

Branchville, South Carolina  
Application for New Noncommercial FM Station  
On Channel 205 Class C3  
by  
Spirit Broadcasting Group, Inc.

Exhibit 15  
Allocations

October 2007

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Declaration

I declare, under penalty of perjury, that I am a technical consultant to broadcasting and other communications systems, that I have over twenty-five years of experience in the engineering of broadcast and other communications systems, that I am familiar with the Federal Communications Commission's Rules found in the Code of Federal Regulations Title 47, that I am a Professional Engineer registered in North Carolina, that I have prepared or supervised the preparation of the attached Exhibit 15, Allocations, for Spirit Broadcasting Group, Inc., and that all of the facts therein, except for facts of which the Federal Communications Commission may take official notice, are true to the best of my knowledge and belief.



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7 October 2007

### Narrative

This Exhibit provides details of the allocations for the proposed new station to serve Branchville, South Carolina. This proposal complies fully with the requirements of 74 C.F.R. 73.509.

### Allocations

This application proposes service to Branchville, South Carolina, on channel 205 as a Class C3 facility. The Allocations Table in this exhibit provides a list of the stations, construction permits, allocations, and applications studied. All are protected by this application.

An Allocations Study is included as Figure 1. Where there are facilities whose overlap is less than 3.2 kilometers (2 miles) additional figures are provided, along with the output tables from the computer program FMOVER. Those facilities are identified below.

Figure/Table	Facility ID	Community	Channel and Relationship
2	WLJK	Aiken, South Carolina	206C1 first adjacent
3	WNSC-FM	Rock Hill, South Carolina	205C1 co-channel
4	WAGP.C	Beaufort, South Carolina	204C1 first adjacent
5	WSCI	Charleston, South Carolina	207C second adjacent

### Directional Antenna

This application proposes a directional antenna. The pattern is tabulated and plotted as a Figure in this Exhibit. The antenna will comply with the requirements of §73.316. A complete proof of performance from the antenna manufacturer will be provided in the license application. The antenna will be mounted to the tower as specified in the manufacturer's mounting instructions. The antenna will not be mounted on the top of an antenna tower which includes a top-mounted platform larger than the nominal cross-sectional area of the tower in the horizontal plane. No other antenna of any type will be mounted on the same tower level as a directional antenna, and that no antenna of any type will be mounted within any horizontal or vertical distance specified by the antenna manufacturer as being necessary for proper directional operation. Antenna installation will be supervised by an engineer experienced in directional antennas. The supervising engineer will provide a statement of qualifications and a statement that the antenna was assembled and installed according to the manufacturer's instruction. A registered land surveyor will verify the orientation of the antenna and provide a statement that the antenna is properly oriented. There are no other FM or TV broadcasting antennas within 60 meters of the proposed site. There are no AM broadcasting antennas within 3.2 kilometers of the proposed site.

### Source of Data

Transmitter location, effective radiated power, directional antenna pattern, and elevation data are extracted from the Commission's CDBS. All contours for existing and proposed facilities are calculated using height above average terrain calculated at one degree horizontal increments. Terrain data is extracted from the V-Soft Communications NED 03 terrain database. The NED 03 database is derived from the USGS National Elevation Data 30 meter terrain

database. The USGS National Elevation Dataset has been developed by merging the highest-resolution, best-quality elevation data available across the United States into a seamless raster format. NED is the result of the maturation of the USGS effort to provide 1:24,000-scale Digital Elevation Model (DEM) data for the conterminous US and 1:63,360-scale DEM data for Alaska.

All population data is from 2000 U.S. Census SF1 data files. Population is counted by considering the location of the centroid of each census bloc. The data for each block is counted if it falls within the area being counted.

### Area and Population

The area within the proposed 60 dBu F(50,50) service contour is calculated by a computer program which sums the areas within the contours based on 360 radials. The area of any significant water is then measured and subtracted. The resulting area is shown on a Figure at the end of this Exhibit. The population is calculated by the centroid method and is also listed on the Figure.

Table 1: Allocations

Timothy L. Warner, Inc.  
Asheville, North Carolina

Spirit Broadcasting Group, Inc.

Allocation Study

REFERENCE CH# 205C3- 88.9 MHz, Pwr= 18 kw, HAAT= 90.2 M, COR= 120 M DISPLAY DATES  
33 12 25.4 N. DATA 10-06-07  
80 36 47.3 W. SEARCH 10-07-07

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*
06+2C Augusta	WJBF	LI HY GA	281.3 100.7	115.78 BLCT20040130AOR	33 24 20.0 81 50 01.0	100.000 495	116.8 564	154.9R Media General Communicatio	-39.1M	
206C1 Aiken	WLJK	LIC HN SC	281.3 100.6	116.12 BLED19890814KA	33 24 18.0 81 50 15.0	10.000 419	83.0 498	56.0 South Carolina Educational	0.64 8.72	
205C1 Rock Hill	WNCS-FM	LIC C SC	348.5 168.3	184.93 BMLED20060215AAK	34 50 23.0 81 01 07.0	100.000 183	161.8 359	63.8 South Carolina Educational	1.36 50.00	
204C1 Beaufort	WAGP	CP DCX SC	197.0 16.8	98.49 BPED20070604ACR	32 21 27.1 80 55 11.2	100.000 103	71.8 105	46.0 Community Broadcasting Cor	2.03 15.02	
207C Charleston	WSCI	LIC DCY SC	110.0 290.5	90.90 BLED19921223KA	32 55 28.0 79 41 58.0	100.000 418	11.7 419	80.7 South Carolina Educational	43.66 6.62	
204C3 Beaufort	WAGP	LIC DC SC	187.5 7.5	90.22 BLED20000927ABE	32 24 02.0 80 44 23.0	25.000 100	50.8 102	32.7 Community Broadcasting Cor	15.55 21.60	
205C1 North Myrtle Beach Vertical Polarization Only	WKVC	LIC DVN SC	62.9 244.1	221.50 BLED19970924KA	34 05 41.0 78 28 27.0	100.000 177	159.1 188	61.7 Educational Media Foundati	26.92 54.60	
203C2 Charleston	WFCH	LIC CN SC	120.6 301.0	84.52 BLED19861217KA	32 49 04.0 79 50 08.0	29.500 93	4.1 96	39.3 Family Stations, Inc.	45.06 41.60	
06Z2 Wren	LMWCES	AP DHN GA	272.6 91.7	156.02 BPRM20060619ABI	33 15 33.0 82 17 09.0	30.000 436	63.0 551	102.2R Test	53.8M	
203C2 Cayce	WYFV	LIC DCX SC	330.1 149.9	89.98 BLED20060310ACX	33 54 32.0 81 05 57.0	50.000 52	3.3 132	32.5 Bible Broadcasting Network	63.28 55.20	
259C1 Hollywood	WXST	LIC NCX SC	120.6 301.0	84.52 BLH20030716ABV	32 49 04.0 79 50 08.0	70.000 238	12.9 239	60.2 Apex Broadcasting, Inc.	26.5R 58.0M	
259C1 Hollywood	ALLO	USE SC	171.6 351.7	88.30 RM10513	32 25 10.0 80 28 30.0	100.000 299	12.9 300	60.2 26.5R	61.8M	
Change of community 5/6/2003: From Channel 259C, Port Royal, SC pursuant to R&O, MM Docket No. 02-198, rele ased December 20, 2002, effective February 3, 2003. 5/6/2003: Dowgraded to C1 by grant of BPH-20030206AAE, effective 5/6/2003.										
202C2 Belvedere	WAFJ	LIC CN SC	281.4 100.7	116.72 BLED19931122KD	33 24 29.0 81 50 36.0	4.500 423	4.0 497	48.4 Radio Training Network, In	80.28 65.00	

Terrain database is NED 03 SEC

ERP and HAAT on direct-line with reference station.

Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)

**Table 2: FMOVER protection of WLJK, Aiken, South Carolina**

10-07-2007 NED 03 SEC Terrain Data				FMOver Analysis				
Branchville				WLJK BLED19890814KA				
Channel = 205C3				Channel = 206C1				
Max ERP = 18 kW				Max ERP = 10 kW				
RCAMSL = 120 M				RCAMSL = 498 M				
N. Lat. 33 12 25.4				N. Lat. 33 24 18.0				
W. Lng. 80 36 47.3				W. Lng. 81 50 15.0				
Protected				Interfering				
60 dBu				54 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
221.0	010.3539	0092.1	030.8	115.5	010.0000	0394.6	104.2	47.51
222.0	010.8419	0091.8	031.1	115.6	010.0000	0394.6	103.7	47.67
223.0	011.3528	0091.6	031.4	115.7	010.0000	0394.6	103.0	47.83
224.0	011.8879	0091.5	031.7	115.8	010.0000	0394.6	102.4	48.00
225.0	012.4482	0091.4	032.1	115.9	010.0000	0394.5	101.8	48.17
226.0	013.0348	0091.4	032.4	115.9	010.0000	0394.4	101.1	48.34
227.0	013.6491	0091.4	032.8	116.0	010.0000	0394.3	100.5	48.52
228.0	014.2924	0091.4	033.2	116.1	010.0000	0394.2	099.8	48.71
229.0	014.9660	0091.3	033.5	116.2	010.0000	0394.2	099.1	48.89
230.0	015.6713	0091.3	033.9	116.2	010.0000	0394.2	098.4	49.08
231.0	016.4099	0091.5	034.3	116.3	010.0000	0394.2	097.7	49.28
232.0	017.1832	0091.4	034.6	116.3	010.0000	0394.2	097.1	49.48
233.0	017.9931	0091.2	035.0	116.4	010.0000	0394.2	096.4	49.67
234.0	018.0000	0091.0	034.9	116.2	010.0000	0394.2	095.8	49.83
235.0	018.0000	0090.7	034.9	116.0	010.0000	0394.4	095.3	49.98
236.0	018.0000	0091.0	034.9	115.8	010.0000	0394.6	094.8	50.15
237.0	018.0000	0091.1	034.9	115.6	010.0000	0394.6	094.2	50.32
238.0	018.0000	0091.2	035.0	115.5	010.0000	0394.5	093.7	50.47
239.0	018.0000	0091.2	035.0	115.3	010.0000	0394.3	093.2	50.62
240.0	018.0000	0091.1	034.9	115.0	010.0000	0394.0	092.7	50.77
241.0	018.0000	0090.6	034.9	114.8	010.0000	0393.8	092.2	50.90
242.0	018.0000	0090.4	034.8	114.5	010.0000	0393.7	091.8	51.05
243.0	018.0000	0090.4	034.8	114.3	010.0000	0393.9	091.3	51.21
244.0	018.0000	0090.1	034.7	114.0	010.0000	0394.1	090.8	51.35
245.0	018.0000	0089.7	034.7	113.7	010.0000	0394.3	090.4	51.49
246.0	018.0000	0089.5	034.6	113.5	010.0000	0394.6	090.0	51.64
247.0	018.0000	0089.3	034.6	113.2	010.0000	0394.7	089.6	51.78
248.0	018.0000	0089.5	034.6	112.9	010.0000	0395.0	089.1	51.94
249.0	018.0000	0089.6	034.7	112.7	010.0000	0395.3	088.7	52.09
250.0	018.0000	0089.4	034.6	112.4	010.0000	0395.6	088.3	52.23
251.0	018.0000	0089.1	034.6	112.0	010.0000	0395.5	087.9	52.35
252.0	018.0000	0089.1	034.6	111.7	010.0000	0394.8	087.5	52.46
253.0	018.0000	0088.9	034.5	111.4	010.0000	0394.1	087.2	52.55
254.0	018.0000	0088.9	034.5	111.1	010.0000	0393.8	086.8	52.67
255.0	018.0000	0088.8	034.5	110.8	010.0000	0394.0	086.5	52.79
256.0	018.0000	0088.7	034.5	110.4	010.0000	0394.1	086.1	52.90
257.0	018.0000	0088.3	034.4	110.1	010.0000	0393.7	085.8	52.99

258.0	018.0000	0087.7	034.3		109.7	010.0000	0393.5	085.6	53.06
259.0	018.0000	0087.6	034.3		109.4	010.0000	0393.7	085.3	53.17
260.0	018.0000	0087.2	034.2		109.0	010.0000	0393.8	085.1	53.25
261.0	017.9856	0086.5	034.1		108.6	010.0000	0393.6	084.9	53.30
262.0	017.9712	0086.2	034.0		108.2	010.0000	0393.4	084.7	53.37
263.0	017.9568	0085.9	034.0		107.8	010.0000	0393.3	084.5	53.43
264.0	017.9424	0085.8	033.9		107.5	010.0000	0393.7	084.3	53.52
265.0	017.9281	0085.7	033.9		107.1	010.0000	0394.4	084.1	53.61
266.0	017.9137	0085.2	033.8		106.7	010.0000	0395.0	083.9	53.68
267.0	017.8993	0084.7	033.7		106.3	010.0000	0395.3	083.8	53.72
268.0	017.8850	0084.3	033.6		105.9	010.0000	0395.1	083.7	53.75
269.0	017.8706	0084.1	033.6		105.5	010.0000	0394.5	083.6	53.78
270.0	017.8563	0084.0	033.5		105.1	010.0000	0394.1	083.4	53.81
271.0	017.6882	0083.9	033.4		104.7	010.0000	0393.8	083.4	53.83
272.0	017.5208	0084.0	033.4		104.3	010.0000	0393.7	083.3	53.85
273.0	017.3543	0083.6	033.2		103.9	010.0000	0393.5	083.3	53.83
274.0	017.1886	0083.7	033.2		103.5	010.0000	0393.5	083.3	53.85
275.0	017.0236	0083.7	033.1		103.1	010.0000	0393.7	083.3	53.86
276.0	016.8595	0083.5	033.0		102.7	010.0000	0394.1	083.3	53.86
277.0	016.6961	0083.2	032.9		102.3	010.0000	0394.5	083.4	53.85
278.0	016.5336	0082.8	032.7		101.8	010.0000	0394.8	083.5	53.82
279.0	016.3718	0082.5	032.6		101.5	010.0000	0395.3	083.6	53.81
280.0	016.2108	0082.3	032.4		101.1	010.0000	0395.6	083.7	53.78
281.0	016.3855	0082.0	032.5		100.7	010.0000	0395.6	083.6	53.80
282.0	016.5612	0081.7	032.5		100.3	010.0000	0395.6	083.6	53.80
283.0	016.7377	0081.8	032.6		099.9	010.0000	0395.3	083.5	53.82
284.0	016.9153	0082.0	032.7		099.5	010.0000	0394.7	083.4	53.83
285.0	017.0937	0082.0	032.8		099.1	010.0000	0393.8	083.4	53.82
286.0	017.2731	0081.9	032.9		098.7	010.0000	0393.1	083.4	53.79
287.0	017.4534	0082.1	033.0		098.3	010.0000	0392.6	083.3	53.79
288.0	017.6347	0082.2	033.1		097.9	010.0000	0392.4	083.3	53.79
289.0	017.8169	0082.2	033.2		097.5	010.0000	0392.3	083.4	53.78
290.0	018.0000	0082.3	033.3		097.1	010.0000	0392.6	083.4	53.78
291.0	017.7688	0082.2	033.1		096.7	010.0000	0393.0	083.6	53.71
292.0	017.5392	0082.2	033.0		096.3	010.0000	0393.4	083.9	53.64
293.0	017.3110	0082.3	033.0		096.0	010.0000	0393.6	084.1	53.57
294.0	017.0843	0082.7	032.9		095.6	010.0000	0393.9	084.3	53.51
295.0	016.8591	0083.4	033.0		095.2	010.0000	0394.2	084.5	53.47
296.0	016.6354	0083.4	032.8		094.9	010.0000	0394.5	084.8	53.38
297.0	016.4132	0082.8	032.6		094.6	010.0000	0394.8	085.2	53.25
298.0	016.1925	0082.5	032.5		094.3	010.0000	0395.0	085.5	53.13
299.0	015.9733	0082.3	032.3		094.0	010.0000	0395.1	085.9	53.01
300.0	015.7556	0082.1	032.2		093.7	010.0000	0395.3	086.3	52.89
301.0	015.0465	0081.8	031.8		093.5	010.0000	0395.3	086.9	52.68
302.0	014.3693	0081.9	031.4		093.2	010.0000	0395.3	087.5	52.50
303.0	013.7226	0081.6	031.0		093.0	010.0000	0395.2	088.1	52.30
304.0	013.1050	0081.6	030.7		092.9	010.0000	0395.2	088.6	52.11
305.0	012.5151	0081.6	030.4		092.7	010.0000	0395.1	089.2	51.92
306.0	011.9519	0081.5	030.0		092.5	010.0000	0395.1	089.7	51.74
307.0	011.4139	0081.4	029.7		092.3	010.0000	0395.1	090.3	51.56
308.0	010.9002	0081.3	029.3		092.2	010.0000	0395.1	090.9	51.37
309.0	010.4096	0081.1	029.0		092.1	010.0000	0395.2	091.5	51.19
310.0	009.9411	0080.9	028.7		091.9	010.0000	0395.2	092.0	51.02
311.0	009.4937	0080.9	028.4		091.8	010.0000	0395.3	092.6	50.85
312.0	009.0664	0080.8	028.1		091.7	010.0000	0395.4	093.1	50.68
313.0	008.6584	0080.6	027.8		091.6	010.0000	0395.5	093.7	50.51
314.0	008.2687	0080.7	027.5		091.5	010.0000	0395.5	094.2	50.35

