

Technical Exhibit
Minor Modification to WSHB
Willard, OH
450W 71.5m HAAT
76.2m AGL

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Predicted Coverage Contours

The proposed HAAT and the predicted 60 dBu contours were calculated in accordance with Section 47 C.F.R. 73.313. The average terrain elevations were calculated along 12 radials using the NED 30m terrain database.

All contours displayed in exhibits are plotted every degree in accordance with the propagation prediction curves of Section 73.333.

Interference Compliance

Contour protection, as required by C.F.R. Section 73.509 to co-channel and first, second and third adjacent channels is demonstrated herein by Figures 1 and 2.

RF Electromagnetic Exposure Analysis

Using a worst case assumption of maximum downward radiation ($F=1.0$) the RF exposure at 2 m above ground level is 0.5% of the controlled standard. This is insignificant when added to the existing RF on the tower.

The tower is fenced with RF warning signs. The power will be reduced or shut off to allow necessary access to the tower.

Figure 1 Willard, OH 215A											
REFERENCE		CH# 215A - 90.9 MHz, Pwr= 0.45 kW DA, HAAT= 71.5 M, COR= 361.8 M								DISPLAY DATES	
41 02 52.9 N.		Average Protected F(50-50)= 12.63 km								DATA 10-01-13	
82 40 52.6 W.		Standard Directional								SEARCH 10-24-13	
CH CITY	CALL	TYPE STATE	ANT AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*	
215A Willard	WSHB	LIC _CX OH	290.8 110.7	4.01 BLED20110527AKE	41 03 39.0 82 43 34.0	0.100 5	18.6 285	5.6 Mansfield Christian School	-28.3*	-49.1*	
215A Willard	WSHB	CP _CX OH	172.6 352.6	11.45 BPED20110720ABU	40 56 45.0 82 39 49.0	0.200 106	47.6 427	14.2 Mansfield Christian School	-46.5*	-37.2*	
214A Norwalk	WNRK	LIC DCX OH	58.8 239.0	28.56 BLED20040608ABM	41 10 50.0 82 23 21.0	4.000 124	23.9 399	14.2 Kent State University	0.2	4.2	
215B Detroit	WRCJ-FM	LIC DEN MI	346.5 166.2	151.68 BLED19811228AJ	42 22 25.0 83 06 50.0	42.000 165	134.8 351	52.5 Board Of Education, City O	7.3	71.0	
216B1 Marion	WOSB	LIC _EN OH	230.3 49.9	63.04 BLED19980410KCC	40 41 04.0 83 15 24.0	6.800 87	41.1 360	26.5 The Ohio State University	9.0	17.1	
215A Wooster	WCWS-FM	LIC _C_ OH	109.5 290.0	72.34 BLED20000505AAF	40 49 41.0 81 52 14.0	1.050 68	52.1 393	14.5 The College Of wooster	10.4	24.4	
214A Mansfield	WVMC-FM	LIC DCX OH	160.7 340.8	38.32 BLED20130215ABP	40 43 21.0 82 31 52.0	0.500 75	15.8 459	10.9 Mansfield Christian School	12.3	13.0	
214A Mansfield	WVMC-FM	CP DCX OH	160.7 340.8	38.32 BPED20130514AAX	40 43 21.0 82 31 52.0	1.550 75	15.2 459	10.6 Mansfield Christian School	12.8	13.0	
215A Mount Vernon	WNZR	LIC DC_ OH	166.5 346.6	77.40 BLED20100426AAY	40 22 15.0 82 28 05.0	1.300 57	52.7 395	14.0 Mount Vernon Nazarene Univ	15.1	26.8	
215B Detroit	WRCJ-FM	CP DCX MI	345.5 165.2	160.91 BPED20120718ABN	42 26 53.0 83 10 23.0	23.500 213	129.8 412	52.3 Board Of Education, City O	21.4	80.0	
213A Clyde	WHVT	LIC _CN OH	318.5 138.3	36.86 BLED19930826KCB	41 17 45.0 82 58 26.0	2.700 47	1.6 259	12.9 Clyde Educational Broadcas	23.5	23.2	
217B Toledo	WGTE-FM	LIC _CN OH	317.5 137.0	92.28 BLED19890123KE	41 39 27.0 83 25 55.0	13.500 289	5.4 470	52.1 Public Broadcasting Founda	74.7	39.4	
214B Lima	WGLE	LIC DEX OH	250.4 69.5	127.88 BLED20051219ACI	40 39 15.0 84 06 36.0	50.000 128	67.7 410	44.3 Public Broadcasting Founda	47.3	63.5	
216B1 Cleveland	WRUW-FM	LIC DC_ OH	59.8 240.5	105.64 BLED20010406AAQ	41 31 14.0 81 35 03.0	15.000 89	50.2 320	32.8 Case Western Reserve Unive	47.9	60.4	
216A Coshocton	WOSE	LIC DCN OH	142.2 322.7	99.03 BLED19960311KH	40 20 30.0 81 57 56.0	6.000 98	34.9 388	21.7 The Ohio State University	55.4	62.1	
06 Stevenson	VACANT«	GR _HN ON	8.2 188.3	113.71 BPFS20081204AET	42 03 41.0 82 29 05.0	0.600 300	2.8 482	52.2 55.0R	55.0R	58.7M	
213B1 Millersburg	WVML	LIC DCX OH	121.8 302.4	93.26 BLED20130403AAD	40 36 08.0 81 44 32.0	15.000 112	2.7 450	27.4 The Moody Bible Institute	80.8	62.7	
217A Akron	WAPS	LIC DEX OH	88.5 269.2	92.08 BLED20080702ADM	41 03 53.0 81 34 59.0	2.000 106	1.9 424	19.5 Board Of Education, Akron	81.1	69.1	
215B1 Jefferson	WCVJ	LIC _C_ OH	67.4 248.6	172.95 BLED19980325KE	41 37 50.0 80 45 36.0	1.850 196	86.6 485	31.3 Educational Media Foundati	78.1	117.1	
213B1 Windsor	NEW«	PRO DHN ON	348.5 168.3	141.63 20120927CA1	42 17 50.0 83 01 31.0	9.300 56	1.9 241	21.7 63.5R	63.5R	78.1M	
215A Carrollton	WJDD	LIC _HX OH	112.3 293.3	137.01 BLED20110606AAS	40 34 15.0 81 10 48.0	0.270 97	46.9 432	13.7 Denny And Marge Hazen Mini	80.3	89.8	
213B Columbus	WCBE	LIC _CX OH	192.9 12.7	123.65 BLED20111027AQG	39 57 48.0 83 00 17.0	11.000 162	3.8 406	37.6 Bd.of Educ., City Sch.dist	108.2	84.5	
213B Columbus	WCBE	CP _CX OH	192.8 12.6	123.73 BPED20130107ADK	39 57 43.8 83 00 08.3	11.000 162	3.7 404	37.4 Bd.of Educ., City Sch.dist	108.3	84.7	
215A Lancaster	WFCO	LIC _VX OH	177.3 357.4	152.23 BLED20051215ABD	39 40 49.0 82 35 51.0	1.200 78	57.0 367	16.5 Lancaster Educational Broa	85.1	99.5	
215A Bryan	WGBE	LIC _CN OH	287.3 106.1	167.15 BLED19961122KCC	41 28 47.0 84 35 50.0	0.850 120	65.2 362	21.2 Public Broadcastinggg Found	88.2	98.7	

