Technical Report Supporting a New NCE-FM Construction Permit Application

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

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for
Lewes, Delaware
CH219A (91.7 MHz)
(Facility ID: 762133)

as filed by
Bible Broadcasting Network, Inc.

This Application is being filed in response to ***PUBLIC NOTICE: DA 21-885****; issued July 23, 2021; "Media Bureau announces NCE-FM new station filing procedures and requirements for November 2 - 9, 2021, window".*

October 2021

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

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Supplemental Appendixes:

Explanation of Technical Report 1

EXPLANATION OF PROPOSAL: This New NCE-FM Construction Permit Application and accompanying Technical Report supports a request for a new noncommercial FM (NCE-FM) station pursuant to ***PUBLIC NOTICE: DA 21-885***; issued July 23, 2021; "*Media Bureau announces NCE-FM new station filing procedures and requirements for November 2 - 9, 2021, window*". This FCC Schedule 340-NCE-FM filing requests a new facility for CH219A(91.7 MHz) - Lewes, DE with operating parameters of 0.420 kW ERP (Circular Polarization) utilizing a non-directional antenna.

FACILITY COMPLIANCE SHOWINGS: A map of the proposed 60 dBµ service contour has been included in ***Exhibit 1***. This exhibit demonstrates NCE-FM grade service of 1.0 mV/m, or 60 dBµ F(50:50), to visually at least more than 50% of the community of license.

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 1063554. 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 certifies it has reasonable assurance in good faith that the above structure will be available to the applicant for the applicant's intended purpose. As this reasonable assurance is not based on the applicant's ownership of the structure, the applicant certifies that it has obtained such reasonable assurance by contacting the owner or person possessing control of the site or structure. The name of the person contacted, the person's telephone number, and status of the contact as the tower owner, agent, or authorized representative is as follows:*

Name:	Warren Walls (owner)
Contact Telephone Number:	(302) 645-8903
Contact Status:	Owner

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***.

ALLOCATION COMPLIANCE SHOWINGS: The proposed full service NCE-FM site will meet all 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 two (2) 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-b).*** It is believed sufficient clearance exists precluding the need for further study. However, additional tabulations or maps will be supplied upon request. Regarding the commercial spacings portion of this CH219A proposal, the proposed full-service site will meet all Class A spacing requirements toward each relevant commercial allocation concern. A tabulation of the commercial spacings is found in ***Exhibit 8***.

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.

The transmitter site is located within the affected radius of multiple TV6 facilities. However, full protection will be afforded all TV6 concerns as noted in ***Exhibit 6***.

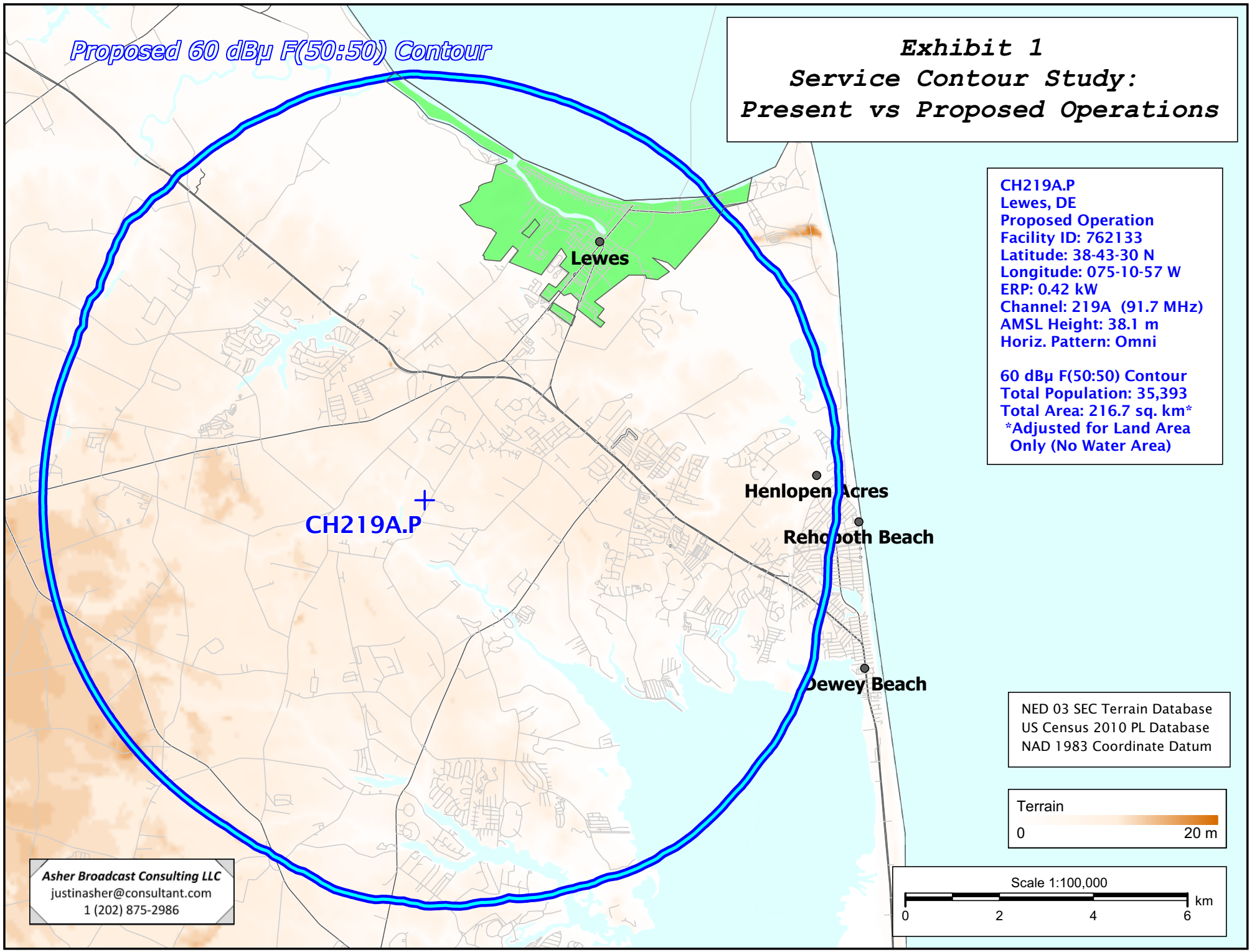
The remainder of this report is responsive to the Rules of the Commission, and provides the data for the FCC's online master LMS (Licensing and Management System) form.

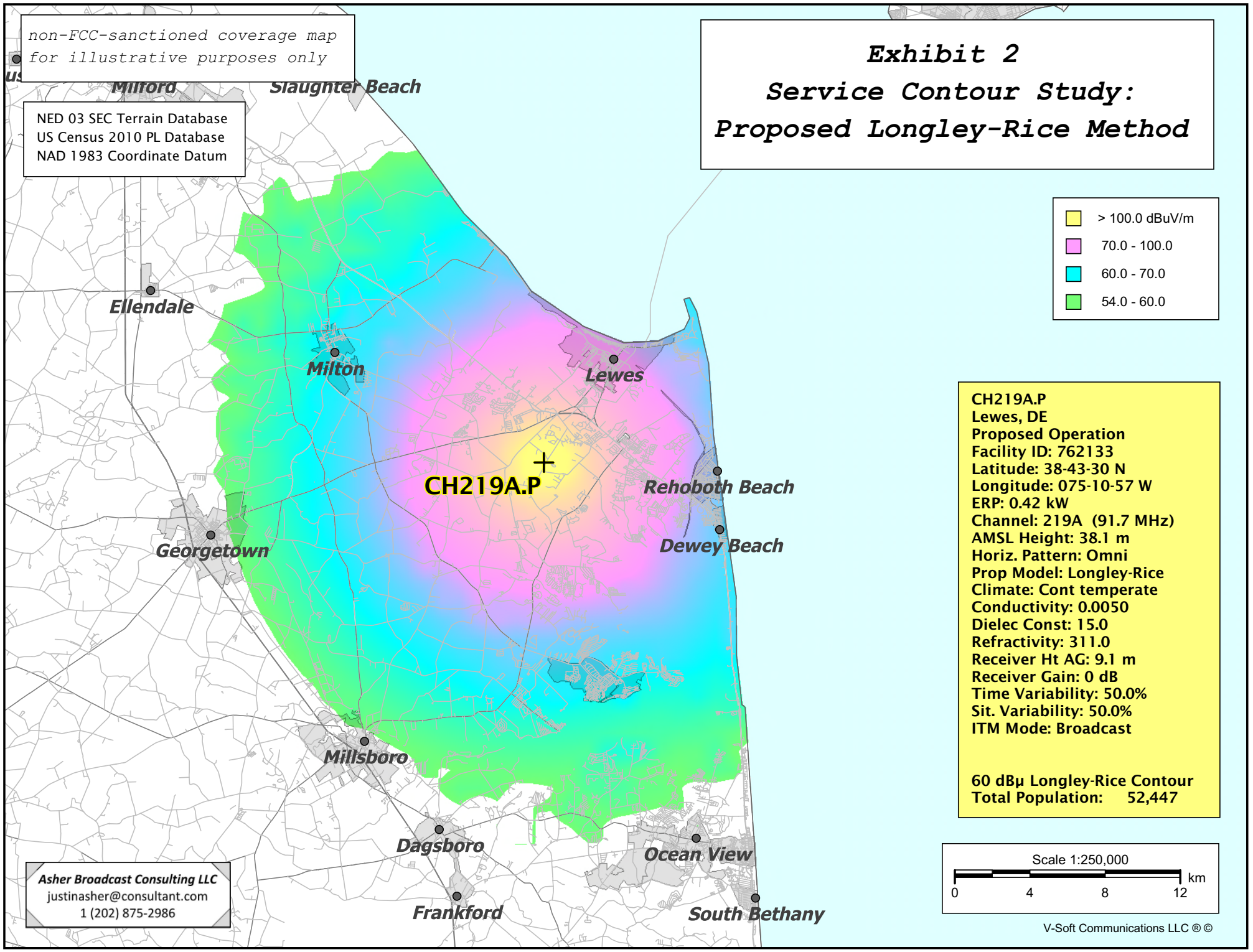
ENVIRONMENTAL COMPLIANCE SHOWINGS: The proposed facility complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments as set forth under §1.1310 and/or §1.1307(b)(3) of the Commission's rules and the guidelines for RF radiation protection 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-two 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
October 6, 2021


