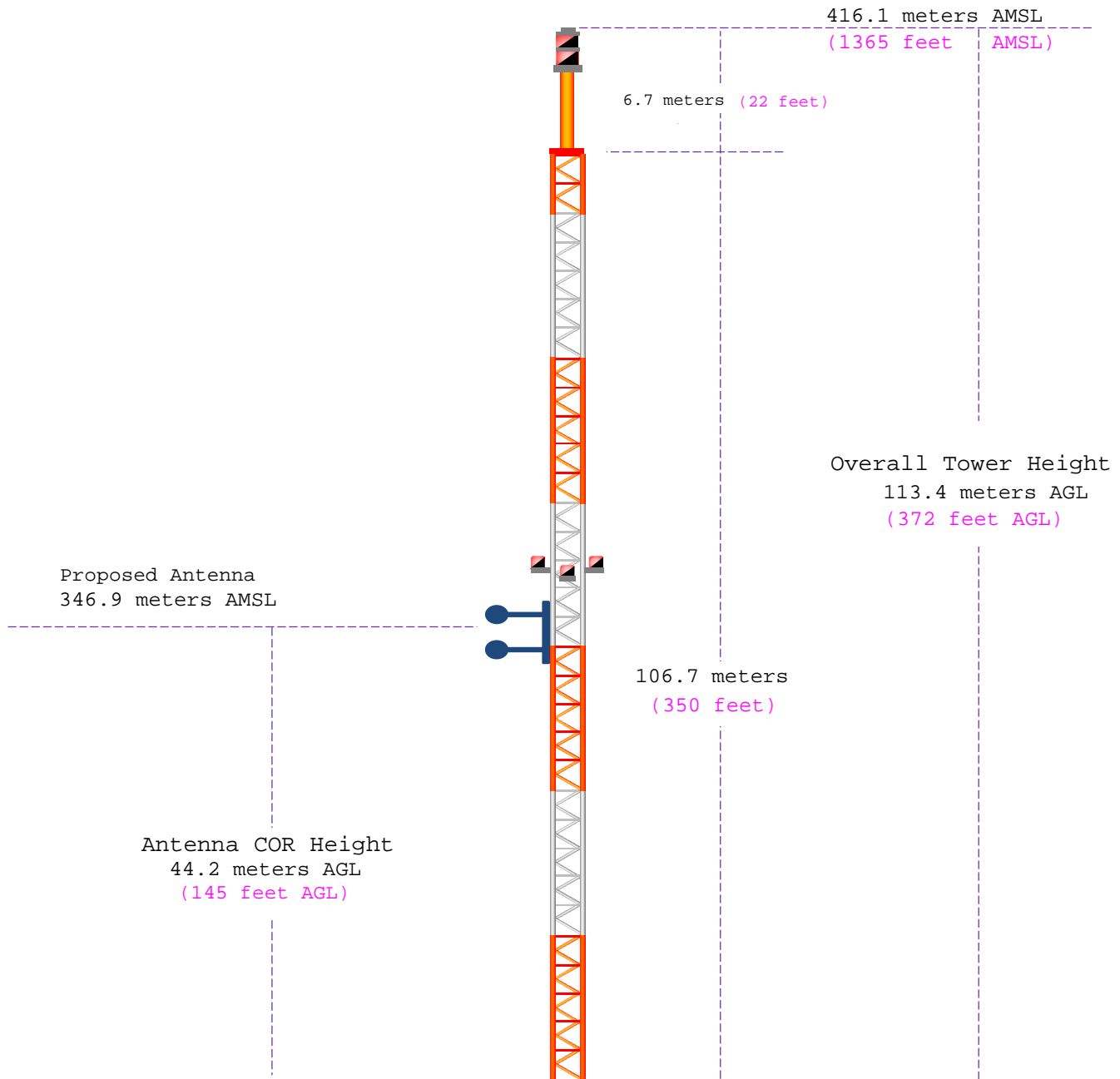
Pleading Type	Filer Name	Description	Date Entered
None			

Automated Letters

11/06/2003	Authorization, Reference 311024
04/15/2003	Authorization, Reference 280455
12/01/2000	Authorization, Reference 85219

Exhibit 4

Vertical Plan of Antenna System and Support Tower



Ground Elevation: 302.7 meters AMSL (993 feet AMSL)		
Address: SUBSTATION, 0.4 MI N OF HWY 29, 1 MI W		
City: WINDER	<u>Latitude (D M S)</u>	<u>Longitude (D M S)</u>
County: BARROW	---	---
State: GEORGIA	Lat/Long 33-59-46.8 N 083-45-18.2 W	(NAD 1927) (NAD 1983)
Antenna Structure Registration 1024089	Drawing Is Not To Scale	Asher Broadcast Consulting, LLC justinasher@consultant.com 1(202)875-2986

Exhibit 5

HAAT and Miscellaneous Coordinate Information

HAAT Calculation (NAD 1983):

N. Lat. = 335946.8 W. Lng. = 834518.2
 HAAT and Distance to Contour,
 FCC, FM 2-10 Mi, 51 pts Method - NED 03 SEC

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	264.4	82.5	0.7605	-1.19	0.390	15.43
045	245.7	101.2	4.7531	6.77	0.975	27.00
090	261.0	85.9	5.0000	6.99	1.000	25.28
135	241.2	105.7	5.0000	6.99	1.000	27.87
180	268.1	78.8	4.8020	6.81	0.980	24.06
225	280.1	66.8	0.9592	-0.18	0.438	14.72
270	308.3	38.6	0.8000	-0.97	0.400	10.80
315	294.0	52.9	0.6301	-2.01	0.355	11.97

Ave EL= 270.34 M HAAT= 76.56 M AMSL= 346.9

NAD 1983 to NAD 1927 Conversion:

Various Coordinate Conversion Calculations (NAD 1983):

Position Type	Lat Lon
Degrees Lat Long	33.9963333°, -083.7550556°
Degrees Minutes	33°59.78000', -083°45.30333'
Degrees Minutes Seconds	33°59'46.8000", -083°45'18.2000"
UTM	17S 245528mE 3765171mN
UTM centimeter	17S 245528.62mE 3765171.88mN
MGRS	17SKT4552865171
Grid North	-1.5°
GARS	193LH13
Maidenhead	EM83CX99JC48
GEOREF	GJGD14695978
Plus Code	865RX6WV+GX
Plus Code Extended	865RX6WV+GXP6Q8J
what3words	kickbacks.cuff.dangerous

Exhibit 6

Tabulation of Proposed Allocation

Blue Text indicates contour protection studies toward select stations as included in ***Exhibit(s) 7(a-f)***.

Bible Broadcasting Network, I											
REFERENCE	CH#	208A	-	89.5 MHz,	Pwr= 5 kW DA,	HAAT= 76.6 M,	COR= 346.9 M	DISPLAY DATES			
33 59 46.80 N.				Average Protected F(50-50)= 23.96 km				DATA	03-11-24		
83 45 18.20 W.				Standard Directional				SEARCH	03-11-24		
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)
208A WYFW	LIC DCN	232.4	0.88	33 59 29.30	6.000				---Reference---		
Winder	GA	52.4	BLED20090909AAI	83 45 45.60	61	333	Bible Broadcasting Network				
208A WNGU	LIC DCN	339.3	62.82	34 31 29.30	0.750	48.6	14.8	0.2	0.1		
Dahlonega	GA	159.2	BLED19980915AAA	83 59 49.70	140	573	Georgia Public Telecommuni				
207C1 WRFG	LIC DCN	248.9	57.86	33 48 26.40	65.000	46.4	29.3	0.3	7.9		
Atlanta	GA	68.5	BLED20071001DQH	84 20 21.70	148	432	Radio Free Georgia Broadca				
205C3 WMSL	LIC DCN	112.3	26.13	33 54 25.40	20.000	2.4	17.0	0.3	6.3		
Athens	GA	292.4	BMLED20051128AFV	83 29 34.60	91	320	Radio Training Network, In				
211C0 WABE	LIC DCN	243.9	59.63	33 45 33.40	100.000	6.2	55.9	39.7	2.1		
Atlanta	GA	63.6	BLED20120521ABP	84 20 04.70	334	615	Board Of Education Of The				
208C1 WQAI	LIC DEN	103.6	117.34	33 44 32.50	63.000	86.3	29.2	6.3	8.5		
Thomson	GA	284.3	BLED20150416AAJ	82 31 16.50	145	275	Educational Media Foundati				
210A WRDA	CP DCN	42.9	34.94	34 13 34.80	2.600	1.5	10.9	6.4	19.6		
Homer	GA	223.0	0000167587	83 29 47.00	95	340	Restored Together Radio, I				
206A WBCX	LIC _CN	349.2	36.29	34 19 01.30	0.840	1.6	19.3	18.8	15.3		
Gainesville	GA	169.2	BLED19851202KD	83 49 44.60	166	447	Brenau College				
209A WWQE	LIC DCN	74.6	75.96	34 10 32.40	1.150	13.8	9.9	34.8	21.7		
Elberton	GA	255.0	BLED20140203AOY	82 57 32.50	95	292	The Power Foundation				
261A WPUP«	LIC NCN	100.5	33.51	33 56 28.40	4.300	61.6	17.3	9.5R	24.0M		
Watkinsville	GA	280.7	BLH20080626ABC	83 23 54.60	88	311	Cox Radio, LLC				
209A WTXR	LIC DCN	28.0	76.00	34 35 57.40	0.400	21.7	8.4	30.7	24.3		
Toccoa Falls	GA	208.2	BLED20010125ABQ	83 21 54.60	42	387	Radio Training Network, In				
208C2 WYFK	LIC _CN	217.4	184.71	32 40 14.20	50.000	130.6	44.3	35.1	84.0		
Columbus	GA	36.7	0000159040	84 57 13.20	120	306	Bible Broadcasting Network				
207C1 WLFJ-FM	LIC DEN	49.2	161.78	34 56 26.40	41.000	97.9	67.1	35.7	51.4		
Greenville	SC	229.9	BLED19830512AP	82 24 43.40	335	643	Radio Training Network, In				
207A WNBA	CP DCN	145.8	106.94	33 11 58.00	4.000	27.3	17.9	52.5	43.2		
Milledgeville	GA	326.1	0000166083	83 06 30.00	101	239	Community Public Radio, In				
209C0 WMUM-FM	LIC _EN	164.5	175.97	32 28 11.60	100.000	103.0	70.7	47.1	66.0		
Cochran	GA	344.8	BLED20080429AAG	83 15 16.60	304	409	Georgia Public Telecommuni				
206A WAKP	LIC DVN	164.4	78.42	33 19 00.50	2.900	1.6	12.2	51.0	61.9		
Smithboro	GA	344.5	BLED20100726AIQ	83 31 39.60	67	219	Friends In Need Foundation				
210A WRRD	LIC _CN	128.0	80.51	33 32 53.50	0.630	1.6	15.3	51.3	62.2		
Greensboro	GA	308.4	BLED20110810AAV	83 04 14.50	95	277	Pensacola Christian Colleg				
208C2 766369	CP DCN	268.6	147.88	33 57 14.30	35.000	81.5	22.4	55.8	83.0		
Cedartown	GA	87.7	0000166271	85 21 29.50	27	335	Evangelical Megaphone Mini				
209C1 WYBK	LIC _CN	312.9	193.64	35 10 18.30	100.000	120.9	81.5	59.7	93.0		
Chattanooga	TN	132.0	BMLED20140602BAP	85 18 58.90	250	655	Bible Broadcasting Network				

Terrain database is NED 03 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= - ZN2, 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.

Exhibit 7a

Contour Protection Studies Toward Select Allocation Concern(s)

Bible Broadcasting Network, I

FMCommander Single Allocation Study - 03-11-2024 - NED 03 SEC

WYFW.P's Overlaps (In= 0.16 km, Out= 0.06 km)

WYFW.P CH 208 A DA

Lat= 33 59 46.80, Lng= 83 45 18.20

5.0 kW 76.6 m HAAT, 346.9 m COR

Prot.= 60 dBu, Intef.= 40 dBu

WNGU CH 208 A DA BLED19980915AAA

Lat= 34 31 29.30, Lng= 83 59 49.70

0.75 kW 140 m HAAT, 573 m COR

Prot.= 60 dBu, Intef.= 40 dBu

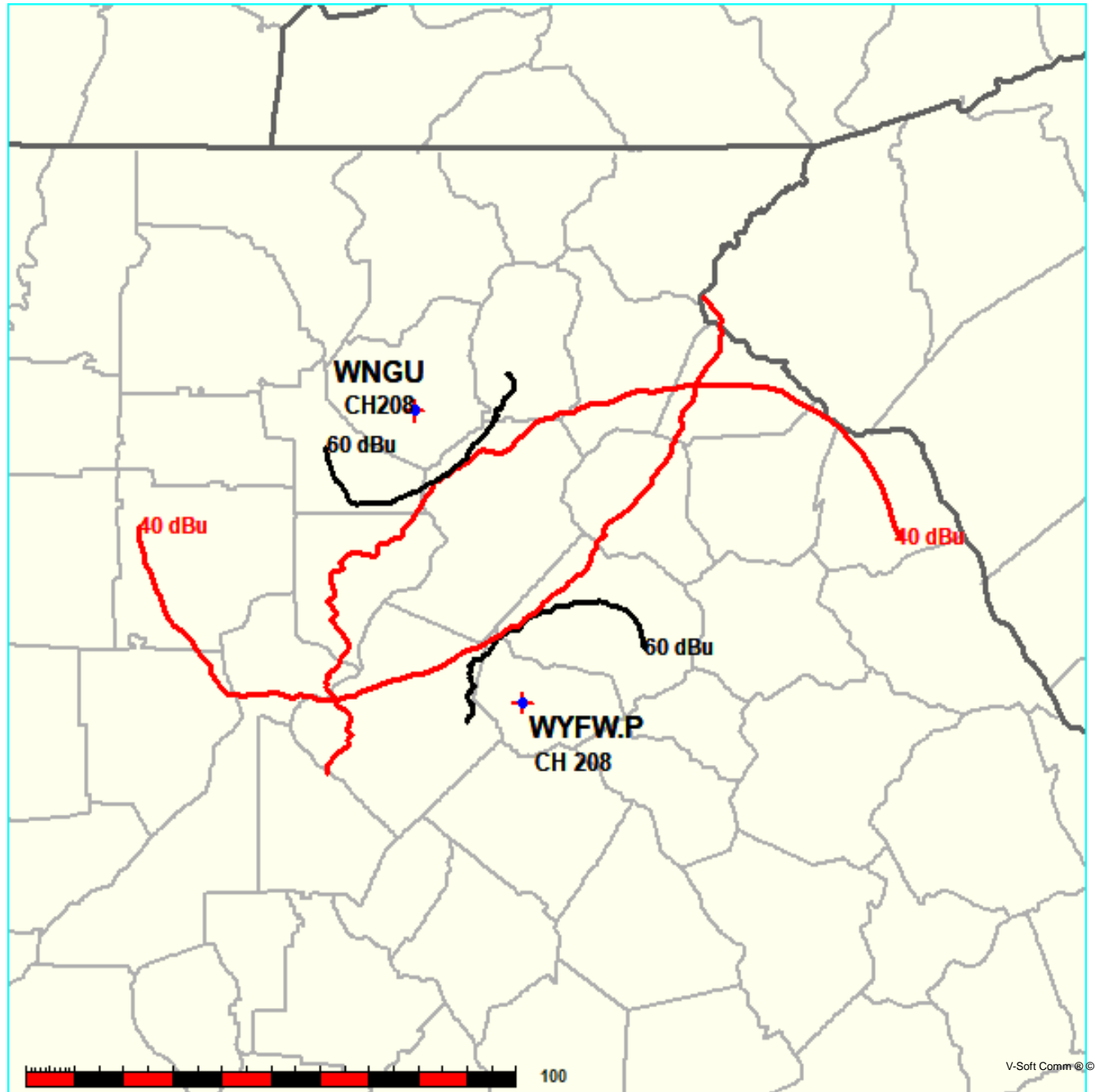


Exhibit 7a

Contour Protection Studies Toward Select Allocation Concern(s)