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 2 *IN* (Overlap	*OUT* in km)
216A Granville	WDUB	LIC _CX OH		172.9 353.0	109.42 BLED20120209ACR	40 04 16.0 82 31 24.0	0.100 52	8.0 364	5.6 Denison University	91.2	89.7
216A Alliance	WRMU-FM	LIC _HN OH		96.4 277.4	132.64 BMLED19810611AA	40 54 16.0 81 06 45.0	2.800 58	27.1 411	18.3 Mount Union College	96.0	101.1
217A Chatham	AL8844«	AL _ ON		17.5 197.9	163.42	42 27 00.0 82 05 00.0	6.000 100	2.8 287	38.0	50.5R	112.9M
214A New Concord	WMCO	CP _CX OH		145.3 325.9	140.99 BPED20120424ACJ	40 00 06.0 81 44 19.0	1.200 44	16.3 327	10.6 Muskingum College	116.2	115.7
214A New Concord	WMCO	LIC _CN OH		144.9 325.6	142.31 BLED19811109AA	39 59 46.0 81 43 18.0	1.300 26	15.2 314	10.8 Muskingum College	117.2	118.1

Terrain database is NED 30 Meter , 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= - Zone 1, Co to 2nd 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.
Reference station has protected zone issue:

Figure 2
Willard, OH 215A

FMCommander Single Allocation Study - 10-24-2013 - NED 30 Meter
WSHB.A's Overlaps (In= 0.18 km, Out= 4.16 km)

WSHB.A CH 215 A DA
Lat= 41 02 52.9, Lng= 82 40 52.6
0.45 kW 71.5 M HAAT, 361.8 M COR
Prot.= 60 dBu, Intef.= 54 dBu

WNRK CH 214 A DA BLED20040608ABM
Lat= 41 10 50.0, Lng= 82 23 21.0
4.0 kW 124 M HAAT, 399 M COR
Prot.= 60 dBu, Intef.= 54 dBu