Proposed 60 dBµ F(50:50) Contour
Exhibit 1
Service Contour Study:
Present vs Proposed Operations
CH219A.P
Lewes, DE
Proposed Operation
Facility ID: 762133
Latitude: 38-43-30 N
Longitude: 075-10-57 W
ERP: 0.42 kW
Channel: 219A (91.7 MHz)
AMSL Height: 38.1 m
Horiz. Pattern: Omni
60 dBµ F(50:50) Contour
Total Population: 35,393
Total Area: 216.7 sq. km*
*Adjusted for Land Area
Only (No Water Area)
Lewes
Henlopen Acres
Rehoboth Beach
Dewey Beach
CH219A.P
NED 03 SEC Terrain Database
US Census 2010 PL Database
NAD 1983 Coordinate Datum
Terrain
0
20 m
Scale 1:100,000
0
2
4
6
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 2010 PL Database
NAD 1983 Coordinate Datum
Exhibit 2
Service Contour Study:
Proposed Longley-Rice Method
> 100.0 dBuV/m
70.0 - 100.0
60.0 - 70.0
54.0 - 60.0
Milford
Slaughter Beach
Ellendale
Milton
Lewes
CH219A.P
Rehoboth Beach
Dewey Beach
Georgetown
Millsboro
Dagsboro
Ocean View
Frankford
South Bethany
CH219A.P
Lewes, DE
Proposed Operation
Facility ID: 762133
Latitude: 38-43-30 N
Longitude: 075-10-57 W
ERP: 0.42 kW
Channel: 219A (91.7 MHz)
AMSL Height: 38.1 m
Horiz. Pattern: Omni
Prop Model: Longley-Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 311.0
Receiver Ht AG: 9.1 m
Receiver Gain: 0 dB
Time Variability: 50.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast
60 dBμ Longley-Rice Contour
Total Population: 52,447
Scale 1:250,000
0 4 8 12 km
Asher Broadcast Consulting LLC
justinasher@consultant.com
1 (202) 875-2986
V-Soft Communications LLC ® ©

ASR Registration Search

Registration 1063554

Map Registration

Exhibit 3
Copy of Existing Antenna Structure Registration
(public record copy)

Registration Detail

Reg Number	1063554	Status	Constructed
File Number	A0074163	Constructed	01/21/1999
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

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

Location (in NAD83 Coordinates)

Lat/Long	38-43-30.0 N 075-10-57.0 W	Address	RT 277 0.48 KM N OF RT 283
City, State	BELLTOWN , DE		
Zip	19958	County	SUSSEX
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
6.1	36.6
Overall Height Above Mean Sea Level	**Overall Height Above Ground w/o Appurtenances**
42.7	36.6

Painting and Lighting Specifications

None

FAA Notification

FAA Study	99-AEA-0283-OE	FAA Issue Date	04/02/1999

Owner & Contact Information

FRN

Owner Entity Type

Owner

BIBLE BROADCASTING NETWORK INC
Attention To: CARL REDEMANN
8030 ARROWRIDGE BLVD
CHARLOTTE , NC 28273

P: (704)523-5555
F:
E: CARL@BBNRADIO.ORG

Contact

P:
F:
E:

Last Action Status

Status	Constructed	Received	04/16/1999
Purpose	New	Entered	04/19/1999
Mode	Mail In (Manual)		

Related Applications

04/16/1999 A0074163 - New (NE)