03-11-2024

Terrain Data: NED 03 SEC

FMOver Analysis

WYFW.P

WNGU BLED19980915AAA

Channel = 208A

Max ERP = 5 kW

RCAMSL = 346.9 m

N. Lat. 33 59 46.80

W. Lng. 83 45 18.20

Protected

60 dBu

Channel = 208A

Max ERP = 0.75 kW

RCAMSL = 573 m

N. Lat. 34 31 29.30

W. Lng. 83 59 49.70

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
301.0	000.9680	0047.3	012.5	167.5	000.1005	0216.6	053.6	38.48	
302.0	000.9461	0050.5	012.9	167.6	000.1005	0216.7	053.2	38.65	
303.0	000.9245	0052.6	013.1	167.6	000.1005	0216.7	052.9	38.76	
304.0	000.9031	0053.2	013.1	167.4	000.1005	0216.6	052.7	38.83	
305.0	000.8820	0052.0	012.8	167.1	000.1005	0216.7	052.7	38.83	
306.0	000.8611	0050.9	012.6	166.8	000.1005	0216.0	052.7	38.79	
307.0	000.8405	0055.2	013.1	166.9	000.1005	0216.4	052.2	39.00	
308.0	000.8201	0055.5	013.0	166.7	000.1005	0215.7	052.1	39.02	
309.0	000.8000	0056.7	013.1	166.5	000.1005	0215.2	052.0	39.07	
310.0	000.7801	0056.4	013.0	166.2	000.1005	0215.4	051.9	39.09	
311.0	000.7488	0057.1	012.9	166.0	000.1005	0215.8	051.8	39.15	
312.0	000.7182	0056.4	012.7	165.7	000.1005	0215.9	051.8	39.14	
313.0	000.6882	0053.9	012.3	165.2	000.1005	0216.2	052.1	39.06	
314.0	000.6588	0052.1	012.0	164.8	000.1005	0215.5	052.2	38.97	
315.0	000.6301	0052.9	012.0	164.6	000.1005	0214.6	052.2	38.96	
316.0	000.6020	0056.6	012.2	164.6	000.1005	0214.4	051.8	39.08	
317.0	000.5746	0059.2	012.3	164.4	000.1005	0214.1	051.6	39.15	
318.0	000.5478	0059.9	012.3	164.2	000.1005	0214.0	051.6	39.16	
319.0	000.5216	0060.4	012.2	163.9	000.1005	0213.4	051.6	39.13	
320.0	000.4961	0060.7	012.1	163.6	000.1005	0213.1	051.6	39.11	
321.0	000.4898	0062.0	012.1	163.4	000.1005	0213.2	051.5	39.17	
322.0	000.4867	0060.5	012.0	163.2	000.1005	0213.2	051.5	39.15	
323.0	000.4805	0060.4	011.9	162.9	000.1005	0212.9	051.5	39.15	
324.0	000.4774	0062.0	012.0	162.8	000.1005	0212.4	051.3	39.20	
325.0	000.4743	0064.9	012.3	162.6	000.1005	0211.9	051.0	39.29	
326.0	000.4682	0064.5	012.2	162.4	000.1005	0211.2	051.0	39.25	
327.0	000.4651	0066.1	012.3	162.2	000.1005	0211.1	050.9	39.31	
328.0	000.4590	0066.9	012.3	161.9	000.1005	0211.3	050.8	39.35	
329.0	000.4560	0068.9	012.5	161.7	000.1005	0211.6	050.6	39.44	

Exhibit 7a

Contour Protection Studies Toward Select Allocation Concern(s)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
330.0	000.4500	0070.5	012.6	161.5	000.1005	0211.7	050.5	39.50
331.0	000.4500	0071.3	012.6	161.3	000.1005	0211.3	050.4	39.52
332.0	000.4500	0074.0	012.8	161.1	000.1005	0210.0	050.1	39.56
333.0	000.4500	0075.5	013.0	160.8	000.1005	0208.9	050.0	39.57
334.0	000.4500	0076.9	013.1	160.6	000.1005	0208.4	049.8	39.60
335.0	000.4500	0077.5	013.1	160.3	000.1005	0208.9	049.8	39.66
336.0	000.4500	0079.0	013.2	160.1	000.1005	0209.4	049.6	39.73
337.0	000.4500	0083.0	013.5	159.8	000.1005	0209.0	049.3	39.84
338.0	000.4500	0085.7	013.8	159.6	000.1005	0208.5	049.1	39.91
339.0	000.4500	0085.3	013.7	159.3	000.1005	0207.4	049.1	39.85
340.0	000.4500	0085.3	013.7	159.0	000.1005	0206.6	049.1	39.81
341.0	000.4682	0085.0	013.8	158.7	000.1005	0206.6	049.0	39.85
342.0	000.4836	0083.5	013.8	158.4	000.1005	0206.4	049.0	39.83
343.0	000.5024	0083.1	013.9	158.2	000.1005	0206.4	048.9	39.86
344.0	000.5184	0082.8	014.0	157.9	000.1005	0206.1	048.9	39.88
345.0	000.5346	0081.0	014.0	157.6	000.1005	0205.2	049.0	39.80
346.0	000.5544	0080.8	014.1	157.3	000.1005	0203.7	048.9	39.76
347.0	000.5712	0081.1	014.2	157.0	000.1005	0202.8	048.8	39.75
348.0	000.5917	0081.1	014.3	156.7	000.1005	0202.7	048.7	39.78
349.0	000.6125	0082.2	014.5	156.3	000.1005	0201.6	048.5	39.80
350.0	000.6301	0083.0	014.7	156.0	000.1005	0200.8	048.4	39.80
351.0	000.6444	0082.8	014.8	155.7	000.1005	0201.2	048.4	39.82
352.0	000.6552	0080.3	014.6	155.4	000.1005	0202.2	048.7	39.78
353.0	000.6661	0077.8	014.5	155.2	000.1005	0203.0	048.9	39.72
354.0	000.6808	0075.7	014.3	155.0	000.1005	0203.8	049.1	39.68
355.0	000.6956	0074.3	014.3	154.7	000.1005	0204.5	049.2	39.67
356.0	000.7069	0074.3	014.3	154.4	000.1005	0205.1	049.3	39.68
357.0	000.7182	0075.6	014.5	154.1	000.1005	0205.5	049.2	39.72
358.0	000.7334	0077.5	014.8	153.7	000.1005	0206.6	049.1	39.83
359.0	000.7488	0081.0	015.2	153.2	000.1005	0206.5	048.8	39.94
000.0	000.7605	0082.5	015.4	152.8	000.1005	0204.6	048.7	39.88
001.0	000.7960	0085.4	015.9	152.2	000.1005	0201.4	048.4	39.85
002.0	000.8323	0088.0	016.4	151.6	000.1005	0198.8	048.1	39.85
003.0	000.8694	0088.4	016.7	151.2	000.1005	0198.6	048.0	39.86
004.0	000.9074	0087.8	016.8	150.8	000.1005	0199.3	048.1	39.88
005.0	000.9461	0088.3	017.1	150.3	000.1005	0198.9	048.0	39.88
006.0	000.9857	0086.4	017.1	150.1	000.1005	0198.6	048.2	39.79
007.0	001.0260	0087.3	017.4	149.6	000.1005	0199.8	048.1	39.87
008.0	001.0672	0087.2	017.5	149.2	000.1005	0200.5	048.2	39.88
009.0	001.1092	0086.8	017.7	148.8	000.1005	0200.4	048.3	39.84
010.0	001.1520	0084.5	017.6	148.6	000.1005	0200.1	048.5	39.73
011.0	001.2103	0085.9	018.0	148.0	000.1005	0200.2	048.5	39.76
012.0	001.2701	0086.6	018.3	147.4	000.1005	0199.0	048.4	39.71
013.0	001.3313	0087.2	018.6	146.9	000.1005	0197.4	048.5	39.63

Exhibit 7a

Contour Protection Studies Toward Select Allocation Concern(s)

03-11-2024

Terrain Data: NED 03 SEC

FMOver Analysis

WNGU BLED19980915AAA

WYFW.P

Channel = 208A

Max ERP = 0.75 kW

RCAMSL = 573 m

N. Lat. 34 31 29.30

W. Lng. 83 59 49.70

Protected

60 dBu

Channel = 208A

Max ERP = 5 kW

RCAMSL = 346.9 m

N. Lat. 33 59 46.80

W. Lng. 83 45 18.20

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
114.0	000.1338	0178.6	014.8	350.7	000.6400	0083.3	053.4	39.29	
115.0	000.1279	0178.9	014.7	350.4	000.6358	0083.3	053.3	39.31	
116.0	000.1222	0178.6	014.5	350.1	000.6313	0083.1	053.2	39.30	
117.0	000.1165	0180.1	014.4	349.8	000.6269	0083.1	053.1	39.32	
118.0	000.1111	0180.0	014.2	349.5	000.6213	0083.0	053.0	39.30	
119.0	000.1057	0182.7	014.1	349.3	000.6172	0082.6	052.8	39.29	
120.0	000.1005	0181.6	013.9	348.9	000.6108	0082.0	052.8	39.21	
121.0	000.1005	0180.9	013.9	348.7	000.6067	0081.8	052.6	39.22	
122.0	000.1005	0182.4	013.9	348.6	000.6038	0081.7	052.4	39.27	
123.0	000.1005	0188.1	014.1	348.6	000.6031	0081.7	052.1	39.38	
124.0	000.1005	0186.4	014.1	348.3	000.5982	0081.6	052.0	39.38	
125.0	000.1005	0182.1	013.9	348.0	000.5918	0081.1	051.9	39.31	
126.0	000.1005	0186.1	014.1	347.9	000.5898	0080.9	051.6	39.38	
127.0	000.1005	0188.8	014.2	347.8	000.5870	0080.7	051.4	39.42	
128.0	000.1005	0188.3	014.1	347.5	000.5824	0080.7	051.3	39.43	
129.0	000.1005	0189.9	014.2	347.4	000.5788	0080.8	051.1	39.49	
130.0	000.1005	0192.9	014.3	347.2	000.5757	0080.9	050.8	39.56	
131.0	000.1005	0196.9	014.4	347.1	000.5730	0081.1	050.6	39.65	
132.0	000.1005	0199.0	014.5	346.9	000.5695	0081.0	050.4	39.69	
133.0	000.1005	0199.2	014.5	346.7	000.5656	0080.8	050.2	39.69	
134.0	000.1005	0197.6	014.5	346.4	000.5609	0081.0	050.1	39.71	
135.0	000.1005	0194.7	014.4	346.1	000.5558	0081.0	050.1	39.68	
136.0	000.1005	0193.8	014.3	345.8	000.5508	0080.7	050.0	39.65	
137.0	000.1005	0193.7	014.3	345.6	000.5458	0080.8	049.9	39.66	
138.0	000.1005	0193.1	014.3	345.3	000.5405	0080.9	049.8	39.66	
139.0	000.1005	0194.6	014.4	345.1	000.5360	0080.9	049.6	39.69	
140.0	000.1005	0194.9	014.4	344.8	000.5316	0081.1	049.5	39.70	
141.0	000.1005	0194.2	014.3	344.5	000.5271	0081.5	049.4	39.73	
142.0	000.1005	0193.3	014.3	344.3	000.5225	0082.2	049.3	39.78	
143.0	000.1005	0193.0	014.3	344.0	000.5181	0082.9	049.2	39.83	
144.0	000.1005	0193.5	014.3	343.7	000.5138	0083.3	049.1	39.87	
145.0	000.1005	0192.9	014.3	343.4	000.5093	0083.3	049.1	39.85	
146.0	000.1005	0195.5	014.4	343.2	000.5053	0083.1	048.9	39.86	

Exhibit 7a
Contour Protection Studies Toward Select Allocation Concern(s)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
147.0	000.1005	0197.7	014.5	342.9	000.5010	0083.1	048.8	39.88
148.0	000.1005	0200.3	014.6	342.7	000.4961	0083.3	048.6	39.90
149.0	000.1005	0200.5	014.6	342.4	000.4906	0083.3	048.6	39.88
150.0	000.1005	0198.6	014.5	342.1	000.4848	0083.4	048.6	39.83
151.0	000.1005	0199.0	014.5	341.8	000.4801	0083.9	048.5	39.85
152.0	000.1005	0200.4	014.6	341.5	000.4757	0084.2	048.4	39.88
153.0	000.1005	0205.8	014.8	341.2	000.4716	0084.7	048.2	39.96
154.0	000.1005	0205.6	014.7	340.9	000.4667	0085.2	048.2	39.97
155.0	000.1005	0203.7	014.7	340.6	000.4610	0085.4	048.2	39.92
156.0	000.1005	0200.8	014.6	340.3	000.4553	0085.3	048.3	39.83
157.0	000.1005	0202.8	014.6	340.0	000.4500	0085.3	048.2	39.81
158.0	000.1005	0206.5	014.8	339.7	000.4500	0084.9	048.1	39.82
159.0	000.1005	0206.6	014.8	339.4	000.4500	0084.7	048.0	39.81
160.0	000.1005	0209.3	014.9	339.1	000.4500	0085.1	047.9	39.88
161.0	000.1005	0209.7	014.9	338.8	000.4500	0085.4	047.9	39.91
162.0	000.1005	0211.1	014.9	338.5	000.4500	0085.7	047.9	39.95
163.0	000.1005	0213.1	015.0	338.1	000.4500	0085.8	047.9	39.98
164.0	000.1005	0213.6	015.0	337.8	000.4500	0085.4	047.9	39.93
165.0	000.1005	0216.1	015.1	337.5	000.4500	0084.8	047.8	39.91
166.0	000.1005	0215.8	015.1	337.2	000.4500	0083.8	047.9	39.80
167.0	000.1005	0216.7	015.1	336.9	000.4500	0082.4	047.9	39.66
168.0	000.1005	0217.9	015.2	336.5	000.4500	0080.8	047.9	39.52
169.0	000.1005	0218.2	015.2	336.2	000.4500	0079.6	047.9	39.39
170.0	000.1005	0223.2	015.4	335.9	000.4500	0078.9	047.8	39.36
171.0	000.1057	0222.0	015.5	335.5	000.4500	0078.5	047.7	39.35
172.0	000.1111	0220.7	015.7	335.1	000.4500	0077.7	047.6	39.31
173.0	000.1165	0218.6	015.8	334.8	000.4500	0077.3	047.6	39.28
174.0	000.1222	0218.0	016.0	334.4	000.4500	0077.1	047.5	39.29
175.0	000.1279	0216.1	016.1	334.0	000.4500	0076.9	047.5	39.28
176.0	000.1338	0215.8	016.3	333.6	000.4500	0076.4	047.4	39.25
177.0	000.1398	0211.9	016.4	333.3	000.4500	0076.0	047.5	39.18
178.0	000.1460	0210.9	016.5	332.9	000.4500	0075.3	047.5	39.13
179.0	000.1523	0208.7	016.6	332.5	000.4500	0075.1	047.5	39.09
180.0	000.1587	0204.5	016.6	332.2	000.4500	0074.4	047.7	38.98
181.0	000.1670	0201.8	016.7	331.8	000.4500	0073.6	047.7	38.89
182.0	000.1755	0199.3	016.9	331.5	000.4500	0072.1	047.7	38.73
183.0	000.1843	0197.6	017.0	331.1	000.4500	0071.3	047.8	38.65
184.0	000.1932	0195.5	017.1	330.7	000.4500	0071.3	047.8	38.63
185.0	000.2024	0194.5	017.3	330.3	000.4500	0070.9	047.8	38.58
186.0	000.2118	0194.4	017.5	329.8	000.4510	0070.3	047.9	38.52
187.0	000.2214	0193.3	017.7	329.4	000.4534	0070.0	047.9	38.49
188.0	000.2312	0192.9	017.8	329.0	000.4560	0068.9	048.0	38.40
189.0	000.2412	0193.4	018.1	328.5	000.4574	0068.3	048.0	38.34
190.0	000.2514	0195.7	018.4	328.0	000.4590	0067.0	048.0	38.23

Exhibit 7b
Contour Protection Studies Toward Select Allocation Concern(s)

Bible Broadcasting Network, I

FMCommander Single Allocation Study - 03-11-2024 - NED 03 SEC

WYFW.P's Overlaps (In= 0.29 km, Out= 7.92 km)

WYFW.P CH 208 A DA

Lat= 33 59 46.80, Lng= 83 45 18.20

5.0 kW 76.6 m HAAT, 346.9 m COR

Prot.= 60 dBu, Intef.= 54 dBu

WRFG CH 207 C1 DA BLED20071001DQH

Lat= 33 48 26.40, Lng= 84 20 21.70

65.0 kW 148 m HAAT, 432 m COR

Prot.= 60 dBu, Intef.= 54 dBu

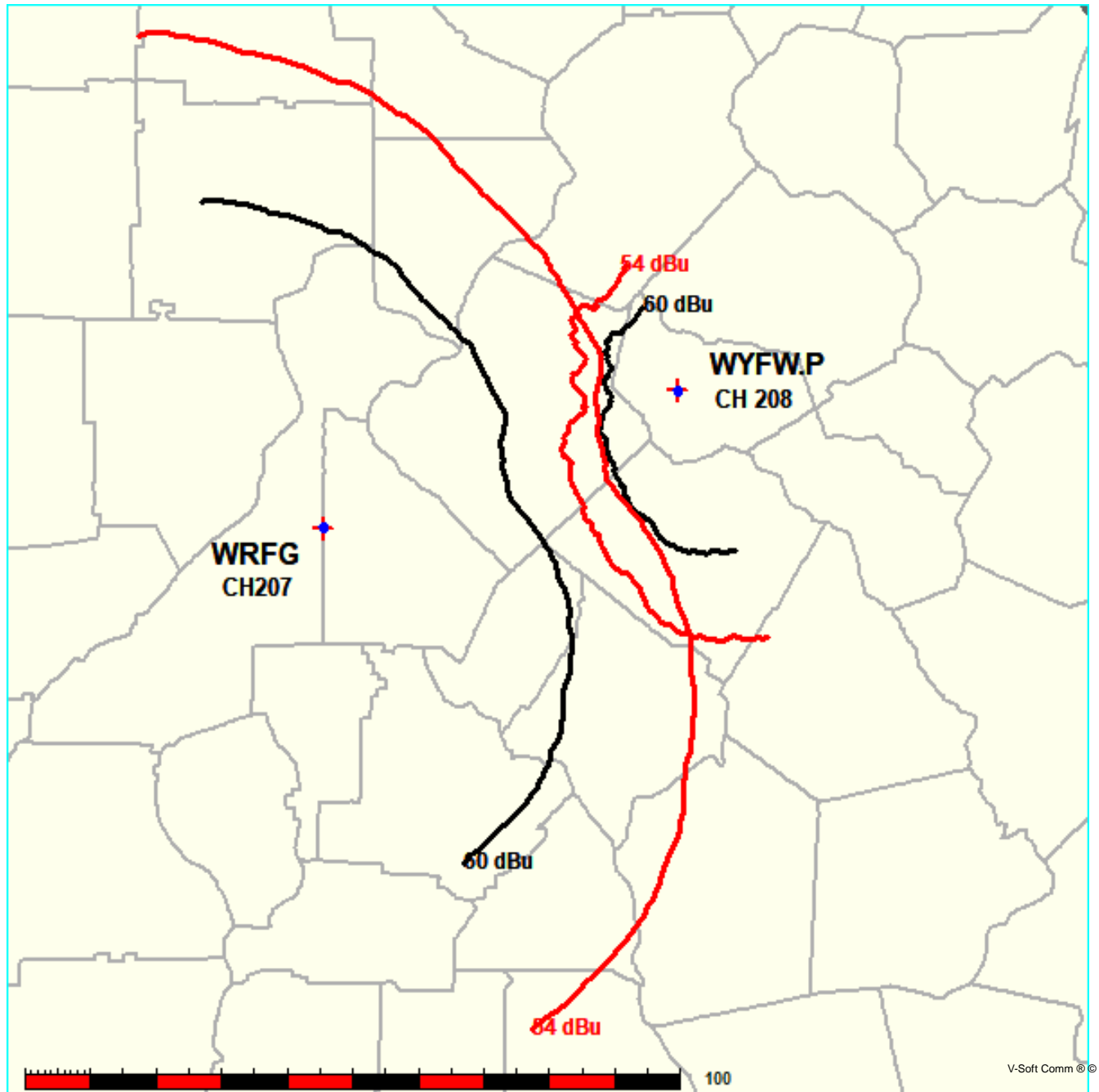


Exhibit 7b

Contour Protection Studies Toward Select Allocation Concern(s)