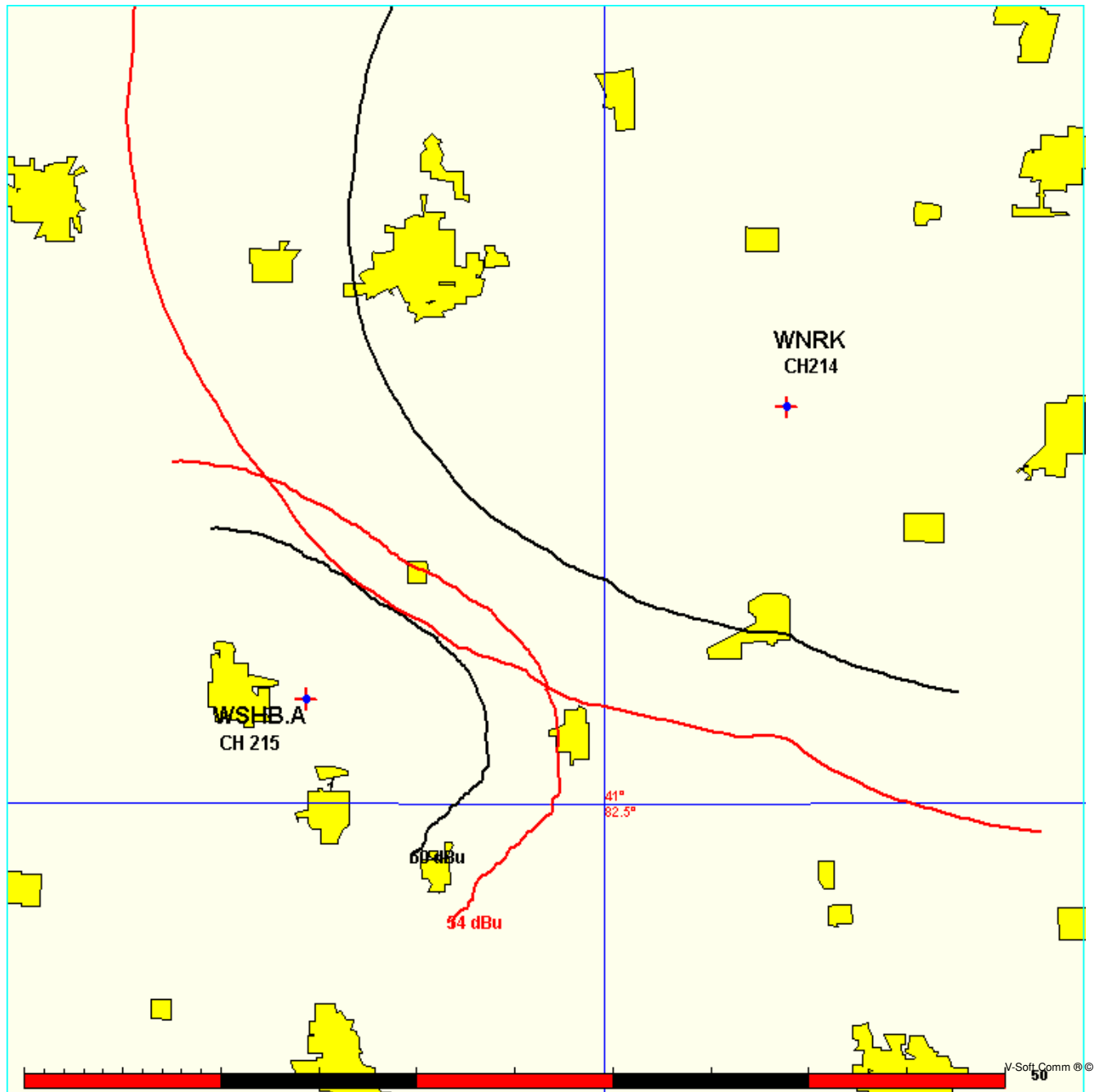


Figure 2-1

10-24-2013

Terrain Data: NED 30 Meter

FMOver Analysis

WSHB.A

WNRK BLED20040608ABM

Channel = 215A
 Max ERP = 0.45 kW
 RCAMSL = 361.8 M
 N. Lat. 41 02 52.9
 W. Lng. 82 40 52.6
 Protected
 60 dBu

Channel = 214A
 Max ERP = 4 kW
 RCAMSL = 399 M
 N. Lat. 41 10 50.0
 W. Lng. 82 23 21.0
 Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
359.0	000.0189	0110.7	007.2	253.0	000.5186	0112.9	025.7	53.36	
000.0	000.0180	0111.1	007.1	252.8	000.5151	0112.7	025.6	53.38	
001.0	000.0176	0110.3	007.0	252.5	000.5119	0112.6	025.5	53.42	
002.0	000.0172	0110.6	007.0	252.4	000.5098	0112.5	025.4	53.47	
003.0	000.0168	0109.8	007.0	252.2	000.5066	0112.4	025.3	53.50	
004.0	000.0165	0110.6	006.9	252.0	000.5047	0112.4	025.2	53.55	
005.0	000.0161	0110.6	006.9	251.9	000.5021	0112.4	025.1	53.59	
006.0	000.0157	0110.0	006.8	251.6	000.4989	0112.2	025.0	53.62	
007.0	000.0153	0109.9	006.8	251.4	000.4960	0112.1	024.9	53.65	
008.0	000.0150	0109.9	006.8	251.2	000.4932	0112.0	024.8	53.68	
009.0	000.0146	0109.1	006.7	251.0	000.4897	0111.9	024.8	53.69	
010.0	000.0143	0108.5	006.6	250.7	000.4862	0111.7	024.7	53.70	
011.0	000.0143	0106.2	006.6	250.5	000.4824	0111.7	024.6	53.70	
012.0	000.0143	0104.6	006.5	250.2	000.4790	0111.6	024.6	53.72	
013.0	000.0143	0103.4	006.5	250.0	000.4760	0111.6	024.5	53.74	
014.0	000.0143	0102.7	006.5	249.8	000.4731	0111.4	024.4	53.76	
015.0	000.0143	0101.5	006.4	249.6	000.4698	0111.4	024.3	53.78	
016.0	000.0143	0102.0	006.4	249.5	000.4679	0111.3	024.2	53.83	
017.0	000.0143	0101.4	006.4	249.3	000.4649	0111.2	024.2	53.84	
018.0	000.0143	0100.9	006.4	249.1	000.4620	0111.1	024.1	53.87	
019.0	000.0143	0098.9	006.3	248.8	000.4576	0111.2	024.0	53.86	
020.0	000.0143	0097.1	006.3	248.5	000.4535	0111.0	024.0	53.84	
021.0	000.0143	0096.7	006.3	248.3	000.4506	0110.9	023.9	53.86	
022.0	000.0143	0096.1	006.2	248.1	000.4473	0110.7	023.9	53.86	
023.0	000.0143	0095.2	006.2	247.8	000.4438	0110.6	023.8	53.85	
024.0	000.0143	0094.7	006.2	247.6	000.4407	0110.5	023.7	53.86	
025.0	000.0143	0094.2	006.2	247.4	000.4374	0110.3	023.7	53.86	
026.0	000.0143	0093.4	006.2	247.2	000.4340	0110.1	023.6	53.84	
027.0	000.0143	0093.2	006.1	247.0	000.4309	0109.9	023.6	53.84	
028.0	000.0143	0092.4	006.1	246.7	000.4274	0109.7	023.5	53.83	
029.0	000.0143	0091.7	006.1	246.5	000.4239	0109.5	023.5	53.81	
030.0	000.0143	0089.9	006.0	246.2	000.4197	0109.3	023.5	53.75	
031.0	000.0146	0088.5	006.0	245.9	000.4163	0109.1	023.4	53.74	
032.0	000.0150	0088.2	006.0	245.8	000.4138	0108.9	023.3	53.75	
033.0	000.0153	0087.2	006.0	245.5	000.4107	0108.8	023.3	53.75	
034.0	000.0157	0085.7	006.0	245.3	000.4073	0108.7	023.2	53.74	
035.0	000.0161	0084.8	006.0	245.1	000.4041	0108.7	023.2	53.75	
036.0	000.0165	0083.9	006.0	244.8	000.4010	0108.7	023.1	53.75	
037.0	000.0168	0083.1	006.0	244.6	000.3978	0108.8	023.1	53.76	
038.0	000.0172	0082.6	006.0	244.4	000.3948	0108.8	023.0	53.78	
039.0	000.0176	0081.7	006.0	244.2	000.3915	0108.7	023.0	53.77	
040.0	000.0180	0081.3	006.1	243.9	000.3885	0108.7	022.9	53.78	
041.0	000.0189	0080.8	006.1	243.7	000.3859	0108.7	022.8	53.82	
042.0	000.0199	0079.7	006.1	243.5	000.3829	0108.7	022.8	53.83	
043.0	000.0209	0078.9	006.2	243.3	000.3799	0108.6	022.7	53.85	
044.0	000.0219	0078.0	006.2	243.1	000.3769	0108.4	022.6	53.85	