315.0	007.8965	0080.6	027.2		091.4	010.0000	0395.6	094.7	50.19
316.0	007.5411	0080.7	026.9		091.3	010.0000	0395.7	095.2	50.04
317.0	007.2017	0080.9	026.7		091.2	010.0000	0395.8	095.8	49.90
318.0	006.8776	0080.9	026.4		091.1	010.0000	0395.9	096.3	49.75
319.0	006.5680	0080.8	026.1		091.0	010.0000	0396.0	096.8	49.60
320.0	006.2724	0080.8	025.8		091.0	010.0000	0396.1	097.3	49.46
321.0	005.9901	0080.7	025.6		090.9	010.0000	0396.1	097.8	49.31
322.0	005.7205	0080.4	025.3		090.9	010.0000	0396.2	098.4	49.16
323.0	005.4631	0080.4	025.0		090.9	010.0000	0396.2	098.9	49.02
324.0	005.2172	0080.4	024.7		090.8	010.0000	0396.2	099.4	48.88
325.0	004.9824	0080.3	024.5		090.8	010.0000	0396.3	099.9	48.75
326.0	004.7581	0080.2	024.2		090.8	010.0000	0396.3	100.4	48.61
327.0	004.5440	0080.1	023.9		090.8	010.0000	0396.3	100.9	48.47
328.0	004.3395	0080.2	023.7		090.8	010.0000	0396.3	101.4	48.34
329.0	004.1992	0080.3	023.5		090.7	010.0000	0396.4	101.8	48.22
330.0	004.0612	0080.4	023.4		090.7	010.0000	0396.4	102.2	48.11
331.0	003.9256	0080.5	023.2		090.6	010.0000	0396.5	102.7	47.99
332.0	003.7923	0080.7	023.0		090.6	010.0000	0396.5	103.1	47.87
333.0	003.6612	0080.9	022.9		090.6	010.0000	0396.6	103.5	47.76
334.0	003.5325	0081.0	022.7		090.5	010.0000	0396.6	104.0	47.64
335.0	003.4217	0081.1	022.6		090.5	010.0000	0396.6	104.4	47.53
336.0	003.3282	0081.2	022.4		090.5	010.0000	0396.6	104.8	47.42
337.0	003.2360	0081.4	022.3		090.5	010.0000	0396.7	105.2	47.32
338.0	003.1601	0081.5	022.2		090.4	010.0000	0396.7	105.6	47.21
339.0	003.1000	0081.6	022.1		090.4	010.0000	0396.7	106.0	47.11
340.0	003.0406	0081.9	022.1		090.4	010.0000	0396.8	106.4	47.01
341.0	002.9964	0081.9	022.0		090.3	010.0000	0396.8	106.8	46.91

10-07-2007 NED 03 SEC Terrain Data

WLJK BLED19890814KA

Channel = 206C1

Max ERP = 10 kW

RCAMSL = 498 M

N. Lat. 33 24 18.0

W. Lng. 81 50 15.0

Protected

60 dBu

Branchville

Channel = 205C3

Max ERP = 18 kW

RCAMSL = 120 M

N. Lat. 33 12 25.4

W. Lng. 80 36 47.3

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
041.0	010.0000	0376.2	054.9		309.5	010.1571	0081.0	100.4	38.05
042.0	010.0000	0376.1	054.9		309.5	010.1586	0081.0	099.4	38.27
043.0	010.0000	0375.9	054.9		309.5	010.1784	0081.0	098.4	38.49
044.0	010.0000	0375.5	054.9		309.4	010.2064	0081.0	097.5	38.72
045.0	010.0000	0375.4	054.9		309.4	010.2341	0081.0	096.5	38.95
046.0	010.0000	0375.3	054.9		309.3	010.2684	0081.0	095.6	39.18
047.0	010.0000	0373.6	054.8		309.2	010.3339	0081.0	094.6	39.43
048.0	010.0000	0375.3	054.9		309.1	010.3489	0081.0	093.7	39.67
049.0	010.0000	0377.3	055.0		309.1	010.3653	0081.0	092.7	39.92
050.0	010.0000	0380.0	055.1		309.1	010.3753	0081.0	091.7	40.16
051.0	010.0000	0379.3	055.1		308.9	010.4492	0081.1	090.8	40.43

052.0	010.0000	0377.5	055.0		308.7	010.5472	0081.1	089.9	40.71
053.0	010.0000	0377.4	055.0		308.6	010.6253	0081.2	089.0	40.98
054.0	010.0000	0377.5	055.0		308.4	010.7054	0081.2	088.1	41.26
055.0	010.0000	0379.9	055.1		308.3	010.7538	0081.2	087.1	41.53
056.0	010.0000	0383.1	055.3		308.2	010.7945	0081.2	086.1	41.80
057.0	010.0000	0384.5	055.4		308.1	010.8752	0081.2	085.2	42.09
058.0	010.0000	0384.4	055.4		307.8	010.9922	0081.3	084.3	42.38
059.0	010.0000	0384.1	055.4		307.6	011.1207	0081.4	083.4	42.67
060.0	010.0000	0385.5	055.5		307.4	011.2272	0081.4	082.5	42.96
061.0	010.0000	0385.2	055.4		307.1	011.3748	0081.4	081.6	43.25
062.0	010.0000	0383.7	055.4		306.7	011.5570	0081.5	080.8	43.55
063.0	010.0000	0382.9	055.3		306.4	011.7386	0081.5	079.9	43.84
064.0	010.0000	0382.7	055.3		306.1	011.9185	0081.5	079.1	44.14
065.0	010.0000	0383.1	055.3		305.7	012.1028	0081.6	078.2	44.43
066.0	010.0000	0382.0	055.3		305.3	012.3290	0081.6	077.4	44.73
067.0	010.0000	0381.9	055.2		304.9	012.5466	0081.6	076.6	45.03
068.0	010.0000	0382.9	055.3		304.6	012.7612	0081.6	075.8	45.33
069.0	010.0000	0383.6	055.3		304.2	012.9935	0081.6	075.0	45.63
070.0	010.0000	0384.6	055.4		303.8	013.2377	0081.6	074.2	45.93
071.0	010.0000	0385.2	055.4		303.3	013.5082	0081.6	073.4	46.23
072.0	010.0000	0387.4	055.6		302.9	013.7608	0081.6	072.5	46.54
073.0	010.0000	0389.9	055.7		302.5	014.0293	0081.7	071.7	46.86
074.0	010.0000	0391.6	055.8		302.1	014.3322	0081.8	070.9	47.18
075.0	010.0000	0395.1	056.0		301.6	014.6191	0081.9	070.1	47.50
076.0	010.0000	0399.9	056.3		301.2	014.8965	0081.8	069.2	47.83
077.0	010.0000	0403.7	056.5		300.8	015.2220	0081.8	068.4	48.16
078.0	010.0000	0400.3	056.3		300.0	015.7340	0082.1	067.8	48.47
079.0	010.0000	0397.5	056.1		299.3	015.9057	0082.3	067.3	48.67
080.0	010.0000	0395.9	056.0		298.6	016.0594	0082.4	066.8	48.87
081.0	010.0000	0394.9	056.0		297.9	016.2133	0082.5	066.2	49.08
082.0	010.0000	0395.0	056.0		297.2	016.3657	0082.7	065.7	49.29
083.0	010.0000	0394.5	055.9		296.5	016.5268	0083.1	065.1	49.51
084.0	010.0000	0395.4	056.0		295.8	016.6848	0083.4	064.6	49.74
085.0	010.0000	0397.2	056.1		295.1	016.8437	0083.4	064.0	49.94
086.0	010.0000	0398.8	056.2		294.3	017.0093	0082.9	063.5	50.11
087.0	010.0000	0398.8	056.2		293.5	017.1889	0082.5	063.0	50.27
088.0	010.0000	0398.2	056.2		292.7	017.3767	0082.3	062.6	50.41
089.0	010.0000	0396.8	056.1		291.9	017.5724	0082.2	062.3	50.56
090.0	010.0000	0397.2	056.1		291.0	017.7649	0082.2	061.9	50.72
091.0	010.0000	0396.1	056.0		290.1	017.9676	0082.2	061.7	50.86
092.0	010.0000	0395.2	056.0		289.3	017.8635	0082.3	061.4	50.92
093.0	010.0000	0395.2	056.0		288.4	017.7026	0082.3	061.2	50.96
094.0	010.0000	0395.1	056.0		287.5	017.5398	0082.2	060.9	50.98
095.0	010.0000	0394.4	055.9		286.6	017.3752	0082.0	060.8	50.99
096.0	010.0000	0393.6	055.9		285.6	017.2098	0082.0	060.6	50.98
097.0	010.0000	0392.7	055.9		284.7	017.0444	0082.0	060.6	50.97
098.0	010.0000	0392.4	055.8		283.8	016.8798	0081.9	060.5	50.95
099.0	010.0000	0393.6	055.9		282.9	016.7163	0081.8	060.3	50.95
100.0	010.0000	0395.4	056.0		282.0	016.5525	0081.7	060.2	50.94
101.0	010.0000	0395.6	056.0		281.0	016.3882	0082.0	060.2	50.93
102.0	010.0000	0394.7	056.0		280.1	016.2252	0082.3	060.2	50.88
103.0	010.0000	0393.8	055.9		279.2	016.3468	0082.5	060.4	50.89
104.0	010.0000	0393.5	055.9		278.2	016.4964	0082.7	060.5	50.91
105.0	010.0000	0394.0	055.9		277.3	016.6465	0083.0	060.6	50.94
106.0	010.0000	0395.2	056.0		276.4	016.7976	0083.4	060.6	50.98
107.0	010.0000	0394.5	056.0		275.5	016.9454	0083.6	060.9	50.96
108.0	010.0000	0393.3	055.9		274.6	017.0908	0083.6	061.2	50.90

109.0	010.0000	0393.8	055.9		273.7	017.2384	0083.7	061.4	50.87
110.0	010.0000	0393.6	055.9		272.8	017.3831	0083.7	061.7	50.82
111.0	010.0000	0393.8	055.9		272.0	017.5273	0084.0	062.0	50.78
112.0	010.0000	0395.4	056.0		271.1	017.6739	0083.9	062.2	50.73
113.0	010.0000	0394.9	056.0		270.3	017.8124	0084.1	062.6	50.65
114.0	010.0000	0394.1	055.9		269.5	017.8641	0084.0	063.1	50.52
115.0	010.0000	0394.0	055.9		268.7	017.8755	0084.2	063.5	50.41
116.0	010.0000	0394.3	055.9		267.9	017.8868	0084.4	063.9	50.29
117.0	010.0000	0394.4	055.9		267.1	017.8978	0084.6	064.4	50.17
118.0	010.0000	0395.6	056.0		266.3	017.9089	0085.1	064.9	50.07
119.0	010.0000	0397.1	056.1		265.6	017.9199	0085.5	065.3	49.96
120.0	010.0000	0399.8	056.2		264.8	017.9312	0085.7	065.8	49.85
121.0	010.0000	0400.9	056.3		264.1	017.9416	0085.8	066.3	49.71
122.0	010.0000	0400.1	056.3		263.4	017.9508	0085.9	066.9	49.53
123.0	010.0000	0401.6	056.3		262.7	017.9607	0086.0	067.5	49.37
124.0	010.0000	0402.3	056.4		262.1	017.9701	0086.2	068.1	49.21
125.0	010.0000	0403.3	056.4		261.4	017.9792	0086.5	068.8	49.05
126.0	010.0000	0403.6	056.5		260.8	017.9878	0086.5	069.5	48.86
127.0	010.0000	0404.5	056.5		260.3	017.9963	0086.9	070.1	48.69
128.0	010.0000	0405.3	056.5		259.7	018.0000	0087.5	070.8	48.53
129.0	010.0000	0406.9	056.6		259.1	018.0000	0087.6	071.5	48.34
130.0	010.0000	0409.3	056.8		258.5	018.0000	0087.6	072.2	48.14
131.0	010.0000	0409.9	056.8		258.0	018.0000	0087.7	073.0	47.93
132.0	010.0000	0409.0	056.8		257.6	018.0000	0087.9	073.8	47.71
133.0	010.0000	0407.6	056.7		257.2	018.0000	0088.1	074.7	47.48
134.0	010.0000	0407.8	056.7		256.8	018.0000	0088.4	075.5	47.27
135.0	010.0000	0409.8	056.8		256.3	018.0000	0088.6	076.3	47.07
136.0	010.0000	0409.1	056.8		256.0	018.0000	0088.7	077.2	46.83
137.0	010.0000	0409.8	056.8		255.6	018.0000	0088.6	078.0	46.59
138.0	010.0000	0411.5	056.9		255.2	018.0000	0088.7	078.9	46.36
139.0	010.0000	0411.6	056.9		254.9	018.0000	0088.8	079.8	46.12
140.0	010.0000	0411.0	056.9		254.6	018.0000	0088.8	080.7	45.88
141.0	010.0000	0411.2	056.9		254.3	018.0000	0088.8	081.6	45.63
142.0	010.0000	0411.7	056.9		254.0	018.0000	0088.9	082.5	45.38
143.0	010.0000	0413.6	057.0		253.7	018.0000	0089.0	083.4	45.14
144.0	010.0000	0416.4	057.2		253.4	018.0000	0089.0	084.3	44.91
145.0	010.0000	0418.5	057.3		253.1	018.0000	0089.0	085.2	44.65
146.0	010.0000	0421.0	057.4		252.8	018.0000	0088.8	086.1	44.40
147.0	010.0000	0423.0	057.5		252.6	018.0000	0088.8	087.0	44.15
148.0	010.0000	0424.6	057.6		252.3	018.0000	0088.9	088.0	43.90
149.0	010.0000	0426.0	057.7		252.2	018.0000	0089.0	089.0	43.64
150.0	010.0000	0427.3	057.8		252.0	018.0000	0089.1	089.9	43.39
151.0	010.0000	0428.7	057.9		251.8	018.0000	0089.1	090.9	43.13
152.0	010.0000	0430.6	058.0		251.6	018.0000	0089.1	091.9	42.88
153.0	010.0000	0432.9	058.1		251.4	018.0000	0089.1	092.9	42.63
154.0	010.0000	0435.3	058.2		251.3	018.0000	0089.1	093.9	42.38
155.0	010.0000	0437.1	058.3		251.2	018.0000	0089.1	094.9	42.13
156.0	010.0000	0439.0	058.4		251.0	018.0000	0089.1	095.9	41.89
157.0	010.0000	0440.3	058.5		250.9	018.0000	0089.1	096.9	41.65
158.0	010.0000	0442.0	058.6		250.9	018.0000	0089.1	097.9	41.41
159.0	010.0000	0443.6	058.7		250.8	018.0000	0089.1	098.9	41.18
160.0	010.0000	0444.5	058.8		250.8	018.0000	0089.1	099.9	40.95
161.0	010.0000	0444.6	058.8		250.7	018.0000	0089.1	101.0	40.72

