

MINOR CHANGE APPLICATION
POSITIVE ALTERNATIVE RADIO, INC.
WJYJ (FM) RADIO STATION
CH 213B - 90.5 MHZ - 47.0 KW (DA)
FREDERICKSBURG, VIRGINIA
April 2012

EXHIBIT A

Non-Commercial Allocation Analysis & Section 73.509 Study

Because of its operating channel, the proposed WJYJ facility at Fredericksburg, Virginia potentially impacts other authorized or proposed non-commercial stations operating on co- or adjacent FM channels. The detailed list of stations reviewed as potentially impacted by Channel 213B at Fredericksburg, Virginia is shown on Exhibit A1. The five closest (nearby) stations/facilities reviewed are WDCE, Channel 211A, Richmond, Virginia (license and permit); WHCE, Channel 216A, Highland Springs, Virginia; WXTR, Channel 210A, Tappahannock, Virginia; the permit for a new FM on Channel 212B1, California, Maryland ("new FM"); and the permit for WEQP, Channel 213A, Pamplin City, Virginia.¹ The provisions of §73.509 of the rules will be met by specifying less than maximum Class B facilities, using a directional antenna system and a requested "Raleigh" waiver.

Section 73.509 Review and Analysis

As demonstrated on Exhibit A2, the proposed WJYJ 60 dBu contour will extend beyond the transmitter sites for WDCE (license and permit) and WHCE. WDCE (license and permit) and WHCE operate on third adjacent channels from WJYJ. As such, the proposed WJYJ facility will theoretically receive interference from WDCE (license and permit) and WHCE, as their 100 dBu

1) The remainder of the stations listed on Exhibit A1 were reviewed for compliance with §73.509 of the rules and were found to be sufficiently removed so as to not be impacted by the proposed WJYJ facility.

interfering contours cross the protected 60 dBu contour of the proposed WJYJ. However, the proposed WJYJ will not deliver any interference to the protected contours of WDCE (license and permit) or WHCE. As shown on Exhibit A3, the populations within the portion of the WDCE and WHCE 100 dBu contours that are within the proposed WJYJ 60 dBu contour are substantially below 1.0% of the total population and less than 0.1% of the area (2010 Census data) within the proposed WJYJ 60 dBu contour. As a result, PAR respectfully requests a waiver of §73.509 of the rules to allow WJYJ to accept a minute amount of interference from both WDCE (license and permit) and WHCE. The amount of the received interference is within that previously waived for station WCPE, Raleigh, North Carolina. *See Educational Information Corporation*, 6 FCC Rcd 2207 (1991).

Compliance with §73.509

Exhibit A4 specifically demonstrates that there will be no interference delivered from the proposed WJYJ to WDCE (license and permit) or WHCE and no interference delivered to or received from WXTR, new FM or WEQP permit. Attached as Exhibits A5 through A13 are the tabulated distances to the protected and interfering contours, along pertinent arcs, of the respective facilities.¹ Attached as Exhibit A14 is a tabulation of the protected and interfering contours of the proposed WJYJ, in ten degree increments.

§73.207 Spacing Matters, Including I.F. Relationship

The nearest station operating on a frequency either 53 or 54 channels removed from this instant proposal is the transmitter site for station WWDC, Channel 266B, Washington, DC.

1) Tabulations of the licensed WDCE, permitted WDCE and WHCE 60 dBu contours versus the proposed WJYJ 100 dBu contour are not included.

The WWDC site is located on a bearing of 13.3° at a distance of 118.0 kilometers from the proposed WJYJ site. Pursuant to §73.207 of the rules, WJYJ must be a minimum of 20.0 kilometers from the WWDC site. The proposed WJYJ site is located more than 95.0 kilometers farther than the required distance. Therefore, this proposal does not impact any intermediate frequency stations.

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April 2012

EXHIBIT A1

Interference Review for WJYJ Fredericksburg, Virginia
Using Proposed Site as Reference

REFERENCE	CH# 213B - 90.5 MHZ, Pwr= 47 kW DA, HAAT= 124.6 M, COR= 174.7 M	DISPLAY DATES
37 57 56.0 N.	Average Protected F(50-50)= 48.1 km	DATA 04-18-12
77 22 19.0 W.	Standard Directional	SEARCH 04-18-12

CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT (M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
213B Fredericksburg	WJYJ	LIC	CX VA	0.0 0.0	0.00 BLED20120330AAD	37 57 56.0 77 22 19.0	26.000 125	120.7 175	44.4 Positive Alternative Radio	-170.4*	-178.8*
* 211A Richmond	WDCE	CP	DCX VA	199.0 18.9	45.97 BPED20091027AAG	37 34 26.6 77 32 32.2	2.500 29	1.6 90	12.7 University Of Richmond	-3.9*<	27.9
* 211A Richmond	WDCE	LIC	CN VA	199.4 19.3	45.37 BLED19820607BA	37 34 48.0 77 32 35.0	0.100 26	0.7 90	5.6 University Of Richmond	-3.7*<	34.3
* 216A Highland Springs	WHCE	LIC	HX VA	174.9 355.0	47.60 BLED20070914AAN	37 32 18.0 77 19 27.0	3.000 32	1.6 70	13.7 Henrico County Schools	-1.0<	28.7
212B1 California	NEW	CP	DCX MD	75.2 255.8	90.08 BNPED20071015ADL	38 10 04.0 76 22 40.0	8.900 61	39.1 64	25.2 Patuxent River Assembly Of	8.2	0.2
213A Pamplin City	WEQP	CP	DCX VA	234.3 53.5	144.14 BPED20100315ADO	37 12 07.0 78 41 31.0	0.320 125	51.3 296	15.4 Calvary Chapel Of Lynchbur	46.8	0.2
213A Pamplin City	WEQP	LIC	CX VA	234.3 53.5	144.14 BLED20100308AAO	37 12 07.0 78 41 31.0	0.080 125	37.0 296	10.9 Calvary Chapel Of Lynchbur	61.1	4.8
210A Tappahannock	WXTR	CP	DCX VA	100.0 280.4	57.61 BMPED20111123OEB	37 52 27.0 76 43 37.0	2.800 72	2.1 94	21.7 Action, Inc.	5.5	30.3
213B Williamsport	WCRH	LIC	CN MD	344.9 164.5	194.97 BLED19820129AE	39 39 34.0 77 57 56.0	10.000 268	123.7 463	51.6 Cedar Ridge Children's Hom	21.6	9.0
214B Harrisonburg	WMRA	LIC	CN VA	296.3 115.3	153.24 BLED19950105KE	38 33 50.0 78 57 00.0	10.500 318	88.0 852	59.0 James Madison University B	19.2	23.3
213B1 Worton	WKHS	LIC	CX MD	36.9 217.7	183.86 BLED20100119ABT	39 16 55.0 76 05 26.0	17.500 66	99.6 78	29.8 Board Of Education Of Kent	36.1	21.1
212B Norfolk	WHRO-FM	LIC	CX VA	148.9 329.5	149.66 BLED20111102AIC	36 48 31.0 76 30 13.0	8.800 350	76.6 353	51.9 Hampton Roads Educational	23.0	22.4
213A Norlina	WZRN	LIC	DCX NC	204.1 23.6	178.72 BLED20031029ADZ	36 29 38.0 78 11 23.0	2.300 91	71.2 186	22.4 Roanoke Valley Communicati	58.9	23.0

Terrain database is USGS 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 protected contour.

< = Station meets FCC minimum distance spacing for its class.

< = Contour Overlap

* See Exhibit A for details regarding this proposed interference and request for "Raleigh" waiver.