Comments

Comments

None

History

Date	Event
03/15/2010	Supercede - Internal Correction Applied

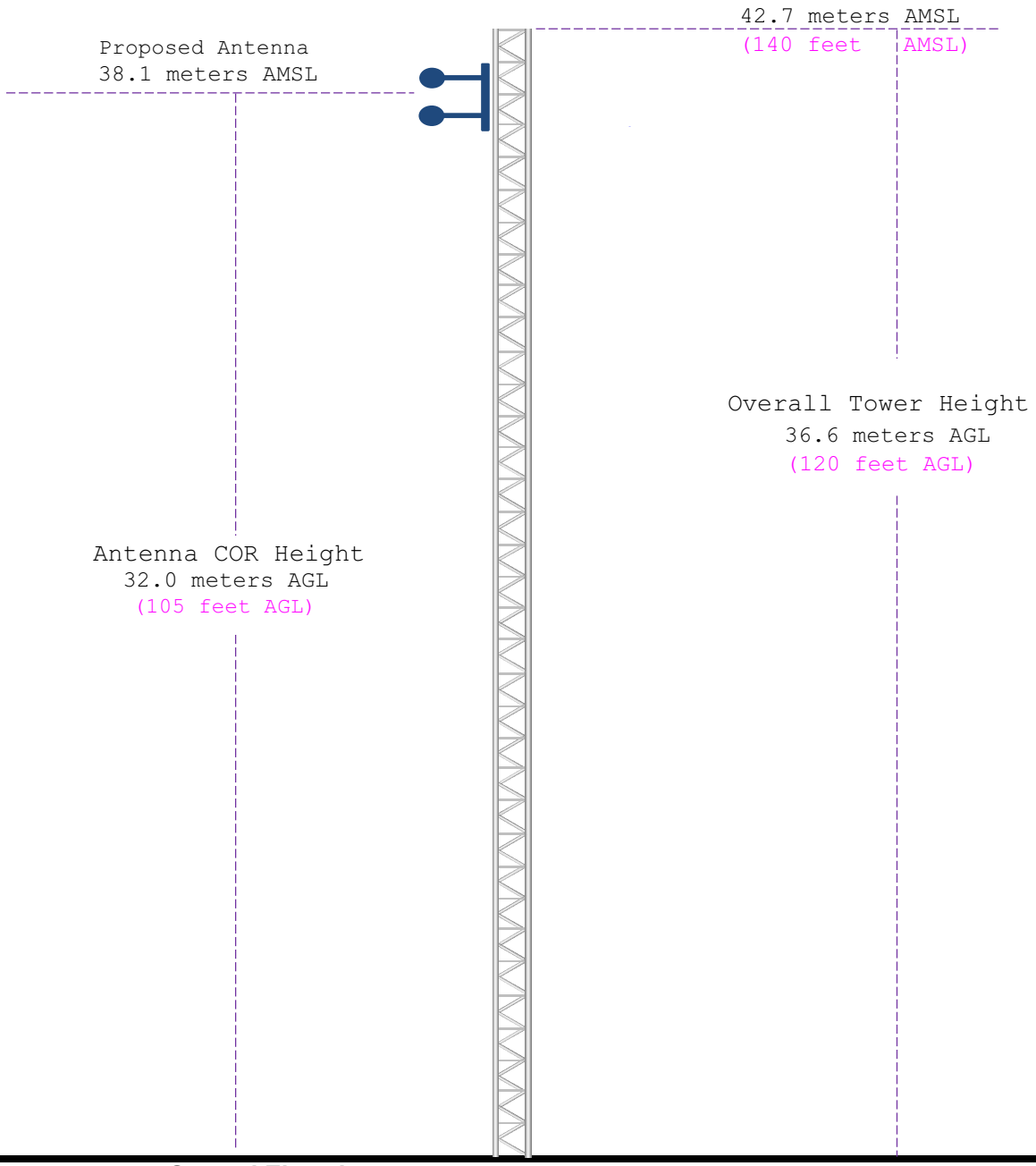
Pleadings

Pleading Type	Filer Name	Description	Date Entered
None			

Automated Letters

None

Exhibit 4
Vertical Plan of Antenna System and Support Tower



Ground Elevation: 6.1 meters AMSL (20 feet AMSL)		
Address: On Route 277; 0.48 km north of Route 283.		
City: Belltown **County:** Sussex **State:** Delaware	**Laitude (D M S)** ---- **Longitude (D M S)** ---- Lat/Long 38-43-30.0 N 075-10-57.0 W	(NAD 1927) (NAD 1983)
Antenna Structure Registration 1063554	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. = 384330.0 W. Lng. = 751057.0
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	0.8	37.3	0.4200	-3.77	1.000	9.04
045	2.4	35.7	0.4200	-3.77	1.000	8.83
090	3.0	35.1	0.4200	-3.77	1.000	8.76
135	0.5	37.6	0.4200	-3.77	1.000	9.07
180	4.1	34.0	0.4200	-3.77	1.000	8.62
225	9.5	28.6	0.4200	-3.77	1.000	8.11
270	11.4	26.7	0.4200	-3.77	1.000	8.11
315	4.3	33.8	0.4200	-3.77	1.000	8.59

Ave El= 4.50 M HAAT= 33.60 M AMSL= 38.1

NAD 1983 to NAD 1927 Conversion:

Various Coordinate Conversion Calculations (NAD 1983):

Position Type	Lat Lon
Degrees Lat Long	38.7250000°, -075.1825000°
Degrees Minutes	38°43.50000', -075°10.95000'
Degrees Minutes Seconds	38°43'30.0000", -075°10'57.0000"
UTM	18S 484136mE 4286276mN
UTM centimeter	18S 484136.00mE 4286276.06mN
MGRS	18SVH8413686276
Grid North	-0.1°
GARS	210LT41
Maidenhead	FM28JR84CA40
GEOREF	GJQJ49054350

Exhibit 6
Tabulation of Proposed Allocation

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

Bible Broadcasting Network, Inc.

REFERENCE CH# 219A - 91.7 MHz, Pwr= 0.42 kW, HAAT= 33.6 M, COR= 38.1 M DISPLAY DATES
38 43 30.00 N. Average Protected F(50-50)= 8.57 km DATA 08-17-21
75 10 57.00 W. Omni-directional SEARCH 08-17-21

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*
219A WRTX	LIC _VN	328.1	62.39	39 12 03.40	0.580	53.4	15.8	0.3	17.4
Dover	DE	147.9	BLED19950418KB	75 33 53.70		104	Temple University Of The C		
221A WLBW«	LIC _CN	173.6	33.80	38 25 20.40	3.000	2.6	28.2	30.5R	3.3M
Fenwick Island	DE	353.7	BMLED20110201ADZ	75 08 21.70	143	147	Educational Media Foundati		
06N-- WOWZ-LP«	APP _HN	194.0	38.76	38 23 12.00	3.000	2.4	24.6	27.0R	11.8M
Salisbury	MD	14.0	0000071750	75 17 24.99		142			
220A WSMJ	LIC ZVN	38.2	45.94	39 02 58.00	0.750	21.2	14.2	15.8	19.2
North Wildwood	NJ	218.4	BLED20130204AAR	74 51 13.00		75	Domestic Church Media Foun		
06Z-- WOWZ-LP«	LI __N	194.0	38.76	38 23 12.00	1.000	2.3	18.9	21.2R	17.6M
Salisbury	MD	14.0	BLTVL-20090326ADA	75 17 24.99		142			
06Z-- WOWZ-LP«	APP __N	194.1	38.77	38 23 12.11	1.000	2.3	18.9	21.2R	17.6M
Salisbury	MD	14.0	0000156813	75 17 26.69		142			
06Z-- WDCO-LP/W«	CP __N	188.6	40.86	38 21 41.50	2.000	2.5	20.6	23.1R	17.8M
Salisbury	MD	8.5	BPTVL-20140210ABX	75 15 09.09		120			
216A WDDE	LIC _CN	318.9	42.71	39 00 50.00	2.100	1.8	18.8	32.3	22.4
Dover	DE	138.7	BLED20110812ACN	75 30 28.00	72	78	Delaware First Media Corpo		
217B WESM	LIC _CN	217.4	71.85	38 12 37.40	45.000	4.4	41.2	59.4	29.2
Princess Anne	MD	37.1	BLED19870303KC	75 40 54.70	91	97	University Of Maryland, Ea		
272A WAIV«	LIC _CN	46.9	43.74	38 59 34.40	6.000	54.3	14.7	9.5R	34.2M
Cape May	NJ	227.2	BLH20160503AAG	74 48 46.60	57	58	Equity Communications, L.P		
06 1C WPVI-TV«	APP _HN	358.1	146.74	40 02 39.00	56.000	2.4	101.5	104.0R	42.8M
Philadelphia	PA	178.0	0000035671	75 14 25.01	332	404			
06 1C WPVI-TV«	STA _HN	358.1	146.74	40 02 39.00	56.000	2.4	101.5	103.9R	42.8M
Philadelphia	PA	178.0	0000034890	75 14 25.01	332	404			
06 1C WPVI-TV«	LI _CY	358.0	146.56	40 02 33.00	34.000	2.4	95.6	98.0R	48.6M
Philadelphia	PA	178.0	BLCDT-20111019ACJ	75 14 32.01	330	395			
6 -- WPVI-TV-A«	CHA D_Y	358.0	146.58	40 02 33.40	34.000	2.4	95.6	98.0R	48.6M
Philadelphia	PA	178.0	DTVBL8616	75 14 31.66	330	395			

Terrain database is NED 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference zone= - Zone 1, 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.
< = Contour Overlap

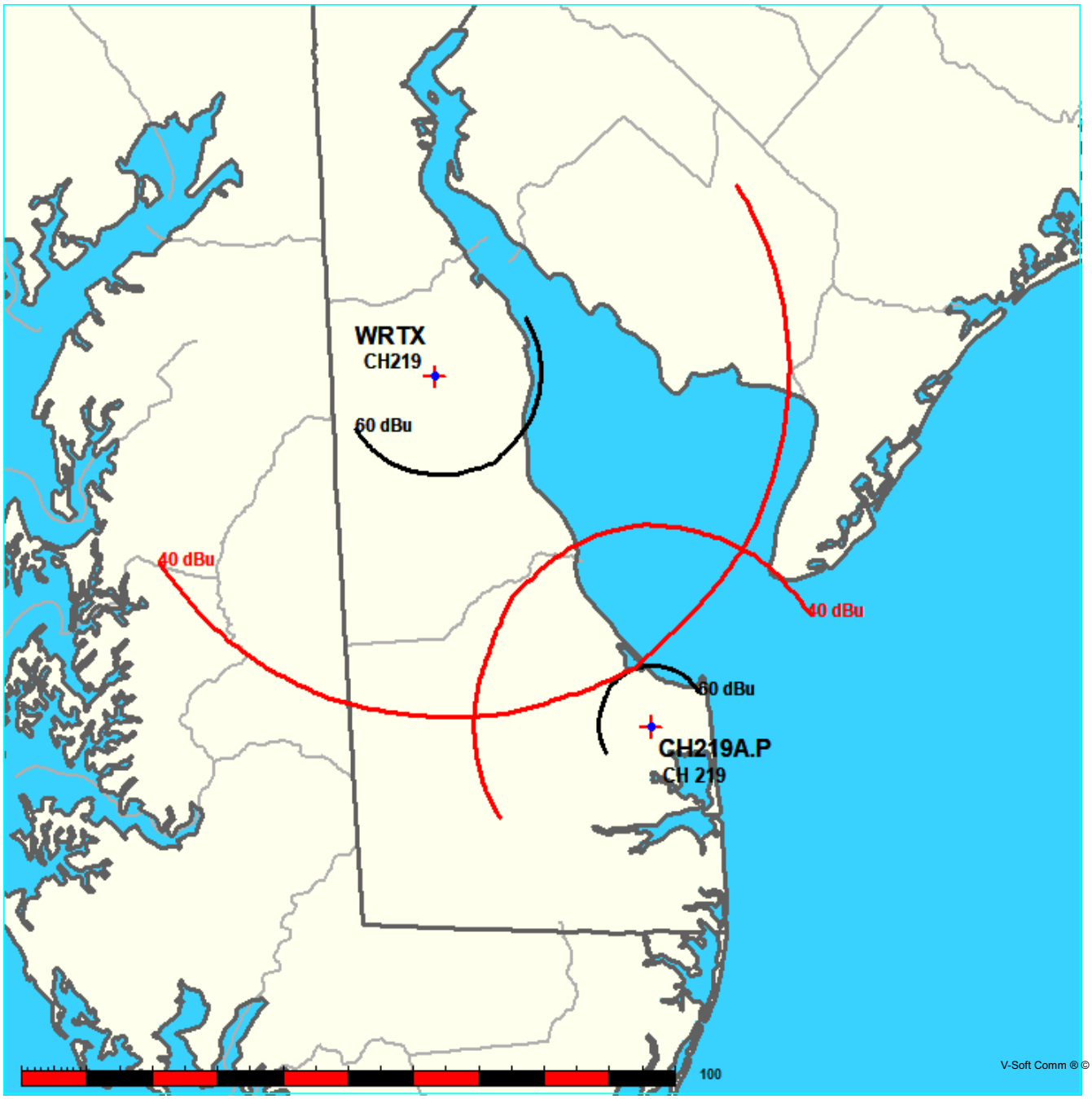
Exhibit 7a
Contour Protection Studies Toward Select Allocation Concern(s)