				Figure 2-1				
045.0	000.0230	0077.2	006.3	242.8	000.3737	0108.2	022.5	53.85
046.0	000.0241	0076.4	006.3	242.6	000.3705	0108.2	022.5	53.86
047.0	000.0251	0076.0	006.3	242.4	000.3674	0108.0	022.4	53.86
048.0	000.0263	0074.8	006.4	242.1	000.3638	0107.7	022.3	53.83
049.0	000.0274	0074.0	006.4	241.8	000.3604	0107.5	022.3	53.81
050.0	000.0286	0073.0	006.4	241.6	000.3568	0107.5	022.3	53.81
051.0	000.0301	0071.8	006.4	241.3	000.3533	0107.6	022.2	53.80
052.0	000.0316	0070.7	006.5	241.0	000.3497	0107.5	022.2	53.78
053.0	000.0332	0069.9	006.5	240.8	000.3461	0107.4	022.1	53.77
054.0	000.0348	0069.8	006.6	240.5	000.3426	0107.2	022.0	53.78
055.0	000.0364	0068.9	006.6	240.2	000.3389	0107.1	022.0	53.76
056.0	000.0381	0067.7	006.6	239.9	000.3355	0106.9	022.0	53.71
057.0	000.0398	0067.3	006.7	239.6	000.3327	0106.6	021.9	53.70
058.0	000.0416	0066.6	006.7	239.3	000.3299	0106.4	021.9	53.67
059.0	000.0434	0065.8	006.7	239.0	000.3271	0106.3	021.8	53.66
060.0	000.0452	0065.8	006.8	238.7	000.3242	0106.2	021.8	53.66
061.0	000.0476	0065.8	006.9	238.4	000.3213	0106.1	021.7	53.67
062.0	000.0501	0065.7	007.0	238.0	000.3183	0106.2	021.6	53.69
063.0	000.0526	0065.7	007.1	237.7	000.3152	0106.5	021.5	53.73
064.0	000.0552	0066.4	007.2	237.3	000.3119	0106.6	021.4	53.78
065.0	000.0578	0066.1	007.3	237.0	000.3087	0106.7	021.4	53.78
066.0	000.0605	0065.1	007.3	236.6	000.3056	0106.5	021.4	53.74
067.0	000.0633	0063.8	007.3	236.3	000.3026	0106.7	021.4	53.70
068.0	000.0661	0063.1	007.3	235.9	000.2995	0106.9	021.4	53.68
069.0	000.0690	0062.6	007.4	235.5	000.2963	0107.2	021.3	53.68
070.0	000.0720	0062.2	007.4	235.2	000.2931	0107.4	021.3	53.66
071.0	000.0758	0061.9	007.5	234.8	000.2896	0107.9	021.3	53.68
072.0	000.0796	0061.7	007.6	234.4	000.2861	0108.0	021.2	53.68
073.0	000.0836	0061.6	007.7	233.9	000.2825	0107.7	021.2	53.63
074.0	000.0876	0061.3	007.8	233.5	000.2789	0107.3	021.1	53.57
075.0	000.0917	0061.1	007.9	233.1	000.2753	0106.4	021.1	53.46
076.0	000.0960	0060.5	007.9	232.7	000.2719	0106.1	021.1	53.38
077.0	000.1003	0060.6	008.0	232.2	000.2681	0106.1	021.1	53.34
078.0	000.1047	0060.7	008.1	231.8	000.2642	0105.9	021.0	53.29
079.0	000.1092	0060.3	008.2	231.3	000.2607	0105.7	021.0	53.21
080.0	000.1139	0059.6	008.3	230.9	000.2574	0105.6	021.1	53.13
081.0	000.1198	0059.5	008.4	230.4	000.2534	0105.6	021.1	53.08
082.0	000.1258	0059.0	008.4	230.0	000.2498	0105.3	021.1	52.98
083.0	000.1320	0058.1	008.5	229.6	000.2466	0105.3	021.1	52.90
084.0	000.1384	0057.5	008.5	229.1	000.2432	0105.0	021.1	52.78
085.0	000.1449	0056.8	008.6	228.7	000.2399	0104.8	021.2	52.67
086.0	000.1516	0056.6	008.7	228.3	000.2363	0104.8	021.2	52.59
087.0	000.1584	0055.7	008.7	227.9	000.2334	0104.9	021.3	52.49
088.0	000.1654	0054.4	008.7	227.6	000.2311	0104.8	021.4	52.35
089.0	000.1725	0054.3	008.8	227.1	000.2275	0104.3	021.4	52.22
090.0	000.1797	0053.9	008.9	226.7	000.2244	0104.2	021.5	52.10
091.0	000.1891	0053.2	008.9	226.3	000.2214	0104.3	021.5	52.00
092.0	000.1988	0053.2	009.0	225.8	000.2175	0104.6	021.6	51.93
093.0	000.2086	0052.9	009.1	225.4	000.2142	0104.7	021.6	51.82
094.0	000.2187	0051.7	009.1	225.1	000.2122	0104.8	021.8	51.70
095.0	000.2291	0051.3	009.2	224.7	000.2110	0104.8	021.8	51.62
096.0	000.2397	0050.5	009.2	224.3	000.2104	0105.3	021.9	51.56
097.0	000.2505	0049.7	009.2	224.0	000.2098	0105.8	022.0	51.51
098.0	000.2616	0049.3	009.3	223.6	000.2091	0106.3	022.1	51.46
099.0	000.2729	0048.6	009.3	223.4	000.2086	0105.8	022.3	51.32
100.0	000.2844	0047.9	009.4	223.1	000.2081	0105.5	022.4	51.19
101.0	000.2993	0046.8	009.4	222.8	000.2077	0105.5	022.5	51.08
102.0	000.3145	0045.8	009.4	222.6	000.2072	0105.5	022.7	50.97
103.0	000.3301	0045.4	009.4	222.2	000.2066	0105.6	022.8	50.88
104.0	000.3461	0045.2	009.5	221.8	000.2058	0105.7	022.9	50.80
105.0	000.3625	0044.7	009.6	221.5	000.2053	0105.7	023.0	50.69
106.0	000.3792	0044.2	009.6	221.3	000.2048	0105.6	023.1	50.58
107.0	000.3964	0043.5	009.7	221.0	000.2044	0105.7	023.3	50.48