Graham Brock, Inc. - Broadcast Technical Consultants

WJYJ - Proposed
Latitude: 37-57-56 N
Longitude: 077-22-19 W
ERP: 47.00 kW
Channel: 213B
Frequency: 90.5 MHz
AMSL Height: 174.7 m

WHCE
BMLED-20070914AAN
Latitude: 37-32-18 N
Longitude: 077-19-27 W
ERP: 3.00 kW
Channel: 216A
Frequency: 91.1 MHz
AMSL Height: 70.0 m

WDCE
BLED-19820607BA
Latitude: 37-34-48 N
Longitude: 077-32-35 W
ERP: 0.10 kW
Channel: 211A
Frequency: 90.1 MHz
AMSL Height: 90.0 m

WDCE.C
BPED-20091027AAG
Latitude: 37-34-26.60 N
Longitude: 077-32-32.20 W
ERP: 2.50 kW
Channel: 211A
Frequency: 90.1 MHz
AMSL Height: 89.9 m

WHCE 60 dBu (50/50)

WDCE CP 60 dBu (50/50)

WDCE CP 100 dBu (50/10)

WDCE Lic 100 dBu (50/10)

WDCE Lic 60 dBu (50/50)

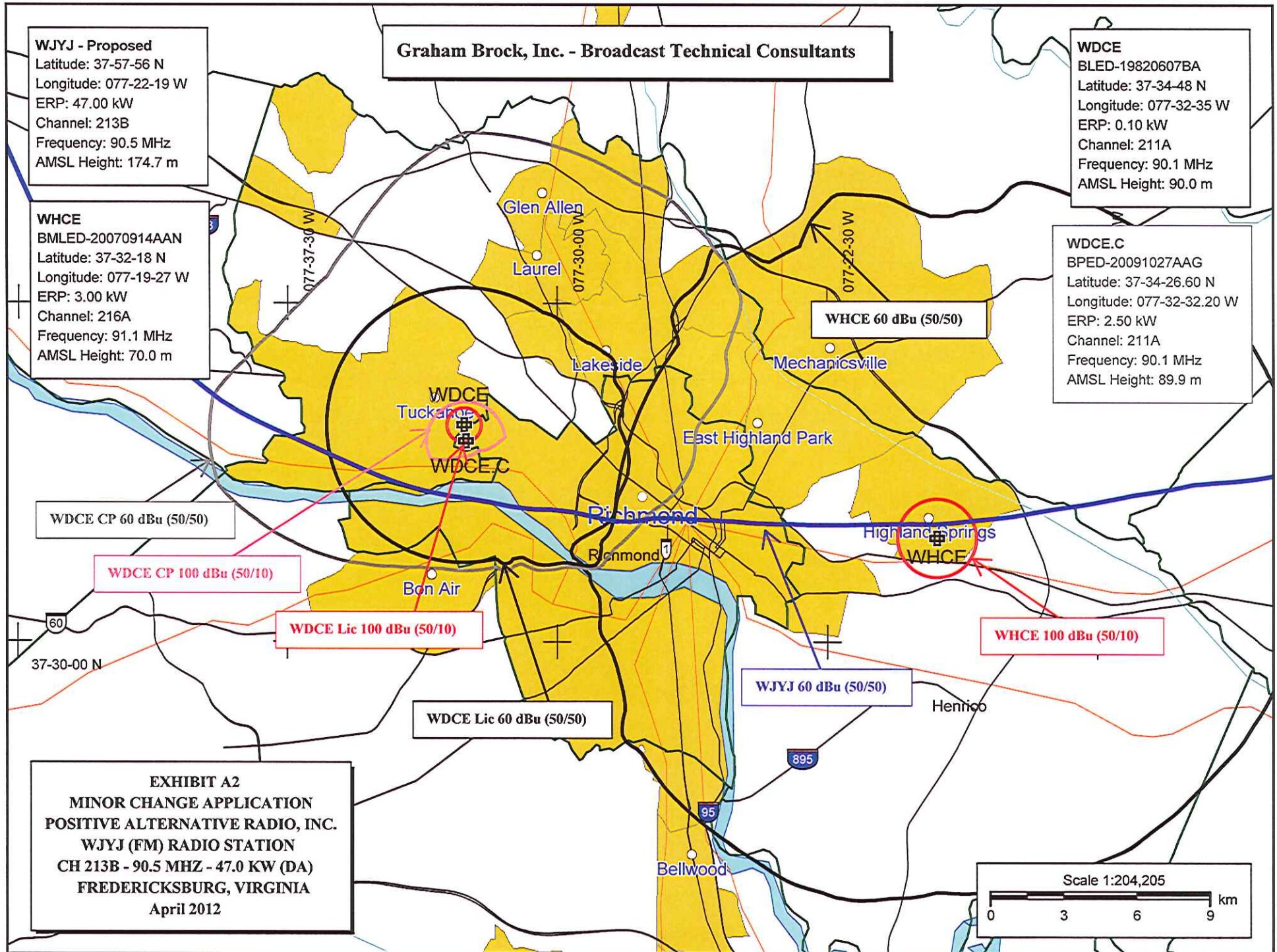
WJYJ 60 dBu (50/50)

WHCE 100 dBu (50/10)

EXHIBIT A2
MINOR CHANGE APPLICATION
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WJYJ (FM) RADIO STATION
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FREDERICKSBURG, VIRGINIA
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Scale 1:204,205

0 3 6 9 km



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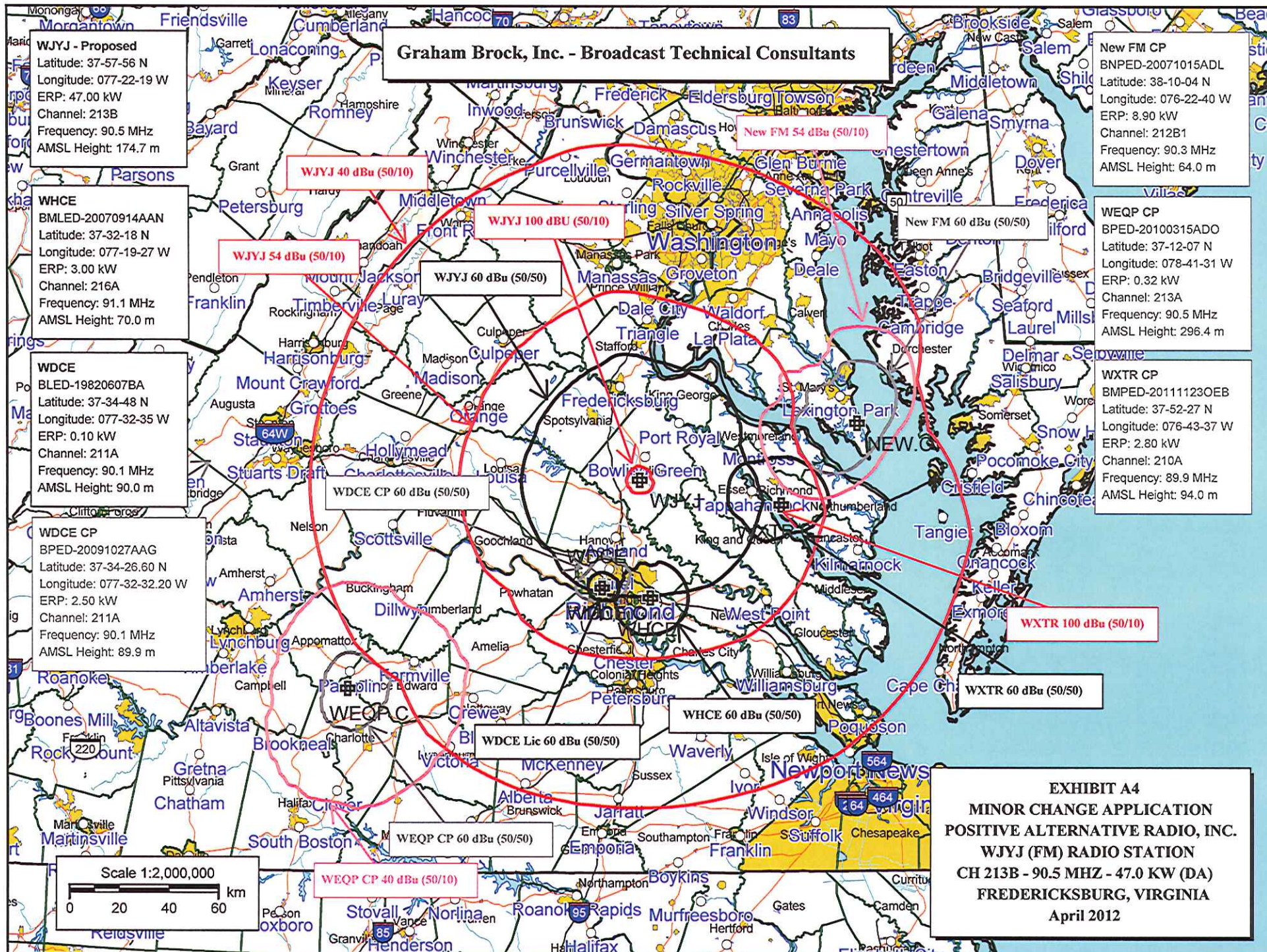
EXHIBIT A3