Bible Broadcasting Network, Inc.

FMCommander Single Allocation Study - 08-17-2021 - NED 03 SEC
CH219A.P's Overlaps (In= 0.25 km, Out= 17.39 km)

CH219A.P CH 219 A
Lat= 38 43 30.00, Lng= 75 10 57.00
0.42 kW 33.6 m HAAT, 38.1 m COR
Prot.= 60 dBu, Intef.= 40 dBu

WRTX CH 219 A BLED19950418KB
Lat= 39 12 03.40, Lng= 75 33 53.70
0.58 kW 0 m HAAT, 104 m COR
Prot.= 60 dBu, Intef.= 40 dBu



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1(202)875-2986

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

08-17-2021 Terrain Data: NED 03 SEC FMOver Analysis

CH219A.P	WRTX BLED19950418KB
Channel = 219A	Channel = 219A
Max ERP = 0.42 kW	Max ERP = 0.58 kW
RCAMSL = 38.1 m	RCAMSL = 104 m
N. Lat. 38 43 30.00	N. Lat. 39 12 03.40
W. Lng. 75 10 57.00	W. Lng. 75 33 53.70
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)
287.0	000.4200	0028.9	008.1	153.3	000.5800	0095.7	056.5	38.67	
288.0	000.4200	0029.0	008.1	153.2	000.5800	0095.7	056.4	38.71	
289.0	000.4200	0029.2	008.1	153.1	000.5800	0095.7	056.3	38.75	
290.0	000.4200	0029.3	008.1	153.0	000.5800	0095.7	056.2	38.79	
291.0	000.4200	0029.6	008.1	152.9	000.5800	0095.7	056.1	38.82	
292.0	000.4200	0029.6	008.1	152.8	000.5800	0095.7	056.0	38.86	
293.0	000.4200	0029.8	008.1	152.7	000.5800	0095.7	056.0	38.89	
294.0	000.4200	0029.9	008.1	152.6	000.5800	0095.7	055.9	38.92	
295.0	000.4200	0030.2	008.1	152.5	000.5800	0095.7	055.8	38.96	
296.0	000.4200	0030.5	008.2	152.4	000.5800	0095.7	055.6	39.01	
297.0	000.4200	0030.2	008.1	152.2	000.5800	0095.7	055.6	39.03	
298.0	000.4200	0030.8	008.2	152.1	000.5800	0095.8	055.5	39.08	
299.0	000.4200	0031.1	008.2	152.0	000.5800	0095.8	055.3	39.13	
300.0	000.4200	0031.2	008.3	151.9	000.5800	0095.9	055.2	39.17	
301.0	000.4200	0031.4	008.3	151.8	000.5800	0095.9	055.1	39.21	
302.0	000.4200	0031.1	008.2	151.7	000.5800	0096.0	055.1	39.23	
303.0	000.4200	0031.0	008.2	151.5	000.5800	0096.1	055.0	39.26	
304.0	000.4200	0031.6	008.3	151.4	000.5800	0096.2	054.9	39.31	
305.0	000.4200	0031.8	008.3	151.3	000.5800	0096.3	054.8	39.35	
306.0	000.4200	0032.0	008.4	151.2	000.5800	0096.3	054.7	39.38	
307.0	000.4200	0032.3	008.4	151.1	000.5800	0096.3	054.6	39.42	
308.0	000.4200	0032.8	008.5	150.9	000.5800	0096.4	054.5	39.47	
309.0	000.4200	0032.9	008.5	150.8	000.5800	0096.5	054.5	39.51	
310.0	000.4200	0033.4	008.5	150.7	000.5800	0096.6	054.3	39.55	
311.0	000.4200	0033.6	008.6	150.5	000.5800	0096.6	054.3	39.58	
312.0	000.4200	0033.9	008.6	150.4	000.5800	0096.6	054.2	39.62	
313.0	000.4200	0034.3	008.7	150.3	000.5800	0096.6	054.1	39.65	
314.0	000.4200	0034.1	008.6	150.1	000.5800	0096.6	054.1	39.66	
315.0	000.4200	0033.8	008.6	150.0	000.5800	0096.6	054.1	39.66	
316.0	000.4200	0033.8	008.6	149.8	000.5800	0096.7	054.0	39.68	
317.0	000.4200	0034.0	008.6	149.6	000.5800	0096.9	054.0	39.72	
318.0	000.4200	0034.1	008.6	149.5	000.5800	0097.0	053.9	39.74	

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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)
319.0	000.4200	0033.9	008.6	149.3	000.5800	0097.0	053.9	39.75
320.0	000.4200	0033.7	008.6	149.2	000.5800	0097.0	053.9	39.75
321.0	000.4200	0033.8	008.6	149.0	000.5800	0097.1	053.9	39.77
322.0	000.4200	0034.2	008.6	148.9	000.5800	0097.1	053.8	39.80
323.0	000.4200	0034.5	008.7	148.7	000.5800	0097.2	053.8	39.82
324.0	000.4200	0034.3	008.7	148.5	000.5800	0097.3	053.8	39.83
325.0	000.4200	0034.4	008.7	148.4	000.5800	0097.4	053.7	39.84
326.0	000.4200	0034.5	008.7	148.2	000.5800	0097.5	053.7	39.86
327.0	000.4200	0034.7	008.7	148.1	000.5800	0097.7	053.7	39.88
328.0	000.4200	0034.8	008.7	147.9	000.5800	0097.9	053.7	39.90
329.0	000.4200	0035.0	008.7	147.7	000.5800	0098.0	053.7	39.92
330.0	000.4200	0035.0	008.7	147.6	000.5800	0098.1	053.7	39.93
331.0	000.4200	0035.0	008.8	147.4	000.5800	0098.2	053.7	39.93
332.0	000.4200	0035.1	008.8	147.3	000.5800	0098.3	053.7	39.94
333.0	000.4200	0035.3	008.8	147.1	000.5800	0098.4	053.7	39.95
334.0	000.4200	0035.7	008.8	146.9	000.5800	0098.4	053.6	39.96
335.0	000.4200	0035.7	008.8	146.8	000.5800	0098.5	053.6	39.96
336.0	000.4200	0035.7	008.8	146.6	000.5800	0098.5	053.7	39.95
337.0	000.4200	0035.7	008.8	146.4	000.5800	0098.6	053.7	39.95
338.0	000.4200	0035.8	008.8	146.3	000.5800	0098.7	053.7	39.95
339.0	000.4200	0035.7	008.8	146.1	000.5800	0098.8	053.7	39.94
340.0	000.4200	0035.9	008.9	145.9	000.5800	0098.9	053.8	39.95
341.0	000.4200	0036.2	008.9	145.8	000.5800	0099.0	053.8	39.95
342.0	000.4200	0036.3	008.9	145.6	000.5800	0099.1	053.8	39.95
343.0	000.4200	0036.4	008.9	145.4	000.5800	0099.2	053.8	39.94
344.0	000.4200	0036.6	008.9	145.3	000.5800	0099.3	053.8	39.94
345.0	000.4200	0036.6	008.9	145.1	000.5800	0099.4	053.9	39.93
346.0	000.4200	0036.7	009.0	145.0	000.5800	0099.5	053.9	39.91
347.0	000.4200	0036.7	009.0	144.8	000.5800	0099.5	054.0	39.90
348.0	000.4200	0036.7	009.0	144.7	000.5800	0099.5	054.1	39.87
349.0	000.4200	0036.7	009.0	144.5	000.5800	0099.4	054.1	39.85
350.0	000.4200	0036.7	009.0	144.3	000.5800	0099.4	054.2	39.82
351.0	000.4200	0036.8	009.0	144.2	000.5800	0099.4	054.2	39.79
352.0	000.4200	0036.9	009.0	144.0	000.5800	0099.3	054.3	39.77
353.0	000.4200	0037.0	009.0	143.9	000.5800	0099.2	054.4	39.73
354.0	000.4200	0037.1	009.0	143.7	000.5800	0099.0	054.4	39.70
355.0	000.4200	0037.2	009.0	143.6	000.5800	0098.9	054.5	39.66
356.0	000.4200	0037.3	009.0	143.4	000.5800	0098.8	054.6	39.63
357.0	000.4200	0037.4	009.0	143.3	000.5800	0098.8	054.6	39.60
358.0	000.4200	0037.5	009.1	143.2	000.5800	0098.7	054.7	39.56
359.0	000.4200	0037.5	009.1	143.0	000.5800	0098.6	054.8	39.52
000.0	000.4200	0037.3	009.0	142.9	000.5800	0098.6	054.9	39.48
001.0	000.4200	0037.2	009.0	142.8	000.5800	0098.5	055.0	39.44
002.0	000.4200	0037.2	009.0	142.7	000.5800	0098.5	055.1	39.39
003.0	000.4200	0037.1	009.0	142.5	000.5800	0098.4	055.2	39.35
004.0	000.4200	0037.1	009.0	142.4	000.5800	0098.3	055.3	39.30