				Figure 2-1				
108.0	000.4139	0043.8	009.8	220.5	000.2035	0105.8	023.4	50.39
109.0	000.4317	0043.3	009.8	220.3	000.2030	0105.8	023.5	50.27
110.0	000.4500	0042.7	009.9	220.1	000.2026	0105.5	023.7	50.13
111.0	000.4500	0042.4	009.8	220.0	000.2025	0105.4	023.8	49.99
112.0	000.4500	0041.7	009.7	220.1	000.2027	0105.5	024.0	49.87
113.0	000.4500	0041.9	009.8	219.9	000.2021	0105.3	024.2	49.73
114.0	000.4500	0042.8	009.9	219.5	000.2009	0105.3	024.3	49.60
115.0	000.4500	0042.8	009.9	219.4	000.2005	0105.3	024.5	49.48
116.0	000.4500	0041.8	009.8	219.6	000.2012	0105.4	024.7	49.35
117.0	000.4500	0041.2	009.7	219.7	000.2014	0105.4	024.9	49.23
118.0	000.4500	0040.6	009.6	219.8	000.2017	0105.4	025.0	49.11

10-24-2013 Terrain Data: NED 30 Meter FMOVer Analysis

WNRK BLED20040608ABM

WSHB.C

Channel = 214A
 Max ERP = 4 kW
 RCAMSL = 399 M
 N. Lat. 41 10 50.0
 W. Lng. 82 23 21.0
 Protected
 60 dBu