Population Within the Contours (2010 Census Data)

<u>Station</u>	<u>Contour</u>	<u>Population</u>	<u>Area in Sq. Km.</u>
WJYJ Proposed	60 dBu (50/50)	736,751	7,167.00
WJYJ Licensed ²	60 dBu (50/50)	504,676	5,838.50
Gain		232,075	1,328.50
WDCE License	100 dBu (50/10)	2,575	1.54
WDCE Permit	100 dBu (50/10)	6,275	5.68
WHCE License ³	100 dBu (50/10)	3,044	2.15

		<u>Population</u>	<u>Area</u>
WDCE License:	Interference as % of WJYJ proposed 60 dBu	0.4%	0.03%
WDCE Permit:	Interference as % of WJYJ proposed 60 dBu	0.3%	0.02%
WHCE License:	Interference as % of WJYJ proposed 60 dBu	0.9%	0.08%

-
- 2) Pending license application BLED-20120330AAD less minute area to the east containing 73 persons in 5.5 square kilometers not covered by proposed WJYJ directional pattern due to 2.0 db restriction.
- 3) The population and area in the portion of the 100 dBu contour of WHCE that is within the proposed WJYJ 60 dbu contour.



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EXHIBIT A5

WDCE - BLED-19820607BA
Channel = 211A
Max ERP = 0.1 kW
RCAMSL = 90 M
N. Lat = 37 34 48
W. Lng = 77 32 35

WJYJ - Proposed
Channel = 213B
Max ERP = 47 kW
RCAMSL = 174.7 M
N. Lat = 37 57 56
W. Lng = 77 22 19

Protected
60 dBu

Interfering
100 dBu

USGS 03 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
357.0	000.1000	0018.0	005.6	202.4	047.0000	0127.9	040.2	66.3
358.0	000.1000	0017.9	005.6	202.3	047.0000	0127.9	040.2	66.3
359.0	000.1000	0017.2	005.6	202.2	047.0000	0127.9	040.1	66.3
000.0	000.1000	0016.5	005.6	202.0	047.0000	0127.9	040.1	66.4
001.0	000.1000	0016.3	005.6	201.9	047.0000	0127.9	040.1	66.4
002.0	000.1000	0016.2	005.6	201.8	047.0000	0127.9	040.0	66.4
003.0	000.1000	0016.2	005.6	201.6	047.0000	0127.9	040.0	66.4
004.0	000.1000	0016.0	005.6	201.5	047.0000	0127.9	040.0	66.4
005.0	000.1000	0015.8	005.6	201.4	047.0000	0127.6	039.9	66.4
006.0	000.1000	0015.7	005.6	201.2	047.0000	0127.6	039.9	66.4
007.0	000.1000	0015.7	005.6	201.1	047.0000	0127.6	039.9	66.4
008.0	000.1000	0015.8	005.6	201.0	047.0000	0127.6	039.9	66.4
009.0	000.1000	0016.1	005.6	200.8	047.0000	0127.6	039.8	66.5
010.0	000.1000	0016.6	005.6	200.7	047.0000	0127.6	039.8	66.5
011.0	000.1000	0017.1	005.6	200.6	047.0000	0127.6	039.8	66.5
012.0	000.1000	0017.7	005.6	200.4	047.0000	0127.0	039.8	66.4
013.0	000.1000	0018.3	005.6	200.3	047.0000	0127.0	039.8	66.5
014.0	000.1000	0018.9	005.6	200.1	047.0000	0127.0	039.8	66.5
015.0	000.1000	0019.5	005.6	200.0	047.0000	0127.0	039.8	66.5
016.0	000.1000	0020.2	005.6	199.9	047.0000	0127.0	039.7	66.5
017.0	000.1000	0020.7	005.6	199.7	047.0000	0127.0	039.7	66.5
018.0	000.1000	0021.3	005.6	199.6	047.0000	0127.0	039.7	66.5
019.0	000.1000	0021.8	005.6	199.4	047.0000	0126.2	039.7	66.4
020.0	000.1000	0022.2	005.6	199.3	047.0000	0126.2	039.7	66.4
021.0	000.1000	0022.6	005.6	199.1	047.0000	0126.2	039.7	66.4
022.0	000.1000	0023.1	005.6	199.0	047.0000	0126.2	039.7	66.4
023.0	000.1000	0023.6	005.6	198.9	047.0000	0126.2	039.7	66.4
024.0	000.1000	0024.1	005.6	198.7	047.0000	0126.2	039.8	66.4
025.0	000.1000	0024.5	005.6	198.6	047.0000	0126.2	039.8	66.4
026.0	000.1000	0025.0	005.6	198.4	047.0000	0125.1	039.8	66.3
027.0	000.1000	0025.4	005.6	198.3	047.0000	0125.1	039.8	66.3
028.0	000.1000	0025.9	005.6	198.2	047.0000	0125.1	039.8	66.3
029.0	000.1000	0026.4	005.6	198.0	047.0000	0125.1	039.8	66.3
030.0	000.1000	0026.9	005.6	197.9	047.0000	0125.1	039.8	66.3
031.0	000.1000	0027.4	005.6	197.7	047.0000	0125.1	039.9	66.3
032.0	000.1000	0027.9	005.6	197.6	047.0000	0125.1	039.9	66.3
033.0	000.1000	0028.5	005.6	197.5	047.0000	0124.3	039.9	66.2
034.0	000.1000	0029.3	005.6	197.3	047.0000	0124.3	039.9	66.2

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EXHIBIT A6

WDCE.C - BPED-20091027AAG
Channel = 211A
Max ERP = 2.5 kW
RCAMSL = 89.9 M
N. Lat = 37 34 27
W. Lng = 77 32 32

WJYJ - Proposed
Channel = 213B
Max ERP = 47 kW
RCAMSL = 174.7 M
N. Lat = 37 57 56
W. Lng = 77 22 19