**Table 3: FMOVER Protection of WNSC-FM, Rock Hill, South Carolina**

10-07-2007 NED 03 SEC Terrain Data				FMOver Analysis				
Branchville				WNSC-FM BMLED20060215AAK				
Channel = 205C3				Channel = 205C1				
Max ERP = 18 kW				Max ERP = 100 kW				
RCAMSL = 120 M				RCAMSL = 359 M				
N. Lat. 33 12 25.4				N. Lat. 34 50 23.0				
W. Lng. 80 36 47.3				W. Lng. 81 01 07.0				
Protected				Interfering				
60 dBu				40 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
288.0	017.6347	0082.2	033.1	178.0	100.0000	0195.2	171.0	38.28
289.0	017.8169	0082.2	033.2	178.0	100.0000	0195.3	170.4	38.38
290.0	018.0000	0082.3	033.3	177.9	100.0000	0195.3	169.8	38.49
291.0	017.7688	0082.2	033.1	177.8	100.0000	0195.6	169.3	38.58
292.0	017.5392	0082.2	033.0	177.7	100.0000	0195.9	168.9	38.67
293.0	017.3110	0082.3	033.0	177.6	100.0000	0196.2	168.4	38.76
294.0	017.0843	0082.7	032.9	177.5	100.0000	0196.4	167.9	38.86
295.0	016.8591	0083.4	033.0	177.4	100.0000	0196.7	167.3	38.96
296.0	016.6354	0083.4	032.8	177.3	100.0000	0196.9	166.9	39.04
297.0	016.4132	0082.8	032.6	177.1	100.0000	0197.3	166.5	39.12
298.0	016.1925	0082.5	032.5	177.0	100.0000	0197.6	166.1	39.20
299.0	015.9733	0082.3	032.3	176.8	100.0000	0198.0	165.7	39.28
300.0	015.7556	0082.1	032.2	176.7	100.0000	0198.2	165.3	39.35
301.0	015.0465	0081.8	031.8	176.4	100.0000	0198.7	165.1	39.40
302.0	014.3693	0081.9	031.4	176.2	100.0000	0198.9	164.8	39.45
303.0	013.7226	0081.6	031.0	176.0	100.0000	0199.0	164.6	39.49
304.0	013.1050	0081.6	030.7	175.8	100.0000	0198.9	164.4	39.53
305.0	012.5151	0081.6	030.4	175.6	100.0000	0198.9	164.2	39.57
306.0	011.9519	0081.5	030.0	175.4	100.0000	0198.8	164.0	39.60
307.0	011.4139	0081.4	029.7	175.2	100.0000	0198.8	163.8	39.63
308.0	010.9002	0081.3	029.3	175.0	100.0000	0198.9	163.7	39.66
309.0	010.4096	0081.1	029.0	174.8	100.0000	0198.9	163.5	39.68
310.0	009.9411	0080.9	028.7	174.6	100.0000	0198.8	163.4	39.70
311.0	009.4937	0080.9	028.4	174.4	100.0000	0198.6	163.3	39.72
312.0	009.0664	0080.8	028.1	174.2	100.0000	0198.3	163.2	39.73
313.0	008.6584	0080.6	027.8	174.0	100.0000	0197.9	163.1	39.74
314.0	008.2687	0080.7	027.5	173.8	100.0000	0197.7	163.0	39.75
315.0	007.8965	0080.6	027.2	173.6	100.0000	0197.5	162.9	39.76
316.0	007.5411	0080.7	026.9	173.4	100.0000	0197.6	162.8	39.78
317.0	007.2017	0080.9	026.7	173.2	100.0000	0197.8	162.7	39.80
318.0	006.8776	0080.9	026.4	173.0	100.0000	0197.9	162.7	39.81
319.0	006.5680	0080.8	026.1	172.8	100.0000	0198.1	162.7	39.82
320.0	006.2724	0080.8	025.8	172.6	100.0000	0198.1	162.6	39.82
321.0	005.9901	0080.7	025.6	172.4	100.0000	0198.1	162.6	39.82
322.0	005.7205	0080.4	025.3	172.2	100.0000	0197.9	162.7	39.81
323.0	005.4631	0080.4	025.0	172.1	100.0000	0197.8	162.7	39.81
324.0	005.2172	0080.4	024.7	171.9	100.0000	0197.6	162.7	39.80

325.0	004.9824	0080.3	024.5		171.7	100.0000	0197.6	162.7	39.79
326.0	004.7581	0080.2	024.2		171.5	100.0000	0197.6	162.8	39.78
327.0	004.5440	0080.1	023.9		171.4	100.0000	0197.6	162.9	39.77
328.0	004.3395	0080.2	023.7		171.2	100.0000	0197.6	162.9	39.76
329.0	004.1992	0080.3	023.5		171.0	100.0000	0197.6	162.9	39.76
330.0	004.0612	0080.4	023.4		170.9	100.0000	0197.6	162.9	39.76
331.0	003.9256	0080.5	023.2		170.7	100.0000	0197.7	162.9	39.76
332.0	003.7923	0080.7	023.0		170.6	100.0000	0197.9	162.9	39.76
333.0	003.6612	0080.9	022.9		170.4	100.0000	0198.3	163.0	39.77
334.0	003.5325	0081.0	022.7		170.3	100.0000	0198.6	163.0	39.76
335.0	003.4217	0081.1	022.6		170.1	100.0000	0198.9	163.1	39.76
336.0	003.3282	0081.2	022.4		170.0	100.0000	0199.0	163.1	39.76
337.0	003.2360	0081.4	022.3		169.8	100.0000	0199.2	163.1	39.76
338.0	003.1601	0081.5	022.2		169.7	100.0000	0199.4	163.1	39.76
339.0	003.1000	0081.6	022.1		169.5	100.0000	0199.4	163.1	39.76
340.0	003.0406	0081.9	022.1		169.4	100.0000	0199.4	163.1	39.76
341.0	002.9964	0081.9	022.0		169.3	100.0000	0199.3	163.1	39.75
342.0	002.9525	0082.0	021.9		169.1	100.0000	0199.2	163.2	39.75
343.0	002.9089	0082.5	021.9		169.0	100.0000	0199.2	163.1	39.76
344.0	002.8656	0083.0	021.9		168.9	100.0000	0199.3	163.1	39.76
345.0	002.8227	0083.0	021.8		168.7	100.0000	0199.5	163.1	39.76
346.0	002.7801	0083.4	021.8		168.6	100.0000	0199.7	163.2	39.76
347.0	002.7378	0083.9	021.8		168.5	100.0000	0200.0	163.2	39.76
348.0	002.6958	0084.3	021.7		168.3	100.0000	0200.1	163.2	39.76
349.0	002.6680	0084.5	021.7		168.2	100.0000	0200.1	163.2	39.76
350.0	002.6266	0084.7	021.7		168.1	100.0000	0200.2	163.3	39.75
351.0	002.5992	0084.8	021.6		167.9	100.0000	0200.4	163.3	39.74
352.0	002.5855	0084.9	021.6		167.8	100.0000	0200.7	163.4	39.74
353.0	002.5583	0085.1	021.6		167.7	100.0000	0201.1	163.4	39.74
354.0	002.5448	0085.4	021.6		167.5	100.0000	0201.5	163.5	39.74
355.0	002.5313	0085.6	021.6		167.4	100.0000	0202.0	163.5	39.75
356.0	002.5178	0085.7	021.6		167.3	100.0000	0202.7	163.6	39.75
357.0	002.5043	0085.9	021.6		167.1	100.0000	0203.3	163.6	39.75
358.0	002.4909	0086.1	021.6		167.0	100.0000	0203.8	163.7	39.75
359.0	002.4909	0086.3	021.6		166.9	100.0000	0204.3	163.8	39.75
000.0	002.4909	0086.5	021.6		166.7	100.0000	0204.8	163.8	39.75
001.0	002.4909	0086.6	021.6		166.6	100.0000	0205.4	163.9	39.75
002.0	002.5043	0086.7	021.7		166.5	100.0000	0206.0	163.9	39.75
003.0	002.5178	0086.9	021.7		166.4	100.0000	0206.6	164.0	39.75
004.0	002.5313	0087.0	021.8		166.2	100.0000	0207.3	164.1	39.75
005.0	002.5583	0087.2	021.8		166.1	100.0000	0207.8	164.1	39.75
006.0	002.5992	0087.3	021.9		165.9	100.0000	0208.2	164.2	39.76
007.0	002.6542	0087.4	022.1		165.8	100.0000	0208.6	164.2	39.76
008.0	002.7238	0087.4	022.2		165.7	100.0000	0208.8	164.2	39.76
009.0	002.8227	0087.6	022.4		165.5	100.0000	0208.9	164.2	39.77
010.0	002.9379	0087.7	022.6		165.4	100.0000	0208.9	164.1	39.78
011.0	003.0763	0087.8	022.9		165.2	100.0000	0208.8	164.1	39.79
012.0	003.2213	0087.8	023.1		165.0	100.0000	0208.7	164.0	39.79
013.0	003.3731	0087.9	023.4		164.9	100.0000	0208.4	164.0	39.79
014.0	003.5321	0088.0	023.6		164.7	100.0000	0207.9	163.9	39.79
015.0	003.6986	0088.1	023.9		164.5	100.0000	0207.4	163.9	39.78
016.0	003.8729	0088.2	024.2		164.3	100.0000	0206.8	163.9	39.77
017.0	004.0554	0088.2	024.4		164.2	100.0000	0206.4	163.9	39.76
018.0	004.2465	0088.4	024.7		164.0	100.0000	0206.0	163.9	39.76
019.0	004.4467	0088.6	025.0		163.8	100.0000	0206.0	163.9	39.75
020.0	004.6562	0088.7	025.3		163.6	100.0000	0206.0	164.0	39.75
021.0	004.8757	0088.7	025.5		163.4	100.0000	0205.9	164.0	39.73

022.0	005.1055	0088.9	025.8		163.3	100.0000	0205.9	164.1	39.73
023.0	005.3461	0089.1	026.1		163.1	100.0000	0205.9	164.1	39.72
024.0	005.5980	0089.4	026.4		162.9	100.0000	0205.8	164.2	39.70
025.0	005.8619	0089.6	026.7		162.7	100.0000	0205.7	164.3	39.69
026.0	006.1381	0089.4	027.0		162.5	100.0000	0205.7	164.4	39.66
027.0	006.4274	0089.7	027.3		162.3	100.0000	0205.3	164.5	39.64
028.0	006.7303	0089.9	027.6		162.1	100.0000	0204.6	164.6	39.60
029.0	007.0475	0090.1	027.9		161.9	100.0000	0204.5	164.7	39.58
030.0	007.3796	0090.1	028.2		161.7	100.0000	0204.5	164.9	39.55
031.0	007.7274	0090.4	028.6		161.5	100.0000	0204.1	165.1	39.51
032.0	008.0916	0090.6	028.9		161.3	100.0000	0203.6	165.2	39.47
033.0	008.4730	0090.8	029.2		161.1	100.0000	0203.4	165.4	39.44
034.0	008.8723	0091.0	029.6		160.9	100.0000	0203.0	165.6	39.39
035.0	009.2904	0091.2	029.9		160.7	100.0000	0202.3	165.8	39.34
036.0	009.7283	0091.5	030.3		160.5	100.0000	0201.5	166.0	39.29
037.0	010.1867	0091.8	030.6		160.3	100.0000	0201.1	166.3	39.24
038.0	010.6668	0092.0	031.0		160.1	100.0000	0200.8	166.5	39.19
039.0	011.1695	0092.2	031.4		159.9	100.0000	0200.2	166.8	39.13
040.0	011.6959	0092.4	031.8		159.7	100.0000	0199.6	167.1	39.06
041.0	012.2472	0092.7	032.2		159.4	100.0000	0199.4	167.4	39.01
042.0	012.8243	0092.9	032.6		159.2	100.0000	0199.1	167.7	38.95
043.0	013.4287	0093.1	033.0		159.0	100.0000	0198.8	168.0	38.88
044.0	014.0616	0093.3	033.4		158.8	100.0000	0198.5	168.4	38.82
045.0	014.7243	0093.4	033.8		158.6	100.0000	0198.4	168.7	38.74
046.0	015.4183	0093.2	034.1		158.4	100.0000	0198.0	169.2	38.66
047.0	016.1449	0093.2	034.5		158.2	100.0000	0197.5	169.6	38.58
048.0	016.9058	0093.3	034.8		158.0	100.0000	0197.3	170.0	38.50

10-07-2007 NED 03 SEC Terrain Data

WNSC-FM BMLD20060215AAK  
Channel = 205C1  
Max ERP = 100 kW  
RCAMSL = 359 M  
N. Lat. 34 50 23.0  
W. Lng. 81 01 07.0  
Protected  
60 dBu

Branchville  
Channel = 205C3  
Max ERP = 18 kW  
RCAMSL = 120 M  
N. Lat. 33 12 25.4  
W. Lng. 80 36 47.3  
Interfering  
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
108.0	100.0000	0189.2	062.8		007.7	002.7057	0087.4	163.2	21.00
109.0	100.0000	0186.2	062.5		007.6	002.6925	0087.4	162.2	21.17
110.0	100.0000	0184.6	062.3		007.4	002.6835	0087.4	161.2	21.34
111.0	100.0000	0183.8	062.3		007.3	002.6758	0087.4	160.1	21.52
112.0	100.0000	0184.6	062.3		007.2	002.6711	0087.4	159.0	21.71
113.0	100.0000	0185.1	062.4		007.2	002.6651	0087.4	158.0	21.89
114.0	100.0000	0184.6	062.3		007.0	002.6563	0087.4	156.9	22.05
115.0	100.0000	0183.7	062.3		006.9	002.6477	0087.4	155.9	22.21
116.0	100.0000	0184.6	062.3		006.8	002.6424	0087.4	154.9	22.38
117.0	100.0000	0184.1	062.3		006.6	002.6340	0087.4	153.9	22.54
118.0	100.0000	0183.9	062.3		006.5	002.6259	0087.4	152.9	22.69