03-11-2024

Terrain Data: NED 03 SEC

FMOver Analysis

WYFW.P

WRFG BLED20071001DQH

Channel = 208A

Max ERP = 5 kW

RCAMSL = 346.9 m

N. Lat. 33 59 46.80

W. Lng. 83 45 18.20

Protected

60 dBu

Channel = 207C1

Max ERP = 65 kW

RCAMSL = 432 m

N. Lat. 33 48 26.40

W. Lng. 84 20 21.70

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
210.0	001.2500	0076.3	017.0	082.0	004.3870	0125.4	045.9	53.45	
211.0	001.2251	0077.0	017.0	081.7	004.3471	0125.5	045.7	53.51	
212.0	001.2005	0075.1	016.6	081.2	004.2554	0125.5	045.7	53.42	
213.0	001.1761	0073.7	016.4	080.7	004.1743	0125.5	045.6	53.35	
214.0	001.1520	0073.5	016.2	080.3	004.1145	0125.2	045.5	53.32	
215.0	001.1281	0074.6	016.3	080.1	004.0807	0125.0	045.3	53.37	
216.0	001.1045	0074.5	016.2	079.8	004.0785	0125.1	045.1	53.42	
217.0	001.0811	0073.7	016.0	079.3	004.1063	0125.6	045.1	53.50	
218.0	001.0580	0073.4	015.8	079.0	004.1310	0125.3	045.0	53.55	
219.0	001.0351	0069.1	015.3	078.2	004.1799	0122.9	045.3	53.36	
220.0	001.0125	0069.1	015.2	077.9	004.2016	0122.8	045.2	53.41	
221.0	000.9990	0068.0	015.0	077.5	004.2286	0123.2	045.2	53.47	
222.0	000.9901	0067.2	014.9	077.1	004.2518	0123.2	045.1	53.52	
223.0	000.9768	0067.3	014.8	076.8	004.2717	0123.5	045.0	53.60	
224.0	000.9680	0068.0	014.9	076.6	004.2884	0123.4	044.8	53.69	
225.0	000.9592	0066.8	014.7	076.2	004.3142	0123.1	044.8	53.70	
226.0	000.9461	0066.3	014.6	075.8	004.3380	0123.1	044.8	53.74	
227.0	000.9374	0066.6	014.6	075.5	004.3573	0122.8	044.6	53.79	
228.0	000.9245	0065.3	014.4	075.1	004.3839	0121.7	044.7	53.74	
229.0	000.9159	0064.5	014.3	074.8	004.4078	0121.0	044.7	53.73	
230.0	000.9031	0064.3	014.2	074.5	004.4299	0121.1	044.6	53.78	
231.0	000.8946	0064.0	014.2	074.1	004.4520	0120.9	044.6	53.80	
232.0	000.8820	0061.3	013.9	073.7	004.4822	0120.0	044.8	53.70	
233.0	000.8736	0059.8	013.7	073.3	004.5076	0119.1	044.9	53.64	
234.0	000.8611	0058.7	013.5	073.0	004.5319	0118.8	044.9	53.62	
235.0	000.8528	0058.5	013.5	072.7	004.5529	0118.4	044.9	53.62	
236.0	000.8405	0056.3	013.2	072.3	004.5797	0117.7	045.1	53.53	
237.0	000.8282	0057.4	013.3	072.0	004.5975	0117.5	045.0	53.59	
238.0	000.8201	0058.6	013.4	071.8	004.6152	0117.4	044.8	53.66	
239.0	000.8120	0058.4	013.3	071.5	004.6363	0117.3	044.8	53.67	

Exhibit 7b
Contour Protection Studies Toward Select Allocation Concern(s)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
240.0	000.8000	0060.9	013.5	071.2	004.6530	0117.3	044.6	53.79
241.0	000.7801	0060.6	013.4	070.9	004.6754	0117.4	044.6	53.79
242.0	000.7605	0062.5	013.5	070.6	004.6948	0117.3	044.5	53.86
243.0	000.7411	0061.7	013.3	070.3	004.7176	0117.2	044.6	53.82
244.0	000.7220	0059.5	013.1	070.0	004.7453	0117.3	044.9	53.75
245.0	000.7031	0058.5	012.9	069.7	004.7999	0117.5	045.0	53.75
246.0	000.6845	0058.9	012.8	069.4	004.8510	0118.0	045.1	53.82
247.0	000.6661	0059.6	012.8	069.1	004.9018	0118.2	045.1	53.87
248.0	000.6480	0057.3	012.5	068.8	004.9539	0118.2	045.4	53.80
249.0	000.6301	0055.6	012.3	068.5	005.0034	0118.0	045.6	53.73
250.0	000.6125	0055.2	012.1	068.2	005.0513	0117.7	045.7	53.70
251.0	000.6125	0054.1	012.0	068.0	005.0982	0117.5	045.9	53.68
252.0	000.6125	0054.1	012.0	067.7	005.1459	0117.3	045.9	53.70
253.0	000.6125	0051.2	011.7	067.5	005.1872	0116.9	046.2	53.58
254.0	000.6125	0048.2	011.3	067.3	005.2244	0116.9	046.6	53.46
255.0	000.6125	0046.2	011.1	067.1	005.2615	0116.8	046.9	53.37
256.0	000.6125	0042.3	010.6	067.0	005.2880	0116.7	047.4	53.19
257.0	000.6125	0041.7	010.5	066.8	005.3259	0116.6	047.5	53.17
258.0	000.6125	0042.1	010.6	066.5	005.3689	0116.5	047.5	53.21
259.0	000.6125	0039.9	010.3	066.4	005.3959	0116.3	047.8	53.10
260.0	000.6125	0041.2	010.5	066.1	005.4443	0115.6	047.7	53.14
261.0	000.6301	0041.0	010.5	065.9	005.4869	0114.9	047.7	53.13
262.0	000.6480	0039.2	010.3	065.7	005.5166	0114.6	047.9	53.05
263.0	000.6661	0038.3	010.3	065.5	005.5530	0114.2	048.0	53.02
264.0	000.6845	0037.0	010.2	065.4	005.5841	0113.9	048.1	52.97
265.0	000.7031	0036.3	010.2	065.2	005.6203	0113.8	048.2	52.96
266.0	000.7220	0036.8	010.3	064.9	005.6693	0113.6	048.1	53.01
267.0	000.7411	0036.9	010.4	064.7	005.7141	0113.5	048.1	53.04
268.0	000.7605	0038.5	010.7	064.4	005.7781	0113.6	047.9	53.16
269.0	000.7801	0039.4	010.8	064.1	005.8364	0113.3	047.8	53.23
270.0	000.8000	0038.6	010.8	063.9	005.8721	0113.1	047.9	53.19
271.0	000.8201	0038.4	010.8	063.7	005.9150	0113.2	048.0	53.22
272.0	000.8364	0039.1	011.0	063.4	005.9713	0114.1	048.0	53.33
273.0	000.8570	0040.2	011.2	063.1	006.0362	0115.7	047.9	53.51
274.0	000.8736	0040.7	011.3	062.8	006.0908	0116.8	047.9	53.62
275.0	000.8946	0039.7	011.3	062.6	006.1219	0117.5	048.0	53.62
276.0	000.9116	0040.1	011.4	062.4	006.1742	0118.4	048.0	53.70
277.0	000.9288	0038.9	011.2	062.2	006.1982	0118.7	048.2	53.65
278.0	000.9505	0039.0	011.3	062.0	006.2460	0118.8	048.3	53.67
279.0	000.9680	0036.7	011.0	062.0	006.2459	0118.8	048.6	53.55
280.0	000.9901	0035.3	010.9	061.9	006.2614	0118.8	048.9	53.47
281.0	000.9901	0034.7	010.8	061.8	006.2844	0118.9	049.0	53.42
282.0	000.9901	0034.2	010.7	061.7	006.3080	0119.1	049.2	53.38

Exhibit 7b

Contour Protection Studies Toward Select Allocation Concern(s)

03-11-2024 Terrain Data: NED 03 SEC FMOver Analysis

WRFG BLED20071001DQH

WYFW.P

Channel = 207C1
 Max ERP = 65 kW
 RCAMSL = 432 m
 N. Lat. 33 48 26.40
 W. Lng. 84 20 21.70
 Protected
 60 dBu

Channel = 208A
 Max ERP = 5 kW
 RCAMSL = 346.9 m
 N. Lat. 33 59 46.80
 W. Lng. 83 45 18.20
 Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
024.0	011.7959	0132.8	037.5	289.1	000.9901	0034.2	040.8	39.10	
025.0	011.4660	0133.0	037.3	288.7	000.9901	0034.1	040.1	39.28	
026.0	011.1407	0132.0	037.0	288.1	000.9901	0033.2	039.5	39.29	
027.0	010.8202	0133.3	036.9	287.8	000.9901	0032.7	038.9	39.40	
028.0	010.5043	0133.3	036.6	287.3	000.9901	0032.8	038.3	39.63	
029.0	010.1930	0135.3	036.6	287.1	000.9901	0032.8	037.7	39.84	
030.0	009.8865	0136.7	036.6	286.8	000.9901	0032.8	037.1	40.05	
031.0	009.5348	0137.0	036.3	286.1	000.9901	0032.6	036.5	40.20	
032.0	009.1894	0137.9	036.1	285.6	000.9901	0033.2	036.0	40.53	
033.0	008.8505	0139.2	036.0	285.0	000.9901	0033.1	035.4	40.71	
034.0	008.5179	0140.7	035.8	284.5	000.9901	0033.4	034.9	40.98	
035.0	008.1916	0142.4	035.7	284.0	000.9901	0033.6	034.3	41.22	
036.0	007.8718	0142.3	035.4	283.0	000.9901	0034.6	033.9	41.61	
037.0	007.5583	0146.2	035.5	282.8	000.9901	0034.6	033.3	41.85	
038.0	007.2511	0150.4	035.7	282.6	000.9901	0034.5	032.6	42.07	
039.0	006.9504	0154.0	035.7	282.2	000.9901	0034.2	032.1	42.25	
040.0	006.6560	0152.3	035.2	280.8	000.9901	0035.2	031.8	42.57	
041.0	006.6560	0149.2	034.8	279.7	000.9837	0035.8	031.4	42.82	
042.0	006.6560	0146.2	034.5	278.6	000.9607	0037.7	031.1	43.28	
043.0	006.6560	0146.9	034.6	278.1	000.9519	0038.9	030.6	43.75	
044.0	006.6560	0143.7	034.2	276.8	000.9262	0039.2	030.3	43.81	
045.0	006.6560	0142.0	034.0	275.8	000.9089	0040.1	030.0	44.09	
046.0	006.6560	0140.0	033.8	274.8	000.8898	0040.1	029.7	44.16	
047.0	006.6560	0140.0	033.8	274.0	000.8735	0040.7	029.2	44.44	
048.0	006.6560	0138.2	033.6	272.9	000.8547	0040.1	028.9	44.36	
049.0	006.6560	0136.0	033.3	271.7	000.8315	0038.7	028.7	44.08	
050.0	006.6560	0133.2	033.0	270.4	000.8081	0038.4	028.6	43.95	
051.0	006.6560	0132.3	032.9	269.4	000.7877	0039.5	028.3	44.25	
052.0	006.6560	0133.1	033.0	268.6	000.7714	0039.0	027.9	44.28	
053.0	006.6560	0132.3	032.9	267.5	000.7503	0037.7	027.6	44.04	
054.0	006.6560	0131.0	032.7	266.3	000.7278	0037.0	027.4	43.86	
055.0	006.6560	0131.0	032.7	265.3	000.7084	0036.3	027.1	43.78	
056.0	006.6560	0130.3	032.7	264.1	000.6871	0036.8	026.9	43.87	

Exhibit 7b

Contour Protection Studies Toward Select Allocation Concern(s)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
057.0	006.6560	0130.8	032.7	263.1	000.6680	0038.2	026.6	44.26
058.0	006.6560	0130.0	032.6	261.9	000.6463	0039.2	026.5	44.44
059.0	006.6560	0126.6	032.2	260.5	000.6204	0041.9	026.6	44.73
060.0	006.6560	0123.1	031.8	259.0	000.6125	0039.8	026.8	44.13
061.0	006.4496	0120.8	031.3	257.6	000.6125	0042.2	027.1	44.43
062.0	006.2465	0118.8	030.9	256.3	000.6125	0041.4	027.4	44.08
063.0	006.0466	0115.9	030.3	254.9	000.6125	0046.4	027.8	44.83
064.0	005.8500	0113.2	029.8	253.7	000.6125	0049.6	028.3	45.15
065.0	005.6566	0113.6	029.6	252.6	000.6125	0052.9	028.4	45.67
066.0	005.4665	0115.3	029.6	251.5	000.6125	0054.5	028.4	45.93
067.0	005.2796	0116.7	029.5	250.5	000.6125	0054.7	028.4	45.95
068.0	005.0960	0117.5	029.3	249.4	000.6225	0055.7	028.5	46.10
069.0	004.9156	0118.2	029.2	248.4	000.6406	0056.3	028.7	46.20
070.0	004.7385	0117.3	028.8	247.4	000.6583	0058.9	029.1	46.51
071.0	004.6686	0117.3	028.7	246.5	000.6761	0059.0	029.2	46.56
072.0	004.5991	0117.5	028.7	245.5	000.6939	0058.6	029.3	46.54
073.0	004.5302	0118.8	028.7	244.5	000.7122	0059.3	029.3	46.73
074.0	004.4619	0120.7	028.8	243.5	000.7311	0060.2	029.3	46.97
075.0	004.3940	0121.3	028.7	242.6	000.7491	0062.1	029.5	47.24
076.0	004.3267	0123.0	028.8	241.6	000.7682	0061.4	029.5	47.22
077.0	004.2598	0123.3	028.7	240.7	000.7858	0060.9	029.8	47.15
078.0	004.1935	0122.8	028.6	239.9	000.8014	0060.4	030.0	47.01
079.0	004.1278	0125.4	028.7	238.9	000.8129	0058.4	030.1	46.78
080.0	004.0625	0124.9	028.6	238.1	000.8192	0058.6	030.4	46.68
081.0	004.2266	0125.4	028.9	237.0	000.8280	0057.4	030.3	46.59
082.0	004.3940	0125.4	029.1	236.0	000.8411	0056.4	030.3	46.52
083.0	004.5646	0125.5	029.4	234.9	000.8539	0058.5	030.3	46.88
084.0	004.7385	0126.9	029.8	233.7	000.8654	0058.8	030.2	47.03
085.0	004.9156	0128.6	030.2	232.4	000.8788	0060.5	030.1	47.37
086.0	005.0960	0129.4	030.5	231.2	000.8921	0063.6	030.2	47.81
087.0	005.2796	0130.0	030.8	230.0	000.9029	0064.3	030.2	47.92
088.0	005.4665	0132.3	031.3	228.6	000.9191	0064.6	030.2	48.07
089.0	005.6566	0133.3	031.7	227.4	000.9325	0066.1	030.3	48.28
090.0	005.8500	0134.4	032.1	226.1	000.9452	0066.1	030.3	48.29
091.0	006.1262	0135.1	032.5	224.8	000.9612	0066.7	030.4	48.39
092.0	006.4087	0135.6	033.0	223.5	000.9727	0068.6	030.6	48.60
093.0	006.6977	0136.8	033.5	222.1	000.9892	0067.2	030.7	48.43
094.0	006.9930	0137.0	033.8	220.9	001.0010	0068.1	031.0	48.48
095.0	007.2946	0138.2	034.3	219.5	001.0238	0068.9	031.2	48.57
096.0	007.6027	0139.0	034.7	218.3	001.0522	0072.4	031.4	48.98
097.0	007.9171	0139.0	035.1	217.2	001.0770	0073.9	031.8	49.08
098.0	008.2378	0141.8	035.7	215.6	001.1135	0074.5	032.0	49.19
099.0	008.5650	0139.3	035.7	215.1	001.1257	0074.7	032.6	49.00
100.0	008.8985	0139.8	036.1	214.1	001.1506	0073.6	033.0	48.78