Protected
60 dBu

Interfering
100 dBu

USGS 03 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
000.0	002.5000	0015.0	012.7	205.9	047.0000	0128.1	034.2	69.1
001.0	002.5000	0014.9	012.7	205.6	047.0000	0128.1	034.1	69.2
002.0	002.5000	0014.8	012.7	205.2	047.0000	0128.0	034.1	69.2
003.0	002.5000	0014.6	012.7	204.9	047.0000	0128.0	034.0	69.2
004.0	002.5000	0014.4	012.7	204.6	047.0000	0128.0	033.9	69.3
005.0	002.5000	0014.4	012.7	204.2	047.0000	0127.9	033.8	69.3
006.0	002.5000	0014.4	012.7	203.9	047.0000	0127.9	033.7	69.3
007.0	002.5000	0014.5	012.7	203.5	047.0000	0128.0	033.7	69.4
008.0	002.5000	0014.8	012.7	203.1	047.0000	0128.0	033.6	69.4
009.0	002.5000	0015.4	012.7	202.8	047.0000	0128.0	033.6	69.4
010.0	002.5000	0016.0	012.7	202.4	047.0000	0127.9	033.5	69.4
011.0	002.5000	0016.7	012.7	202.0	047.0000	0127.9	033.5	69.5
012.0	002.5000	0017.3	012.7	201.7	047.0000	0127.9	033.4	69.5
013.0	002.5000	0017.9	012.7	201.3	047.0000	0127.6	033.4	69.5
014.0	002.5000	0018.6	012.7	200.9	047.0000	0127.6	033.4	69.5
015.0	002.5000	0019.3	012.7	200.5	047.0000	0127.6	033.3	69.5
016.0	002.5000	0020.0	012.7	200.2	047.0000	0127.0	033.3	69.5
017.0	002.5000	0020.6	012.7	199.8	047.0000	0127.0	033.3	69.5
018.0	002.5000	0021.1	012.7	199.4	047.0000	0126.2	033.3	69.4
019.0	002.5000	0021.8	012.7	199.0	047.0000	0126.2	033.3	69.4
020.0	002.5000	0022.3	012.7	198.6	047.0000	0126.2	033.3	69.4
021.0	002.5000	0022.9	012.7	198.3	047.0000	0125.1	033.3	69.4
022.0	002.5000	0023.5	012.7	197.9	047.0000	0125.1	033.3	69.4
023.0	002.5000	0024.0	012.7	197.5	047.0000	0125.1	033.3	69.4
024.0	002.5000	0024.5	012.7	197.1	047.0000	0124.3	033.4	69.3
025.0	002.5000	0025.0	012.7	196.8	047.0000	0124.3	033.4	69.3
026.0	002.5000	0025.5	012.7	196.4	047.0000	0123.8	033.4	69.2
027.0	002.5000	0026.0	012.7	196.0	047.0000	0123.8	033.5	69.2
028.0	002.5000	0026.6	012.7	195.6	047.0000	0123.8	033.5	69.2
029.0	002.5000	0027.1	012.7	195.3	047.0000	0123.0	033.6	69.1
030.0	002.5000	0027.7	012.7	194.9	047.0000	0123.0	033.6	69.1
031.0	002.5000	0028.2	012.7	194.5	047.0000	0123.0	033.7	69.1
032.0	002.5000	0029.0	012.7	194.2	047.0000	0121.6	033.7	68.9
033.0	002.5000	0029.7	012.7	193.8	047.0000	0121.6	033.8	68.9
034.0	002.5000	0030.3	012.7	193.5	047.0000	0120.9	033.8	68.8
035.0	002.5000	0030.7	012.8	193.1	047.0000	0120.9	033.9	68.8
036.0	002.5000	0031.0	012.8	192.7	047.0000	0120.9	033.9	68.8
037.0	002.5000	0031.2	012.9	192.3	047.0000	0120.9	034.0	68.8

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EXHIBIT A7

WHCE - BMLED-20070914AAN
Channel = 216A
Max ERP = 3 kW
RCAMSL = 70 M
N. Lat = 37 32 18
W. Lng = 77 19 27

WJYJ - Proposed
Channel = 213B
Max ERP = 47 kW
RCAMSL = 174.7 M
N. Lat = 37 57 56
W. Lng = 77 22 19

Protected
60 dBu

Interfering
100 dBu

USGS 03 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
343.0	003.0000	0037.4	014.6	180.1	047.0000	0116.3	033.4	68.7
344.0	003.0000	0037.7	014.7	179.7	047.0000	0116.3	033.3	68.8
345.0	003.0000	0037.5	014.6	179.3	047.0000	0116.2	033.3	68.8
346.0	003.0000	0037.1	014.5	178.8	047.0000	0116.2	033.3	68.8
347.0	003.0000	0036.7	014.5	178.4	047.0000	0116.3	033.3	68.8
348.0	003.0000	0036.3	014.4	177.9	047.0000	0116.3	033.4	68.8
349.0	003.0000	0036.0	014.3	177.5	047.0000	0116.4	033.4	68.8
350.0	003.0000	0035.6	014.3	177.0	047.0000	0116.4	033.4	68.8
351.0	003.0000	0035.2	014.2	176.6	047.0000	0116.4	033.5	68.7
352.0	003.0000	0034.7	014.1	176.2	047.0000	0116.7	033.5	68.7
353.0	003.0000	0034.1	014.0	175.7	047.0000	0116.7	033.6	68.7
354.0	003.0000	0033.3	013.8	175.3	047.0000	0117.3	033.8	68.6
355.0	003.0000	0032.4	013.7	174.9	047.0000	0117.3	033.9	68.6
356.0	003.0000	0031.6	013.5	174.5	047.0000	0117.3	034.1	68.5
357.0	003.0000	0031.0	013.4	174.1	047.0000	0117.4	034.2	68.4
358.0	003.0000	0030.5	013.3	173.8	047.0000	0117.4	034.3	68.4
359.0	003.0000	0029.9	013.2	173.4	047.0000	0117.4	034.4	68.3
000.0	003.0000	0029.3	013.2	173.0	047.0000	0117.4	034.5	68.3
001.0	003.0000	0029.5	013.2	172.6	047.0000	0117.4	034.5	68.3
002.0	003.0000	0029.9	013.2	172.2	047.0000	0117.6	034.5	68.3
003.0	003.0000	0030.3	013.3	171.8	047.0000	0117.6	034.5	68.3
004.0	003.0000	0030.9	013.4	171.4	047.0000	0117.7	034.5	68.3
005.0	003.0000	0031.3	013.5	171.0	047.0000	0117.7	034.4	68.4
006.0	003.0000	0031.5	013.5	170.6	047.0000	0117.7	034.5	68.3
007.0	003.0000	0031.6	013.5	170.3	047.0000	0117.7	034.5	68.3
008.0	003.0000	0032.0	013.6	169.8	047.0000	0117.7	034.5	68.3
009.0	003.0000	0032.8	013.7	169.4	047.0000	0117.8	034.4	68.3
010.0	003.0000	0034.0	014.0	168.9	047.0000	0117.8	034.3	68.4
011.0	003.0000	0035.7	014.3	168.3	047.0000	0118.1	034.1	68.5
012.0	003.0000	0038.0	014.7	167.6	047.0000	0118.1	033.8	68.7
013.0	003.0000	0039.0	014.9	167.1	047.0000	0118.4	033.7	68.7
014.0	003.0000	0039.6	015.0	166.6	047.0000	0118.4	033.7	68.7
015.0	003.0000	0039.9	015.1	166.1	047.0000	0118.7	033.8	68.7
016.0	003.0000	0040.0	015.1	165.7	047.0000	0118.7	033.9	68.7
017.0	003.0000	0040.0	015.1	165.4	047.0000	0119.0	034.1	68.6
018.0	003.0000	0040.0	015.1	165.0	047.0000	0119.0	034.2	68.5
019.0	003.0000	0040.0	015.1	164.6	047.0000	0119.0	034.4	68.5
020.0	003.0000	0040.0	015.1	164.3	047.0000	0119.7	034.5	68.5