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

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

08-17-2021 Terrain Data: NED 03 SEC FMOver Analysis

WRTX BLED19950418KB	CH219A.P
Channel = 219A	Channel = 219A
Max ERP = 0.58 kW	Max ERP = 0.42 kW
RCAMSL = 104 m	RCAMSL = 38.1 m
N. Lat. 39 12 03.40	N. Lat. 38 43 30.00
W. Lng. 75 33 53.70	W. Lng. 75 10 57.00
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)
103.0	000.5800	0100.2	016.0	340.6	000.4200	0036.1	052.3	32.66	
104.0	000.5800	0100.0	016.0	340.4	000.4200	0036.1	052.1	32.70	
105.0	000.5800	0100.1	016.0	340.3	000.4200	0036.0	051.8	32.75	
106.0	000.5800	0100.1	016.0	340.1	000.4200	0035.9	051.6	32.80	
107.0	000.5800	0100.0	016.0	339.9	000.4200	0035.9	051.4	32.84	
108.0	000.5800	0099.8	016.0	339.7	000.4200	0035.8	051.2	32.88	
109.0	000.5800	0099.9	016.0	339.5	000.4200	0035.8	050.9	32.92	
110.0	000.5800	0100.0	016.0	339.3	000.4200	0035.7	050.7	32.97	
111.0	000.5800	0100.3	016.0	339.1	000.4200	0035.7	050.5	33.03	
112.0	000.5800	0100.3	016.0	338.9	000.4200	0035.7	050.3	33.08	
113.0	000.5800	0100.4	016.0	338.7	000.4200	0035.8	050.1	33.13	
114.0	000.5800	0100.6	016.1	338.5	000.4200	0035.8	049.9	33.18	
115.0	000.5800	0100.6	016.1	338.2	000.4200	0035.8	049.7	33.23	
116.0	000.5800	0100.7	016.1	338.0	000.4200	0035.8	049.5	33.28	
117.0	000.5800	0100.4	016.0	337.7	000.4200	0035.8	049.3	33.33	
118.0	000.5800	0100.3	016.0	337.5	000.4200	0035.8	049.1	33.36	
119.0	000.5800	0100.0	016.0	337.2	000.4200	0035.7	049.0	33.39	
120.0	000.5800	0099.5	016.0	336.9	000.4200	0035.7	048.9	33.42	
121.0	000.5800	0099.2	015.9	336.6	000.4200	0035.7	048.7	33.45	
122.0	000.5800	0099.1	015.9	336.3	000.4200	0035.7	048.6	33.48	
123.0	000.5800	0098.7	015.9	336.1	000.4200	0035.7	048.4	33.51	
124.0	000.5800	0098.4	015.9	335.8	000.4200	0035.7	048.3	33.54	
125.0	000.5800	0098.3	015.8	335.5	000.4200	0035.7	048.2	33.57	
126.0	000.5800	0098.3	015.8	335.2	000.4200	0035.7	048.1	33.61	
127.0	000.5800	0097.9	015.8	334.9	000.4200	0035.7	048.0	33.63	
128.0	000.5800	0097.6	015.8	334.6	000.4200	0035.7	047.9	33.65	
129.0	000.5800	0097.6	015.8	334.3	000.4200	0035.7	047.7	33.68	
130.0	000.5800	0097.5	015.8	334.0	000.4200	0035.7	047.6	33.70	
131.0	000.5800	0097.5	015.8	333.7	000.4200	0035.6	047.5	33.72	
132.0	000.5800	0097.5	015.8	333.3	000.4200	0035.4	047.4	33.71	
133.0	000.5800	0097.6	015.8	333.0	000.4200	0035.3	047.3	33.71	
134.0	000.5800	0097.6	015.8	332.7	000.4200	0035.2	047.2	33.72	
135.0	000.5800	0097.4	015.8	332.4	000.4200	0035.2	047.2	33.73	

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

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)
136.0	000.5800	0097.2	015.7	332.1	000.4200	0035.1	047.1	33.74
137.0	000.5800	0096.9	015.7	331.7	000.4200	0035.1	047.1	33.74
138.0	000.5800	0097.0	015.7	331.4	000.4200	0035.0	047.0	33.75
139.0	000.5800	0097.2	015.7	331.1	000.4200	0035.1	046.9	33.78
140.0	000.5800	0097.6	015.8	330.8	000.4200	0035.0	046.8	33.79
141.0	000.5800	0098.1	015.8	330.5	000.4200	0035.0	046.7	33.81
142.0	000.5800	0098.1	015.8	330.1	000.4200	0035.0	046.7	33.83
143.0	000.5800	0098.6	015.9	329.8	000.4200	0035.0	046.6	33.84
144.0	000.5800	0099.3	015.9	329.5	000.4200	0035.0	046.5	33.86
145.0	000.5800	0099.5	016.0	329.1	000.4200	0035.0	046.5	33.87
146.0	000.5800	0098.9	015.9	328.8	000.4200	0034.9	046.5	33.85
147.0	000.5800	0098.4	015.9	328.4	000.4200	0034.9	046.5	33.84
148.0	000.5800	0097.8	015.8	328.1	000.4200	0034.8	046.6	33.82
149.0	000.5800	0097.1	015.7	327.7	000.4200	0034.8	046.7	33.79
150.0	000.5800	0096.6	015.7	327.4	000.4200	0034.8	046.7	33.77
151.0	000.5800	0096.3	015.7	327.1	000.4200	0034.7	046.8	33.75
152.0	000.5800	0095.8	015.6	326.8	000.4200	0034.6	046.8	33.71
153.0	000.5800	0095.7	015.6	326.4	000.4200	0034.5	046.9	33.69
154.0	000.5800	0095.4	015.6	326.1	000.4200	0034.5	047.0	33.67
155.0	000.5800	0094.8	015.5	325.8	000.4200	0034.5	047.1	33.64
156.0	000.5800	0094.1	015.4	325.5	000.4200	0034.4	047.2	33.60
157.0	000.5800	0093.2	015.4	325.2	000.4200	0034.4	047.3	33.57
158.0	000.5800	0092.9	015.3	324.9	000.4200	0034.4	047.4	33.54
159.0	000.5800	0092.5	015.3	324.6	000.4200	0034.3	047.5	33.51
160.0	000.5800	0092.7	015.3	324.2	000.4200	0034.3	047.5	33.49
161.0	000.5800	0092.8	015.3	323.9	000.4200	0034.4	047.6	33.48
162.0	000.5800	0092.4	015.3	323.6	000.4200	0034.4	047.7	33.47
163.0	000.5800	0092.3	015.3	323.3	000.4200	0034.5	047.8	33.46
164.0	000.5800	0092.3	015.3	323.0	000.4200	0034.5	047.9	33.43
165.0	000.5800	0092.5	015.3	322.7	000.4200	0034.4	048.0	33.40
166.0	000.5800	0092.4	015.3	322.5	000.4200	0034.4	048.1	33.37
167.0	000.5800	0092.2	015.3	322.2	000.4200	0034.3	048.2	33.33
168.0	000.5800	0092.1	015.3	321.9	000.4200	0034.2	048.4	33.27
169.0	000.5800	0091.8	015.2	321.6	000.4200	0034.0	048.5	33.22
170.0	000.5800	0091.4	015.2	321.4	000.4200	0033.9	048.7	33.15
171.0	000.5800	0091.1	015.2	321.1	000.4200	0033.8	048.8	33.11
172.0	000.5800	0090.8	015.1	320.9	000.4200	0033.8	049.0	33.07
173.0	000.5800	0090.6	015.1	320.6	000.4200	0033.8	049.1	33.03
174.0	000.5800	0090.5	015.1	320.4	000.4200	0033.8	049.3	32.99
175.0	000.5800	0090.3	015.1	320.1	000.4200	0033.7	049.4	32.95
176.0	000.5800	0090.1	015.1	319.9	000.4200	0033.7	049.6	32.90
177.0	000.5800	0089.8	015.0	319.7	000.4200	0033.7	049.8	32.86
178.0	000.5800	0089.7	015.0	319.4	000.4200	0033.7	050.0	32.82
179.0	000.5800	0089.4	015.0	319.2	000.4200	0033.8	050.2	32.79
180.0	000.5800	0089.2	015.0	319.0	000.4200	0033.9	050.3	32.76
181.0	000.5800	0089.1	015.0	318.8	000.4200	0034.0	050.5	32.73