119.0	100.0000	0185.1	062.4		006.4	002.6196	0087.3	151.8	22.86
120.0	100.0000	0186.4	062.5		006.3	002.6130	0087.3	150.8	23.02
121.0	100.0000	0187.7	062.6		006.1	002.6061	0087.3	149.7	23.19
122.0	100.0000	0188.4	062.7		006.0	002.5980	0087.3	148.7	23.35
123.0	100.0000	0188.5	062.7		005.8	002.5904	0087.3	147.7	23.51
124.0	100.0000	0187.9	062.7		005.6	002.5817	0087.3	146.8	23.66
125.0	100.0000	0186.7	062.5		005.3	002.5717	0087.3	145.9	23.80
126.0	100.0000	0186.2	062.5		005.1	002.5622	0087.2	144.9	23.95
127.0	100.0000	0186.2	062.5		004.9	002.5549	0087.2	144.0	24.10
128.0	100.0000	0187.8	062.6		004.7	002.5500	0087.2	143.0	24.28
129.0	100.0000	0185.7	062.4		004.4	002.5416	0087.1	142.2	24.41
130.0	100.0000	0184.6	062.3		004.1	002.5339	0087.0	141.4	24.55
131.0	100.0000	0184.9	062.4		003.8	002.5292	0087.0	140.5	24.71
132.0	100.0000	0186.6	062.5		003.6	002.5262	0086.9	139.5	24.89
133.0	100.0000	0185.7	062.4		003.3	002.5221	0086.9	138.7	25.03
134.0	100.0000	0182.5	062.2		002.9	002.5170	0086.9	138.1	25.15
135.0	100.0000	0182.3	062.1		002.6	002.5129	0086.8	137.3	25.29
136.0	100.0000	0182.3	062.1		002.3	002.5088	0086.7	136.5	25.44
137.0	100.0000	0183.1	062.2		002.0	002.5048	0086.7	135.7	25.59
138.0	100.0000	0182.7	062.2		001.7	002.5003	0086.7	134.9	25.72
139.0	100.0000	0183.1	062.2		001.4	002.4960	0086.6	134.2	25.86
140.0	100.0000	0185.0	062.4		001.1	002.4920	0086.6	133.3	26.02
141.0	100.0000	0187.0	062.6		000.8	002.4909	0086.6	132.5	26.18
142.0	100.0000	0187.8	062.6		000.4	002.4909	0086.5	131.7	26.32
143.0	100.0000	0189.4	062.8		000.1	002.4909	0086.5	130.9	26.47
144.0	100.0000	0189.7	062.8		359.7	002.4909	0086.5	130.3	26.59
145.0	100.0000	0190.6	062.9		359.4	002.4909	0086.4	129.6	26.72
146.0	100.0000	0190.2	062.9		358.9	002.4909	0086.3	129.0	26.83
147.0	100.0000	0191.4	063.0		358.6	002.4909	0086.2	128.3	26.95
148.0	100.0000	0192.5	063.1		358.2	002.4909	0086.2	127.7	27.07
149.0	100.0000	0192.8	063.1		357.8	002.4943	0086.1	127.1	27.17
150.0	100.0000	0194.2	063.2		357.3	002.4998	0086.0	126.5	27.29
151.0	100.0000	0194.7	063.3		356.9	002.5056	0085.9	125.9	27.40
152.0	100.0000	0193.8	063.2		356.4	002.5119	0085.9	125.5	27.48
153.0	100.0000	0193.8	063.2		356.0	002.5180	0085.7	125.1	27.56
154.0	100.0000	0193.4	063.2		355.5	002.5243	0085.6	124.7	27.64
155.0	100.0000	0194.5	063.3		355.1	002.5305	0085.6	124.2	27.73
156.0	100.0000	0195.9	063.4		354.6	002.5366	0085.5	123.7	27.83
157.0	100.0000	0198.2	063.6		354.1	002.5428	0085.5	123.2	27.93
158.0	100.0000	0197.3	063.5		353.6	002.5496	0085.3	122.9	27.98
159.0	100.0000	0198.8	063.7		353.2	002.5561	0085.2	122.5	28.06
160.0	100.0000	0200.6	063.9		352.7	002.5670	0085.0	122.1	28.14
161.0	100.0000	0203.2	064.1		352.2	002.5802	0084.9	121.6	28.25
162.0	100.0000	0204.5	064.2		351.7	002.5898	0084.8	121.3	28.31
163.0	100.0000	0205.9	064.4		351.2	002.5967	0084.8	121.0	28.38
164.0	100.0000	0206.1	064.4		350.7	002.6085	0084.8	120.8	28.42
165.0	100.0000	0208.6	064.6		350.1	002.6227	0084.7	120.5	28.51
166.0	100.0000	0208.1	064.6		349.6	002.6426	0084.7	120.5	28.54
167.0	100.0000	0203.8	064.2		349.1	002.6649	0084.5	120.8	28.51
168.0	100.0000	0200.3	063.8		348.6	002.6805	0084.4	121.1	28.48
169.0	100.0000	0199.2	063.7		348.0	002.6950	0084.3	121.2	28.48
170.0	100.0000	0199.0	063.7		347.5	002.7163	0084.1	121.3	28.50
171.0	100.0000	0197.6	063.6		347.0	002.7380	0083.9	121.5	28.49
172.0	100.0000	0197.7	063.6		346.5	002.7598	0083.6	121.6	28.51
173.0	100.0000	0197.9	063.6		346.0	002.7816	0083.3	121.7	28.51
174.0	100.0000	0198.0	063.6		345.5	002.8034	0083.1	121.8	28.51
175.0	100.0000	0198.9	063.7		344.9	002.8255	0083.0	121.9	28.53

176.0	100.0000	0199.0	063.7		344.4	002.8472	0083.0	122.1	28.52
177.0	100.0000	0197.6	063.6		343.9	002.8683	0083.0	122.5	28.49
178.0	100.0000	0195.2	063.3		343.5	002.8886	0082.8	123.0	28.43
179.0	100.0000	0193.9	063.2		343.0	002.9092	0082.5	123.4	28.38
180.0	100.0000	0191.9	063.0		342.5	002.9291	0082.2	123.9	28.31
181.0	100.0000	0191.1	063.0		342.1	002.9494	0082.1	124.3	28.26
182.0	100.0000	0192.6	063.1		341.6	002.9710	0082.0	124.5	28.25
183.0	100.0000	0193.8	063.2		341.1	002.9924	0081.9	124.8	28.22
184.0	100.0000	0195.4	063.4		340.6	003.0139	0081.9	125.1	28.20
185.0	100.0000	0197.4	063.6		340.1	003.0357	0081.9	125.4	28.18
186.0	100.0000	0199.6	063.8		339.6	003.0633	0081.8	125.7	28.17
187.0	100.0000	0201.7	064.0		339.1	003.0922	0081.7	126.1	28.14
188.0	100.0000	0204.2	064.2		338.6	003.1217	0081.6	126.4	28.12
189.0	100.0000	0204.8	064.2		338.2	003.1484	0081.5	126.9	28.06
190.0	100.0000	0205.3	064.3		337.8	003.1785	0081.5	127.4	28.00
191.0	100.0000	0208.3	064.6		337.3	003.2153	0081.4	127.8	27.98
192.0	100.0000	0207.0	064.5		336.9	003.2460	0081.4	128.6	27.89
193.0	100.0000	0203.0	064.1		336.6	003.2735	0081.3	129.5	27.74
194.0	100.0000	0200.4	063.8		336.3	003.3031	0081.2	130.4	27.61
195.0	100.0000	0199.3	063.7		335.9	003.3354	0081.2	131.2	27.51
196.0	100.0000	0197.7	063.6		335.6	003.3655	0081.1	132.0	27.39
197.0	100.0000	0195.1	063.3		335.3	003.3922	0081.1	132.9	27.25
198.0	100.0000	0192.7	063.1		335.0	003.4184	0081.1	133.8	27.10
199.0	100.0000	0191.9	063.0		334.7	003.4521	0081.1	134.7	26.99
200.0	100.0000	0194.0	063.2		334.3	003.4948	0081.1	135.3	26.92
201.0	100.0000	0195.9	063.4		334.0	003.5365	0081.0	136.0	26.84
202.0	100.0000	0197.3	063.5		333.6	003.5811	0081.0	136.7	26.75
203.0	100.0000	0197.7	063.6		333.3	003.6211	0081.0	137.5	26.64
204.0	100.0000	0196.4	063.5		333.1	003.6533	0080.9	138.5	26.50
205.0	100.0000	0194.4	063.3		332.8	003.6811	0080.9	139.5	26.34
206.0	100.0000	0193.8	063.2		332.6	003.7140	0080.9	140.4	26.21
207.0	100.0000	0194.2	063.3		332.3	003.7494	0080.8	141.2	26.08
208.0	100.0000	0195.2	063.3		332.0	003.7861	0080.7	142.1	25.96
209.0	100.0000	0194.9	063.3		331.8	003.8164	0080.7	143.0	25.82
210.0	100.0000	0196.3	063.4		331.5	003.8527	0080.6	143.9	25.69
211.0	100.0000	0197.2	063.5		331.3	003.8861	0080.5	144.8	25.56
212.0	100.0000	0198.2	063.6		331.1	003.9187	0080.5	145.7	25.43
213.0	100.0000	0196.8	063.5		330.9	003.9398	0080.5	146.8	25.27
214.0	100.0000	0195.3	063.4		330.8	003.9591	0080.5	147.8	25.11
215.0	100.0000	0193.2	063.2		330.6	003.9745	0080.5	148.9	24.93
216.0	100.0000	0192.9	063.1		330.5	003.9966	0080.5	149.9	24.78
217.0	100.0000	0194.0	063.2		330.3	004.0236	0080.4	150.9	24.65
218.0	100.0000	0196.0	063.4		330.1	004.0537	0080.4	151.8	24.51
219.0	100.0000	0196.5	063.5		329.9	004.0763	0080.4	152.9	24.36
220.0	100.0000	0195.9	063.4		329.8	004.0922	0080.4	153.9	24.20
221.0	100.0000	0195.0	063.3		329.7	004.1062	0080.4	155.0	24.03
222.0	100.0000	0195.7	063.4		329.5	004.1258	0080.4	156.0	23.87
223.0	100.0000	0196.3	063.4		329.4	004.1442	0080.3	157.1	23.71
224.0	100.0000	0195.3	063.4		329.3	004.1541	0080.3	158.2	23.53
225.0	100.0000	0192.7	063.1		329.3	004.1557	0080.3	159.3	23.33
226.0	100.0000	0190.4	062.9		329.3	004.1575	0080.3	160.4	23.13
227.0	100.0000	0189.0	062.8		329.3	004.1623	0080.3	161.5	22.93
228.0	100.0000	0188.1	062.7		329.2	004.1686	0080.3	162.6	22.74

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**Table 4: FMOVER Protection of WAGP.C, Beaufort, South Carolina**

10-07-2007 NED 03 SEC Terrain Data				FMOver Analysis				
Branchville				WAGP-C BPED20070604ACR				
Channel = 205C3				Channel = 204C1				
Max ERP = 18 kW				Max ERP = 100 kW				
RCAMSL = 120 M				RCAMSL = 105.4 M				
N. Lat. 33 12 25.4				N. Lat. 32 21 27.1				
W. Lng. 80 36 47.3				W. Lng. 80 55 11.2				
Protected				Interfering				
60 dBu				54 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
137.0	008.6084	0094.9	030.0	034.0	100.0000	0103.2	087.5	52.15
138.0	008.2209	0094.8	029.6	033.7	100.0000	0103.3	087.0	52.27
139.0	007.8509	0094.7	029.3	033.4	100.0000	0103.3	086.6	52.39
140.0	007.4976	0094.6	029.0	033.1	100.0000	0103.3	086.2	52.50
141.0	007.1601	0094.6	028.7	032.8	100.0000	0103.2	085.8	52.61
142.0	006.8379	0094.9	028.4	032.5	100.0000	0103.2	085.4	52.71
143.0	006.5301	0095.3	028.2	032.3	100.0000	0103.2	085.0	52.82
144.0	006.2362	0095.6	027.9	032.0	100.0000	0103.1	084.7	52.92
145.0	005.9555	0095.8	027.7	031.7	100.0000	0103.1	084.3	53.02
146.0	005.6875	0096.4	027.5	031.5	100.0000	0103.1	084.0	53.11
147.0	005.4315	0096.7	027.2	031.2	100.0000	0103.1	083.6	53.21
148.0	005.1871	0097.3	027.0	030.9	100.0000	0103.1	083.3	53.30
149.0	004.9536	0097.8	026.8	030.6	100.0000	0103.1	083.0	53.39
150.0	004.7307	0097.8	026.6	030.3	100.0000	0103.0	082.7	53.47
151.0	004.5177	0097.6	026.3	030.0	099.8934	0102.9	082.4	53.53
152.0	004.3144	0097.5	026.0	029.6	098.5651	0102.9	082.2	53.53
153.0	004.1202	0097.5	025.7	029.3	097.2858	0102.8	082.0	53.54
154.0	003.9348	0097.6	025.4	029.0	096.0293	0102.8	081.7	53.55
155.0	003.7577	0097.9	025.2	028.7	094.8509	0102.8	081.5	53.56
156.0	003.5886	0098.1	025.0	028.4	093.6073	0102.8	081.3	53.56
157.0	003.4271	0098.1	024.7	028.0	092.3424	0102.8	081.1	53.56
158.0	003.2728	0098.4	024.5	027.7	091.1656	0102.9	080.9	53.56
159.0	003.1255	0098.6	024.3	027.4	089.9398	0102.9	080.8	53.54
160.0	003.0258	0098.5	024.1	027.1	088.8253	0102.8	080.6	53.54
161.0	003.0111	0098.4	024.1	026.9	087.9845	0102.8	080.3	53.58
162.0	002.9964	0098.0	024.0	026.7	087.0538	0102.8	080.0	53.60
163.0	002.9817	0097.3	023.9	026.4	086.0737	0102.7	079.8	53.61
164.0	002.9670	0096.8	023.8	026.1	085.1141	0102.7	079.6	53.62
165.0	002.9525	0096.6	023.7	025.9	084.2046	0102.7	079.4	53.64
166.0	002.9379	0096.2	023.7	025.6	083.2559	0102.7	079.2	53.65
167.0	002.9234	0096.1	023.6	025.4	082.3495	0102.8	078.9	53.67
168.0	002.9089	0095.7	023.6	025.1	081.3862	0102.7	078.7	53.68
169.0	002.8944	0095.7	023.5	024.9	080.4789	0102.7	078.5	53.69
170.0	002.8800	0095.6	023.5	024.6	079.5626	0102.7	078.3	53.70
171.0	002.8800	0095.5	023.5	024.3	078.6628	0102.6	078.1	53.71
172.0	002.8800	0095.5	023.5	024.1	077.7682	0102.6	077.9	53.71
173.0	002.8800	0095.7	023.5	023.8	076.9050	0102.5	077.6	53.73

174.0	002.8800	0095.7	023.5		023.6	076.0045	0102.5	077.4	53.74
175.0	002.8800	0095.6	023.5		023.3	075.0772	0102.5	077.2	53.74
176.0	002.8800	0095.4	023.5		023.0	074.1268	0102.4	077.1	53.73
177.0	002.8800	0095.4	023.5		022.8	073.1943	0102.3	076.9	53.72
178.0	002.8800	0095.3	023.5		022.5	072.2509	0102.2	076.7	53.71
179.0	002.8800	0095.3	023.4		022.2	071.3087	0102.1	076.5	53.69
180.0	002.8800	0095.1	023.4		021.9	070.3431	0101.9	076.4	53.66
181.0	002.9089	0095.0	023.5		021.7	069.4342	0101.8	076.2	53.65
182.0	002.9379	0095.3	023.6		021.4	068.5461	0101.7	076.0	53.65
183.0	002.9670	0095.4	023.6		021.1	067.6455	0101.7	075.8	53.65
184.0	002.9964	0095.4	023.7		020.8	066.7173	0101.6	075.6	53.64
185.0	003.0258	0095.3	023.7		020.5	065.7704	0101.5	075.5	53.62
186.0	003.0554	0095.2	023.8		020.3	064.8208	0101.5	075.3	53.60
187.0	003.0851	0095.1	023.8		020.0	063.8980	0101.4	075.2	53.57
188.0	003.1150	0095.0	023.8		019.7	063.1772	0101.3	075.1	53.55
189.0	003.1450	0094.8	023.9		019.4	062.4514	0101.2	074.9	53.53
190.0	003.1752	0094.7	023.9		019.0	061.7270	0101.2	074.8	53.50
191.0	003.2476	0094.6	024.0		018.7	061.0176	0101.0	074.7	53.49
192.0	003.3209	0094.5	024.1		018.4	060.3008	0100.8	074.5	53.48
193.0	003.3950	0094.4	024.2		018.1	059.5775	0100.8	074.3	53.47
194.0	003.4699	0094.3	024.3		017.8	058.8456	0100.9	074.2	53.46
195.0	003.5456	0094.0	024.4		017.5	058.1055	0101.0	074.1	53.44
196.0	003.6221	0093.9	024.5		017.2	057.3647	0101.1	074.0	53.43
197.0	003.6995	0094.0	024.7		016.8	056.6196	0101.2	073.8	53.41
198.0	003.7777	0094.1	024.8		016.5	055.8692	0101.2	073.7	53.40
199.0	003.8566	0094.2	024.9		016.2	055.1136	0101.2	073.6	53.37
200.0	003.9365	0094.1	025.0		015.8	054.3568	0101.3	073.5	53.33
201.0	004.1220	0094.1	025.3		015.5	053.5747	0101.2	073.3	53.33
202.0	004.3162	0094.0	025.5		015.1	052.7821	0101.1	073.1	53.32
203.0	004.5197	0093.8	025.8		014.7	051.9778	0101.1	072.9	53.30
204.0	004.7327	0093.7	026.0		014.4	051.1647	0101.1	072.8	53.29
205.0	004.9557	0093.4	026.3		014.0	050.3421	0101.1	072.6	53.26
206.0	005.1893	0093.3	026.5		013.6	049.5086	0101.2	072.4	53.24
207.0	005.4338	0093.1	026.8		013.2	048.6695	0101.2	072.3	53.20
208.0	005.6899	0092.8	027.0		012.8	047.8274	0101.2	072.2	53.16
209.0	005.9581	0092.9	027.3		012.4	046.9574	0101.3	072.0	53.13
210.0	006.2389	0092.7	027.5		011.9	046.0934	0101.2	071.9	53.08
211.0	006.5329	0092.6	027.8		011.5	045.2268	0101.2	071.8	53.02
212.0	006.8408	0092.5	028.1		011.1	044.3439	0101.1	071.7	52.96
213.0	007.1632	0092.4	028.4		010.6	043.4661	0101.2	071.7	52.90
214.0	007.5008	0092.2	028.6		010.2	042.5872	0101.4	071.6	52.83
215.0	007.8543	0092.1	028.9		009.7	041.7699	0101.7	071.6	52.78
216.0	008.2244	0092.1	029.2		009.2	040.9893	0101.6	071.5	52.71
217.0	008.6120	0092.1	029.5		008.8	040.1988	0101.5	071.5	52.64
218.0	009.0179	0092.0	029.8		008.3	039.4162	0101.4	071.5	52.55
219.0	009.4429	0092.1	030.2		007.8	038.6177	0101.2	071.4	52.45
220.0	009.8879	0092.3	030.5		007.3	037.8050	0101.1	071.4	52.36
221.0	010.3539	0092.1	030.8		006.8	037.0322	0101.1	071.5	52.25
222.0	010.8419	0091.8	031.1		006.3	036.2710	0101.3	071.5	52.15
223.0	011.3528	0091.6	031.4		005.8	035.4948	0101.4	071.6	52.05
224.0	011.8879	0091.5	031.7		005.3	034.7212	0101.4	071.7	51.93
225.0	012.4482	0091.4	032.1		004.8	033.9392	0101.2	071.8	51.79
226.0	013.0348	0091.4	032.4		004.3	033.1524	0101.1	071.9	51.66
227.0	013.6491	0091.4	032.8		003.8	032.3617	0101.1	072.0	51.52
228.0	014.2924	0091.4	033.2		003.2	031.5958	0101.1	072.1	51.37
229.0	014.9660	0091.3	033.5		002.7	030.8405	0100.9	072.3	51.21
230.0	015.6713	0091.3	033.9		002.2	030.0878	0100.7	072.5	51.04