MINOR CHANGE APPLICATION
POSITIVE ALTERNATIVE RADIO, INC.
WJYJ (FM) RADIO STATION
CH 213B - 90.5 MHZ - 47.0 KW (DA)
FREDERICKSBURG, VIRGINIA
April 2012

EXHIBIT A8

WJYJ - Proposed
Channel = 213B
Max ERP = 47 kW
RCAMSL = 174.7 M
N. Lat = 37 57 56
W. Lng = 77 22 19

NEW FM.C - BNPED-20071015ADL
Channel = 212B1
Max ERP = 8.9 kW
RCAMSL = 64 M
N. Lat = 38 10 04
W. Lng = 76 22 40

Protected
60 dBu

Interfering
54 dBu

USGS 03 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
055.0	043.7692	0123.2	047.2	275.7	008.9000	0059.6	048.6	50.1
056.0	043.1369	0122.9	047.1	274.8	008.9000	0060.5	048.2	50.4
057.0	042.5092	0122.5	046.9	273.9	008.9000	0061.3	047.9	50.6
058.0	041.8860	0120.9	046.5	272.8	008.9000	0062.1	047.7	50.7
059.0	041.2674	0120.4	046.3	271.9	008.9000	0062.7	047.4	50.8
060.0	040.6534	0121.1	046.3	271.0	008.9000	0063.2	047.0	51.0
061.0	039.0057	0122.1	046.1	270.0	008.9000	0063.5	046.8	51.1
062.0	037.3920	0122.6	045.8	269.0	008.9000	0063.8	046.7	51.2
063.0	035.8124	0122.7	045.4	267.9	008.9000	0063.8	046.7	51.2
064.0	034.2669	0122.9	045.1	266.8	008.9000	0063.9	046.7	51.2
065.0	032.7555	0123.3	044.7	265.8	008.9000	0064.0	046.7	51.2
066.0	031.2782	0123.3	044.3	264.7	008.9000	0064.0	046.9	51.2
067.0	029.8350	0123.3	043.9	263.7	008.9000	0064.0	047.0	51.1
068.0	028.4258	0123.0	043.5	262.6	008.9000	0064.0	047.2	51.0
069.0	027.0507	0123.0	043.1	261.6	008.9000	0064.0	047.5	51.0
070.0	025.7097	0123.2	042.7	260.7	008.9000	0064.0	047.7	50.9
071.0	025.4352	0123.4	042.6	259.8	008.9000	0064.0	047.7	50.9
072.0	025.1620	0124.5	042.7	258.9	008.9000	0064.0	047.5	51.0
073.0	024.8904	0125.8	042.7	258.0	008.9000	0064.0	047.4	51.0
074.0	024.6201	0126.7	042.8	257.1	008.9000	0064.0	047.3	51.0
075.0	024.3515	0127.7	042.8	256.2	008.9000	0064.0	047.2	51.0
076.0	024.0842	0129.1	042.9	255.3	008.9000	0064.0	047.1	51.1
077.0	023.8185	0130.5	043.0	254.3	008.9000	0064.0	047.1	51.1
078.0	023.5542	0131.8	043.1	253.4	008.9000	0064.0	047.0	51.1
079.0	023.2914	0132.7	043.1	252.5	008.9000	0064.0	047.1	51.1
080.0	023.0300	0133.6	043.1	251.6	008.9000	0064.0	047.2	51.1
081.0	024.0276	0134.5	043.6	250.6	008.9000	0064.0	046.8	51.2
082.0	025.0463	0135.4	044.1	249.6	008.9000	0064.0	046.5	51.3
083.0	026.0862	0136.3	044.5	248.5	008.9000	0064.0	046.3	51.4
084.0	027.1472	0136.9	045.0	247.4	008.9000	0064.0	046.1	51.4
085.0	028.2294	0137.4	045.4	246.3	008.9000	0064.0	045.9	51.5
086.0	029.3327	0137.9	045.8	245.2	008.9000	0064.0	045.8	51.5
087.0	030.4572	0138.3	046.1	244.1	008.9000	0064.0	045.8	51.5
088.0	031.6028	0138.3	046.5	243.0	008.9000	0063.9	045.8	51.5
089.0	032.7696	0138.0	046.7	241.9	008.9000	0063.9	045.9	51.5
090.0	033.9575	0137.0	046.9	240.9	008.9000	0063.9	046.1	51.4
091.0	035.1666	0135.9	047.1	240.0	008.9000	0063.8	046.4	51.3
092.0	036.3968	0135.6	047.3	238.9	008.9000	0063.8	046.6	51.2

MINOR CHANGE APPLICATION
POSITIVE ALTERNATIVE RADIO, INC.
WJYJ (FM) RADIO STATION
CH 213B - 90.5 MHZ - 47.0 KW (DA)
FREDERICKSBURG, VIRGINIA
April 2012

EXHIBIT A9

NEW FM.C - BNPED-20071015ADL
Channel = 212B1
Max ERP = 8.9 kW
RCAMSL = 64 M
N. Lat = 38 10 04
W. Lng = 76 22 40

WJYJ - Proposed
Channel = 213B
Max ERP = 47 kW
RCAMSL = 174.7 M
N. Lat = 37 57 56
W. Lng = 77 22 19

Protected
60 dBu

Interfering
54 dBu

USGS 03 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
231.0	008.9000	0063.6	025.2	084.2	027.3313	0136.9	068.1	53.9
232.0	008.9000	0063.6	025.2	083.9	026.9965	0136.9	067.9	53.9
233.0	008.9000	0063.6	025.2	083.5	026.6575	0136.9	067.6	53.9
234.0	008.9000	0063.6	025.2	083.2	026.3164	0136.3	067.4	53.9
235.0	008.9000	0063.6	025.2	082.9	025.9704	0136.3	067.2	53.9
236.0	008.9000	0063.6	025.2	082.6	025.6234	0136.3	067.0	53.9
237.0	008.9000	0063.7	025.2	082.2	025.2733	0135.4	066.8	53.9
238.0	008.9000	0063.7	025.2	081.9	024.9219	0135.4	066.6	53.9
239.0	008.9000	0063.8	025.2	081.5	024.5686	0135.4	066.4	53.9
240.0	008.9000	0063.8	025.2	081.2	024.2139	0134.5	066.2	53.8
241.0	008.9000	0063.9	025.2	080.8	023.8564	0134.5	066.1	53.8
242.0	008.9000	0063.9	025.2	080.5	023.4971	0133.6	065.9	53.7
243.0	008.9000	0063.9	025.2	080.1	023.1355	0133.6	065.8	53.7
244.0	008.9000	0064.0	025.2	079.7	023.0982	0133.6	065.6	53.8
245.0	008.9000	0064.0	025.2	079.4	023.1952	0132.7	065.5	53.8
246.0	008.9000	0064.0	025.2	079.0	023.2934	0132.7	065.4	53.8
247.0	008.9000	0064.0	025.2	078.6	023.3925	0132.7	065.3	53.9
248.0	008.9000	0064.0	025.2	078.2	023.4924	0131.8	065.2	53.9
249.0	008.9000	0064.0	025.2	077.9	023.5934	0131.8	065.1	53.9
250.0	008.9000	0064.0	025.2	077.5	023.6950	0130.5	065.1	53.9
251.0	008.9000	0064.0	025.2	077.1	023.7971	0130.5	065.0	53.9
252.0	008.9000	0064.0	025.2	076.7	023.9000	0130.5	065.0	54.0
253.0	008.9000	0064.0	025.2	076.3	024.0033	0129.1	064.9	53.9
254.0	008.9000	0064.0	025.2	075.9	024.1070	0129.1	064.9	53.9
255.0	008.9000	0064.0	025.2	075.5	024.2112	0129.1	064.9	54.0
256.0	008.9000	0064.0	025.2	075.1	024.3157	0127.7	064.9	53.9
257.0	008.9000	0064.0	025.2	074.7	024.4202	0127.7	064.9	53.9
258.0	008.9000	0064.0	025.2	074.4	024.5249	0126.7	064.9	53.9
259.0	008.9000	0064.0	025.2	074.0	024.6297	0126.7	064.9	53.9
260.0	008.9000	0064.0	025.2	073.6	024.7345	0126.7	065.0	53.9
261.0	008.9000	0064.0	025.2	073.2	024.8390	0125.8	065.0	53.8
262.0	008.9000	0064.0	025.2	072.8	024.9435	0125.8	065.1	53.8
263.0	008.9000	0064.0	025.2	072.4	025.0476	0124.5	065.2	53.8
264.0	008.9000	0064.0	025.2	072.0	025.1513	0124.5	065.2	53.8
265.0	008.9000	0064.0	025.2	071.7	025.2546	0124.5	065.3	53.8
266.0	008.9000	0064.0	025.2	071.3	025.3574	0123.4	065.4	53.7
267.0	008.9000	0063.9	025.2	070.9	025.4591	0123.4	065.6	53.7
268.0	008.9000	0063.8	025.2	070.5	025.5598	0123.4	065.7	53.6