Exhibit 7c
Contour Protection Studies Toward Select Allocation Concern(s)

Bible Broadcasting Network, I

FMCommander Single Allocation Study - 03-11-2024 - NED 03 SEC
WYFW.P's Overlaps (In= 0.31 km, Out= 6.31 km)

WYFW.P CH 208 A DA
Lat= 33 59 46.80, Lng= 83 45 18.20
5.0 kW 76.6 m HAAT, 346.9 m COR
Prot.= 60 dBu, Intef.= 100 dBu

WMSL CH 205 C3 DA BMLED20051128AFV
Lat= 33 54 25.40, Lng= 83 29 34.60
20.0 kW 91 m HAAT, 320 m COR
Prot.= 60 dBu, Intef.= 100 dBu

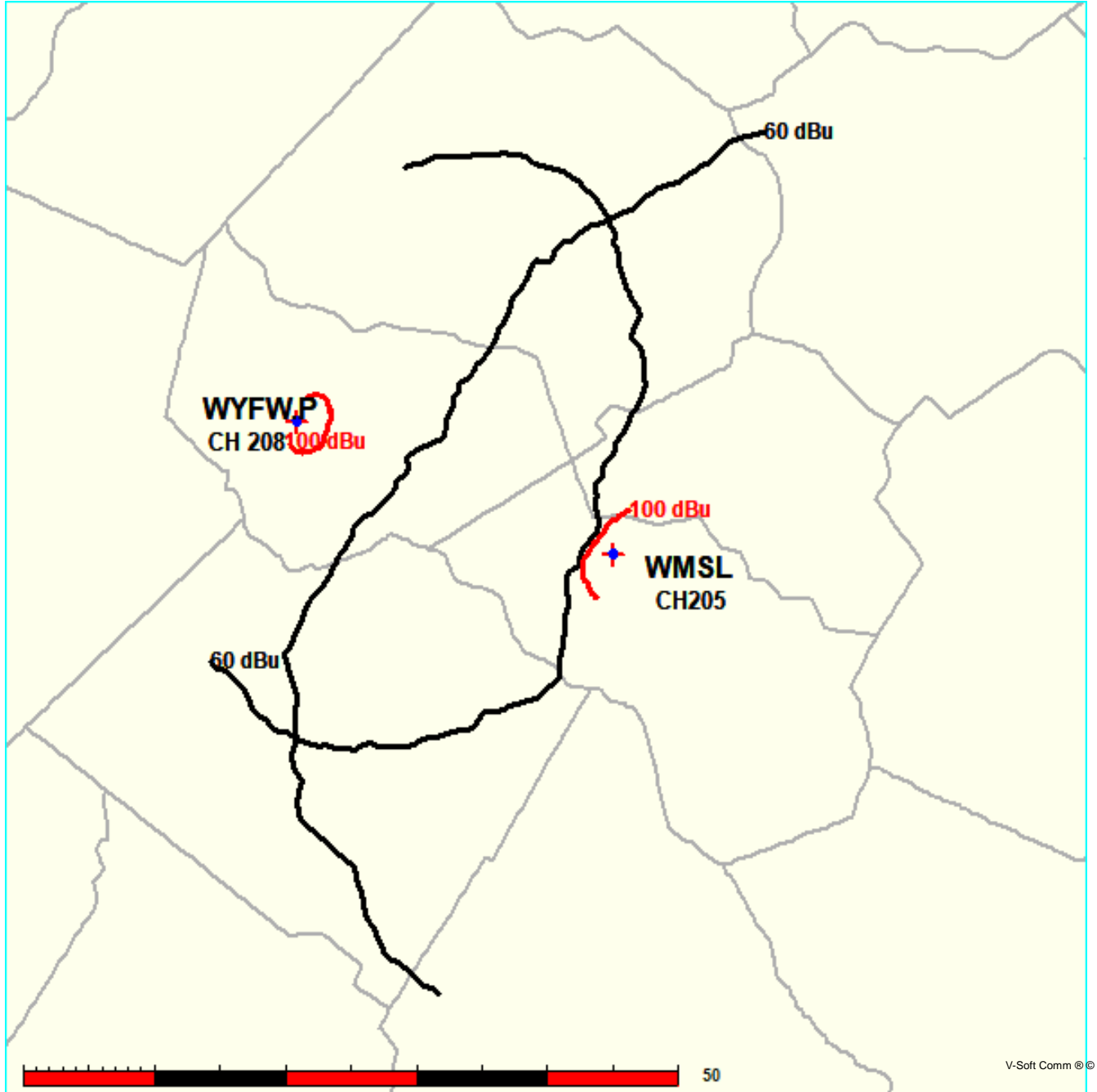


Exhibit 7c

Contour Protection Studies Toward Select Allocation Concern(s)

03-11-2024

Terrain Data: NED 03 SEC

FMOver Analysis

WYFW.P

WMSL BMLED20051128AFV

Channel = 208A

Max ERP = 5 kW

RCAMSL = 346.9 m

N. Lat. 33 59 46.80

W. Lng. 83 45 18.20

Protected

60 dBu

Channel = 205C3

Max ERP = 20 kW

RCAMSL = 320 m

N. Lat. 33 54 25.40

W. Lng. 83 29 34.60

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
074.0	005.0000	0098.0	026.9	005.7	006.1746	0089.9	017.4	68.44	
075.0	005.0000	0094.9	026.5	005.0	005.9742	0089.6	016.8	68.75	
076.0	005.0000	0093.3	026.3	004.8	005.9239	0089.3	016.3	69.12	
077.0	005.0000	0094.8	026.5	006.0	006.2621	0090.2	015.9	69.77	
078.0	005.0000	0096.8	026.8	007.5	006.6830	0091.4	015.6	70.47	
079.0	005.0000	0096.9	026.8	008.1	006.8636	0091.4	015.1	70.97	
080.0	005.0000	0097.9	026.9	009.1	007.1759	0090.8	014.7	71.35	
081.0	005.0000	0097.3	026.8	009.4	007.2660	0090.6	014.3	71.93	
082.0	005.0000	0096.1	026.7	009.4	007.2529	0090.7	013.8	72.54	
083.0	005.0000	0095.4	026.6	009.6	007.3104	0090.6	013.3	73.18	
084.0	005.0000	0096.0	026.7	010.5	007.6428	0091.3	012.9	74.01	
085.0	005.0000	0094.6	026.5	010.3	007.5461	0091.0	012.4	74.65	
086.0	005.0000	0093.7	026.3	010.2	007.5366	0091.0	011.9	75.35	
087.0	005.0000	0091.3	026.0	009.2	007.1985	0090.8	011.4	75.95	
088.0	005.0000	0090.0	025.8	008.8	007.0749	0091.2	010.9	76.68	
089.0	005.0000	0087.6	025.5	007.4	006.6692	0091.4	010.4	77.28	
090.0	005.0000	0085.9	025.3	006.4	006.3904	0091.1	010.0	77.89	
091.0	005.0000	0084.1	025.0	005.2	006.0491	0089.8	009.5	78.36	
092.0	005.0000	0083.9	025.0	005.2	006.0308	0089.8	009.1	79.15	
093.0	005.0000	0080.9	024.6	002.6	005.3337	0086.2	008.6	79.10	
094.0	005.0000	0079.2	024.3	000.8	004.8870	0088.0	008.2	79.71	
095.0	005.0000	0079.3	024.4	000.7	004.8611	0088.1	007.8	80.57	
096.0	005.0000	0078.8	024.3	359.9	004.6628	0088.7	007.4	81.41	
097.0	005.0000	0077.3	024.1	357.7	004.2433	0089.2	007.0	82.04	
098.0	005.0000	0074.6	023.7	353.7	003.5490	0092.3	006.6	82.47	
099.0	005.0000	0074.2	023.6	352.2	003.3008	0091.0	006.3	83.08	
100.0	005.0000	0074.3	023.6	351.1	003.1212	0093.7	005.9	84.28	
101.0	005.0000	0073.1	023.5	348.0	002.7136	0090.9	005.5	84.39	
102.0	005.0000	0071.8	023.3	344.4	002.3132	0098.4	005.3	85.35	

Exhibit 7c
Contour Protection Studies Toward Select Allocation Concern(s)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
103.0	005.0000	0072.7	023.4	343.5	002.2094	0097.9	004.8	86.45
104.0	005.0000	0074.2	023.6	343.2	002.1853	0097.1	004.4	87.97
105.0	005.0000	0074.0	023.6	339.9	001.8548	0093.5	004.0	88.22
106.0	005.0000	0074.5	023.7	337.0	001.7012	0091.4	003.7	89.24
107.0	005.0000	0076.4	023.9	335.9	001.6434	0088.7	003.2	91.10
108.0	005.0000	0078.2	024.2	334.2	001.5578	0085.9	002.7	93.39
109.0	005.0000	0079.0	024.3	328.9	001.3520	0082.5	002.3	95.01
110.0	005.0000	0079.4	024.4	320.6	001.3520	0075.8	002.0	96.75
111.0	005.0000	0078.3	024.2	307.7	001.3947	0066.4	002.0	96.42
112.0	005.0000	0077.1	024.0	295.3	001.5457	0070.7	002.1	96.36
113.0	005.0000	0076.4	023.9	284.3	001.7616	0068.1	002.2	95.72
114.0	005.0000	0076.2	023.9	274.3	002.1009	0080.6	002.4	96.55
115.0	005.0000	0076.3	023.9	265.3	002.8097	0083.9	002.5	96.92
116.0	005.0000	0076.8	024.0	256.8	004.1418	0090.5	002.7	97.97
117.0	005.0000	0077.6	024.1	248.9	005.9118	0087.0	002.9	98.00
118.0	005.0000	0075.3	023.8	248.5	006.0366	0086.1	003.4	95.30
119.0	005.0000	0074.9	023.7	245.2	007.0571	0081.3	003.8	93.87
120.0	005.0000	0074.5	023.7	242.5	007.9285	0082.1	004.2	92.90
121.0	005.0000	0076.6	024.0	236.4	010.2392	0083.6	004.4	93.30
122.0	005.0000	0078.8	024.3	230.6	012.7074	0084.9	004.7	93.38
123.0	005.0000	0081.0	024.6	225.7	012.9927	0083.1	005.0	92.17
124.0	005.0000	0083.0	024.9	221.8	012.9927	0083.4	005.4	90.97
125.0	005.0000	0084.9	025.1	218.6	013.6293	0084.5	005.8	89.99
126.0	005.0000	0085.5	025.2	217.7	014.0956	0085.2	006.2	88.91
127.0	005.0000	0088.0	025.6	214.6	015.5877	0089.2	006.7	88.53
128.0	005.0000	0090.5	025.9	212.1	016.9149	0089.9	007.1	87.69
129.0	005.0000	0092.3	026.1	210.6	017.6674	0090.6	007.6	86.78
130.0	005.0000	0094.0	026.4	209.5	018.0120	0092.6	008.1	86.01
131.0	005.0000	0096.0	026.6	208.4	018.0120	0091.5	008.6	84.91
132.0	005.0000	0097.9	026.9	207.6	018.0120	0091.9	009.1	83.98
133.0	005.0000	0102.1	027.4	205.3	018.0120	0094.7	009.7	83.12
134.0	005.0000	0105.1	027.8	204.2	018.0120	0096.2	010.3	82.24
135.0	005.0000	0105.7	027.9	204.7	018.0120	0096.0	010.8	81.40
136.0	005.0000	0104.8	027.8	206.1	018.0120	0093.0	011.2	80.45
137.0	005.0000	0104.7	027.7	207.0	018.0120	0092.6	011.7	79.69
138.0	005.0000	0105.6	027.9	207.3	018.0120	0092.1	012.1	78.90
139.0	005.0000	0104.6	027.7	208.6	018.0120	0091.6	012.6	78.24
140.0	005.0000	0102.9	027.5	210.3	017.8548	0091.2	012.9	77.63
141.0	005.0000	0101.6	027.4	211.6	017.1412	0090.2	013.3	76.81
142.0	005.0000	0099.2	027.1	213.5	016.1505	0088.5	013.7	75.93
143.0	005.0000	0097.8	026.9	214.8	015.4936	0088.9	014.1	75.30
144.0	005.0000	0097.5	026.8	215.6	015.1204	0087.7	014.5	74.55
145.0	005.0000	0096.3	026.7	216.7	014.5506	0085.7	014.9	73.72

Exhibit 7c

Contour Protection Studies Toward Select Allocation Concern(s)

03-11-2024

Terrain Data: NED 03 SEC

FMOver Analysis

WMSL BMLD20051128AFV

WYFW.P

Channel = 205C3

Max ERP = 20 kW

RCAMSL = 320 m

N. Lat. 33 54 25.40

W. Lng. 83 29 34.60

Protected

60 dBu

Channel = 208A

Max ERP = 5 kW

RCAMSL = 346.9 m

N. Lat. 33 59 46.80

W. Lng. 83 45 18.20

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
247.0	006.4866	0083.5	026.4	180.4	004.7278	0078.5	020.3	63.67	
248.0	006.1827	0085.6	026.5	180.9	004.6190	0078.1	019.9	63.86	
249.0	005.8861	0087.2	026.4	181.3	004.5481	0077.8	019.4	64.14	
250.0	005.5968	0089.3	026.4	181.8	004.4536	0077.5	019.0	64.36	
251.0	005.3686	0090.9	026.4	182.3	004.3671	0078.4	018.6	64.74	
252.0	005.1450	0092.3	026.3	182.6	004.3002	0079.3	018.1	65.15	
253.0	004.9263	0094.2	026.3	183.1	004.2082	0079.8	017.7	65.47	
254.0	004.7123	0092.4	025.8	182.1	004.4070	0077.8	017.1	65.96	
255.0	004.5030	0091.2	025.4	181.2	004.5735	0078.0	016.5	66.61	
256.0	004.2985	0091.1	025.1	180.6	004.6782	0078.3	016.0	67.18	
257.0	004.0987	0090.4	024.8	179.8	004.8067	0079.0	015.5	67.81	
258.0	003.9037	0089.5	024.4	178.6	004.8288	0079.8	015.0	68.35	
259.0	003.7135	0089.7	024.1	178.0	004.8416	0080.1	014.6	68.74	
260.0	003.5280	0090.0	023.9	177.3	004.8559	0080.7	014.1	69.35	
261.0	003.3850	0088.9	023.5	176.0	004.8813	0082.2	013.7	70.10	
262.0	003.2450	0086.9	023.0	174.0	004.9196	0082.0	013.2	70.70	
263.0	003.1079	0085.6	022.7	172.3	004.9535	0084.0	012.8	71.50	
264.0	002.9737	0084.8	022.3	170.8	004.9848	0085.1	012.4	72.19	
265.0	002.8426	0084.0	022.0	169.0	005.0000	0084.4	012.1	72.67	
266.0	002.7144	0083.6	021.7	167.5	005.0000	0083.7	011.7	73.12	
267.0	002.5891	0084.3	021.5	166.4	005.0000	0084.9	011.4	73.79	
268.0	002.4668	0083.8	021.2	164.4	005.0000	0087.8	011.1	74.56	
269.0	002.3475	0084.2	021.0	162.9	005.0000	0089.0	010.8	75.18	
270.0	002.2311	0083.9	020.7	160.9	005.0000	0090.9	010.5	75.81	
271.0	002.2005	0083.3	020.6	159.4	005.0000	0091.1	010.2	76.31	
272.0	002.1701	0082.5	020.4	157.7	005.0000	0090.2	010.0	76.69	
273.0	002.1399	0080.9	020.1	155.4	005.0000	0092.8	009.8	77.30	
274.0	002.1099	0080.5	020.0	153.8	005.0000	0092.6	009.5	77.73	
275.0	002.0801	0081.0	020.0	152.7	005.0000	0094.2	009.2	78.43	
276.0	002.0506	0079.8	019.8	150.3	005.0000	0096.8	009.1	78.97	
277.0	002.0212	0078.2	019.5	147.5	005.0000	0092.4	009.0	78.76	
278.0	001.9921	0076.3	019.2	144.6	005.0000	0096.7	008.9	79.25	
279.0	001.9631	0074.1	018.9	141.5	005.0000	0100.5	008.9	79.56	