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

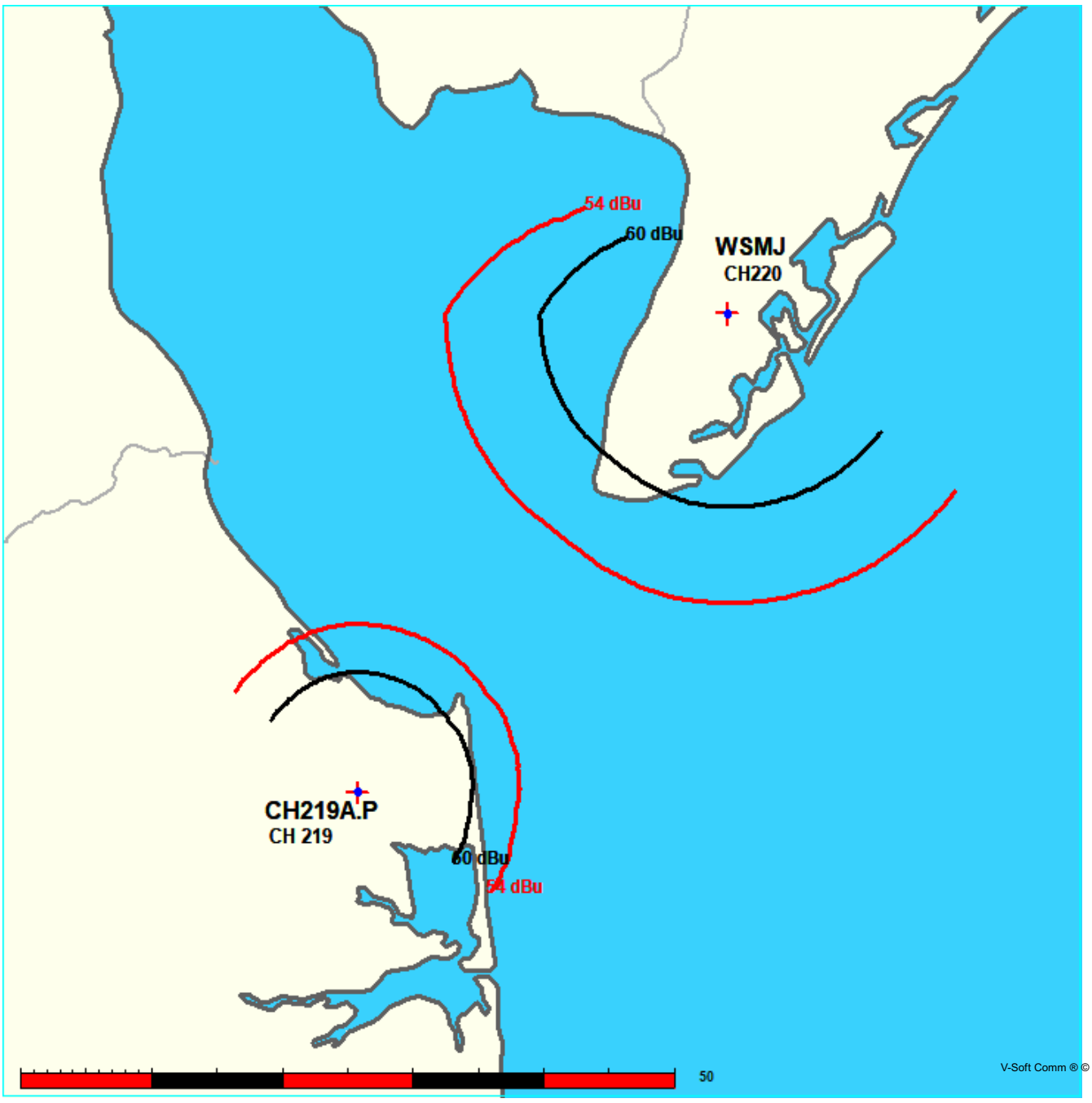
Exhibit 7b
Contour Protection Studies Toward Select Allocation Concern(s)

Bible Broadcasting Network, Inc.

FMCommander Single Allocation Study - 08-17-2021 - NED 03 SEC
CH219A.P's Overlaps (In= 15.79 km, Out= 19.21 km)

CH219A.P CH 219 A
Lat= 38 43 30.00, Lng= 75 10 57.00
0.42 kW 33.6 m HAAT, 38.1 m COR
Prot.= 60 dBu, Intef.= 54 dBu

WSMJ CH 220 A 73.215 Z BLED20130204AAR
Lat= 39 02 58.00, Lng= 74 51 13.00
0.75 kW 0 m HAAT, 74.7 m COR
Prot.= 60 dBu, Intef.= 54 dBu



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

Exhibit 7b

Contour Protection Studies Toward Select Allocation Concern(s)

08-17-2021 Terrain Data: NED 03 SEC FMOver Analysis

CH219A.P	WSMJ BLED20130204AAR
Channel = 219A	Channel = 220A
Max ERP = 0.42 kW	Max ERP = 0.75 kW
RCAMSL = 38.1 m	RCAMSL = 74.7 m
N. Lat. 38 43 30.00	N. Lat. 39 02 58.00
W. Lng. 75 10 57.00	W. Lng. 74 51 13.00
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)
358.0	000.4200	0037.5	009.1	226.9	000.7500	0071.3	039.5	43.92	
359.0	000.4200	0037.5	009.1	226.7	000.7500	0071.2	039.3	43.96	
000.0	000.4200	0037.3	009.0	226.6	000.7500	0071.2	039.2	43.99	
001.0	000.4200	0037.2	009.0	226.4	000.7500	0071.1	039.1	44.03	
002.0	000.4200	0037.2	009.0	226.2	000.7500	0071.1	039.0	44.07	
003.0	000.4200	0037.1	009.0	226.0	000.7500	0071.1	038.9	44.11	
004.0	000.4200	0037.1	009.0	225.9	000.7500	0071.1	038.8	44.15	
005.0	000.4200	0037.1	009.0	225.7	000.7500	0071.0	038.7	44.19	
006.0	000.4200	0037.1	009.0	225.5	000.7500	0071.0	038.6	44.23	
007.0	000.4200	0037.1	009.0	225.3	000.7500	0071.0	038.5	44.27	
008.0	000.4200	0037.2	009.0	225.2	000.7500	0071.0	038.4	44.30	
009.0	000.4200	0037.2	009.0	225.0	000.7500	0071.0	038.3	44.34	
010.0	000.4200	0037.1	009.0	224.8	000.7500	0070.9	038.2	44.37	
011.0	000.4200	0037.1	009.0	224.6	000.7500	0071.0	038.2	44.41	
012.0	000.4200	0037.1	009.0	224.4	000.7500	0070.9	038.1	44.43	
013.0	000.4200	0037.0	009.0	224.2	000.7500	0070.9	038.0	44.46	
014.0	000.4200	0037.0	009.0	223.9	000.7500	0070.8	037.9	44.49	
015.0	000.4200	0036.9	009.0	223.7	000.7500	0070.8	037.9	44.51	
016.0	000.4200	0036.8	009.0	223.5	000.7500	0070.8	037.8	44.53	
017.0	000.4200	0036.8	009.0	223.3	000.7500	0070.7	037.7	44.56	
018.0	000.4200	0036.9	009.0	223.1	000.7500	0070.6	037.6	44.58	
019.0	000.4200	0036.8	009.0	222.9	000.7500	0070.6	037.6	44.60	
020.0	000.4200	0036.9	009.0	222.7	000.7500	0070.5	037.5	44.62	
021.0	000.4200	0036.9	009.0	222.4	000.7500	0070.5	037.5	44.64	
022.0	000.4200	0036.8	009.0	222.2	000.7500	0070.4	037.4	44.65	
023.0	000.4200	0036.8	009.0	222.0	000.7500	0070.4	037.4	44.67	
024.0	000.4200	0036.8	009.0	221.8	000.7500	0070.4	037.3	44.69	
025.0	000.4200	0036.8	009.0	221.5	000.7500	0070.3	037.3	44.70	
026.0	000.4200	0036.7	009.0	221.3	000.7500	0070.3	037.2	44.71	
027.0	000.4200	0036.7	009.0	221.1	000.7500	0070.3	037.2	44.72	
028.0	000.4200	0036.7	009.0	220.8	000.7500	0070.3	037.2	44.74	