MINOR CHANGE APPLICATION
POSITIVE ALTERNATIVE RADIO, INC.
WJYJ (FM) RADIO STATION
CH 213B - 90.5 MHZ - 47.0 KW (DA)
FREDERICKSBURG, VIRGINIA
April 2012

EXHIBIT A10

WJYJ - Proposed
Channel = 213B
Max ERP = 47 kW
RCAMSL = 174.7 M
N. Lat = 37 57 56
W. Lng = 77 22 19

WEQP.C - BPED-20100315ADO
Channel = 213A
Max ERP = 0.32 kW
RCAMSL = 296.4 M
N. Lat = 37 12 07
W. Lng = 78 41 31

Protected
60 dBu

Interfering
40 dBu

USGS 03 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
208.0	047.0000	0128.6	048.7	065.6	000.3200	0141.0	102.9	24.7
209.0	047.0000	0129.0	048.7	065.3	000.3200	0139.8	102.4	24.8
210.0	047.0000	0129.2	048.7	064.9	000.3200	0139.8	101.8	24.9
211.0	047.0000	0129.1	048.7	064.5	000.3200	0137.6	101.4	24.9
212.0	047.0000	0128.5	048.6	064.1	000.3200	0137.6	101.0	25.0
213.0	047.0000	0127.7	048.5	063.6	000.3200	0137.6	100.6	25.1
214.0	047.0000	0127.1	048.4	063.2	000.3200	0134.4	100.3	25.1
215.0	047.0000	0126.4	048.3	062.7	000.3200	0134.4	099.9	25.2
216.0	047.0000	0125.9	048.3	062.3	000.3200	0132.6	099.6	25.2
217.0	047.0000	0125.6	048.2	061.8	000.3200	0132.6	099.3	25.3
218.0	047.0000	0125.4	048.2	061.4	000.3200	0132.2	098.9	25.3
219.0	047.0000	0125.1	048.2	060.9	000.3200	0132.2	098.6	25.4
220.0	047.0000	0125.1	048.2	060.5	000.3200	0132.7	098.3	25.5
221.0	045.6561	0125.1	047.9	060.0	000.3200	0132.7	098.3	25.5
222.0	044.3318	0125.2	047.6	059.5	000.3200	0133.7	098.3	25.6
223.0	043.0269	0125.2	047.4	058.9	000.3200	0133.7	098.3	25.6
224.0	041.7415	0125.1	047.1	058.4	000.3200	0133.6	098.3	25.6
225.0	040.4756	0124.9	046.8	057.9	000.3200	0133.6	098.4	25.5
226.0	039.2121	0124.7	046.5	057.4	000.3200	0132.7	098.5	25.5
227.0	037.9685	0124.6	046.2	056.9	000.3200	0132.7	098.6	25.4
228.0	036.7451	0124.7	045.9	056.4	000.3200	0131.0	098.8	25.3
229.0	035.5416	0124.7	045.6	056.0	000.3200	0131.0	099.0	25.3
230.0	034.3582	0124.5	045.3	055.5	000.3200	0128.8	099.2	25.2
231.0	035.5334	0124.0	045.5	055.0	000.3200	0128.8	098.9	25.2
232.0	036.7284	0123.2	045.7	054.6	000.3200	0128.8	098.7	25.3
233.0	037.9432	0122.3	045.9	054.1	000.3200	0126.9	098.5	25.3
234.0	039.1777	0121.5	046.0	053.7	000.3200	0126.9	098.3	25.3
235.0	040.4320	0120.8	046.2	053.2	000.3200	0125.6	098.1	25.3
236.0	041.7061	0119.9	046.4	052.7	000.3200	0125.6	098.0	25.3
237.0	042.9999	0119.0	046.5	052.2	000.3200	0124.6	097.9	25.3
238.0	044.3135	0118.6	046.7	051.7	000.3200	0124.6	097.7	25.4
239.0	045.6469	0118.0	046.9	051.3	000.3200	0123.9	097.7	25.3
240.0	047.0000	0116.8	047.0	050.8	000.3200	0123.9	097.7	25.3
241.0	047.0000	0116.0	046.8	050.3	000.3200	0123.8	097.9	25.3
242.0	047.0000	0115.5	046.8	049.9	000.3200	0123.8	098.2	25.2
243.0	047.0000	0115.4	046.7	049.4	000.3200	0123.3	098.4	25.1
244.0	047.0000	0115.5	046.8	048.9	000.3200	0123.3	098.5	25.1
245.0	047.0000	0115.6	046.8	048.5	000.3200	0121.8	098.7	25.0

MINOR CHANGE APPLICATION
POSITIVE ALTERNATIVE RADIO, INC.
WJYJ (FM) RADIO STATION
CH 213B - 90.5 MHZ - 47.0 KW (DA)
FREDERICKSBURG, VIRGINIA
April 2012

EXHIBIT A11

WEQP.C - BPED-20100315ADO
Channel = 213A
Max ERP = 0.32 kW
RCAMSL = 296.4 M
N. Lat = 37 12 07
W. Lng = 78 41 31

WJYJ - Proposed
Channel = 213B
Max ERP = 47 kW
RCAMSL = 174.7 M
N. Lat = 37 57 56
W. Lng = 77 22 19