Exhibit 7c

Contour Protection Studies Toward Select Allocation Concern(s)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
280.0	001.9344	0072.0	018.5	138.5	005.0000	0104.9	009.0	79.83
281.0	001.8936	0070.3	018.2	135.6	005.0000	0105.2	009.1	79.72
282.0	001.8532	0069.4	018.0	133.2	005.0000	0102.7	009.1	79.50
283.0	001.8132	0068.9	017.8	130.9	005.0000	0095.9	009.1	78.90
284.0	001.7737	0068.4	017.6	128.7	005.0000	0092.4	009.1	78.55
285.0	001.7346	0068.3	017.5	126.6	005.0000	0087.1	009.1	78.05
286.0	001.6959	0068.1	017.4	124.6	005.0000	0084.2	009.1	77.73
287.0	001.6577	0069.1	017.4	122.8	005.0000	0080.2	009.0	77.52
288.0	001.6199	0070.4	017.5	121.0	005.0000	0076.4	008.8	77.36
289.0	001.5826	0069.5	017.2	118.8	005.0000	0074.9	009.0	76.88
290.0	001.5457	0069.0	017.0	116.7	005.0000	0077.4	009.1	76.93
291.0	001.5457	0067.9	016.9	114.8	005.0000	0076.3	009.2	76.59
292.0	001.5457	0068.3	017.0	113.0	005.0000	0076.4	009.2	76.72
293.0	001.5457	0069.1	017.1	111.1	005.0000	0078.2	009.1	77.09
294.0	001.5457	0071.4	017.4	109.1	005.0000	0079.0	008.8	77.72
295.0	001.5457	0071.3	017.3	107.1	005.0000	0076.7	008.8	77.37
296.0	001.5457	0069.1	017.1	105.5	005.0000	0073.9	009.2	76.46
297.0	001.5457	0067.9	016.9	103.9	005.0000	0074.2	009.4	76.11
298.0	001.5457	0066.4	016.7	102.5	005.0000	0072.0	009.6	75.38
299.0	001.5457	0064.4	016.4	101.3	005.0000	0072.6	010.0	74.85
300.0	001.5457	0063.4	016.3	100.0	005.0000	0074.2	010.2	74.67
301.0	001.5257	0062.7	016.2	098.9	005.0000	0074.0	010.4	74.22
302.0	001.5059	0060.7	015.8	098.1	005.0000	0074.3	010.8	73.58
303.0	001.4862	0059.8	015.7	097.3	005.0000	0076.8	011.1	73.38
304.0	001.4667	0060.1	015.6	096.0	005.0000	0078.8	011.3	73.38
305.0	001.4472	0061.8	015.8	094.4	005.0000	0078.7	011.3	73.38
306.0	001.4279	0062.4	015.8	093.2	005.0000	0081.0	011.4	73.40
307.0	001.4087	0064.6	016.0	091.4	005.0000	0084.0	011.4	73.75
308.0	001.3897	0067.1	016.3	089.5	005.0000	0086.7	011.3	74.09
309.0	001.3708	0067.2	016.2	088.5	005.0000	0088.7	011.5	73.94
310.0	001.3520	0068.2	016.3	087.3	005.0000	0091.1	011.7	73.95
311.0	001.3520	0069.3	016.5	085.8	005.0000	0094.2	011.8	74.08
312.0	001.3520	0069.7	016.5	084.6	005.0000	0095.0	011.9	73.90
313.0	001.3520	0072.0	016.8	082.6	005.0000	0096.0	012.0	73.96
314.0	001.3520	0073.5	017.0	081.0	005.0000	0097.3	012.1	73.90
315.0	001.3520	0072.8	016.9	080.6	005.0000	0097.5	012.4	73.49
316.0	001.3520	0073.8	017.0	079.3	005.0000	0096.9	012.5	73.18
317.0	001.3520	0076.4	017.3	077.4	005.0000	0095.6	012.6	72.94
318.0	001.3520	0076.0	017.3	076.8	005.0000	0094.5	012.9	72.45
319.0	001.3520	0075.5	017.2	076.4	005.0000	0093.9	013.2	71.99
320.0	001.3520	0075.0	017.2	076.1	005.0000	0093.4	013.5	71.54
321.0	001.3520	0075.8	017.3	075.2	005.0000	0094.3	013.7	71.34
322.0	001.3520	0076.3	017.3	074.5	005.0000	0096.6	014.0	71.24

Exhibit 7d
Contour Protection Studies Toward Select Allocation Concern(s)

Bible Broadcasting Network, I

FMCommander Single Allocation Study - 03-11-2024 - NED 03 SEC
WYFW.P's Overlaps (In= 39.7 km, Out= 2.14 km)

WYFW.P CH 208 A DA
Lat= 33 59 46.80, Lng= 83 45 18.20
5.0 kW 76.6 m HAAT, 346.9 m COR
Prot.= 60 dBu, Intef.= 100 dBu

WABE CH 211 C0 DA BLED20120521ABP
Lat= 33 45 33.40, Lng= 84 20 04.70
100.0 kW 334.1 m HAAT, 615 m COR
Prot.= 60 dBu, Intef.= 100 dBu

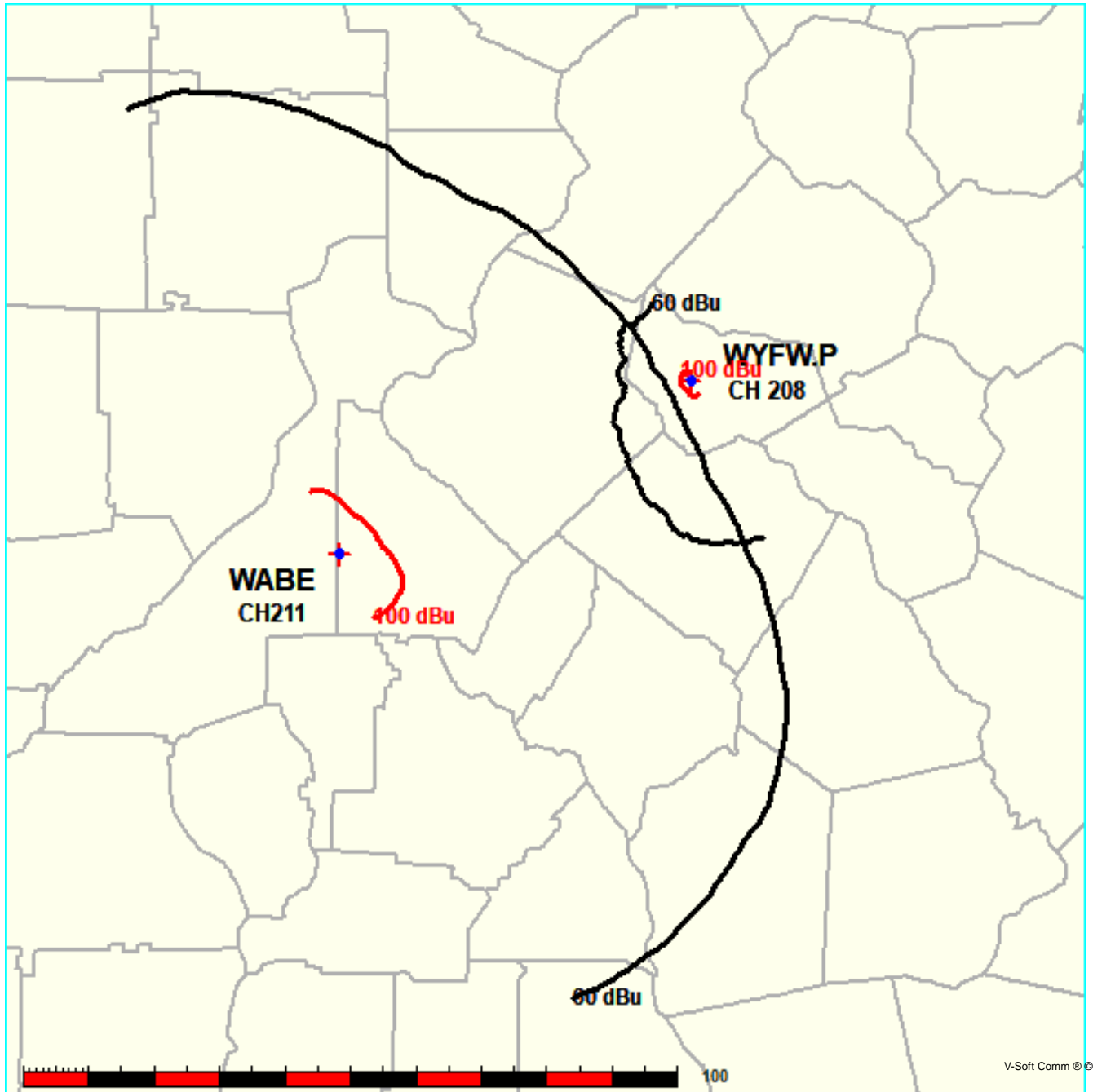


Exhibit 7d

Contour Protection Studies Toward Select Allocation Concern(s)

03-11-2024

Terrain Data: NED 03 SEC

FMOver Analysis

WYFW.P

WABE BLED20120521ABP

Channel = 208A
 Max ERP = 5 kW
 RCAMSL = 346.9 m
 N. Lat. 33 59 46.80
 W. Lng. 83 45 18.20
 Protected
 60 dBu

Channel = 211C0
 Max ERP = 100 kW
 RCAMSL = 615 m
 N. Lat. 33 45 33.40
 W. Lng. 84 20 04.70
 Interfering
 100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
205.0	001.5792	0076.4	018.1	077.6	019.6150	0314.0	047.0	67.44	
206.0	001.5125	0076.8	017.9	077.2	019.5123	0313.8	046.8	67.47	
207.0	001.4472	0077.6	017.8	076.9	019.4200	0313.4	046.6	67.50	
208.0	001.3781	0075.0	017.3	076.1	019.2176	0313.6	046.8	67.41	
209.0	001.3107	0073.2	016.8	075.5	019.0433	0314.5	046.9	67.36	
210.0	001.2500	0076.3	017.0	075.4	019.0159	0314.7	046.5	67.49	
211.0	001.2251	0077.0	017.0	075.1	018.9468	0315.0	046.3	67.57	
212.0	001.2005	0075.1	016.6	074.6	018.8063	0315.1	046.4	67.53	
213.0	001.1761	0073.7	016.4	074.1	018.6802	0315.2	046.4	67.50	
214.0	001.1520	0073.5	016.2	073.7	018.5836	0315.4	046.3	67.52	
215.0	001.1281	0074.6	016.3	073.5	018.5226	0315.1	046.1	67.58	
216.0	001.1045	0074.5	016.2	073.1	018.4283	0314.4	046.0	67.57	
217.0	001.0811	0073.7	016.0	072.7	018.3194	0314.4	046.0	67.55	
218.0	001.0580	0073.4	015.8	072.3	018.2220	0313.8	045.9	67.53	
219.0	001.0351	0069.1	015.3	071.6	018.0469	0311.9	046.3	67.29	
220.0	001.0125	0069.1	015.2	071.3	017.9619	0311.6	046.2	67.29	
221.0	000.9990	0068.0	015.0	070.9	017.8608	0311.7	046.2	67.26	
222.0	000.9901	0067.2	014.9	070.5	017.7725	0312.2	046.2	67.27	
223.0	000.9768	0067.3	014.8	070.2	017.6950	0312.8	046.1	67.30	
224.0	000.9680	0068.0	014.9	070.0	017.6400	0312.7	045.9	67.35	
225.0	000.9592	0066.8	014.7	069.6	017.6400	0312.9	046.0	67.34	
226.0	000.9461	0066.3	014.6	069.2	017.6400	0312.4	046.0	67.33	
227.0	000.9374	0066.6	014.6	068.9	017.6400	0311.8	045.9	67.35	
228.0	000.9245	0065.3	014.4	068.6	017.6400	0311.0	045.9	67.30	
229.0	000.9159	0064.5	014.3	068.2	017.6400	0310.7	046.0	67.28	
230.0	000.9031	0064.3	014.2	067.9	017.6400	0310.8	045.9	67.29	
231.0	000.8946	0064.0	014.2	067.6	017.6400	0311.1	045.9	67.30	
232.0	000.8820	0061.3	013.9	067.2	017.6400	0311.8	046.2	67.23	
233.0	000.8736	0059.8	013.7	066.8	017.6400	0311.7	046.3	67.18	
234.0	000.8611	0058.7	013.5	066.5	017.6400	0310.8	046.4	67.11	

Exhibit 7d
Contour Protection Studies Toward Select Allocation Concern(s)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
235.0	000.8528	0058.5	013.5	066.2	017.6400	0310.2	046.4	67.09
236.0	000.8405	0056.3	013.2	065.9	017.6400	0309.9	046.6	66.99
237.0	000.8282	0057.4	013.3	065.6	017.6400	0309.9	046.5	67.03
238.0	000.8201	0058.6	013.4	065.3	017.6400	0309.9	046.4	67.08
239.0	000.8120	0058.4	013.3	065.0	017.6400	0309.2	046.4	67.06
240.0	000.8000	0060.9	013.5	064.8	017.6400	0308.9	046.2	67.13
241.0	000.7801	0060.6	013.4	064.5	017.6400	0308.7	046.3	67.09
242.0	000.7605	0062.5	013.5	064.2	017.6400	0308.5	046.2	67.13
243.0	000.7411	0061.7	013.3	063.9	017.6400	0308.3	046.3	67.06
244.0	000.7220	0059.5	013.1	063.6	017.6400	0307.8	046.6	66.94
245.0	000.7031	0058.5	012.9	063.3	017.6400	0307.4	046.8	66.85
246.0	000.6845	0058.9	012.8	063.0	017.6400	0307.2	046.8	66.82
247.0	000.6661	0059.6	012.8	062.8	017.6400	0307.1	046.9	66.81
248.0	000.6480	0057.3	012.5	062.5	017.6400	0306.9	047.2	66.67
249.0	000.6301	0055.6	012.3	062.3	017.6400	0306.8	047.4	66.56
250.0	000.6125	0055.2	012.1	062.1	017.6400	0306.6	047.6	66.49
251.0	000.6125	0054.1	012.0	061.8	017.6400	0306.3	047.7	66.43
252.0	000.6125	0054.1	012.0	061.6	017.6400	0305.6	047.8	66.39
253.0	000.6125	0051.2	011.7	061.4	017.6400	0305.5	048.1	66.25
254.0	000.6125	0048.2	011.3	061.3	017.6400	0305.4	048.5	66.09
255.0	000.6125	0046.2	011.1	061.1	017.6400	0305.3	048.8	65.98
256.0	000.6125	0042.3	010.6	061.0	017.6400	0305.3	049.3	65.77
257.0	000.6125	0041.7	010.5	060.9	017.6400	0305.0	049.4	65.71
258.0	000.6125	0042.1	010.6	060.6	017.6400	0304.8	049.4	65.70
259.0	000.6125	0039.9	010.3	060.5	017.6400	0304.7	049.8	65.57
260.0	000.6125	0041.2	010.5	060.3	017.6400	0304.3	049.7	65.60
261.0	000.6301	0041.0	010.5	060.1	017.6400	0303.6	049.7	65.57
262.0	000.6480	0039.2	010.3	059.9	017.6400	0303.2	049.9	65.47
263.0	000.6661	0038.3	010.3	059.8	017.6400	0302.8	050.0	65.42
264.0	000.6845	0037.0	010.2	059.6	017.6400	0302.6	050.2	65.34
265.0	000.7031	0036.3	010.2	059.4	017.6400	0302.3	050.3	65.29
266.0	000.7220	0036.8	010.3	059.2	017.6400	0302.0	050.2	65.30
267.0	000.7411	0036.9	010.4	059.0	017.6400	0301.9	050.3	65.29
268.0	000.7605	0038.5	010.7	058.6	017.6400	0302.5	050.1	65.37
269.0	000.7801	0039.4	010.8	058.3	017.6400	0303.8	050.0	65.45
270.0	000.8000	0038.6	010.8	058.2	017.6400	0304.6	050.2	65.42
271.0	000.8201	0038.4	010.8	058.0	017.6400	0305.3	050.2	65.41
272.0	000.8364	0039.1	011.0	057.7	017.6400	0306.4	050.2	65.46
273.0	000.8570	0040.2	011.2	057.4	017.6400	0308.2	050.1	65.54
274.0	000.8736	0040.7	011.3	057.1	017.6400	0309.3	050.2	65.57
275.0	000.8946	0039.7	011.3	057.0	017.6400	0309.6	050.3	65.51
276.0	000.9116	0040.1	011.4	056.7	017.6400	0309.6	050.4	65.49
277.0	000.9288	0038.9	011.2	056.6	017.6400	0309.4	050.6	65.40

Exhibit 7d

Contour Protection Studies Toward Select Allocation Concern(s)

03-11-2024

Terrain Data: NED 03 SEC

FMOver Analysis

WABE BLED20120521ABP

WYFW.P

Channel = 211C0
 Max ERP = 100 kW
 RCAMSL = 615 m
 N. Lat. 33 45 33.40
 W. Lng. 84 20 04.70
 Protected
 60 dBu