231.0	016.4099	0091.5	034.3		001.7	029.3239	0100.5	072.7	50.86
232.0	017.1832	0091.4	034.6		001.2	028.6221	0100.3	072.9	50.68
233.0	017.9931	0091.2	035.0		000.6	027.9259	0100.1	073.2	50.48
234.0	018.0000	0091.0	034.9		000.4	027.5661	0100.1	073.7	50.27
235.0	018.0000	0090.7	034.9		000.2	027.2507	0100.0	074.2	50.07
236.0	018.0000	0091.0	034.9		359.9	027.0090	0099.9	074.7	49.89
237.0	018.0000	0091.1	034.9		359.6	026.9547	0099.7	075.2	49.73
238.0	018.0000	0091.2	035.0		359.3	026.9020	0099.6	075.7	49.57
239.0	018.0000	0091.2	035.0		359.1	026.8535	0099.5	076.2	49.40
240.0	018.0000	0091.1	034.9		358.9	026.8098	0099.3	076.8	49.24
241.0	018.0000	0090.6	034.9		358.7	026.7765	0099.3	077.3	49.06
242.0	018.0000	0090.4	034.8		358.5	026.7392	0099.2	077.9	48.90
243.0	018.0000	0090.4	034.8		358.4	026.7006	0099.2	078.4	48.74
244.0	018.0000	0090.1	034.7		358.2	026.6704	0099.2	079.0	48.57
245.0	018.0000	0089.7	034.7		358.1	026.6426	0099.2	079.6	48.40
246.0	018.0000	0089.5	034.6		357.9	026.6150	0099.3	080.2	48.24
247.0	018.0000	0089.3	034.6		357.8	026.5873	0099.3	080.7	48.08
248.0	018.0000	0089.5	034.6		357.6	026.5517	0099.4	081.3	47.92
249.0	018.0000	0089.6	034.7		357.5	026.5217	0099.4	081.9	47.76
250.0	018.0000	0089.4	034.6		357.4	026.4995	0099.4	082.5	47.59
251.0	018.0000	0089.1	034.6		357.3	026.4829	0099.4	083.0	47.42
252.0	018.0000	0089.1	034.6		357.2	026.4594	0099.4	083.6	47.26
253.0	018.0000	0088.9	034.5		357.1	026.4425	0099.5	084.2	47.09
254.0	018.0000	0088.9	034.5		357.0	026.4235	0099.5	084.8	46.93
255.0	018.0000	0088.8	034.5		356.9	026.4086	0099.6	085.4	46.76
256.0	018.0000	0088.7	034.5		356.9	026.3952	0099.6	086.0	46.60
257.0	018.0000	0088.3	034.4		356.9	026.3905	0099.6	086.6	46.43

10-07-2007 NED 03 SEC Terrain Data

WAGP-C BPED20070604ACR

Channel = 204C1

Max ERP = 100 kW

RCAMSL = 105.4 M

N. Lat. 32 21 27.1

W. Lng. 80 55 11.2

Protected

60 dBu

Branchville

Channel = 205C3

Max ERP = 18 kW

RCAMSL = 120 M

N. Lat. 33 12 25.4

W. Lng. 80 36 47.3

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
317.0	025.0000	0096.3	038.5		219.7	009.7651	0092.2	085.9	41.96
318.0	025.0000	0096.4	038.5		219.7	009.7519	0092.2	085.3	42.13
319.0	025.0000	0096.5	038.5		219.6	009.7239	0092.2	084.6	42.30
320.0	025.0000	0096.9	038.6		219.6	009.7111	0092.2	083.9	42.48
321.0	025.0000	0096.5	038.5		219.5	009.6511	0092.2	083.3	42.63
322.0	025.0000	0096.4	038.5		219.4	009.6009	0092.2	082.6	42.78
323.0	025.0000	0096.5	038.5		219.3	009.5560	0092.2	082.0	42.94
324.0	025.0000	0096.7	038.5		219.2	009.5136	0092.1	081.3	43.10
325.0	025.0000	0096.8	038.5		219.0	009.4623	0092.1	080.6	43.26
326.0	025.0000	0096.6	038.5		218.9	009.3934	0092.1	080.0	43.40
327.0	025.0000	0096.5	038.5		218.7	009.3250	0092.1	079.4	43.54

328.0	025.0000	0096.5	038.5		218.6	009.2573	0092.0	078.7	43.69
329.0	025.0000	0096.3	038.5		218.4	009.1765	0092.0	078.1	43.82
330.0	025.0000	0096.2	038.4		218.2	009.0922	0092.0	077.5	43.95
331.0	025.0000	0096.2	038.4		218.0	009.0128	0092.0	076.9	44.08
332.0	025.0000	0096.3	038.5		217.8	008.9373	0092.0	076.3	44.22
333.0	025.0000	0096.4	038.5		217.6	008.8539	0092.1	075.6	44.35
334.0	025.0000	0096.5	038.5		217.4	008.7665	0092.1	075.0	44.48
335.0	025.0000	0096.4	038.5		217.1	008.6647	0092.1	074.4	44.60
336.0	025.0000	0096.3	038.5		216.9	008.5631	0092.1	073.9	44.71
337.0	025.0000	0096.6	038.5		216.6	008.4744	0092.1	073.2	44.84
338.0	025.0000	0096.8	038.5		216.4	008.3764	0092.1	072.7	44.96
339.0	025.0000	0097.4	038.6		216.2	008.2930	0092.1	072.0	45.09
340.0	025.0000	0097.8	038.7		215.9	008.1941	0092.1	071.4	45.21
341.0	025.0000	0097.7	038.7		215.6	008.0766	0092.1	070.9	45.31
342.0	025.0000	0097.6	038.7		215.3	007.9519	0092.1	070.3	45.39
343.0	025.0000	0098.2	038.8		215.0	007.8515	0092.1	069.7	45.51
344.0	025.0000	0098.4	038.8		214.7	007.7352	0092.1	069.2	45.60
345.0	025.0000	0098.1	038.8		214.3	007.5952	0092.1	068.7	45.67
346.0	025.0000	0097.8	038.7		213.9	007.4546	0092.2	068.2	45.73
347.0	025.0000	0097.9	038.7		213.5	007.3277	0092.3	067.7	45.81
348.0	025.0000	0098.3	038.8		213.1	007.2037	0092.4	067.2	45.89
349.0	025.0000	0098.6	038.8		212.7	007.0782	0092.4	066.7	45.97
350.0	025.0000	0098.7	038.9		212.3	006.9439	0092.5	066.2	46.03
351.0	025.2004	0098.8	038.9		211.9	006.8167	0092.5	065.7	46.11
352.0	025.4016	0099.1	039.1		211.5	006.6966	0092.6	065.2	46.19
353.0	025.6036	0099.5	039.2		211.1	006.5743	0092.6	064.6	46.27
354.0	025.8064	0099.8	039.3		210.7	006.4481	0092.6	064.1	46.34
355.0	026.0100	0100.2	039.4		210.3	006.3197	0092.7	063.6	46.41
356.0	026.2144	0100.0	039.5		209.8	006.1759	0092.8	063.2	46.45
357.0	026.4196	0099.5	039.4		209.2	006.0273	0092.9	062.8	46.46
358.0	026.6256	0099.2	039.5		208.7	005.8814	0092.9	062.5	46.47
359.0	026.8324	0099.4	039.5		208.2	005.7454	0092.8	062.1	46.51
000.0	027.0400	0099.9	039.7		207.7	005.6149	0092.9	061.6	46.56
001.0	028.4089	0100.3	040.2		207.3	005.5157	0093.0	060.9	46.73
002.0	029.8116	0100.6	040.6		206.9	005.4090	0093.1	060.2	46.90
003.0	031.2481	0101.0	041.0		206.5	005.2992	0093.2	059.5	47.06
004.0	032.7184	0101.1	041.4		206.0	005.1787	0093.3	058.8	47.19
005.0	034.2225	0101.3	041.8		205.4	005.0550	0093.4	058.2	47.31
006.0	035.7604	0101.4	042.2		204.9	004.9265	0093.5	057.6	47.42
007.0	037.3321	0101.0	042.5		204.3	004.7898	0093.6	057.1	47.49
008.0	038.9376	0101.3	042.9		203.7	004.6578	0093.8	056.5	47.60
009.0	040.5769	0101.6	043.3		203.0	004.5217	0093.8	055.9	47.68
010.0	042.2500	0101.5	043.6		202.3	004.3823	0093.9	055.4	47.73
011.0	044.2225	0101.1	043.9		201.6	004.2409	0094.0	055.0	47.77
012.0	046.2400	0101.2	044.3		200.9	004.1016	0094.1	054.5	47.82
013.0	048.3025	0101.2	044.7		200.1	003.9607	0094.1	054.0	47.85
014.0	050.4100	0101.1	045.0		199.3	003.8840	0094.2	053.6	47.93
015.0	052.5625	0101.1	045.4		198.5	003.8194	0094.2	053.1	48.01
016.0	054.7600	0101.2	045.8		197.7	003.7533	0094.1	052.7	48.08
017.0	057.0025	0101.1	046.1		196.8	003.6857	0094.0	052.4	48.12
018.0	059.2900	0100.8	046.4		195.9	003.6170	0093.9	052.1	48.13
019.0	061.6225	0101.1	046.8		195.0	003.5468	0094.0	051.8	48.19
020.0	064.0000	0101.5	047.1		194.1	003.4754	0094.3	051.5	48.24
021.0	067.2400	0101.6	047.6		193.1	003.4020	0094.4	051.1	48.30
022.0	070.5600	0102.0	048.1		192.1	003.3269	0094.5	050.7	48.34
023.0	073.9600	0102.4	048.6		191.0	003.2502	0094.6	050.4	48.37
024.0	077.4400	0102.5	049.1		190.0	003.1746	0094.7	050.2	48.36

025.0	081.0000	0102.7	049.5		188.9	003.1420	0094.8	050.0	48.40
026.0	084.6400	0102.7	049.9		187.8	003.1095	0095.0	049.8	48.42
027.0	088.3600	0102.8	050.3		186.7	003.0767	0095.1	049.7	48.42
028.0	092.1600	0102.8	050.7		185.6	003.0439	0095.3	049.7	48.40
029.0	096.0400	0102.8	051.0		184.5	003.0113	0095.4	049.7	48.35
030.0	100.0000	0102.9	051.4		183.4	002.9786	0095.5	049.8	48.30
031.0	100.0000	0103.1	051.4		182.5	002.9516	0095.3	050.2	48.10
032.0	100.0000	0103.1	051.5		181.6	002.9256	0095.2	050.6	47.89
033.0	100.0000	0103.3	051.5		180.7	002.9003	0095.0	051.0	47.67
034.0	100.0000	0103.2	051.5		179.9	002.8800	0095.2	051.5	47.46
035.0	100.0000	0103.3	051.5		179.1	002.8800	0095.3	052.1	47.28
036.0	100.0000	0103.5	051.5		178.2	002.8800	0095.3	052.6	47.09
037.0	100.0000	0103.5	051.5		177.5	002.8800	0095.4	053.1	46.89
038.0	100.0000	0103.6	051.5		176.7	002.8800	0095.4	053.7	46.67
039.0	100.0000	0103.7	051.6		176.0	002.8800	0095.4	054.3	46.45
040.0	100.0000	0103.6	051.5		175.3	002.8800	0095.6	054.9	46.23
041.0	098.0100	0103.6	051.4		174.8	002.8800	0095.6	055.7	45.94
042.0	096.0400	0103.6	051.2		174.3	002.8800	0095.7	056.5	45.66
043.0	094.0900	0103.5	051.0		173.9	002.8800	0095.7	057.3	45.37
044.0	092.1600	0103.6	050.8		173.5	002.8800	0095.7	058.0	45.09
045.0	090.2500	0103.6	050.6		173.1	002.8800	0095.7	058.9	44.79
046.0	088.3600	0103.5	050.4		172.7	002.8800	0095.6	059.7	44.50
047.0	086.4900	0103.4	050.2		172.4	002.8800	0095.6	060.5	44.21
048.0	084.6400	0103.6	050.0		172.0	002.8800	0095.5	061.3	43.92
049.0	082.8100	0103.6	049.9		171.7	002.8800	0095.4	062.2	43.64
050.0	081.0000	0103.7	049.7		171.5	002.8800	0095.4	063.0	43.37
051.0	078.3225	0103.3	049.3		171.3	002.8800	0095.4	063.9	43.08
052.0	075.6900	0103.4	049.0		171.2	002.8800	0095.4	064.8	42.81
053.0	073.1025	0103.2	048.7		171.1	002.8800	0095.5	065.7	42.54
054.0	070.5600	0103.2	048.3		171.0	002.8800	0095.5	066.6	42.27
055.0	068.0625	0103.3	048.0		170.9	002.8800	0095.5	067.5	42.01
056.0	065.6100	0103.5	047.7		170.8	002.8800	0095.6	068.4	41.75
057.0	063.2025	0103.6	047.4		170.8	002.8800	0095.6	069.3	41.49
058.0	060.8400	0103.5	047.1		170.8	002.8800	0095.6	070.2	41.23
059.0	058.5225	0103.6	046.7		170.8	002.8800	0095.6	071.1	40.98
060.0	056.2500	0103.6	046.4		170.8	002.8800	0095.6	071.9	40.72
061.0	057.0025	0103.7	046.5		170.5	002.8800	0095.6	072.7	40.52
062.0	057.7600	0103.9	046.7		170.2	002.8800	0095.6	073.4	40.31
063.0	058.5225	0103.9	046.8		169.9	002.8814	0095.6	074.1	40.10
064.0	059.2900	0104.1	046.9		169.6	002.8855	0095.6	074.9	39.90
065.0	060.0625	0104.1	047.1		169.4	002.8889	0095.7	075.6	39.69
066.0	060.8400	0103.6	047.1		169.2	002.8914	0095.7	076.4	39.47
067.0	061.6225	0103.7	047.2		169.0	002.8946	0095.7	077.2	39.26
068.0	062.4100	0103.7	047.3		168.8	002.8976	0095.7	078.0	39.04
069.0	063.2025	0103.7	047.4		168.6	002.9002	0095.7	078.8	38.82
070.0	064.0000	0103.5	047.5		168.4	002.9025	0095.7	079.6	38.60
071.0	067.2400	0103.4	047.9		168.1	002.9080	0095.7	080.3	38.40
072.0	070.5600	0103.5	048.4		167.7	002.9135	0095.8	081.1	38.20
073.0	073.9600	0103.4	048.8		167.3	002.9184	0096.0	081.9	37.99
074.0	077.4400	0103.3	049.2		167.0	002.9229	0096.1	082.8	37.77
075.0	081.0000	0103.3	049.6		166.7	002.9274	0096.1	083.6	37.54
076.0	084.6400	0103.5	050.0		166.4	002.9318	0096.1	084.5	37.31
077.0	088.3600	0103.5	050.4		166.2	002.9355	0096.2	085.3	37.08