Protected
60 dBu

Interfering
40 dBu

USGS 03 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
034.0	000.3200	0099.3	013.6	236.3	042.0438	0119.9	131.4	39.7
035.0	000.3200	0099.3	013.6	236.2	041.9178	0119.9	131.3	39.7
036.0	000.3200	0099.9	013.7	236.1	041.8003	0119.9	131.2	39.7
037.0	000.3200	0101.1	013.7	236.0	041.6872	0119.9	131.0	39.7
038.0	000.3200	0102.1	013.8	235.9	041.5704	0119.9	130.9	39.7
039.0	000.3200	0104.2	014.0	235.8	041.4624	0119.9	130.6	39.8
040.0	000.3200	0106.3	014.1	235.7	041.3520	0119.9	130.4	39.8
041.0	000.3200	0108.2	014.2	235.6	041.2355	0119.9	130.2	39.8
042.0	000.3200	0109.9	014.4	235.5	041.1140	0119.9	130.1	39.8
043.0	000.3200	0111.7	014.5	235.4	040.9896	0120.8	129.9	39.9
044.0	000.3200	0113.3	014.6	235.3	040.8611	0120.8	129.8	39.9
045.0	000.3200	0114.7	014.7	235.2	040.7289	0120.8	129.6	39.9
046.0	000.3200	0116.5	014.8	235.1	040.5966	0120.8	129.5	39.9
047.0	000.3200	0119.3	015.0	235.0	040.4656	0120.8	129.2	39.9
048.0	000.3200	0121.8	015.1	234.9	040.3296	0120.8	129.0	40.0
049.0	000.3200	0123.3	015.2	234.8	040.1868	0120.8	128.9	40.0
050.0	000.3200	0123.8	015.3	234.7	040.0392	0120.8	128.9	40.0
051.0	000.3200	0123.9	015.3	234.6	039.8906	0120.8	128.8	40.0
052.0	000.3200	0124.6	015.3	234.5	039.7424	0121.5	128.8	40.0
053.0	000.3200	0125.6	015.4	234.3	039.5936	0121.5	128.7	40.0
054.0	000.3200	0126.9	015.5	234.2	039.4437	0121.5	128.6	40.0
055.0	000.3200	0128.8	015.6	234.1	039.2915	0121.5	128.5	40.0
056.0	000.3200	0131.0	015.7	234.0	039.1362	0121.5	128.4	40.0
057.0	000.3200	0132.7	015.8	233.8	038.9792	0121.5	128.3	40.0
058.0	000.3200	0133.6	015.9	233.7	038.8230	0121.5	128.2	40.0
059.0	000.3200	0133.7	015.9	233.6	038.6698	0121.5	128.3	40.0
060.0	000.3200	0132.7	015.8	233.5	038.5220	0122.3	128.4	39.9
061.0	000.3200	0132.2	015.8	233.4	038.3736	0122.3	128.4	39.9
062.0	000.3200	0132.6	015.8	233.2	038.2213	0122.3	128.4	39.9
063.0	000.3200	0134.4	016.0	233.1	038.0592	0122.3	128.4	39.9
064.0	000.3200	0137.6	016.2	233.0	037.8846	0122.3	128.2	39.9
065.0	000.3200	0139.8	016.3	232.8	037.7144	0122.3	128.1	39.9
066.0	000.3200	0141.0	016.4	232.7	037.5517	0122.3	128.1	39.9
067.0	000.3200	0141.5	016.5	232.6	037.3949	0122.3	128.1	39.9
068.0	000.3200	0142.0	016.5	232.4	037.2400	0123.2	128.2	39.9
069.0	000.3200	0142.2	016.5	232.3	037.0871	0123.2	128.2	39.8
070.0	000.3200	0141.5	016.5	232.2	036.9476	0123.2	128.4	39.8
071.0	000.3200	0141.8	016.5	232.1	036.7969	0123.2	128.4	39.7

MINOR CHANGE APPLICATION
POSITIVE ALTERNATIVE RADIO, INC.
WJYJ (FM) RADIO STATION
CH 213B - 90.5 MHZ - 47.0 KW (DA)
FREDERICKSBURG, VIRGINIA
April 2012

EXHIBIT A12

WJYJ - Proposed
Channel = 213B
Max ERP = 47 kW
RCAMSL = 174.7 M
N. Lat = 37 57 56
W. Lng = 77 22 19

WXTR.C - BMPED-20111123OEB
Channel = 210A
Max ERP = 2.8 kW
RCAMSL = 94 M
N. Lat = 37 52 27
W. Lng = 76 43 37

Protected
60 dBu

Interfering
100 dBu

USGS 03 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
080.0	023.0300	0133.6	043.1	321.2	002.8000	0083.4	022.7	60.1
081.0	024.0276	0134.5	043.6	321.4	002.8000	0083.4	021.8	60.8
082.0	025.0463	0135.4	044.1	321.4	002.8000	0083.4	020.9	61.5
083.0	026.0862	0136.3	044.5	321.4	002.8000	0083.4	020.0	62.2
084.0	027.1472	0136.9	045.0	321.2	002.8000	0083.4	019.1	62.9
085.0	028.2294	0137.4	045.4	320.9	002.8000	0083.4	018.2	63.7
086.0	029.3327	0137.9	045.8	320.5	002.8000	0085.1	017.3	64.6
087.0	030.4572	0138.3	046.1	319.9	002.8000	0085.1	016.5	65.3
088.0	031.6028	0138.3	046.5	319.1	002.8000	0086.5	015.6	66.2
089.0	032.7696	0138.0	046.7	317.8	002.8000	0087.8	014.8	66.9
090.0	033.9575	0137.0	046.9	316.2	002.8000	0089.9	014.1	67.9
091.0	035.1666	0135.9	047.1	314.2	002.8000	0091.4	013.4	69.0
092.0	036.3968	0135.6	047.3	312.2	002.8000	0092.7	012.7	70.1
093.0	037.6482	0135.8	047.7	310.2	002.8000	0093.2	011.9	71.3
094.0	038.9207	0136.4	048.1	307.8	002.8000	0093.5	011.1	72.6
095.0	040.2144	0137.0	048.4	305.1	002.8000	0093.7	010.3	73.9
096.0	041.5292	0137.6	048.8	301.8	002.8000	0093.9	009.6	75.2
097.0	042.8652	0138.2	049.2	297.8	002.8000	0093.3	008.9	76.4
098.0	044.2223	0138.7	049.5	293.1	002.8000	0090.0	008.3	77.2
099.0	045.6006	0138.9	049.8	287.4	002.8000	0086.7	007.9	77.8
100.0	047.0000	0138.7	050.1	281.1	002.8000	0082.7	007.6	78.1
101.0	047.0000	0138.2	050.0	274.5	002.8000	0080.1	007.7	77.5
102.0	047.0000	0137.7	050.0	268.3	002.6949	0077.2	007.9	76.6
103.0	047.0000	0137.1	049.9	262.5	002.3614	0074.9	008.2	75.1
104.0	047.0000	0136.5	049.8	257.3	001.9832	0072.4	008.7	73.2
105.0	047.0000	0136.1	049.7	252.6	001.5986	0071.6	009.1	71.3
106.0	047.0000	0136.0	049.7	248.3	001.3773	0071.3	009.7	69.7
107.0	047.0000	0136.0	049.7	244.5	001.3178	0071.2	010.2	68.5
108.0	047.0000	0136.2	049.7	241.0	001.2651	0071.2	010.8	67.3
109.0	047.0000	0136.3	049.8	238.0	001.2361	0071.3	011.5	66.2
110.0	047.0000	0136.4	049.8	235.4	001.2187	0071.4	012.1	65.1
111.0	047.0000	0136.4	049.8	233.2	001.2042	0071.4	012.9	63.9
112.0	047.0000	0136.7	049.8	231.1	001.1904	0071.5	013.6	62.9
113.0	047.0000	0137.3	049.9	229.2	001.1830	0071.6	014.3	61.9
114.0	047.0000	0138.1	050.0	227.3	001.1830	0071.8	015.1	61.3
115.0	047.0000	0139.0	050.1	225.7	001.1830	0071.8	015.8	60.6
116.0	047.0000	0139.8	050.2	224.3	001.1830	0071.9	016.6	60.0
117.0	047.0000	0140.5	050.3	223.1	001.1830	0071.9	017.4	59.3

MINOR CHANGE APPLICATION
POSITIVE ALTERNATIVE RADIO, INC.
WJYJ (FM) RADIO STATION
CH 213B - 90.5 MHZ - 47.0 KW (DA)
FREDERICKSBURG, VIRGINIA
April 2012

EXHIBIT A13

WXTR.C - BMPED-20111123OEB
Channel = 210A
Max ERP = 2.8 kW
RCAMSL = 94 M
N. Lat = 37 52 27
W. Lng = 76 43 37

WJYJ - Proposed
Channel = 213B
Max ERP = 47 kW
RCAMSL = 174.7 M
N. Lat = 37 57 56
W. Lng = 77 22 19