Channel = 208A
 Max ERP = 5 kW
 RCAMSL = 346.9 m
 N. Lat. 33 59 46.80
 W. Lng. 83 45 18.20
 Interfering
 100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
019.0	018.1476	0325.4	057.3	308.9	000.8029	0056.6	044.4	40.70	
020.0	017.6400	0327.4	057.2	309.1	000.7976	0056.8	043.5	41.03	
021.0	017.6400	0328.7	057.3	309.7	000.7869	0056.6	042.5	41.27	
022.0	017.6400	0327.4	057.2	310.0	000.7809	0056.4	041.6	41.57	
023.0	017.6400	0327.8	057.2	310.4	000.7673	0056.7	040.6	41.88	
024.0	017.6400	0327.7	057.2	310.8	000.7546	0056.9	039.7	42.19	
025.0	017.6400	0329.1	057.3	311.4	000.7378	0057.3	038.7	42.50	
026.0	017.6400	0327.7	057.2	311.6	000.7297	0057.0	037.7	42.80	
027.0	017.6400	0326.6	057.1	311.9	000.7209	0056.6	036.8	43.08	
028.0	017.6400	0327.1	057.2	312.4	000.7076	0055.7	035.8	43.26	
029.0	017.6400	0324.8	057.0	312.5	000.7035	0055.4	034.8	43.59	
030.0	017.6400	0325.5	057.0	312.9	000.6904	0054.0	033.8	43.71	
031.0	017.6400	0322.1	056.8	312.9	000.6911	0054.1	032.8	44.15	
032.0	017.6400	0319.2	056.6	312.9	000.6910	0054.1	031.8	44.59	
033.0	017.6400	0316.0	056.4	312.8	000.6933	0054.3	030.8	45.11	
034.0	017.6400	0315.9	056.4	313.1	000.6850	0053.6	029.8	45.46	
035.0	017.6400	0316.1	056.4	313.4	000.6760	0052.8	028.8	45.80	
036.0	017.6400	0315.4	056.4	313.6	000.6709	0052.4	027.9	46.30	
037.0	017.6400	0315.8	056.4	313.9	000.6617	0052.2	026.9	46.80	
038.0	017.6400	0315.2	056.4	314.0	000.6579	0052.1	025.9	47.42	
039.0	017.6400	0313.1	056.2	313.9	000.6610	0052.2	024.9	48.14	
040.0	017.6400	0310.1	056.0	313.6	000.6701	0052.4	023.9	48.95	
041.0	017.6400	0308.5	055.9	313.5	000.6746	0052.7	022.9	49.77	
042.0	017.6400	0307.0	055.8	313.3	000.6805	0053.2	022.0	50.65	
043.0	017.6400	0305.9	055.7	313.1	000.6857	0053.7	021.0	51.54	
044.0	017.6400	0305.2	055.7	312.9	000.6908	0054.1	020.0	52.43	
045.0	017.6400	0304.1	055.6	312.6	000.7001	0055.0	019.1	53.45	
046.0	017.6400	0305.1	055.7	312.6	000.6988	0054.9	018.1	54.25	
047.0	017.6400	0305.6	055.7	312.5	000.7024	0055.3	017.1	55.17	
048.0	017.6400	0308.2	055.9	312.8	000.6939	0054.3	016.1	55.82	
049.0	017.6400	0309.4	056.0	312.7	000.6962	0054.5	015.1	56.74	
050.0	017.6400	0308.8	055.9	312.1	000.7162	0056.3	014.2	57.99	
051.0	017.6400	0308.6	055.9	311.4	000.7371	0057.3	013.2	59.54	

Exhibit 7d
Contour Protection Studies Toward Select Allocation Concern(s)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
052.0	017.6400	0309.7	056.0	310.9	000.7528	0057.0	012.2	61.00
053.0	017.6400	0309.9	056.0	309.9	000.7818	0056.5	011.3	62.58
054.0	017.6400	0308.9	055.9	308.3	000.8148	0055.8	010.4	64.20
055.0	017.6400	0308.7	055.9	306.5	000.8510	0053.2	009.4	65.59
056.0	017.6400	0309.2	056.0	304.5	000.8919	0053.0	008.5	67.45
057.0	017.6400	0309.6	056.0	301.9	000.9479	0050.1	007.6	68.98
058.0	017.6400	0305.2	055.7	296.2	000.9901	0043.8	006.9	69.61
059.0	017.6400	0301.9	055.5	289.6	000.9901	0034.6	006.2	69.32
060.0	017.6400	0303.4	055.6	283.9	000.9901	0033.8	005.5	71.47
061.0	017.6400	0305.2	055.7	276.3	000.9164	0040.1	004.7	75.01
062.0	017.6400	0306.5	055.8	265.9	000.7205	0036.7	004.2	75.27
063.0	017.6400	0307.2	055.8	252.8	000.6125	0052.0	003.9	79.32
064.0	017.6400	0308.5	055.9	238.1	000.8190	0058.7	003.8	82.15
065.0	017.6400	0309.2	056.0	223.8	000.9696	0068.5	003.9	83.24
066.0	017.6400	0309.9	056.0	211.6	001.2112	0076.3	004.4	83.39
067.0	017.6400	0311.8	056.1	201.3	001.8541	0078.7	004.9	83.56
068.0	017.6400	0310.7	056.1	195.1	002.4556	0073.0	005.7	81.48
069.0	017.6400	0311.9	056.1	189.3	003.1453	0077.7	006.5	80.81
070.0	017.6400	0312.7	056.2	185.2	003.8384	0080.0	007.3	79.72
071.0	017.8929	0311.7	056.3	182.0	004.4231	0077.6	008.2	78.17
072.0	018.1476	0313.0	056.5	178.5	004.8316	0079.8	009.1	77.17
073.0	018.4041	0314.4	056.7	175.7	004.8861	0081.8	010.0	75.79
074.0	018.6624	0315.2	056.9	173.7	004.9265	0082.4	010.9	74.28
075.0	018.9225	0315.0	057.0	172.4	004.9522	0083.9	011.9	72.91
076.0	019.1844	0313.7	057.0	171.7	004.9661	0084.3	012.9	71.51
077.0	019.4481	0313.5	057.2	170.9	004.9825	0084.9	013.8	70.26
078.0	019.7136	0314.4	057.3	170.0	005.0000	0085.6	014.8	69.16
079.0	019.9809	0316.5	057.6	168.9	005.0000	0084.2	015.8	68.28
080.0	020.2500	0319.7	058.0	167.8	005.0000	0083.6	016.8	67.34
081.0	021.2521	0321.3	058.5	166.2	005.0000	0085.4	017.9	66.65
082.0	022.2784	0320.7	058.9	165.2	005.0000	0087.2	019.0	65.95
083.0	023.3289	0320.9	059.4	164.3	005.0000	0088.0	020.0	65.15
084.0	024.4036	0320.7	059.8	163.7	005.0000	0088.4	021.1	64.32
085.0	025.5025	0321.6	060.3	163.0	005.0000	0089.0	022.3	63.50
086.0	026.6256	0322.9	060.8	162.3	005.0000	0089.2	023.4	62.67
087.0	027.7729	0321.8	061.1	162.2	005.0000	0089.3	024.5	61.87
088.0	028.9444	0320.5	061.4	162.2	005.0000	0089.3	025.6	61.09
089.0	030.1401	0320.5	061.8	162.0	005.0000	0089.4	026.8	60.33
090.0	031.3600	0322.0	062.3	161.7	005.0000	0089.6	028.0	59.60
091.0	032.9935	0323.6	062.9	161.3	005.0000	0090.1	029.2	58.91
092.0	034.6685	0326.3	063.6	160.8	005.0000	0091.0	030.5	58.28
093.0	036.3850	0328.1	064.2	160.6	005.0000	0090.9	031.7	57.62
094.0	038.1430	0327.8	064.7	160.6	005.0000	0090.9	033.0	57.05
095.0	039.9424	0325.8	065.0	160.9	005.0000	0090.9	034.1	56.51

Exhibit 7e

Contour Protection Studies Toward Select Allocation Concern(s)

FMCommander Single Allocation Study - 03-11-2024 - NED 03 SEC
WYFW.P's Overlaps (In= 6.26 km, Out= 8.53 km)

WYFW.P CH 208 A DA
Lat= 33 59 46.80, Lng= 83 45 18.20
5.0 kW 76.6 m HAAT, 346.9 m COR
Prot.= 60 dBu, Intef.= 40 dBu

WQAI CH 208 C1 DA BLED20150416AAJ
Lat= 33 44 32.50, Lng= 82 31 16.50
63.0 kW 145 m HAAT, 275 m COR
Prot.= 60 dBu, Intef.= 40 dBu

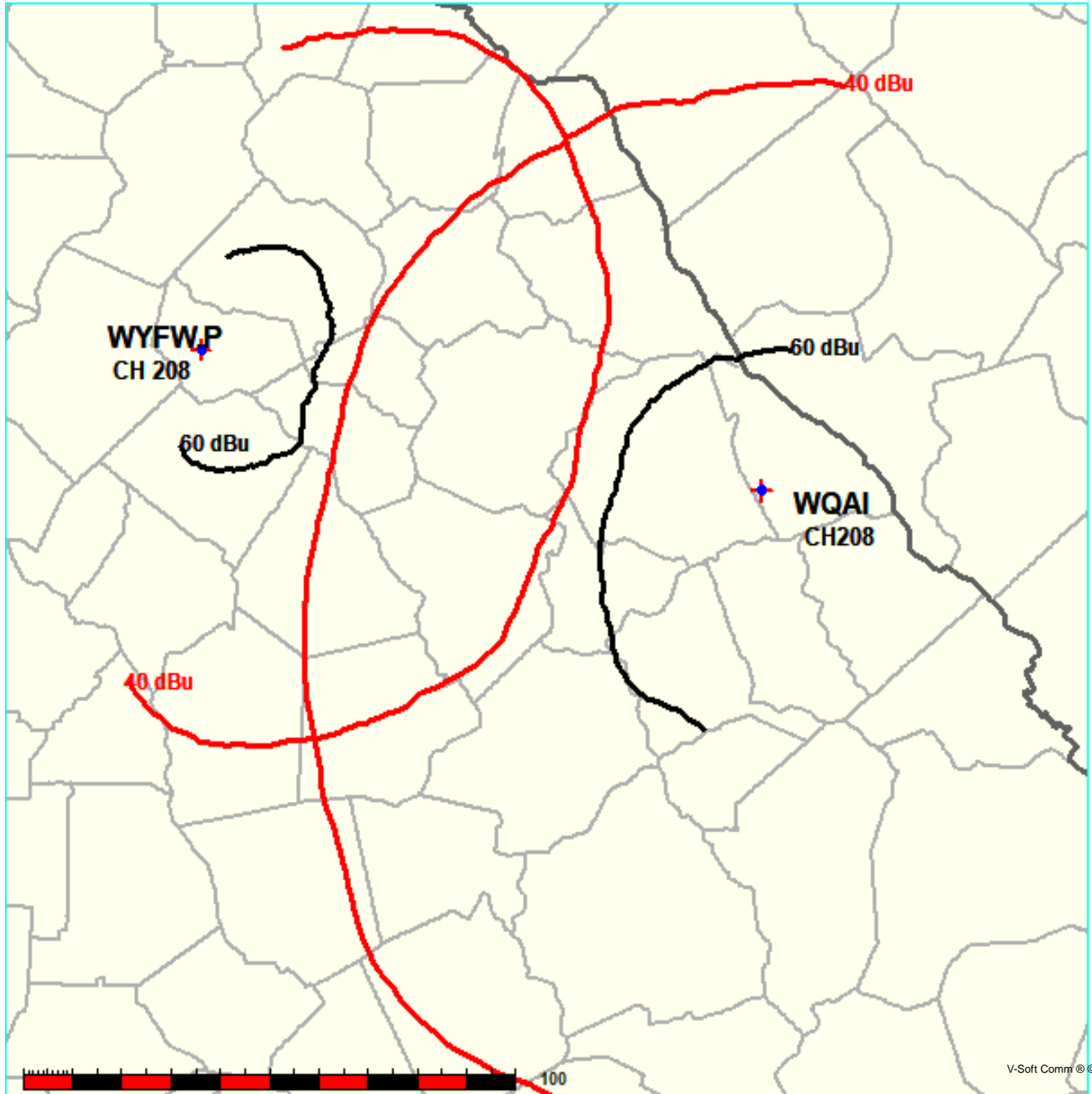


Exhibit 7e

Contour Protection Studies Toward Select Allocation Concern(s)

03-11-2024

Terrain Data: NED 03 SEC

FMOver Analysis

WYFW.P

WQAI BLED20150416AAJ

Channel = 208A

Max ERP = 5 kW

RCAMSL = 346.9 m

N. Lat. 33 59 46.80

W. Lng. 83 45 18.20

Protected

60 dBu

Channel = 208C1

Max ERP = 63 kW

RCAMSL = 275 m

N. Lat. 33 44 32.50

W. Lng. 82 31 16.50

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
065.0	005.0000	0099.5	027.1	294.2	004.3079	0128.8	097.6	36.83	
066.0	005.0000	0099.9	027.1	294.1	004.3150	0128.5	097.2	36.93	
067.0	005.0000	0099.5	027.1	293.9	004.3241	0128.1	096.9	37.01	
068.0	005.0000	0098.7	027.0	293.6	004.3343	0127.9	096.7	37.08	
069.0	005.0000	0099.1	027.0	293.4	004.3421	0127.6	096.3	37.17	
070.0	005.0000	0099.8	027.1	293.3	004.3492	0127.4	095.9	37.27	
071.0	005.0000	0100.5	027.2	293.1	004.3570	0127.4	095.5	37.38	
072.0	005.0000	0101.2	027.3	292.9	004.3647	0127.5	095.2	37.49	
073.0	005.0000	0101.6	027.4	292.7	004.3734	0127.7	094.8	37.60	
074.0	005.0000	0098.0	026.9	292.3	004.3906	0128.5	094.9	37.63	
075.0	005.0000	0094.9	026.5	291.9	004.4067	0129.0	094.9	37.66	
076.0	005.0000	0093.3	026.3	291.6	004.4198	0128.8	094.8	37.69	
077.0	005.0000	0094.8	026.5	291.5	004.4267	0128.5	094.4	37.80	
078.0	005.0000	0096.8	026.8	291.3	004.4331	0128.2	093.9	37.92	
079.0	005.0000	0096.9	026.8	291.1	004.4435	0127.5	093.7	37.97	
080.0	005.0000	0097.9	026.9	290.9	004.4525	0127.0	093.3	38.05	
081.0	005.0000	0097.3	026.8	290.6	004.4644	0126.6	093.2	38.09	
082.0	005.0000	0096.1	026.7	290.3	004.4775	0126.1	093.1	38.11	
083.0	005.0000	0095.4	026.6	290.0	004.4898	0125.8	092.9	38.14	
084.0	005.0000	0096.0	026.7	289.8	004.5028	0125.7	092.7	38.23	
085.0	005.0000	0094.6	026.5	289.5	004.5205	0125.5	092.6	38.24	
086.0	005.0000	0093.7	026.3	289.2	004.5373	0124.7	092.6	38.24	
087.0	005.0000	0091.3	026.0	288.9	004.5567	0124.0	092.7	38.20	
088.0	005.0000	0090.0	025.8	288.6	004.5739	0123.5	092.7	38.19	
089.0	005.0000	0087.6	025.5	288.2	004.5929	0122.8	092.9	38.14	
090.0	005.0000	0085.9	025.3	287.9	004.6105	0122.3	093.0	38.11	
091.0	005.0000	0084.1	025.0	287.6	004.6281	0121.5	093.1	38.06	
092.0	005.0000	0083.9	025.0	287.4	004.6435	0120.9	093.0	38.07	
093.0	005.0000	0080.9	024.6	287.0	004.6621	0120.2	093.3	37.98	
094.0	005.0000	0079.2	024.3	286.8	004.6789	0119.8	093.4	37.94	

Exhibit 7e
Contour Protection Studies Toward Select Allocation Concern(s)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
095.0	005.0000	0079.3	024.4	286.5	004.6937	0119.5	093.3	37.97
096.0	005.0000	0078.8	024.3	286.2	004.7092	0119.4	093.3	37.98
097.0	005.0000	0077.3	024.1	286.0	004.7254	0119.3	093.5	37.95
098.0	005.0000	0074.6	023.7	285.7	004.7421	0119.3	093.8	37.88
099.0	005.0000	0074.2	023.6	285.4	004.7571	0119.6	093.8	37.90
100.0	005.0000	0074.3	023.6	285.2	004.7718	0119.8	093.8	37.93
101.0	005.0000	0073.1	023.5	284.9	004.7870	0119.9	093.9	37.91
102.0	005.0000	0071.8	023.3	284.7	004.8019	0120.0	094.1	37.89
103.0	005.0000	0072.7	023.4	284.4	004.8165	0120.1	093.9	37.94
104.0	005.0000	0074.2	023.6	284.2	004.8314	0120.3	093.7	38.02
105.0	005.0000	0074.0	023.6	283.9	004.8463	0120.3	093.8	38.03
106.0	005.0000	0074.5	023.7	283.7	004.8614	0120.4	093.7	38.06
107.0	005.0000	0076.4	023.9	283.4	004.8771	0120.3	093.5	38.13
108.0	005.0000	0078.2	024.2	283.1	004.8933	0120.3	093.2	38.21
109.0	005.0000	0079.0	024.3	282.9	004.9091	0120.2	093.2	38.24
110.0	005.0000	0079.4	024.4	282.6	004.9249	0119.9	093.2	38.24
111.0	005.0000	0078.3	024.2	282.3	004.9395	0119.7	093.4	38.19
112.0	005.0000	0077.1	024.0	282.1	004.9536	0119.5	093.6	38.12
113.0	005.0000	0076.4	023.9	281.9	004.9680	0119.4	093.8	38.08
114.0	005.0000	0076.2	023.9	281.6	004.9828	0119.2	093.9	38.05
115.0	005.0000	0076.3	023.9	281.4	004.9978	0118.8	094.0	38.03
116.0	005.0000	0076.8	024.0	281.1	005.0133	0118.2	094.1	38.01
117.0	005.0000	0077.6	024.1	280.9	005.0294	0118.0	094.1	38.01
118.0	005.0000	0075.3	023.8	280.7	005.0404	0117.9	094.5	37.90
119.0	005.0000	0074.9	023.7	280.4	005.0541	0117.7	094.7	37.85
120.0	005.0000	0074.5	023.7	280.2	005.0676	0117.3	094.9	37.80
121.0	005.0000	0076.6	024.0	279.9	005.0874	0116.7	094.8	37.82
122.0	005.0000	0078.8	024.3	279.6	005.1129	0116.0	094.6	37.85
123.0	005.0000	0081.0	024.6	279.3	005.1388	0115.5	094.5	37.88
124.0	005.0000	0083.0	024.9	279.0	005.1644	0114.9	094.4	37.90
125.0	005.0000	0084.9	025.1	278.7	005.1901	0114.5	094.4	37.92
126.0	005.0000	0085.5	025.2	278.4	005.2117	0114.3	094.5	37.89
127.0	005.0000	0088.0	025.6	278.1	005.2397	0114.1	094.4	37.93
128.0	005.0000	0090.5	025.9	277.7	005.2683	0114.2	094.4	37.98
129.0	005.0000	0092.3	026.1	277.4	005.2944	0114.3	094.4	37.99
130.0	005.0000	0094.0	026.4	277.1	005.3206	0114.2	094.4	38.00
131.0	005.0000	0096.0	026.6	276.8	005.3477	0114.4	094.5	38.01
132.0	005.0000	0097.9	026.9	276.5	005.3744	0114.5	094.6	38.02
133.0	005.0000	0102.1	027.4	276.1	005.4104	0114.6	094.4	38.09
134.0	005.0000	0105.1	027.8	275.7	005.4418	0114.2	094.4	38.10
135.0	005.0000	0105.7	027.9	275.4	005.4637	0113.9	094.7	38.04
136.0	005.0000	0104.8	027.8	275.3	005.4788	0113.6	095.1	37.93
137.0	005.0000	0104.7	027.7	275.1	005.4969	0113.3	095.4	37.85
138.0	005.0000	0105.6	027.9	274.8	005.5188	0113.0	095.7	37.79