Channel = 215A
 Max ERP = 0.45 kW
 RCAMSL = 361.8 M
 N. Lat. 41 02 52.9
 W. Lng. 82 40 52.6
 Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
179.0	000.1849	0094.5	011.6	082.8	000.1306	0058.2	024.9	42.08	
180.0	000.1764	0095.1	011.5	082.5	000.1288	0058.8	024.7	42.23	
181.0	000.1731	0095.4	011.5	082.3	000.1279	0058.9	024.5	42.36	
182.0	000.1697	0095.8	011.5	082.2	000.1270	0058.9	024.3	42.47	
183.0	000.1665	0096.7	011.5	082.1	000.1264	0058.9	024.1	42.60	
184.0	000.1632	0097.6	011.5	082.0	000.1259	0059.0	023.9	42.73	
185.0	000.1600	0098.7	011.5	081.9	000.1253	0059.1	023.7	42.87	
186.0	000.1568	0100.1	011.5	081.8	000.1249	0059.1	023.5	43.00	
187.0	000.1537	0101.9	011.5	081.8	000.1247	0059.1	023.3	43.15	
188.0	000.1505	0103.5	011.6	081.8	000.1243	0059.1	023.1	43.30	
189.0	000.1475	0104.7	011.6	081.6	000.1236	0059.2	022.9	43.43	
190.0	000.1444	0105.5	011.6	081.4	000.1224	0059.3	022.7	43.55	
191.0	000.1444	0105.3	011.5	081.2	000.1212	0059.4	022.5	43.67	
192.0	000.1444	0105.3	011.5	081.1	000.1202	0059.5	022.4	43.79	
193.0	000.1444	0105.5	011.6	080.9	000.1191	0059.6	022.2	43.91	
194.0	000.1444	0105.4	011.6	080.7	000.1179	0059.4	022.0	43.99	
195.0	000.1444	0105.6	011.6	080.5	000.1168	0059.5	021.8	44.11	
196.0	000.1444	0105.3	011.5	080.2	000.1152	0059.5	021.6	44.19	
197.0	000.1444	0105.5	011.6	080.0	000.1140	0059.6	021.4	44.31	
198.0	000.1444	0105.7	011.6	079.8	000.1130	0059.8	021.2	44.44	
199.0	000.1444	0105.6	011.6	079.5	000.1116	0060.0	021.1	44.56	
200.0	000.1444	0106.1	011.6	079.3	000.1107	0060.1	020.9	44.69	
201.0	000.1467	0105.7	011.6	079.1	000.1096	0060.2	020.7	44.81	
202.0	000.1490	0105.7	011.7	078.9	000.1087	0060.3	020.5	44.94	
203.0	000.1513	0105.7	011.7	078.7	000.1077	0060.1	020.3	45.03	
204.0	000.1537	0105.6	011.7	078.4	000.1066	0060.3	020.1	45.17	
205.0	000.1560	0105.2	011.8	078.1	000.1053	0060.6	019.9	45.31	
206.0	000.1584	0105.1	011.8	077.9	000.1041	0060.6	019.7	45.41	
207.0	000.1608	0105.0	011.8	077.6	000.1028	0060.5	019.6	45.50	
208.0	000.1632	0105.1	011.9	077.3	000.1015	0060.5	019.4	45.60	
209.0	000.1656	0104.9	011.9	077.0	000.1001	0060.6	019.2	45.70	
210.0	000.1681	0105.4	012.0	076.7	000.0989	0060.6	019.0	45.81	