Protected
60 dBu

Interfering
100 dBu

USGS 03 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
261.0	002.2776	0074.3	019.6	109.4	047.0000	0136.3	039.6	67.1
262.0	002.3330	0074.6	019.8	109.1	047.0000	0136.3	039.3	67.2
263.0	002.3890	0074.9	019.9	108.7	047.0000	0136.3	039.0	67.3
264.0	002.4457	0075.3	020.1	108.4	047.0000	0136.2	038.7	67.5
265.0	002.5031	0075.7	020.3	108.0	047.0000	0136.2	038.4	67.6
266.0	002.5612	0076.2	020.4	107.6	047.0000	0136.2	038.1	67.7
267.0	002.6199	0076.7	020.6	107.2	047.0000	0136.0	037.8	67.9
268.0	002.6793	0077.2	020.8	106.8	047.0000	0136.0	037.6	68.0
269.0	002.7393	0077.6	021.0	106.3	047.0000	0136.0	037.3	68.1
270.0	002.8000	0078.1	021.1	105.8	047.0000	0136.0	037.0	68.3
271.0	002.8000	0078.5	021.2	105.3	047.0000	0136.1	036.9	68.3
272.0	002.8000	0078.9	021.2	104.8	047.0000	0136.1	036.7	68.4
273.0	002.8000	0079.3	021.3	104.2	047.0000	0136.5	036.6	68.5
274.0	002.8000	0079.7	021.3	103.7	047.0000	0136.5	036.5	68.5
275.0	002.8000	0080.1	021.4	103.1	047.0000	0137.1	036.4	68.6
276.0	002.8000	0080.5	021.4	102.5	047.0000	0137.1	036.3	68.7
277.0	002.8000	0080.9	021.5	101.9	047.0000	0137.7	036.2	68.8
278.0	002.8000	0081.3	021.5	101.3	047.0000	0138.2	036.1	68.8
279.0	002.8000	0081.7	021.6	100.7	047.0000	0138.2	036.0	68.9
280.0	002.8000	0082.2	021.7	100.1	047.0000	0138.7	035.9	68.9
281.0	002.8000	0082.7	021.7	099.5	046.3529	0138.7	035.9	68.9
282.0	002.8000	0083.3	021.8	098.9	045.4978	0138.9	035.8	68.9
283.0	002.8000	0083.8	021.9	098.3	044.6437	0138.7	035.8	68.8
284.0	002.8000	0084.5	022.0	097.7	043.7880	0138.7	035.7	68.7
285.0	002.8000	0085.3	022.1	097.0	042.9261	0138.2	035.7	68.6
286.0	002.8000	0086.1	022.2	096.4	042.0713	0137.6	035.6	68.5
287.0	002.8000	0086.7	022.2	095.8	041.2205	0137.6	035.6	68.5
288.0	002.8000	0087.3	022.3	095.1	040.3808	0137.0	035.6	68.3
289.0	002.8000	0087.9	022.4	094.5	039.5510	0136.4	035.6	68.2
290.0	002.8000	0088.2	022.4	093.9	038.7409	0136.4	035.7	68.1
291.0	002.8000	0088.7	022.5	093.2	037.9394	0135.8	035.8	67.9
292.0	002.8000	0089.3	022.6	092.6	037.1304	0135.8	035.8	67.8
293.0	002.8000	0090.0	022.7	091.9	036.3276	0135.6	035.8	67.7
294.0	002.8000	0091.0	022.8	091.3	035.5173	0135.9	035.9	67.6
295.0	002.8000	0091.7	022.9	090.6	034.7305	0135.9	036.0	67.4
296.0	002.8000	0092.3	022.9	090.0	033.9722	0137.0	036.1	67.4
297.0	002.8000	0092.9	023.0	089.4	033.2367	0138.0	036.2	67.3
298.0	002.8000	0093.3	023.1	088.8	032.5288	0138.0	036.3	67.1

MINOR CHANGE APPLICATION
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FREDERICKSBURG, VIRGINIA
April 2012

EXHIBIT A14

Predicted Contours:

N. Lat. = 37 57 56 - Tabulated Protected and Interfering Contour Data
W. Lng. = 77 22 19 - WJYJ Radio Station - Fredericksburg, Virginia

HAAT and Distance to Contour - USGS 03 second terrain database

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5	40-F1	54-F1	100-F1
000	39.2	135.5	47.0000	16.72	1.000	49.65	134.38	75.00	5.58
010	50.6	124.1	47.0000	16.72	1.000	48.01	132.81	73.14	5.36
020	53.0	121.7	47.0000	16.72	1.000	47.67	132.47	72.74	5.31
030	54.1	120.6	47.0000	16.72	1.000	47.52	132.32	72.56	5.29
040	49.0	125.7	47.0000	16.72	1.000	48.23	133.02	73.40	5.39
050	51.4	123.3	47.0000	16.72	1.000	47.89	132.69	73.00	5.35
060	53.9	120.8	40.6535	16.09	0.930	46.26	129.07	70.52	5.09
070	51.9	122.8	25.7097	14.10	0.740	42.62	118.30	64.52	4.51
080	41.3	133.4	23.0300	13.62	0.700	43.08	117.45	64.82	4.55
090	37.6	137.1	33.9575	15.31	0.850	46.93	127.28	70.70	5.15
100	36.0	138.7	47.0000	16.72	1.000	50.09	134.81	75.50	5.65
110	38.3	136.4	47.0000	16.72	1.000	49.77	134.50	75.15	5.60
120	32.0	142.7	47.0000	16.72	1.000	50.65	135.36	76.13	5.73
130	30.0	144.7	47.0000	16.72	1.000	50.93	135.63	76.44	5.77
140	30.0	144.7	47.0000	16.72	1.000	50.93	135.63	76.44	5.77
150	38.2	136.5	47.0000	16.72	1.000	49.78	134.50	75.15	5.60
160	50.7	124.0	47.0000	16.72	1.000	47.99	132.79	73.12	5.36
170	56.9	117.8	47.0000	16.72	1.000	47.10	131.92	72.08	5.24
180	58.4	116.3	47.0000	16.72	1.000	46.88	131.71	71.83	5.20
190	54.1	120.6	47.0000	16.72	1.000	47.51	132.31	72.55	5.29
200	47.5	127.2	47.0000	16.72	1.000	48.46	133.23	73.66	5.42
210	45.3	129.4	47.0000	16.72	1.000	48.76	133.52	74.00	5.46
220	49.6	125.1	47.0000	16.72	1.000	48.15	132.94	73.30	5.38
230	50.3	124.4	34.3582	15.36	0.855	45.28	125.64	68.76	4.93
240	58.2	116.5	47.0000	16.72	1.000	46.92	131.74	71.86	5.21
250	58.6	116.1	47.0000	16.72	1.000	46.85	131.68	71.79	5.20
260	56.7	118.0	47.0000	16.72	1.000	47.13	131.95	72.11	5.24
270	54.5	120.2	47.0000	16.72	1.000	47.45	132.26	72.48	5.28
280	58.9	115.8	47.0000	16.72	1.000	46.81	131.63	71.74	5.19
290	65.7	109.0	47.0000	16.72	1.000	45.74	130.61	70.54	5.04
300	61.4	113.3	47.0000	16.72	1.000	46.43	131.27	71.31	5.14
310	60.4	114.3	47.0000	16.72	1.000	46.58	131.42	71.48	5.16
320	59.2	115.5	47.0000	16.72	1.000	46.76	131.59	71.69	5.19
330	52.5	122.2	47.0000	16.72	1.000	47.73	132.53	72.81	5.32
340	47.3	127.4	47.0000	16.72	1.000	48.48	133.25	73.68	5.42
350	30.1	144.6	47.0000	16.72	1.000	50.91	135.61	76.42	5.76

AMSL= 174.7 M