Exhibit 7e

Contour Protection Studies Toward Select Allocation Concern(s)

03-11-2024 Terrain Data: NED 03 SEC FMOver Analysis

WQAI BLED20150416AAJ

WYFW.P

Channel = 208C1
 Max ERP = 63 kW
 RCAMSL = 275 m
 N. Lat. 33 44 32.50
 W. Lng. 82 31 16.50
 Protected
 60 dBu

Channel = 208A
 Max ERP = 5 kW
 RCAMSL = 346.9 m
 N. Lat. 33 59 46.80
 W. Lng. 83 45 18.20
 Interfering
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
239.0	014.3343	0123.7	038.0	120.2	005.0000	0074.6	094.5	36.03	
240.0	013.8575	0123.6	037.7	119.8	005.0000	0074.4	094.1	36.12	
241.0	013.4761	0123.1	037.4	119.5	005.0000	0074.4	093.7	36.23	
242.0	013.1000	0123.6	037.3	119.2	005.0000	0074.7	093.2	36.35	
243.0	012.7292	0124.2	037.1	118.9	005.0000	0074.9	092.7	36.47	
244.0	012.3637	0125.1	037.0	118.6	005.0000	0074.9	092.3	36.59	
245.0	012.0035	0125.4	036.8	118.3	005.0000	0075.0	091.9	36.69	
246.0	011.6487	0125.0	036.5	117.9	005.0000	0075.6	091.5	36.80	
247.0	011.2992	0125.1	036.3	117.5	005.0000	0076.7	091.2	36.94	
248.0	010.9550	0124.9	036.0	117.1	005.0000	0077.6	090.9	37.06	
249.0	010.6161	0124.5	035.7	116.7	005.0000	0077.4	090.6	37.12	
250.0	010.2826	0124.0	035.4	116.3	005.0000	0076.9	090.3	37.16	
251.0	010.0096	0122.9	035.0	115.9	005.0000	0076.8	090.1	37.21	
252.0	009.7402	0122.5	034.8	115.5	005.0000	0076.8	089.9	37.28	
253.0	009.4745	0120.6	034.3	115.0	005.0000	0076.3	089.8	37.28	
254.0	009.2125	0120.2	034.1	114.6	005.0000	0076.3	089.6	37.33	
255.0	008.9541	0120.8	033.9	114.3	005.0000	0076.3	089.3	37.40	
256.0	008.6995	0120.4	033.6	113.9	005.0000	0076.2	089.1	37.43	
257.0	008.4485	0120.8	033.5	113.5	005.0000	0076.3	088.9	37.49	
258.0	008.2011	0120.9	033.2	113.1	005.0000	0076.3	088.8	37.54	
259.0	007.9575	0120.2	032.9	112.7	005.0000	0076.7	088.7	37.57	
260.0	007.7175	0120.2	032.7	112.3	005.0000	0077.0	088.6	37.62	
261.0	007.5290	0119.1	032.3	111.9	005.0000	0077.2	088.6	37.63	
262.0	007.3429	0118.1	032.0	111.5	005.0000	0077.6	088.5	37.66	
263.0	007.1591	0116.2	031.6	111.0	005.0000	0078.3	088.6	37.66	
264.0	006.9776	0115.5	031.3	110.6	005.0000	0078.9	088.6	37.69	
265.0	006.7985	0114.8	031.0	110.2	005.0000	0079.3	088.6	37.71	
266.0	006.6217	0115.0	030.9	109.9	005.0000	0079.4	088.6	37.74	
267.0	006.4472	0113.3	030.5	109.4	005.0000	0079.4	088.7	37.70	
268.0	006.2750	0112.1	030.1	109.0	005.0000	0079.0	088.8	37.65	
269.0	006.1052	0112.4	030.0	108.7	005.0000	0078.8	088.8	37.65	
270.0	005.9377	0112.8	029.8	108.3	005.0000	0078.5	088.7	37.65	
271.0	005.8491	0113.3	029.8	108.0	005.0000	0078.2	088.6	37.67	

Exhibit 7e

Contour Protection Studies Toward Select Allocation Concern(s)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
272.0	005.7611	0113.4	029.7	107.7	005.0000	0077.7	088.5	37.66
273.0	005.6738	0112.9	029.5	107.3	005.0000	0077.1	088.6	37.63
274.0	005.5871	0112.5	029.4	107.0	005.0000	0076.3	088.6	37.59
275.0	005.5012	0113.2	029.4	106.6	005.0000	0075.6	088.5	37.57
276.0	005.4159	0114.5	029.4	106.3	005.0000	0075.0	088.3	37.58
277.0	005.3312	0114.3	029.3	106.0	005.0000	0074.5	088.4	37.55
278.0	005.2473	0114.2	029.2	105.6	005.0000	0074.0	088.4	37.52
279.0	005.1640	0114.9	029.1	105.3	005.0000	0073.8	088.4	37.52
280.0	005.0813	0116.8	029.2	105.0	005.0000	0074.0	088.2	37.57
281.0	005.0207	0118.0	029.3	104.7	005.0000	0074.0	088.1	37.60
282.0	004.9604	0119.5	029.4	104.3	005.0000	0074.1	088.0	37.63
283.0	004.9005	0120.3	029.4	104.0	005.0000	0074.2	088.0	37.64
284.0	004.8409	0120.3	029.3	103.7	005.0000	0073.9	088.1	37.60
285.0	004.7817	0119.9	029.2	103.3	005.0000	0073.2	088.2	37.54
286.0	004.7229	0119.3	029.0	103.0	005.0000	0072.7	088.4	37.48
287.0	004.6644	0120.2	029.0	102.7	005.0000	0072.2	088.4	37.45
288.0	004.6063	0122.5	029.2	102.3	005.0000	0071.8	088.3	37.45
289.0	004.5486	0124.3	029.2	102.0	005.0000	0071.8	088.2	37.46
290.0	004.4912	0125.8	029.3	101.7	005.0000	0072.1	088.2	37.48
291.0	004.4476	0127.3	029.4	101.3	005.0000	0072.6	088.2	37.50
292.0	004.4042	0129.0	029.5	101.0	005.0000	0073.1	088.2	37.53
293.0	004.3610	0127.4	029.3	100.7	005.0000	0073.4	088.5	37.46
294.0	004.3180	0128.3	029.3	100.4	005.0000	0073.8	088.6	37.46
295.0	004.2752	0129.1	029.3	100.1	005.0000	0074.2	088.7	37.45
296.0	004.2326	0128.3	029.2	099.8	005.0000	0074.5	089.0	37.39
297.0	004.1903	0128.1	029.1	099.5	005.0000	0074.7	089.2	37.35
298.0	004.1481	0127.9	029.0	099.2	005.0000	0074.4	089.5	37.27
299.0	004.1062	0126.5	028.8	098.9	005.0000	0074.0	089.8	37.17
300.0	004.0645	0125.8	028.7	098.6	005.0000	0073.9	090.1	37.09
301.0	003.9976	0127.2	028.7	098.3	005.0000	0074.1	090.3	37.05
302.0	003.9312	0127.7	028.6	098.1	005.0000	0074.5	090.5	37.01
303.0	003.8654	0128.0	028.5	097.8	005.0000	0075.2	090.8	36.97
304.0	003.8001	0128.5	028.5	097.5	005.0000	0076.0	091.1	36.94
305.0	003.7354	0128.9	028.4	097.3	005.0000	0076.8	091.3	36.90
306.0	003.6713	0130.6	028.4	097.0	005.0000	0077.3	091.5	36.88
307.0	003.6077	0133.4	028.6	096.7	005.0000	0077.7	091.6	36.87
308.0	003.5446	0131.7	028.3	096.5	005.0000	0078.1	092.1	36.77
309.0	003.4821	0131.0	028.1	096.3	005.0000	0078.5	092.5	36.68
310.0	003.4202	0131.5	028.1	096.0	005.0000	0078.8	092.9	36.62
311.0	003.3734	0131.4	028.0	095.8	005.0000	0079.1	093.2	36.54
312.0	003.3269	0133.1	028.0	095.5	005.0000	0079.2	093.4	36.49
313.0	003.2807	0135.2	028.1	095.3	005.0000	0079.2	093.6	36.44
314.0	003.2349	0136.6	028.2	095.0	005.0000	0079.3	093.9	36.38
315.0	003.1894	0136.8	028.1	094.8	005.0000	0079.2	094.3	36.29
316.0	003.1442	0135.8	027.9	094.7	005.0000	0078.9	094.7	36.16

Exhibit 7f
Contour Protection Studies Toward Select Allocation Concern(s)

FMCommander Single Allocation Study - 03-11-2024 - NED 03 SEC
WYFW.P's Overlaps (In= 6.36 km, Out= 19.57 km)

WYFW.P CH 208 A DA
Lat= 33 59 46.80, Lng= 83 45 18.20
5.0 kW 76.6 m HAAT, 346.9 m COR
Prot.= 60 dBu, Intef.= 100 dBu

WRDA-C CH 210 A DA 0000167587
Lat= 34 13 34.80, Lng= 83 29 47.00
2.6 kW 95 m HAAT, 340 m COR
Prot.= 60 dBu, Intef.= 100 dBu

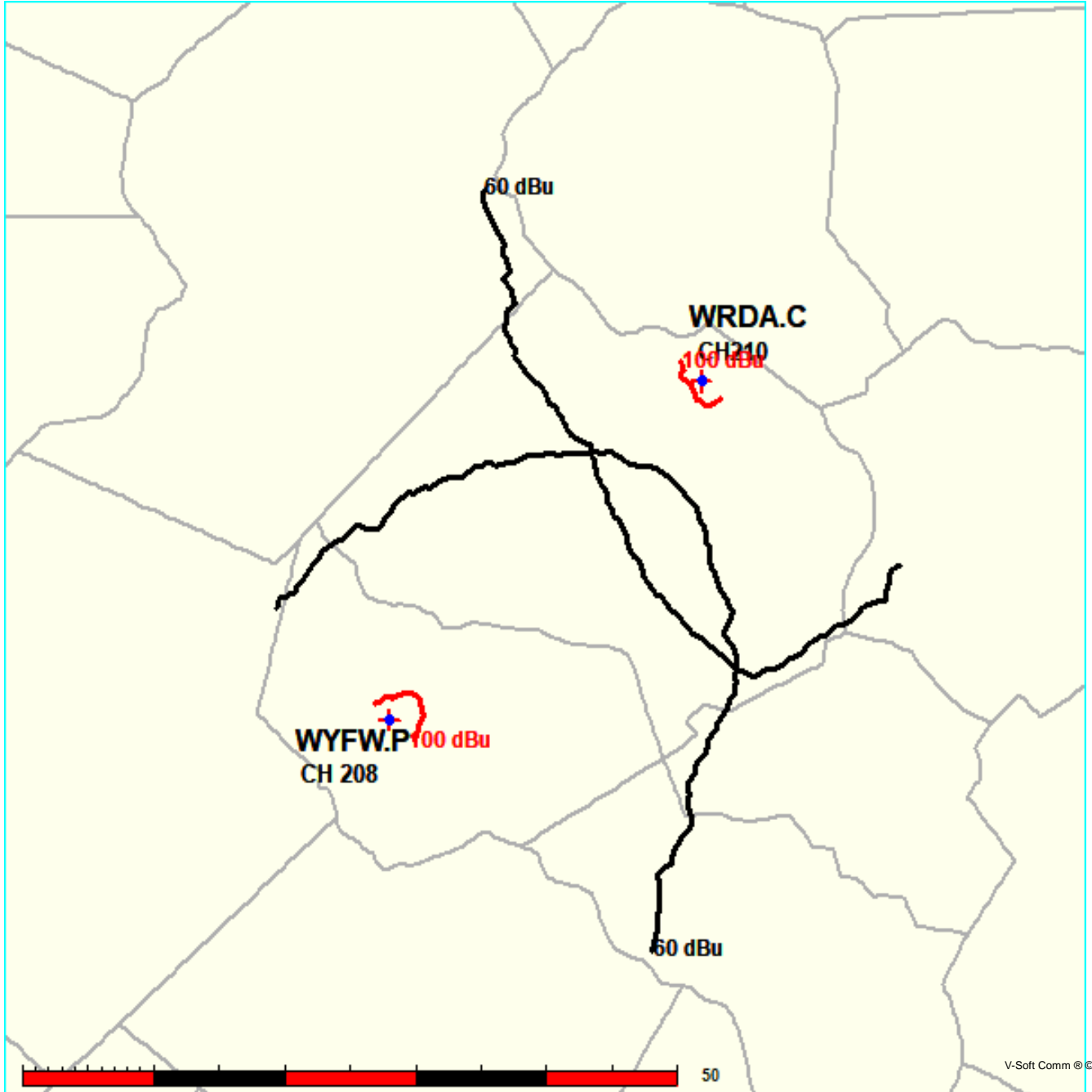


Exhibit 7f

Contour Protection Studies Toward Select Allocation Concern(s)

03-11-2024

Terrain Data: NED 03 SEC

FMOver Analysis

WYFW.P

WRDA 0000167587

Channel = 208A

Max ERP = 5 kW

RCAMSL = 346.9 m

N. Lat. 33 59 46.80

W. Lng. 83 45 18.20

Protected

60 dBu

Channel = 210A

Max ERP = 2.6 kW

RCAMSL = 340 m

N. Lat. 34 13 34.80

W. Lng. 83 29 47.00

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
005.0	000.9461	0088.3	017.1	249.1	000.1478	0091.3	023.9	47.24	
006.0	000.9857	0086.4	017.1	248.7	000.1476	0090.9	023.6	47.38	
007.0	001.0260	0087.3	017.4	249.0	000.1478	0091.3	023.2	47.72	
008.0	001.0672	0087.2	017.5	249.0	000.1478	0091.3	022.9	47.98	
009.0	001.1092	0086.8	017.7	248.9	000.1477	0091.2	022.5	48.22	
010.0	001.1520	0084.5	017.6	248.3	000.1473	0090.8	022.3	48.34	
011.0	001.2103	0085.9	018.0	248.8	000.1476	0091.0	021.9	48.73	
012.0	001.2701	0086.6	018.3	249.0	000.1478	0091.3	021.4	49.11	
013.0	001.3313	0087.2	018.6	249.2	000.1479	0091.6	021.0	49.48	
014.0	001.3939	0086.3	018.7	249.0	000.1477	0091.2	020.6	49.70	
015.0	001.4580	0085.1	018.8	248.6	000.1475	0090.8	020.3	49.90	
016.0	001.5235	0083.9	018.9	248.2	000.1472	0091.0	020.0	50.15	
017.0	001.5905	0084.0	019.1	248.1	000.1471	0091.2	019.6	50.49	
018.0	001.6589	0086.1	019.5	248.5	000.1474	0090.7	019.1	50.90	
019.0	001.7287	0088.8	020.1	249.1	000.1478	0091.4	018.5	51.48	
020.0	001.8000	0088.9	020.3	248.9	000.1477	0091.1	018.1	51.78	
021.0	001.8973	0089.6	020.6	248.9	000.1477	0091.2	017.6	52.20	
022.0	001.9908	0088.8	020.8	248.5	000.1474	0090.7	017.2	52.45	
023.0	002.0866	0086.6	020.7	247.6	000.1467	0092.5	017.0	52.80	
024.0	002.1912	0086.6	021.0	247.2	000.1465	0092.3	016.6	53.13	
025.0	002.2984	0087.8	021.4	247.2	000.1465	0092.2	016.0	53.59	
026.0	002.4012	0087.2	021.5	246.6	000.1460	0090.3	015.7	53.69	
027.0	002.5134	0089.6	022.0	246.7	000.1461	0091.0	015.0	54.33	
028.0	002.6209	0091.5	022.5	246.7	000.1460	0090.7	014.4	54.81	
029.0	002.7306	0091.3	022.7	245.9	000.1455	0087.4	014.0	54.94	
030.0	002.8501	0091.8	023.0	245.2	000.1450	0086.1	013.6	55.38	
031.0	003.0031	0092.1	023.3	244.6	000.1445	0085.5	013.1	55.97	
032.0	003.1522	0091.9	023.5	243.6	000.1438	0083.5	012.6	56.34	
033.0	003.3048	0091.6	023.7	242.5	000.1429	0081.4	012.3	56.66	