				Figure 2-1				
211.0	000.1714	0104.8	012.0	076.3	000.0972	0060.5	018.8	45.87
212.0	000.1747	0105.2	012.1	076.0	000.0960	0060.5	018.6	45.99
213.0	000.1781	0105.9	012.2	075.7	000.0948	0060.6	018.4	46.13
214.0	000.1815	0106.0	012.2	075.4	000.0933	0061.0	018.2	46.26
215.0	000.1849	0105.9	012.3	075.0	000.0916	0061.1	018.0	46.35
216.0	000.1884	0105.8	012.3	074.5	000.0898	0061.1	017.9	46.41
217.0	000.1918	0106.1	012.4	074.1	000.0881	0061.3	017.7	46.51
218.0	000.1954	0106.1	012.5	073.7	000.0862	0061.3	017.5	46.57
219.0	000.1989	0105.7	012.5	073.1	000.0841	0061.6	017.4	46.62
220.0	000.2025	0105.4	012.5	072.6	000.0819	0061.7	017.2	46.66
221.0	000.2043	0105.8	012.6	072.1	000.0798	0061.7	017.0	46.68
222.0	000.2061	0105.7	012.6	071.5	000.0775	0061.8	016.9	46.69
223.0	000.2079	0105.5	012.6	070.8	000.0751	0062.0	016.8	46.67
224.0	000.2098	0105.9	012.7	070.2	000.0729	0062.1	016.7	46.68
225.0	000.2116	0104.8	012.6	069.5	000.0705	0062.4	016.6	46.63
226.0	000.2190	0104.5	012.7	068.9	000.0688	0062.7	016.4	46.71
227.0	000.2266	0104.2	012.8	068.3	000.0671	0062.9	016.2	46.77
228.0	000.2343	0104.8	013.0	067.7	000.0654	0063.2	016.0	46.87
229.0	000.2421	0104.9	013.1	067.1	000.0636	0063.7	015.9	46.97
230.0	000.2500	0105.3	013.2	066.5	000.0618	0064.5	015.7	47.12
231.0	000.2581	0105.7	013.3	065.8	000.0599	0065.4	015.5	47.25
232.0	000.2663	0106.1	013.4	065.0	000.0579	0066.1	015.3	47.35
233.0	000.2746	0106.3	013.6	064.3	000.0559	0066.5	015.1	47.38
234.0	000.2830	0107.7	013.8	063.5	000.0539	0066.0	014.9	47.18
235.0	000.2916	0107.7	013.9	062.6	000.0517	0065.5	014.8	47.10
236.0	000.3003	0106.9	013.9	061.7	000.0494	0065.8	014.7	47.02
237.0	000.3091	0106.7	014.0	060.8	000.0471	0065.9	014.6	46.96
238.0	000.3181	0106.2	014.1	059.9	000.0450	0065.8	014.5	46.84
239.0	000.3272	0106.3	014.2	058.9	000.0432	0065.9	014.4	46.82
240.0	000.3364	0106.9	014.3	057.9	000.0414	0066.6	014.2	46.90
241.0	000.3493	0107.5	014.5	056.8	000.0395	0067.4	014.1	46.99
242.0	000.3624	0107.7	014.7	055.7	000.0377	0067.9	013.9	47.01
243.0	000.3758	0108.3	014.9	054.6	000.0357	0069.2	013.8	47.15
244.0	000.3894	0108.7	015.0	053.4	000.0338	0069.8	013.7	47.14
245.0	000.4032	0108.7	015.2	052.2	000.0319	0070.5	013.6	47.09
246.0	000.4173	0109.2	015.3	050.9	000.0299	0071.9	013.5	47.12
247.0	000.4316	0109.9	015.6	049.6	000.0281	0073.4	013.3	47.18
248.0	000.4462	0110.7	015.8	048.1	000.0264	0074.7	013.2	47.22
249.0	000.4610	0111.1	015.9	046.7	000.0249	0076.1	013.1	47.22
250.0	000.4761	0111.6	016.1	045.3	000.0233	0077.1	013.1	47.12
251.0	000.4900	0111.9	016.3	043.9	000.0218	0078.1	013.1	46.98
252.0	000.5041	0112.4	016.5	042.4	000.0203	0079.4	013.0	46.84
253.0	000.5184	0112.9	016.6	040.9	000.0189	0080.8	013.0	46.67
254.0	000.5329	0113.3	016.8	039.4	000.0178	0081.3	013.1	46.44
255.0	000.5476	0113.9	017.0	037.9	000.0172	0082.7	013.1	46.40
256.0	000.5625	0114.1	017.1	036.5	000.0167	0083.6	013.2	46.26
257.0	000.5776	0114.5	017.3	035.1	000.0161	0084.7	013.2	46.13
258.0	000.5929	0114.8	017.4	033.7	000.0156	0086.2	013.3	46.00
259.0	000.6084	0114.7	017.6	032.4	000.0151	0087.9	013.5	45.87
260.0	000.6241	0114.6	017.7	031.2	000.0147	0088.3	013.6	45.59
261.0	000.6512	0114.6	017.9	029.7	000.0143	0090.8	013.7	45.56
262.0	000.6790	0114.7	018.1	028.2	000.0143	0092.2	013.8	45.55
263.0	000.7073	0114.6	018.3	026.8	000.0143	0093.2	014.0	45.45
264.0	000.7362	0115.2	018.5	025.3	000.0143	0093.8	014.1	45.34
265.0	000.7656	0115.8	018.8	023.8	000.0143	0094.8	014.3	45.24
266.0	000.7957	0116.0	019.0	022.4	000.0143	0095.5	014.5	45.08
267.0	000.8263	0116.0	019.1	021.3	000.0143	0096.6	014.7	44.93
268.0	000.8575	0115.9	019.3	020.1	000.0143	0097.1	014.9	44.71
269.0	000.8892	0116.1	019.5	019.0	000.0143	0099.0	015.2	44.80
270.0	000.9216	0116.2	019.7	017.9	000.0143	0101.0	015.5	44.76
271.0	000.9604	0116.5	019.9	016.7	000.0143	0101.5	015.7	44.58
272.0	001.0000	0116.9	020.2	015.6	000.0143	0101.7	016.0	44.36
273.0	001.0404	0117.3	020.4	014.5	000.0143	0102.0	016.3	44.14

				Figure 2-1				
274.0	001.0816	0117.5	020.6	013.5	000.0143	0103.2	016.6	43.98
275.0	001.1236	0118.0	020.8	012.6	000.0143	0104.1	016.9	43.79
276.0	001.1664	0118.1	021.0	011.8	000.0143	0104.8	017.3	43.57
277.0	001.2100	0118.2	021.2	011.0	000.0143	0106.2	017.6	43.39
278.0	001.2544	0118.6	021.4	010.3	000.0143	0107.9	018.0	43.24
279.0	001.2996	0119.2	021.7	009.5	000.0144	0109.2	018.3	43.10
280.0	001.3456	0119.3	021.9	008.9	000.0146	0108.9	018.7	42.83
281.0	001.3924	0119.4	022.0	008.4	000.0148	0109.6	019.1	42.62
282.0	001.4400	0119.7	022.2	007.9	000.0150	0109.9	019.5	42.38
283.0	001.4884	0119.9	022.4	007.4	000.0152	0109.9	019.9	42.11
284.0	001.5376	0119.9	022.6	007.1	000.0153	0109.9	020.3	41.82
285.0	001.5876	0120.0	022.8	006.7	000.0154	0109.8	020.7	41.53
286.0	001.6384	0119.9	022.9	006.5	000.0155	0109.9	021.2	41.23
287.0	001.6900	0120.0	023.1	006.2	000.0156	0109.9	021.6	40.93
288.0	001.7424	0120.3	023.3	005.9	000.0157	0110.0	022.0	40.64
289.0	001.7956	0120.6	023.5	005.7	000.0158	0110.1	022.5	40.34
290.0	001.8496	0121.3	023.7	005.4	000.0159	0110.2	022.9	40.03
291.0	001.8989	0121.7	023.9	005.3	000.0160	0110.3	023.3	39.72
292.0	001.9488	0122.3	024.0	005.1	000.0160	0110.4	023.8	39.42
293.0	001.9994	0122.7	024.2	005.0	000.0161	0110.6	024.3	39.11
294.0	002.0506	0123.1	024.4	005.0	000.0161	0110.7	024.7	38.80
295.0	002.1025	0123.4	024.6	004.9	000.0161	0110.8	025.2	38.49
296.0	002.1550	0123.1	024.7	005.0	000.0161	0110.6	025.6	38.16
297.0	002.2082	0123.2	024.8	005.1	000.0160	0110.5	026.1	37.84
298.0	002.2620	0123.7	025.0	005.1	000.0160	0110.5	026.5	37.52