**Table 5: FMOVER Protection of WSCI, Charleston, South Carolina**

10-07-2007 NED 03 SEC Terrain Data				FMOver Analysis				
Branchville				WSCI BLED19921223KA				
Channel = 205C3				Channel = 207C				
Max ERP = 18 kW				Max ERP = 100 kW				
RCAMSL = 120 M				RCAMSL = 419 M				
N. Lat. 33 12 25.4				N. Lat. 32 55 28.0				
W. Lng. 80 36 47.3				W. Lng. 79 41 58.0				
Protected				Interfering				
60 dBu				100 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
050.0	018.0000	0093.4	035.3	313.2	100.0000	0411.8	079.4	65.72
051.0	018.0000	0093.4	035.3	313.2	100.0000	0411.8	078.8	65.93
052.0	018.0000	0093.5	035.4	313.1	100.0000	0411.8	078.2	66.14
053.0	018.0000	0093.5	035.4	313.0	100.0000	0411.8	077.6	66.34
054.0	018.0000	0093.5	035.4	312.9	100.0000	0411.8	077.0	66.54
055.0	018.0000	0093.7	035.4	312.9	100.0000	0411.7	076.4	66.74
056.0	018.0000	0093.7	035.4	312.8	100.0000	0411.7	075.8	66.95
057.0	018.0000	0093.8	035.4	312.7	100.0000	0411.7	075.2	67.15
058.0	018.0000	0093.9	035.4	312.5	100.0000	0411.7	074.6	67.35
059.0	018.0000	0093.9	035.4	312.4	100.0000	0411.7	074.0	67.55
060.0	018.0000	0094.0	035.5	312.3	100.0000	0411.7	073.4	67.74
061.0	018.0000	0094.0	035.5	312.1	100.0000	0411.6	072.8	67.94
062.0	018.0000	0094.1	035.5	312.0	100.0000	0411.6	072.2	68.14
063.0	018.0000	0094.0	035.5	311.8	100.0000	0411.6	071.6	68.33
064.0	018.0000	0093.9	035.4	311.6	100.0000	0411.4	071.1	68.51
065.0	018.0000	0093.8	035.4	311.4	100.0000	0411.3	070.5	68.70
066.0	018.0000	0093.9	035.4	311.2	100.0000	0411.2	069.9	68.89
067.0	018.0000	0093.9	035.4	310.9	100.0000	0411.1	069.4	69.07
068.0	018.0000	0093.5	035.4	310.6	100.0000	0411.0	068.9	69.25
069.0	018.0000	0093.2	035.3	310.4	100.0000	0410.9	068.3	69.42
070.0	018.0000	0093.0	035.3	310.1	100.0000	0411.0	067.8	69.60
071.0	018.0000	0093.0	035.3	309.8	100.0000	0410.9	067.3	69.78
072.0	018.0000	0093.2	035.3	309.6	100.0000	0410.9	066.8	69.96
073.0	018.0000	0093.2	035.3	309.3	100.0000	0410.8	066.3	70.13
074.0	018.0000	0092.9	035.3	308.9	100.0000	0410.8	065.8	70.30
075.0	018.0000	0092.9	035.3	308.6	100.0000	0410.9	065.3	70.47
076.0	018.0000	0092.8	035.2	308.2	100.0000	0411.0	064.8	70.64
077.0	018.0000	0092.7	035.2	307.9	100.0000	0411.0	064.3	70.80
078.0	018.0000	0092.9	035.3	307.6	100.0000	0410.9	063.9	70.97
079.0	018.0000	0093.1	035.3	307.2	100.0000	0411.0	063.4	71.14
080.0	018.0000	0093.3	035.3	306.9	100.0000	0411.3	062.9	71.31
081.0	018.0000	0093.3	035.3	306.5	100.0000	0411.4	062.4	71.48
082.0	018.0000	0093.4	035.4	306.1	100.0000	0411.4	062.0	71.64
083.0	018.0000	0093.5	035.4	305.7	100.0000	0411.6	061.6	71.79
084.0	018.0000	0093.6	035.4	305.2	100.0000	0412.0	061.2	71.96
085.0	018.0000	0093.9	035.4	304.8	100.0000	0412.5	060.7	72.13
086.0	018.0000	0094.0	035.5	304.4	100.0000	0412.9	060.3	72.29

087.0	018.0000	0094.0	035.5		303.9	100.0000	0413.1	059.9	72.43
088.0	018.0000	0094.1	035.5		303.4	100.0000	0413.1	059.6	72.57
089.0	018.0000	0094.2	035.5		302.9	100.0000	0413.1	059.2	72.70
090.0	018.0000	0094.2	035.5		302.4	100.0000	0412.9	058.9	72.82
091.0	018.0000	0094.4	035.5		301.9	100.0000	0412.8	058.5	72.95
092.0	018.0000	0094.7	035.6		301.4	100.0000	0412.6	058.2	73.07
093.0	018.0000	0094.9	035.6		300.9	100.0000	0412.6	057.8	73.20
094.0	018.0000	0094.8	035.6		300.3	100.0000	0412.3	057.6	73.29
095.0	018.0000	0094.7	035.6		299.8	100.0000	0412.2	057.3	73.38
096.0	018.0000	0094.6	035.6		299.2	100.0000	0412.3	057.1	73.47
097.0	018.0000	0094.7	035.6		298.6	100.0000	0412.3	056.9	73.56
098.0	018.0000	0094.6	035.6		298.0	100.0000	0412.5	056.6	73.64
099.0	018.0000	0094.6	035.6		297.4	100.0000	0412.6	056.5	73.72
100.0	018.0000	0094.4	035.5		296.8	100.0000	0412.8	056.3	73.78
101.0	018.0000	0094.2	035.5		296.2	100.0000	0412.7	056.2	73.83
102.0	018.0000	0094.2	035.5		295.6	100.0000	0412.4	056.0	73.87
103.0	018.0000	0094.2	035.5		295.0	100.0000	0412.3	055.9	73.93
104.0	018.0000	0094.1	035.5		294.3	100.0000	0412.2	055.8	73.96
105.0	018.0000	0094.0	035.5		293.7	100.0000	0412.1	055.7	73.98
106.0	018.0000	0093.9	035.4		293.1	100.0000	0411.9	055.7	74.00
107.0	018.0000	0094.1	035.5		292.4	100.0000	0412.0	055.6	74.04
108.0	018.0000	0094.3	035.5		291.8	100.0000	0412.0	055.5	74.08
109.0	018.0000	0094.5	035.5		291.1	100.0000	0412.1	055.4	74.10
110.0	018.0000	0094.4	035.5		290.5	100.0000	0412.3	055.4	74.10
111.0	018.0000	0094.5	035.5		289.9	100.0000	0412.2	055.4	74.10
112.0	018.0000	0094.6	035.6		289.2	100.0000	0412.5	055.4	74.10
113.0	018.0000	0094.6	035.6		288.6	100.0000	0412.8	055.5	74.10
114.0	018.0000	0094.7	035.6		287.9	100.0000	0412.8	055.5	74.08
115.0	018.0000	0094.4	035.5		287.3	100.0000	0413.1	055.6	74.04
116.0	018.0000	0094.2	035.5		286.7	100.0000	0413.2	055.8	73.99
117.0	018.0000	0094.4	035.5		286.0	100.0000	0413.1	055.9	73.96
118.0	018.0000	0094.4	035.5		285.4	100.0000	0413.1	056.0	73.91
119.0	018.0000	0094.2	035.5		284.8	100.0000	0413.3	056.2	73.85
120.0	018.0000	0094.4	035.5		284.2	100.0000	0413.4	056.3	73.80
121.0	017.3313	0094.6	035.3		283.7	100.0000	0413.6	056.7	73.64
122.0	016.6753	0094.8	035.0		283.2	100.0000	0413.5	057.2	73.47
123.0	016.0320	0094.6	034.6		282.7	100.0000	0413.5	057.7	73.27
124.0	015.4013	0094.3	034.3		282.3	100.0000	0413.5	058.3	73.05
125.0	014.7832	0094.0	033.9		281.9	100.0000	0413.3	058.8	72.84
126.0	014.1778	0094.0	033.6		281.5	100.0000	0413.1	059.4	72.63
127.0	013.5851	0094.2	033.3		281.1	100.0000	0413.1	059.9	72.44
128.0	013.0050	0094.4	033.0		280.8	100.0000	0413.0	060.5	72.24
129.0	012.4376	0094.7	032.7		280.4	100.0000	0412.9	061.0	72.04
130.0	011.8829	0095.4	032.4		280.1	100.0000	0413.0	061.5	71.86
131.0	011.3480	0095.6	032.1		279.8	100.0000	0413.0	062.1	71.66
132.0	010.8373	0095.9	031.8		279.5	100.0000	0412.9	062.6	71.46
133.0	010.3495	0096.4	031.5		279.2	100.0000	0412.8	063.1	71.27
134.0	009.8837	0096.7	031.2		278.9	100.0000	0412.8	063.7	71.08
135.0	009.4389	0096.3	030.8		278.8	100.0000	0412.9	064.3	70.85
136.0	009.0141	0095.3	030.3		278.6	100.0000	0413.0	065.0	70.61
137.0	008.6084	0094.9	030.0		278.5	100.0000	0413.1	065.7	70.39
138.0	008.2209	0094.8	029.6		278.3	100.0000	0413.2	066.3	70.19
139.0	007.8509	0094.7	029.3		278.2	100.0000	0413.2	066.8	70.00
140.0	007.4976	0094.6	029.0		278.0	100.0000	0413.2	067.4	69.80
141.0	007.1601	0094.6	028.7		277.9	100.0000	0413.2	068.0	69.61
142.0	006.8379	0094.9	028.4		277.7	100.0000	0413.2	068.5	69.43
143.0	006.5301	0095.3	028.2		277.6	100.0000	0413.2	069.0	69.25

144.0	006.2362	0095.6	027.9		277.5	100.0000	0413.3	069.6	69.08
145.0	005.9555	0095.8	027.7		277.3	100.0000	0413.4	070.1	68.90
146.0	005.6875	0096.4	027.5		277.2	100.0000	0413.5	070.6	68.73
147.0	005.4315	0096.7	027.2		277.1	100.0000	0413.5	071.1	68.56
148.0	005.1871	0097.3	027.0		277.0	100.0000	0413.5	071.6	68.39
149.0	004.9536	0097.8	026.8		276.9	100.0000	0413.5	072.1	68.22
150.0	004.7307	0097.8	026.6		276.8	100.0000	0413.5	072.6	68.04
151.0	004.5177	0097.6	026.3		276.8	100.0000	0413.5	073.2	67.86
152.0	004.3144	0097.5	026.0		276.8	100.0000	0413.5	073.7	67.68
153.0	004.1202	0097.5	025.7		276.8	100.0000	0413.5	074.2	67.50
154.0	003.9348	0097.6	025.4		276.8	100.0000	0413.5	074.8	67.33
155.0	003.7577	0097.9	025.2		276.7	100.0000	0413.5	075.2	67.17
156.0	003.5886	0098.1	025.0		276.7	100.0000	0413.5	075.7	67.00
157.0	003.4271	0098.1	024.7		276.7	100.0000	0413.5	076.2	66.83
158.0	003.2728	0098.4	024.5		276.7	100.0000	0413.5	076.7	66.67
159.0	003.1255	0098.6	024.3		276.7	100.0000	0413.5	077.2	66.51
160.0	003.0258	0098.5	024.1		276.7	100.0000	0413.5	077.7	66.36
161.0	003.0111	0098.4	024.1		276.6	100.0000	0413.5	078.1	66.22
162.0	002.9964	0098.0	024.0		276.5	100.0000	0413.4	078.5	66.09
163.0	002.9817	0097.3	023.9		276.4	100.0000	0413.4	078.9	65.94
164.0	002.9670	0096.8	023.8		276.4	100.0000	0413.4	079.3	65.81
165.0	002.9525	0096.6	023.7		276.3	100.0000	0413.4	079.7	65.67
166.0	002.9379	0096.2	023.7		276.3	100.0000	0413.5	080.1	65.53
167.0	002.9234	0096.1	023.6		276.2	100.0000	0413.5	080.5	65.40
168.0	002.9089	0095.7	023.6		276.1	100.0000	0413.5	081.0	65.26
169.0	002.8944	0095.7	023.5		276.1	100.0000	0413.6	081.4	65.13
170.0	002.8800	0095.6	023.5		276.0	100.0000	0413.6	081.8	64.99

10-07-2007 NED 03 SEC Terrain Data

WSCI BLED19921223KA  
 Channel = 207C  
 Max ERP = 100 kW  
 RCAMSL = 419 M  
 N. Lat. 32 55 28.0  
 W. Lng. 79 41 58.0  
 Protected  
 60 dBu

Branchville  
 Channel = 205C3  
 Max ERP = 18 kW  
 RCAMSL = 120 M  
 N. Lat. 33 12 25.4  
 W. Lng. 80 36 47.3  
 Interfering  
 100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
231.0	100.0000	0412.4	080.7		164.6	002.9589	0096.7	085.2	37.18
232.0	100.0000	0412.5	080.7		164.8	002.9548	0096.7	083.9	37.52
233.0	100.0000	0412.7	080.7		165.2	002.9492	0096.5	082.6	37.86
234.0	100.0000	0413.0	080.7		165.6	002.9436	0096.3	081.3	38.21
235.0	100.0000	0413.4	080.7		166.0	002.9380	0096.2	080.0	38.55
236.0	100.0000	0413.6	080.8		166.4	002.9326	0096.1	078.7	38.91
237.0	100.0000	0413.7	080.8		166.7	002.9273	0096.1	077.4	39.27
238.0	100.0000	0414.1	080.8		167.1	002.9218	0096.1	076.1	39.63
239.0	100.0000	0414.9	080.9		167.5	002.9162	0095.9	074.8	39.99
240.0	100.0000	0415.1	080.9		167.9	002.9110	0095.8	073.4	40.35
241.0	100.0000	0414.9	080.9		168.2	002.9063	0095.7	072.1	40.73