Exhibit 7f

Contour Protection Studies Toward Select Allocation Concern(s)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
034.0	003.4694	0092.7	024.1	241.6	000.1423	0079.2	011.7	57.27
035.0	003.6295	0092.8	024.4	240.3	000.1414	0076.0	011.3	57.56
036.0	003.8019	0093.9	024.8	239.1	000.1453	0074.6	010.7	58.42
037.0	003.9694	0094.2	025.1	237.5	000.1531	0076.8	010.3	59.60
038.0	004.1496	0095.9	025.5	236.0	000.1604	0077.6	009.7	60.92
039.0	004.3245	0095.8	025.8	233.7	000.1714	0074.1	009.4	61.43
040.0	004.5125	0097.7	026.3	231.7	000.1822	0074.1	008.8	62.75
041.0	004.5601	0098.1	026.4	228.8	000.1915	0077.2	008.6	63.65
042.0	004.6080	0098.5	026.5	225.8	000.1927	0080.4	008.5	64.32
043.0	004.6561	0098.0	026.5	222.7	000.1941	0081.0	008.5	64.45
044.0	004.7045	0099.4	026.7	219.4	000.1989	0086.4	008.2	65.54
045.0	004.7531	0101.2	027.0	215.9	000.2218	0090.2	008.0	66.85
046.0	004.8020	0103.5	027.3	212.0	000.2485	0090.3	007.8	67.87
047.0	004.8511	0105.5	027.7	207.9	000.2884	0092.0	007.6	69.04
048.0	004.9005	0106.0	027.8	204.2	000.3373	0097.0	007.7	70.07
049.0	004.9501	0106.7	027.9	200.5	000.3900	0099.5	007.8	70.74
050.0	005.0000	0107.5	028.1	196.8	000.4660	0102.7	007.9	71.56
051.0	005.0000	0106.8	028.0	194.4	000.5231	0105.6	008.2	71.57
052.0	005.0000	0107.9	028.1	191.1	000.6027	0104.1	008.4	71.66
053.0	005.0000	0108.2	028.2	188.6	000.6797	0105.7	008.7	71.70
054.0	005.0000	0108.9	028.3	186.0	000.7691	0105.0	009.0	71.60
055.0	005.0000	0109.1	028.3	183.9	000.8463	0107.2	009.4	71.51
056.0	005.0000	0109.1	028.3	182.1	000.9151	0110.6	009.8	71.40
057.0	005.0000	0108.2	028.2	181.0	000.9576	0110.2	010.3	70.73
058.0	005.0000	0107.0	028.0	180.2	000.9903	0110.0	010.8	70.02
059.0	005.0000	0107.2	028.0	178.8	001.0621	0109.8	011.2	69.64
060.0	005.0000	0105.9	027.9	178.3	001.0912	0110.5	011.7	69.02
061.0	005.0000	0103.2	027.6	178.6	001.0738	0110.0	012.2	68.03
062.0	005.0000	0103.2	027.6	177.6	001.1262	0111.0	012.7	67.69
063.0	005.0000	0102.0	027.4	177.3	001.1432	0111.3	013.2	67.11
064.0	005.0000	0100.3	027.2	177.4	001.1411	0111.3	013.7	66.42
065.0	005.0000	0099.5	027.1	177.0	001.1624	0111.7	014.2	65.95
066.0	005.0000	0099.9	027.1	176.1	001.2107	0113.3	014.6	65.76
067.0	005.0000	0099.5	027.1	175.7	001.2348	0113.6	015.1	65.50
068.0	005.0000	0098.7	027.0	175.5	001.2460	0113.6	015.5	65.13
069.0	005.0000	0099.1	027.0	174.9	001.2837	0114.1	016.0	64.93
070.0	005.0000	0099.8	027.1	174.1	001.3289	0115.7	016.4	64.84
071.0	005.0000	0100.5	027.2	173.5	001.3670	0117.5	016.9	64.72
072.0	005.0000	0101.2	027.3	172.8	001.4052	0119.0	017.3	64.58
073.0	005.0000	0101.6	027.4	172.4	001.4331	0119.2	017.8	64.30
074.0	005.0000	0098.0	026.9	173.6	001.3592	0117.1	018.3	63.48
075.0	005.0000	0094.9	026.5	174.6	001.2994	0114.9	018.8	62.69
076.0	005.0000	0093.3	026.3	175.0	001.2745	0113.8	019.3	62.14

Exhibit 7f

Contour Protection Studies Toward Select Allocation Concern(s)

03-11-2024

Terrain Data: NED 03 SEC

FMOver Analysis

WRDA 0000167587

WYFW.P

Channel = 210A
 Max ERP = 2.6 kW
 RCAMSL = 340 m
 N. Lat. 34 13 34.80
 W. Lng. 83 29 47.00
 Protected
 60 dBu

Channel = 208A
 Max ERP = 5 kW
 RCAMSL = 346.9 m
 N. Lat. 33 59 46.80
 W. Lng. 83 45 18.20
 Interfering
 100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
178.0	001.1059	0110.7	020.1	077.4	005.0000	0095.6	025.1	62.07	
179.0	001.0520	0109.7	019.8	076.5	005.0000	0094.0	024.9	62.10	
180.0	000.9994	0109.8	019.5	075.7	005.0000	0093.2	024.6	62.23	
181.0	000.9589	0110.2	019.4	075.2	005.0000	0094.4	024.3	62.55	
182.0	000.9192	0110.6	019.2	074.5	005.0000	0096.4	024.0	62.94	
183.0	000.8804	0110.6	019.0	073.8	005.0000	0098.8	023.8	63.35	
184.0	000.8424	0106.8	018.4	072.3	005.0000	0101.4	023.7	63.68	
185.0	000.8052	0105.8	018.1	071.3	005.0000	0101.0	023.5	63.77	
186.0	000.7689	0105.0	017.8	070.3	005.0000	0099.8	023.3	63.77	
187.0	000.7334	0105.9	017.7	069.6	005.0000	0099.7	023.1	63.92	
188.0	000.6987	0106.6	017.5	068.9	005.0000	0099.0	022.9	64.00	
189.0	000.6649	0104.8	017.1	067.6	005.0000	0099.2	022.9	64.07	
190.0	000.6319	0104.5	016.8	066.7	005.0000	0099.5	022.8	64.17	
191.0	000.6060	0104.2	016.6	065.8	005.0000	0100.0	022.6	64.31	
192.0	000.5807	0106.1	016.6	065.3	005.0000	0099.6	022.4	64.43	
193.0	000.5559	0106.7	016.4	064.5	005.0000	0099.5	022.3	64.53	
194.0	000.5317	0105.5	016.1	063.5	005.0000	0101.1	022.3	64.70	
195.0	000.5079	0105.3	015.9	062.5	005.0000	0102.8	022.2	64.89	
196.0	000.4848	0104.0	015.6	061.4	005.0000	0103.3	022.2	64.92	
197.0	000.4621	0102.2	015.2	060.3	005.0000	0105.0	022.3	65.03	
198.0	000.4400	0099.6	014.8	059.1	005.0000	0107.2	022.4	65.11	
199.0	000.4185	0099.2	014.6	058.2	005.0000	0107.0	022.4	65.09	
200.0	000.3975	0099.4	014.4	057.4	005.0000	0107.4	022.4	65.14	
201.0	000.3828	0099.8	014.3	056.8	005.0000	0108.7	022.3	65.29	
202.0	000.3684	0100.4	014.2	056.1	005.0000	0109.2	022.3	65.39	
203.0	000.3542	0099.6	014.0	055.3	005.0000	0109.0	022.3	65.35	
204.0	000.3403	0097.6	013.7	054.4	005.0000	0109.4	022.4	65.29	
205.0	000.3267	0095.3	013.4	053.5	005.0000	0108.3	022.6	65.10	
206.0	000.3134	0093.4	013.1	052.7	005.0000	0108.3	022.7	64.99	
207.0	000.3004	0093.1	013.0	052.0	005.0000	0107.8	022.7	64.92	
208.0	000.2876	0091.9	012.8	051.2	005.0000	0106.6	022.8	64.75	
209.0	000.2751	0091.5	012.6	050.6	005.0000	0107.1	022.9	64.74	
210.0	000.2629	0090.5	012.4	049.9	004.9932	0107.6	023.0	64.69	

Exhibit 7f
Contour Protection Studies Toward Select Allocation Concern(s)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
211.0	000.2557	0089.8	012.3	049.3	004.9628	0107.2	023.1	64.59
212.0	000.2486	0090.3	012.2	048.7	004.9357	0106.6	023.1	64.53
213.0	000.2415	0091.8	012.2	048.2	004.9107	0106.2	023.0	64.53
214.0	000.2346	0092.1	012.2	047.7	004.8833	0105.7	023.0	64.45
215.0	000.2278	0090.5	012.0	047.0	004.8530	0105.5	023.1	64.31
216.0	000.2211	0090.1	011.9	046.5	004.8256	0105.0	023.2	64.19
217.0	000.2145	0090.0	011.8	045.9	004.7990	0103.3	023.2	63.98
218.0	000.2079	0090.2	011.7	045.4	004.7733	0101.9	023.3	63.80
219.0	000.2015	0087.1	011.4	044.8	004.7454	0101.0	023.5	63.50
220.0	000.1952	0086.2	011.3	044.3	004.7206	0100.4	023.7	63.33
221.0	000.1948	0083.6	011.1	043.8	004.6964	0098.9	023.8	63.05
222.0	000.1943	0082.2	011.0	043.4	004.6736	0098.2	023.9	62.90
223.0	000.1939	0080.9	010.9	042.9	004.6513	0098.0	024.0	62.80
224.0	000.1935	0081.8	011.0	042.4	004.6292	0098.0	023.9	62.82
225.0	000.1931	0081.3	011.0	042.0	004.6073	0098.5	024.0	62.81
226.0	000.1926	0080.0	010.9	041.5	004.5862	0098.4	024.1	62.71
227.0	000.1922	0078.2	010.8	041.1	004.5660	0098.1	024.2	62.57
228.0	000.1918	0078.3	010.8	040.7	004.5450	0098.3	024.2	62.55
229.0	000.1914	0076.7	010.6	040.3	004.5259	0098.2	024.4	62.43
230.0	000.1909	0075.8	010.6	039.9	004.4890	0097.4	024.5	62.26
231.0	000.1856	0074.9	010.5	039.5	004.4204	0096.7	024.6	62.00
232.0	000.1804	0073.9	010.3	039.2	004.3556	0096.0	024.8	61.74
233.0	000.1752	0073.4	010.2	038.8	004.2934	0095.7	024.9	61.55
234.0	000.1701	0074.2	010.2	038.4	004.2259	0095.5	025.0	61.42
235.0	000.1651	0076.0	010.2	038.0	004.1536	0095.9	025.0	61.37
236.0	000.1602	0077.7	010.3	037.6	004.0793	0095.8	025.1	61.27
237.0	000.1553	0077.3	010.2	037.3	004.0233	0095.0	025.2	61.02
238.0	000.1505	0075.6	010.0	037.1	003.9829	0094.4	025.4	60.76
239.0	000.1458	0074.5	009.8	036.8	003.9409	0093.9	025.6	60.52
240.0	000.1412	0075.6	009.8	036.5	003.8837	0093.7	025.7	60.38
241.0	000.1419	0077.7	010.0	036.0	003.8033	0093.9	025.7	60.36
242.0	000.1426	0080.3	010.1	035.5	003.7132	0093.3	025.6	60.25
243.0	000.1433	0082.6	010.3	035.0	003.6265	0092.8	025.5	60.13
244.0	000.1441	0084.3	010.4	034.5	003.5503	0093.0	025.5	60.06
245.0	000.1448	0085.9	010.5	034.0	003.4747	0092.7	025.5	59.94
246.0	000.1455	0087.9	010.6	033.5	003.3917	0092.5	025.5	59.82
247.0	000.1463	0091.9	010.9	032.9	003.2867	0091.6	025.4	59.66
248.0	000.1470	0091.5	010.9	032.5	003.2346	0091.8	025.5	59.53
249.0	000.1478	0091.3	010.9	032.2	003.1821	0091.8	025.6	59.38
250.0	000.1485	0092.2	010.9	031.8	003.1176	0092.3	025.7	59.31
251.0	000.1562	0091.5	011.0	031.3	003.0496	0092.2	025.7	59.16
252.0	000.1641	0088.7	011.0	031.0	003.0081	0092.1	025.9	59.00
253.0	000.1721	0086.9	011.0	030.7	002.9543	0092.1	026.0	58.84
254.0	000.1804	0085.0	011.0	030.4	002.9045	0091.9	026.1	58.67

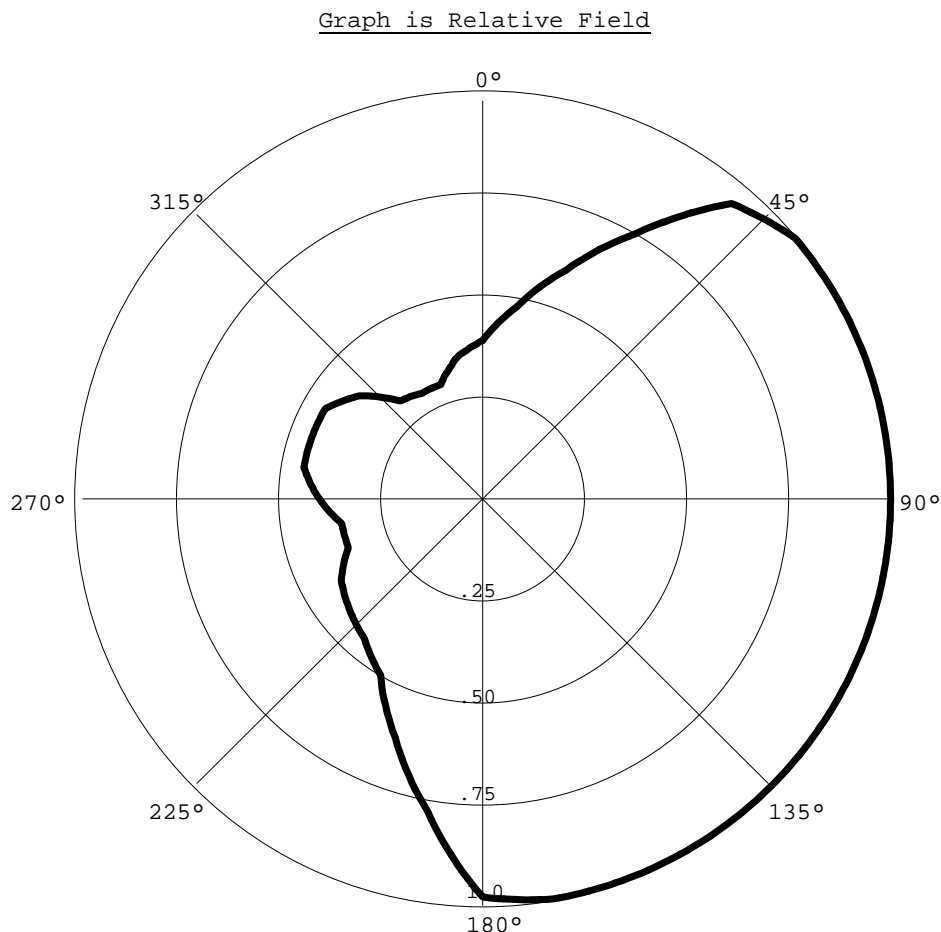
Exhibit 8

Tabulation of Proposed Directional Antenna Pattern

WYFW.P

RMS(V) = .736

Azi	Field	dBk	kW
000	0.390	-01.189	0.760
010	0.480	00.615	1.152
020	0.600	02.553	1.800
030	0.755	04.549	2.850
040	0.950	06.544	4.512
050	1.000	06.990	5.000
060	1.000	06.990	5.000
070	1.000	06.990	5.000
080	1.000	06.990	5.000
090	1.000	06.990	5.000
100	1.000	06.990	5.000
110	1.000	06.990	5.000
120	1.000	06.990	5.000
130	1.000	06.990	5.000
140	1.000	06.990	5.000
150	1.000	06.990	5.000
160	1.000	06.990	5.000
170	1.000	06.990	5.000
180	0.980	06.814	4.802
190	0.780	04.832	3.042
200	0.625	02.907	1.953
210	0.500	00.969	1.250
220	0.450	00.054	1.012
230	0.425	-00.443	0.903
240	0.400	-00.969	0.800
250	0.350	-02.129	0.612
260	0.350	-02.129	0.612
270	0.400	-00.969	0.800
280	0.445	-00.043	0.990
290	0.445	-00.043	0.990
300	0.445	-00.043	0.990
310	0.395	-01.078	0.780
320	0.315	-03.044	0.496
330	0.300	-03.468	0.450
340	0.300	-03.468	0.450
350	0.355	-02.006	0.630



The antenna proposed in this application will be mounted in accordance with specific instructions provided by the antenna manufacturer. The antenna will be tested by the manufacturer using the type of mounting which will be employed in the field.

No other antennas of any type are or will be mounted on the same tower level as the directional antenna nor will any antenna be mounted within any vertical or horizontal distance specified by the antenna manufacturer as being necessary for proper operation of the directional antenna. The antenna will be assembled under the supervision of a qualified engineer, who will provide the required certification. This statement will certify that the antenna has been installed pursuant to the manufacturer's instructions. Also upon completion of antenna construction, a statement from a licensed surveyor will be submitted with the application for license certifying the antenna has been installed in the proper orientation.

The antenna pattern will be measured by the manufacturer on the test range, and the measurement results will be supplied to the Commission at the time Form 302-FM is filed covering the construction.