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)
029.0	000.4200	0036.8	009.0	220.6	000.7500	0070.3	037.1	44.75
030.0	000.4200	0036.7	009.0	220.3	000.7500	0070.3	037.1	44.77
031.0	000.4200	0036.8	009.0	220.1	000.7500	0070.3	037.1	44.78
032.0	000.4200	0036.8	009.0	219.9	000.7500	0070.3	037.0	44.79
033.0	000.4200	0036.7	009.0	219.6	000.7500	0070.3	037.0	44.79
034.0	000.4200	0036.6	009.0	219.4	000.7500	0070.3	037.0	44.79
035.0	000.4200	0036.7	009.0	219.1	000.7500	0070.3	037.0	44.80
036.0	000.4200	0036.7	009.0	218.9	000.7500	0070.3	037.0	44.81
037.0	000.4200	0036.6	009.0	218.7	000.7500	0070.3	037.0	44.81
038.0	000.4200	0036.6	009.0	218.4	000.7500	0070.4	037.0	44.82
039.0	000.4200	0036.5	008.9	218.2	000.7500	0070.4	037.0	44.81
040.0	000.4200	0036.5	008.9	217.9	000.7500	0070.4	037.0	44.82
041.0	000.4200	0036.5	008.9	217.7	000.7500	0070.5	037.0	44.82
042.0	000.4200	0036.2	008.9	217.5	000.7500	0070.5	037.1	44.80
043.0	000.4200	0036.0	008.9	217.2	000.7500	0070.4	037.1	44.78
044.0	000.4200	0035.8	008.8	217.0	000.7500	0070.4	037.2	44.76
045.0	000.4200	0035.7	008.8	216.8	000.7500	0070.4	037.2	44.74
046.0	000.4200	0035.6	008.8	216.5	000.7500	0070.4	037.2	44.73
047.0	000.4200	0035.6	008.8	216.3	000.7500	0070.4	037.3	44.72
048.0	000.4200	0035.7	008.8	216.1	000.7500	0070.4	037.3	44.71
049.0	000.4200	0035.8	008.8	215.8	000.7500	0070.5	037.3	44.70
050.0	000.4200	0035.8	008.8	215.6	000.7500	0070.5	037.3	44.69
051.0	000.4200	0035.6	008.8	215.4	000.7500	0070.5	037.4	44.67
052.0	000.4200	0035.5	008.8	215.2	000.7500	0070.6	037.5	44.65
053.0	000.4200	0035.5	008.8	214.9	000.7500	0070.6	037.5	44.64
054.0	000.4200	0035.4	008.8	214.7	000.7500	0070.6	037.6	44.61
055.0	000.4200	0035.6	008.8	214.5	000.7500	0070.6	037.6	44.60
056.0	000.4200	0035.9	008.9	214.2	000.7500	0070.6	037.6	44.59
057.0	000.4200	0036.4	008.9	214.0	000.7500	0070.6	037.6	44.58
058.0	000.4200	0036.3	008.9	213.8	000.7500	0070.6	037.7	44.56
059.0	000.4200	0036.3	008.9	213.6	000.7500	0070.6	037.8	44.53
060.0	000.4200	0036.5	008.9	213.3	000.7500	0070.6	037.8	44.51
061.0	000.4200	0036.6	009.0	213.1	000.7500	0070.7	037.9	44.50
062.0	000.4200	0036.6	008.9	212.9	000.7500	0070.7	037.9	44.47
063.0	000.4200	0036.5	008.9	212.7	000.7500	0070.8	038.0	44.44
064.0	000.4200	0036.4	008.9	212.5	000.7500	0070.8	038.1	44.40
065.0	000.4200	0036.2	008.9	212.3	000.7500	0070.8	038.2	44.36
066.0	000.4200	0036.1	008.9	212.2	000.7500	0070.8	038.3	44.32
067.0	000.4200	0036.1	008.9	212.0	000.7500	0070.8	038.4	44.29
068.0	000.4200	0036.1	008.9	211.8	000.7500	0070.8	038.5	44.26
069.0	000.4200	0036.1	008.9	211.6	000.7500	0070.8	038.6	44.22
070.0	000.4200	0035.9	008.9	211.4	000.7500	0070.8	038.7	44.17
071.0	000.4200	0035.7	008.8	211.3	000.7500	0070.9	038.8	44.12
072.0	000.4200	0035.7	008.8	211.1	000.7500	0070.9	038.9	44.09
073.0	000.4200	0035.7	008.8	210.9	000.7500	0070.9	039.0	44.05
074.0	000.4200	0035.7	008.8	210.8	000.7500	0070.9	039.1	44.01

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

08-17-2021 Terrain Data: NED 03 SEC FMOver Analysis

WSMJ BLED20130204AAR	CH219A.P
Channel = 220A	Channel = 219A
Max ERP = 0.75 kW	Max ERP = 0.42 kW
RCAMSL = 74.7 m	RCAMSL = 38.1 m
N. Lat. 39 02 58.00	N. Lat. 38 43 30.00
W. Lng. 74 51 13.00	W. Lng. 75 10 57.00
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)
173.0	000.7500	0074.6	014.6	054.4	000.4200	0035.5	037.2	36.85	
174.0	000.7500	0074.6	014.6	054.2	000.4200	0035.5	037.0	36.92	
175.0	000.7500	0074.5	014.6	054.0	000.4200	0035.4	036.7	36.99	
176.0	000.7500	0074.5	014.6	053.8	000.4200	0035.4	036.5	37.06	
177.0	000.7500	0074.5	014.6	053.6	000.4200	0035.4	036.3	37.14	
178.0	000.7500	0074.4	014.6	053.3	000.4200	0035.4	036.1	37.22	
179.0	000.7500	0074.5	014.6	053.1	000.4200	0035.5	035.9	37.31	
180.0	000.7500	0074.5	014.6	052.9	000.4200	0035.5	035.7	37.40	
181.0	000.7500	0074.5	014.6	052.6	000.4200	0035.5	035.5	37.47	
182.0	000.7500	0074.5	014.6	052.3	000.4200	0035.5	035.3	37.54	
183.0	000.7500	0074.5	014.6	052.1	000.4200	0035.5	035.1	37.61	
184.0	000.7500	0074.5	014.6	051.8	000.4200	0035.5	034.9	37.69	
185.0	000.7500	0074.4	014.6	051.5	000.4200	0035.6	034.7	37.77	
186.0	000.7500	0074.5	014.6	051.2	000.4200	0035.6	034.5	37.84	
187.0	000.7500	0074.5	014.6	050.9	000.4200	0035.6	034.4	37.92	
188.0	000.7500	0074.5	014.6	050.6	000.4200	0035.6	034.2	37.99	
189.0	000.7500	0074.5	014.6	050.3	000.4200	0035.7	034.0	38.07	
190.0	000.7500	0074.4	014.6	050.0	000.4200	0035.8	033.8	38.15	
191.0	000.7500	0074.4	014.6	049.6	000.4200	0035.8	033.7	38.22	
192.0	000.7500	0074.3	014.6	049.3	000.4200	0035.8	033.5	38.28	
193.0	000.7500	0074.3	014.6	048.9	000.4200	0035.8	033.4	38.33	
194.0	000.7500	0074.2	014.5	048.6	000.4200	0035.7	033.2	38.37	
195.0	000.7500	0074.1	014.5	048.2	000.4200	0035.8	033.1	38.43	
196.0	000.7500	0074.0	014.5	047.8	000.4200	0035.7	033.0	38.48	
197.0	000.7500	0073.9	014.5	047.4	000.4200	0035.7	032.9	38.51	
198.0	000.7500	0073.8	014.5	047.0	000.4200	0035.6	032.7	38.55	
199.0	000.7500	0073.7	014.5	046.6	000.4200	0035.6	032.6	38.58	
200.0	000.7500	0073.2	014.5	046.2	000.4200	0035.6	032.6	38.61	
201.0	000.7500	0072.9	014.4	045.8	000.4200	0035.6	032.5	38.65	
202.0	000.7500	0072.8	014.4	045.4	000.4200	0035.6	032.4	38.68	
203.0	000.7500	0072.5	014.4	045.0	000.4200	0035.7	032.3	38.74	
204.0	000.7500	0072.2	014.4	044.5	000.4200	0035.8	032.2	38.78	
205.0	000.7500	0072.3	014.4	044.1	000.4200	0035.8	032.1	38.82	