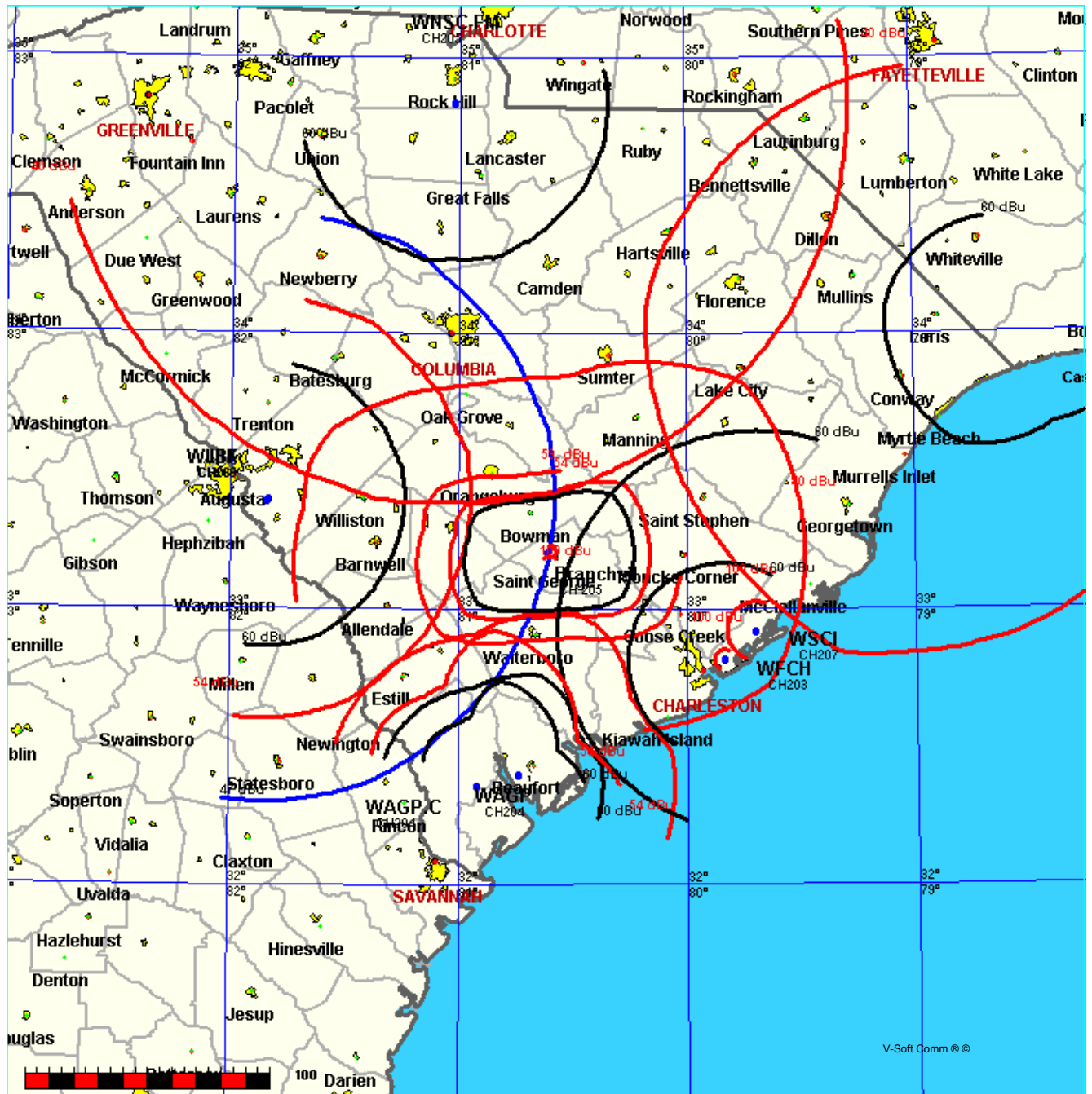
242.0	100.0000	0414.9	080.9		168.5	002.9014	0095.7	070.7	41.11
243.0	100.0000	0415.0	080.9		168.8	002.8967	0095.7	069.4	41.50
244.0	100.0000	0414.8	080.9		169.2	002.8922	0095.7	068.0	41.89
245.0	100.0000	0415.0	080.9		169.5	002.8875	0095.7	066.6	42.29
246.0	100.0000	0415.4	080.9		169.8	002.8828	0095.6	065.3	42.69
247.0	100.0000	0415.5	080.9		170.1	002.8800	0095.6	063.9	43.10
248.0	100.0000	0415.8	080.9		170.4	002.8800	0095.6	062.5	43.53
249.0	100.0000	0416.3	081.0		170.7	002.8800	0095.6	061.2	43.99
250.0	100.0000	0416.4	081.0		171.0	002.8800	0095.5	059.8	44.46
251.0	100.0000	0416.6	081.0		171.3	002.8800	0095.4	058.4	44.94
252.0	100.0000	0416.6	081.0		171.5	002.8800	0095.4	057.0	45.44
253.0	100.0000	0416.8	081.0		171.8	002.8800	0095.4	055.6	45.96
254.0	100.0000	0417.0	081.0		172.0	002.8800	0095.5	054.2	46.48
255.0	100.0000	0417.0	081.0		172.2	002.8800	0095.5	052.8	47.02
256.0	100.0000	0417.0	081.0		172.4	002.8800	0095.6	051.4	47.55
257.0	100.0000	0416.9	081.0		172.6	002.8800	0095.6	050.0	48.08
258.0	100.0000	0417.1	081.0		172.7	002.8800	0095.6	048.6	48.60
259.0	100.0000	0417.1	081.0		172.9	002.8800	0095.6	047.2	49.13
260.0	100.0000	0417.0	081.0		173.0	002.8800	0095.7	045.8	49.66
261.0	100.0000	0417.1	081.0		173.1	002.8800	0095.7	044.3	50.21
262.0	100.0000	0417.2	081.0		173.1	002.8800	0095.7	042.9	50.77
263.0	100.0000	0417.1	081.0		173.2	002.8800	0095.7	041.5	51.35
264.0	100.0000	0417.2	081.0		173.2	002.8800	0095.7	040.1	51.94
265.0	100.0000	0417.1	081.0		173.1	002.8800	0095.7	038.7	52.54
266.0	100.0000	0416.9	081.0		173.0	002.8800	0095.7	037.3	53.15
267.0	100.0000	0416.3	081.0		172.8	002.8800	0095.6	035.9	53.77
268.0	100.0000	0416.3	081.0		172.6	002.8800	0095.6	034.5	54.41
269.0	100.0000	0416.2	081.0		172.4	002.8800	0095.6	033.0	55.06
270.0	100.0000	0416.2	081.0		172.1	002.8800	0095.5	031.6	55.73
271.0	100.0000	0416.4	081.0		171.7	002.8800	0095.4	030.2	56.45
272.0	100.0000	0416.0	080.9		171.2	002.8800	0095.4	028.9	57.25
273.0	100.0000	0415.5	080.9		170.6	002.8800	0095.6	027.5	58.11
274.0	100.0000	0414.7	080.8		169.8	002.8835	0095.6	026.1	59.01
275.0	100.0000	0413.8	080.8		168.8	002.8972	0095.7	024.8	59.96
276.0	100.0000	0413.6	080.8		167.8	002.9119	0095.8	023.4	60.97
277.0	100.0000	0413.5	080.8		166.6	002.9289	0096.1	022.1	62.02
278.0	100.0000	0413.2	080.7		165.2	002.9495	0096.5	020.8	63.10
279.0	100.0000	0412.8	080.7		163.5	002.9743	0097.0	019.5	64.21
280.0	100.0000	0413.0	080.7		161.6	003.0019	0098.1	018.3	65.38
281.0	100.0000	0413.0	080.7		159.4	003.0884	0098.6	017.0	66.57
282.0	100.0000	0413.3	080.7		156.7	003.4673	0098.0	015.9	68.02
283.0	100.0000	0413.5	080.8		153.6	004.0077	0097.4	014.7	69.48
284.0	100.0000	0413.5	080.8		149.8	004.7651	0097.8	013.7	71.54
285.0	100.0000	0413.3	080.7		145.3	005.8628	0096.0	012.7	73.55
286.0	100.0000	0413.1	080.7		140.1	007.4692	0094.6	011.9	75.71
287.0	100.0000	0413.1	080.7		134.1	009.8527	0096.7	011.1	78.25
288.0	100.0000	0412.8	080.7		127.2	013.4620	0094.3	010.6	80.28
289.0	100.0000	0412.6	080.7		119.7	018.0000	0094.4	010.3	82.15
290.0	100.0000	0412.2	080.7		111.8	018.0000	0094.5	010.1	82.39
291.0	100.0000	0412.2	080.7		103.9	018.0000	0094.1	010.2	82.24
292.0	100.0000	0412.0	080.6		096.2	018.0000	0094.6	010.5	81.78
293.0	100.0000	0411.9	080.6		089.1	018.0000	0094.2	011.0	80.94
294.0	100.0000	0412.1	080.7		082.7	018.0000	0093.4	011.6	79.85
295.0	100.0000	0412.3	080.7		077.1	018.0000	0092.7	012.4	78.60
296.0	100.0000	0412.6	080.7		072.2	018.0000	0093.3	013.3	77.40
297.0	100.0000	0412.7	080.7		068.1	018.0000	0093.5	014.3	76.14
298.0	100.0000	0412.5	080.7		064.7	018.0000	0093.9	015.4	75.18

299.0	100.0000	0412.3	080.7		061.8	018.0000	0094.1	016.5	74.21
300.0	100.0000	0412.2	080.7		059.4	018.0000	0094.0	017.7	73.20
301.0	100.0000	0412.6	080.7		057.2	018.0000	0093.8	019.0	72.17
302.0	100.0000	0412.8	080.7		055.4	018.0000	0093.7	020.2	71.13
303.0	100.0000	0413.1	080.7		053.9	018.0000	0093.5	021.5	70.10
304.0	100.0000	0413.1	080.7		052.7	018.0000	0093.5	022.8	69.09
305.0	100.0000	0412.3	080.7		051.7	018.0000	0093.5	024.2	68.09
306.0	100.0000	0411.4	080.6		051.0	018.0000	0093.4	025.6	67.11
307.0	100.0000	0411.2	080.6		050.2	018.0000	0093.4	026.9	66.20
308.0	100.0000	0411.0	080.6		049.6	017.8869	0093.4	028.3	65.31
309.0	100.0000	0410.8	080.6		049.1	017.7312	0093.4	029.7	64.46
310.0	100.0000	0411.0	080.6		048.6	017.4060	0093.3	031.1	63.63
311.0	100.0000	0411.1	080.6		048.2	017.0996	0093.3	032.4	62.86
312.0	100.0000	0411.6	080.6		047.9	016.8144	0093.3	033.8	62.14
313.0	100.0000	0411.8	080.6		047.6	016.6254	0093.2	035.2	61.45
314.0	100.0000	0411.9	080.6		047.4	016.4779	0093.2	036.6	60.78
315.0	100.0000	0411.5	080.6		047.4	016.4176	0093.2	038.0	60.15
316.0	100.0000	0411.5	080.6		047.3	016.3610	0093.2	039.4	59.53
317.0	100.0000	0411.5	080.6		047.2	016.3243	0093.2	040.8	58.94
318.0	100.0000	0411.8	080.6		047.2	016.2999	0093.2	042.2	58.36
319.0	100.0000	0411.5	080.6		047.3	016.3445	0093.2	043.6	57.81
320.0	100.0000	0411.7	080.6		047.3	016.3703	0093.2	045.1	57.27
321.0	100.0000	0411.8	080.6		047.4	016.4284	0093.2	046.5	56.75
322.0	100.0000	0411.7	080.6		047.5	016.5157	0093.2	047.9	56.26
323.0	100.0000	0411.8	080.6		047.6	016.6114	0093.2	049.3	55.77
324.0	100.0000	0411.8	080.6		047.8	016.7220	0093.2	050.7	55.28
325.0	100.0000	0411.8	080.6		047.9	016.8536	0093.3	052.1	54.80
326.0	100.0000	0411.8	080.6		048.1	016.9996	0093.3	053.4	54.32
327.0	100.0000	0411.8	080.6		048.3	017.1584	0093.3	054.8	53.84
328.0	100.0000	0411.8	080.6		048.5	017.3305	0093.3	056.2	53.37
329.0	100.0000	0411.9	080.6		048.8	017.5102	0093.3	057.6	52.91
330.0	100.0000	0411.7	080.6		049.0	017.7067	0093.4	059.0	52.47
331.0	100.0000	0411.7	080.6		049.3	017.7826	0093.4	060.4	52.02
332.0	100.0000	0411.9	080.6		049.5	017.8584	0093.4	061.7	51.57
333.0	100.0000	0412.3	080.7		049.8	017.9330	0093.4	063.1	51.14
334.0	100.0000	0412.8	080.7		050.0	018.0000	0093.4	064.5	50.74
335.0	100.0000	0412.7	080.7		050.3	018.0000	0093.3	065.9	50.33
336.0	100.0000	0412.6	080.7		050.6	018.0000	0093.3	067.2	49.92
337.0	100.0000	0412.7	080.7		050.9	018.0000	0093.4	068.6	49.53
338.0	100.0000	0413.0	080.7		051.2	018.0000	0093.4	069.9	49.13
339.0	100.0000	0413.0	080.7		051.6	018.0000	0093.5	071.3	48.75
340.0	100.0000	0412.4	080.7		051.9	018.0000	0093.5	072.6	48.37
341.0	100.0000	0412.2	080.7		052.3	018.0000	0093.5	073.9	47.99
342.0	100.0000	0412.0	080.6		052.6	018.0000	0093.5	075.3	47.62
343.0	100.0000	0411.8	080.6		053.0	018.0000	0093.5	076.6	47.24
344.0	100.0000	0411.6	080.6		053.4	018.0000	0093.5	077.9	46.88
345.0	100.0000	0411.6	080.6		053.7	018.0000	0093.5	079.2	46.51
346.0	100.0000	0411.4	080.6		054.1	018.0000	0093.5	080.5	46.16
347.0	100.0000	0411.1	080.6		054.5	018.0000	0093.6	081.8	45.80
348.0	100.0000	0411.1	080.6		054.8	018.0000	0093.6	083.1	45.45
349.0	100.0000	0411.0	080.6		055.2	018.0000	0093.7	084.4	45.09
350.0	100.0000	0410.8	080.6		055.6	018.0000	0093.7	085.7	44.74
351.0	100.0000	0410.4	080.5		056.0	018.0000	0093.7	087.0	44.40