WSHB.A

10-24-2013

RMS(V)= .788

Graph is Relative Field

Azi	Field	dBk	kw
000	0.200	-17.447	0.018
010	0.178	-18.459	0.014
020	0.178	-18.459	0.014
030	0.178	-18.459	0.014
040	0.200	-17.447	0.018
050	0.252	-15.440	0.029
060	0.317	-13.447	0.045
070	0.400	-11.427	0.072
080	0.503	-9.437	0.114
090	0.632	-7.454	0.180
100	0.795	-5.461	0.284
110	1.000	-3.468	0.450
120	1.000	-3.468	0.450
130	1.000	-3.468	0.450
140	1.000	-3.468	0.450
150	1.000	-3.468	0.450
160	1.000	-3.468	0.450
170	1.000	-3.468	0.450
180	1.000	-3.468	0.450
190	1.000	-3.468	0.450
200	1.000	-3.468	0.450
210	1.000	-3.468	0.450
220	1.000	-3.468	0.450
230	1.000	-3.468	0.450
240	1.000	-3.468	0.450
250	1.000	-3.468	0.450
260	1.000	-3.468	0.450
270	1.000	-3.468	0.450
280	1.000	-3.468	0.450
290	1.000	-3.468	0.450
300	0.795	-5.461	0.284
310	0.632	-7.454	0.180
320	0.503	-9.437	0.114
330	0.400	-11.427	0.072
340	0.317	-13.447	0.045
350	0.252	-15.440	0.029

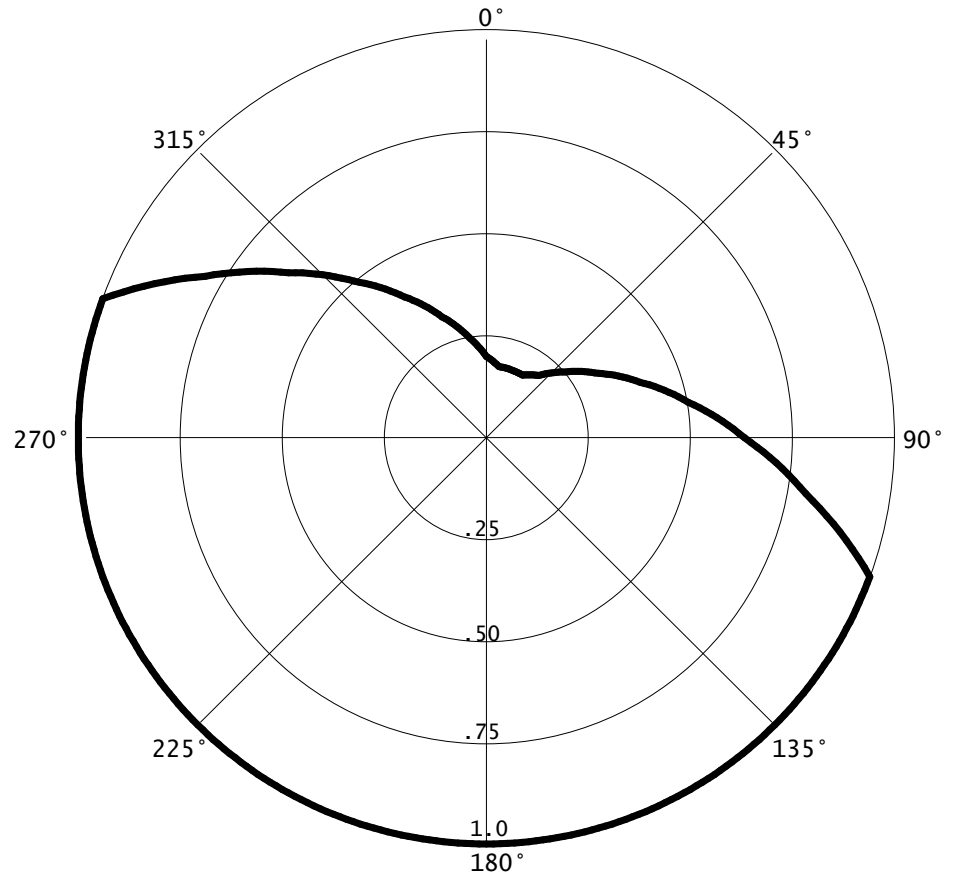


Figure 4
Minor Modification of WSHB

Coverage Study - NED 03 SEC
10-24-2013

WSHB-A CH215 A , 0.45 kW, 71.4M HAAT, 361.8M COR AMSL
Service Contour = 60 dBu. Population = 15,760