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

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)
206.0	000.7500	0072.4	014.4	043.7	000.4200	0035.8	032.1	38.87
207.0	000.7500	0072.2	014.4	043.3	000.4200	0035.9	032.0	38.91
208.0	000.7500	0071.7	014.3	042.8	000.4200	0036.0	032.0	38.94
209.0	000.7500	0071.4	014.3	042.3	000.4200	0036.1	031.9	38.97
210.0	000.7500	0071.1	014.2	041.9	000.4200	0036.2	031.9	39.00
211.0	000.7500	0070.9	014.2	041.5	000.4200	0036.3	031.9	39.04
212.0	000.7500	0070.8	014.2	041.0	000.4200	0036.5	031.9	39.09
213.0	000.7500	0070.7	014.2	040.6	000.4200	0036.5	031.8	39.12
214.0	000.7500	0070.6	014.2	040.1	000.4200	0036.5	031.8	39.12
215.0	000.7500	0070.6	014.2	039.7	000.4200	0036.5	031.8	39.12
216.0	000.7500	0070.4	014.2	039.2	000.4200	0036.5	031.8	39.12
217.0	000.7500	0070.4	014.2	038.8	000.4200	0036.5	031.8	39.13
218.0	000.7500	0070.4	014.2	038.3	000.4200	0036.6	031.8	39.15
219.0	000.7500	0070.3	014.2	037.9	000.4200	0036.6	031.8	39.15
220.0	000.7500	0070.3	014.2	037.4	000.4200	0036.6	031.8	39.15
221.0	000.7500	0070.3	014.2	037.0	000.4200	0036.6	031.8	39.15
222.0	000.7500	0070.4	014.2	036.6	000.4200	0036.7	031.8	39.15
223.0	000.7500	0070.6	014.2	036.1	000.4200	0036.7	031.8	39.15
224.0	000.7500	0070.8	014.2	035.7	000.4200	0036.7	031.8	39.15
225.0	000.7500	0071.0	014.2	035.2	000.4200	0036.7	031.8	39.14
226.0	000.7500	0071.1	014.2	034.8	000.4200	0036.7	031.9	39.12
227.0	000.7500	0071.3	014.3	034.3	000.4200	0036.6	031.9	39.10
228.0	000.7500	0071.6	014.3	033.9	000.4200	0036.6	031.9	39.09
229.0	000.7500	0071.8	014.3	033.4	000.4200	0036.7	032.0	39.08
230.0	000.7500	0072.0	014.3	033.0	000.4200	0036.7	032.0	39.07
231.0	000.7500	0072.1	014.4	032.6	000.4200	0036.8	032.1	39.06
232.0	000.7500	0072.4	014.4	032.1	000.4200	0036.8	032.2	39.04
233.0	000.7500	0072.6	014.4	031.7	000.4200	0036.8	032.2	39.01
234.0	000.7500	0072.7	014.4	031.3	000.4200	0036.8	032.3	38.98
235.0	000.7500	0072.8	014.4	030.9	000.4200	0036.8	032.4	38.94
236.0	000.7500	0073.0	014.4	030.4	000.4200	0036.8	032.5	38.89
237.0	000.7500	0073.0	014.4	030.0	000.4200	0036.7	032.6	38.84
238.0	000.7500	0072.9	014.4	029.7	000.4200	0036.7	032.7	38.79
239.0	000.7500	0072.8	014.4	029.3	000.4200	0036.7	032.9	38.74
240.0	000.7500	0072.9	014.4	028.9	000.4200	0036.8	033.0	38.70
241.0	000.7500	0073.0	014.4	028.5	000.4200	0036.8	033.1	38.65
242.0	000.7500	0073.1	014.4	028.1	000.4200	0036.7	033.2	38.59
243.0	000.7500	0073.2	014.5	027.8	000.4200	0036.7	033.4	38.53
244.0	000.7500	0073.3	014.5	027.4	000.4200	0036.7	033.5	38.47
245.0	000.7500	0073.3	014.5	027.1	000.4200	0036.7	033.7	38.42
246.0	000.7500	0073.4	014.5	026.7	000.4200	0036.7	033.8	38.37
247.0	000.7500	0073.4	014.5	026.4	000.4200	0036.7	034.0	38.31
248.0	000.7500	0073.5	014.5	026.1	000.4200	0036.7	034.1	38.24
249.0	000.7500	0073.5	014.5	025.8	000.4200	0036.7	034.3	38.18

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

Exhibit 8
Tabulation of Proposed Commercial Spacings

Bible Broadcasting Network, Inc.

REFERENCE
38 43 30.00 N.
75 10 57.00 W.

CLASS = A Int = A
Current Spacings to 3rd Adj.

DISPLAY DATES
DATA 08-17-21
SEARCH 08-17-21

Channel 219 - 91.7 MHz

Call	Channel		Location		Azi	Dist	FCC	Margin
WOWZ-LP	APP	06N--	Salisbury	MD	194.0	38.71	158.5	-119.8
WOWZ-LP	LI	06Z--	Salisbury	MD	194.0	38.71	158.5	-119.8
WOWZ-LP	APP	06Z--	Salisbury	MD	194.1	38.72	158.5	-119.8
WDCO-LP/W	CP	06Z--	Salisbury	MD	188.6	40.80	158.5	-117.7
WRTX	LIC	219A	Dover	DE	328.1	62.37	114.5	-52.1
WSMJ	LIC-Z	220A	North Wildwood	NJ	38.2	45.95	71.5	-25.6
WLFR	LIC	219A	Pomona	NJ	33.4	100.29	114.5	-14.2
WPVI-TV	LI	06 1C	Philadelphia	PA	358.0	146.36	158.5	-12.1
WPVI-TV-A	CHA-D	6 --	Philadelphia	PA	358.0	146.37	158.5	-12.1
WPVI-TV	STA	06 1C	Philadelphia	PA	358.1	146.53	158.5	-12.0
WPVI-TV	APP	06 1C	Philadelphia	PA	358.1	146.53	158.5	-12.0
WLBW	LIC	221A	Fenwick Island	DE	173.6	33.80	30.5	3.3
WESM	LIC	217B	Princess Anne	MD	217.4	71.84	68.5	3.3
WMPH	LIC-D	219A	Wilmington	DE	346.6	119.68	114.5	5.2
WDCN-LP	APP	06N--	Fairfax	VA	277.0	170.66	158.5	12.2
WDCN-LP	LI -D	06Z--	Fairfax	VA	277.0	170.66	158.5	12.2
WDCN-LP	APP-D	06Z--	Fairfax	VA	277.0	170.66	158.5	12.2
WDDE	LIC	216A	Dover	DE	318.9	42.72	30.5	12.2
WXHM	LIC-Z	220A	Middletown	DE	329.9	92.48	71.5	21.0
WZWG	LIC	219A	West Grove	PA	333.0	137.08	114.5	22.6
WZWG	CP -D	219A	West Grove	PA	333.0	137.08	114.5	22.6
WKDU	LIC-D	219A	Philadelphia	PA	359.7	137.12	114.5	22.6
WCUR	LIC-D	219A	West Chester	PA	345.4	140.73	114.5	26.2
WRTQ	LIC-D	217B1	Ocean City	NJ	28.1	75.10	47.5	27.6
WAIV	LIC	272A	Cape May	NJ	46.9	43.74	9.5	34.2

All separation margins include rounding

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