Spirit Broadcasting Group, Inc.  
Figure 1: Allocation Study

Coverage Study  
10-07-2007

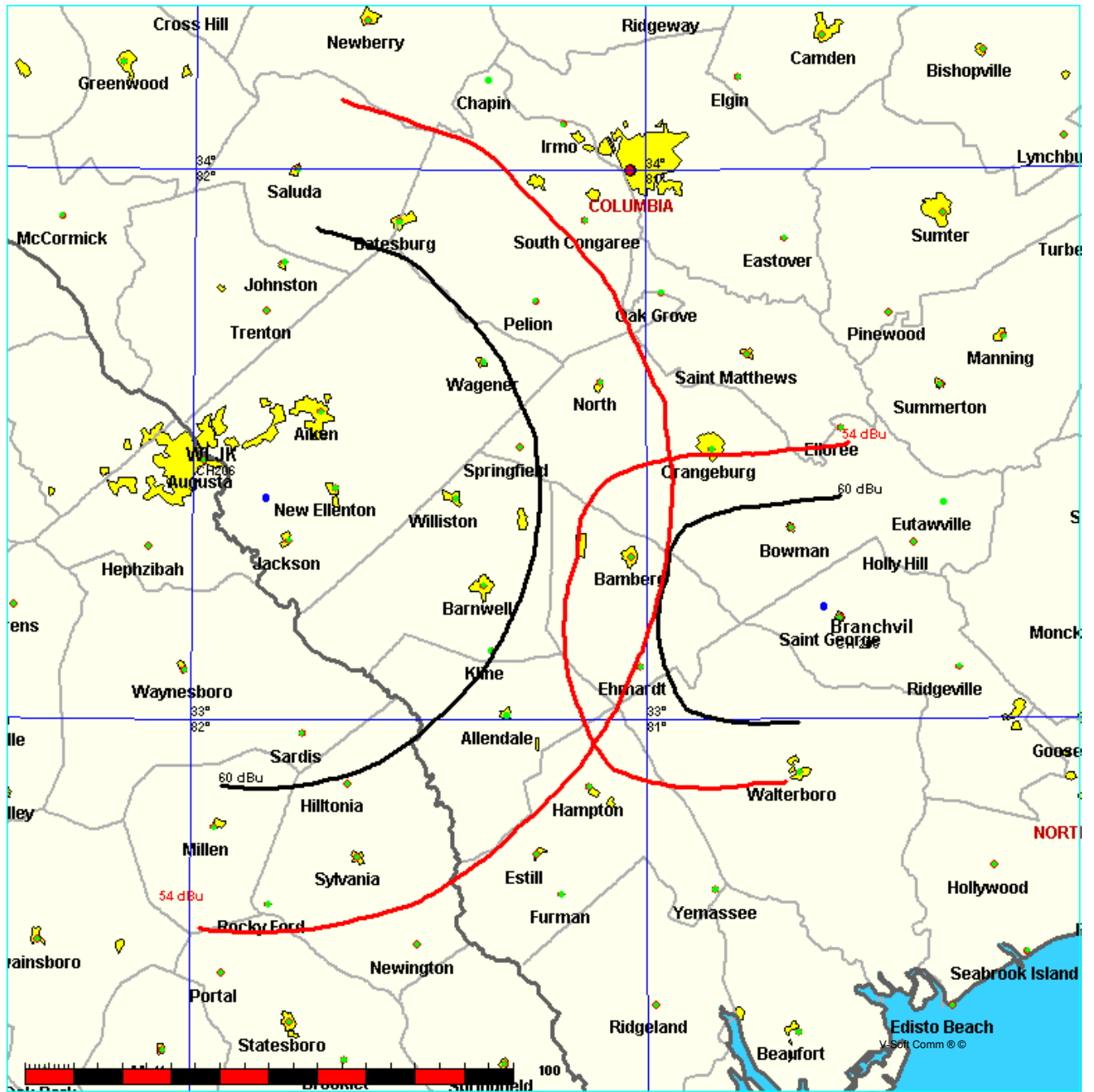
Branchvil CH205 C3 18.0 kW 120M COR  
Prot. = 60 dBu. Population =



Spirit Broadcasting Group, Inc.  
Figure 2: Allocation Study WLJK

FMCommander Single Allocation Study  
10-07-2007

Branchvil CH 205 C3	WLJK	CH 206 C1	BLED19890814KA
18.0 kW 120 M COR DA	10.0 kW, 498 M COR		
Prot. = 60 dBu	Prot. = 60 dBu		
Intef. = 54 dBu	Intef. = 54 dBu		

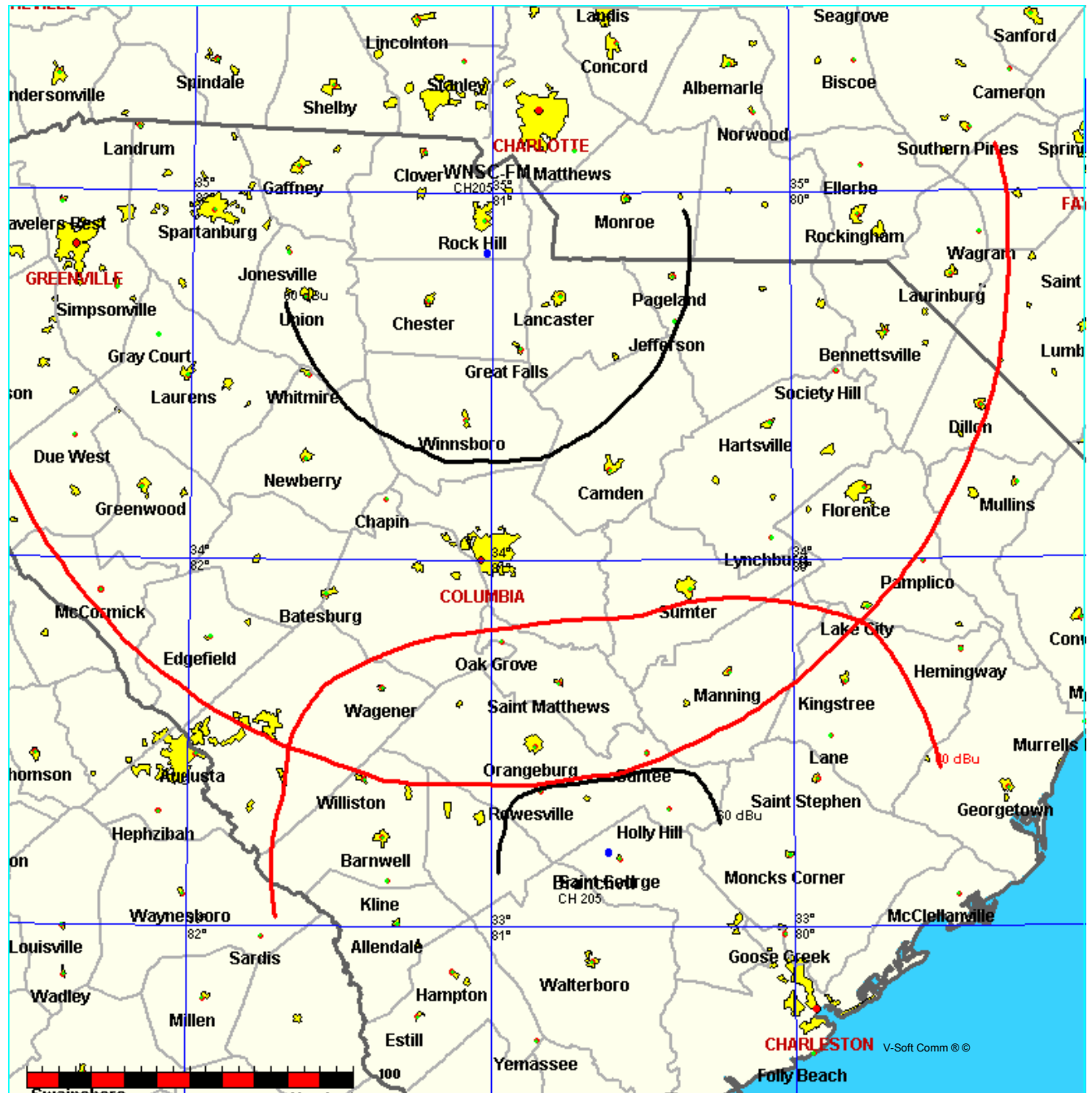


Spirit Broadcasting Group, Inc.  
Figure 3: Allocation Study WNSC-FM

FMCommander Single Allocation Study  
10-07-2007

Branchvil CH 205 C3  
18.0 kW 120 M COR DA  
Prot. = 60 dBu  
Intef. = 40 dBu

WNSC-FM CH 205 C1 BMLED20060215AAK  
100.0 kW, 359 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu

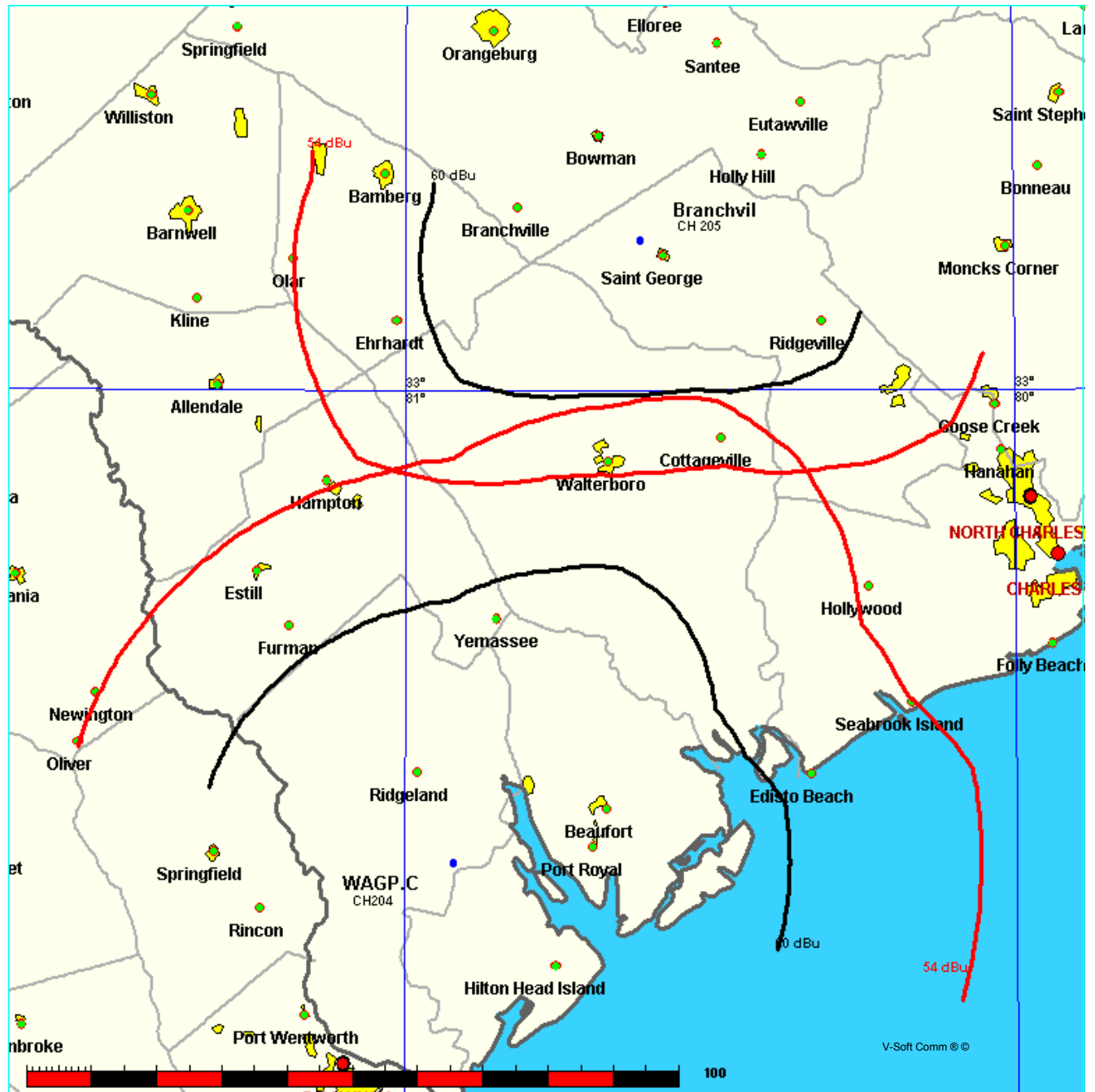


Spirit Broadcasting Group, Inc.  
Figure 4: Allocation Study WAGP.C

FMCommander Single Allocation Study  
10-07-2007

Branchvil CH 205 C3  
18.0 kW 120 M COR DA  
Prot. = 60 dBu  
Intef. = 54 dBu

WAGP-C CH 204 C1 BPED20070604ACR  
100.0 kW, 105.4 M COR DA  
Prot. = 60 dBu  
Intef. = 54 dBu



Spirit Broadcasting Group, Inc.  
Figure 5: Allocation Study WSCI

FMCommander Single Allocation Study  
10-07-2007

Branchvil CH 205 C3	WSCI CH 207 C	BLED19921223KA
18.0 kW 120 M COR DA	100.0 kW, 419 M COR DA	
Prot. = 60 dBu	Prot. = 60 dBu	
Intef. = 100 dBu	Intef. = 100 dBu	

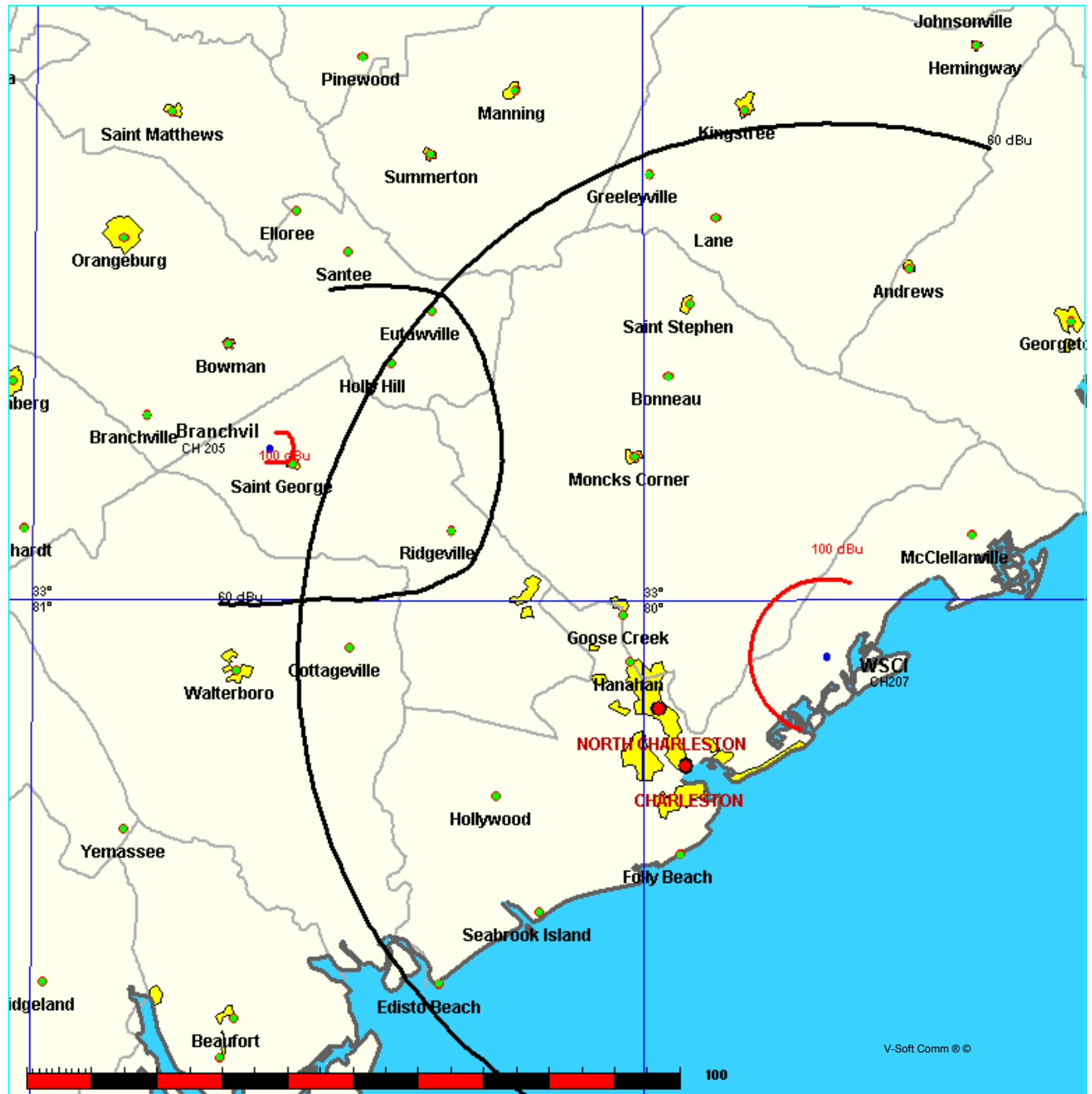


Figure 6: Antenna Pattern Branchville, South Carolina  
Pre-Rotation Antenna Pattern....

Azimuth (deg)	Effective Field
0.0	0.372
10.0	0.404
20.0	0.509
30.0	0.640
40.0	0.806
50.0	1.000
60.0	1.000
70.0	1.000
80.0	1.000
90.0	1.000
100.0	1.000
110.0	1.000
120.0	1.000
130.0	0.813
140.0	0.645
150.0	0.513
160.0	0.410
170.0	0.400
180.0	0.400
190.0	0.420
200.0	0.468
210.0	0.589
220.0	0.741
230.0	0.933
240.0	1.000
250.0	1.000
260.0	1.000
270.0	0.996
280.0	0.949
290.0	1.000
300.0	0.936
310.0	0.743
320.0	0.590
330.0	0.475
340.0	0.411
350.0	0.382

