

## Channel Study

REFERENCE CH# 205C1- 88.9 MHz, Pwr= 100 kW DA, HAAT= 174.4 M, COR= 186 M DISPLAY DATES  
34 05 41.0 N. Average Protected F(50-50)= 61.3 km DATA 06-17-13  
78 28 27.0 W. Standard Directional SEARCH 06-19-13

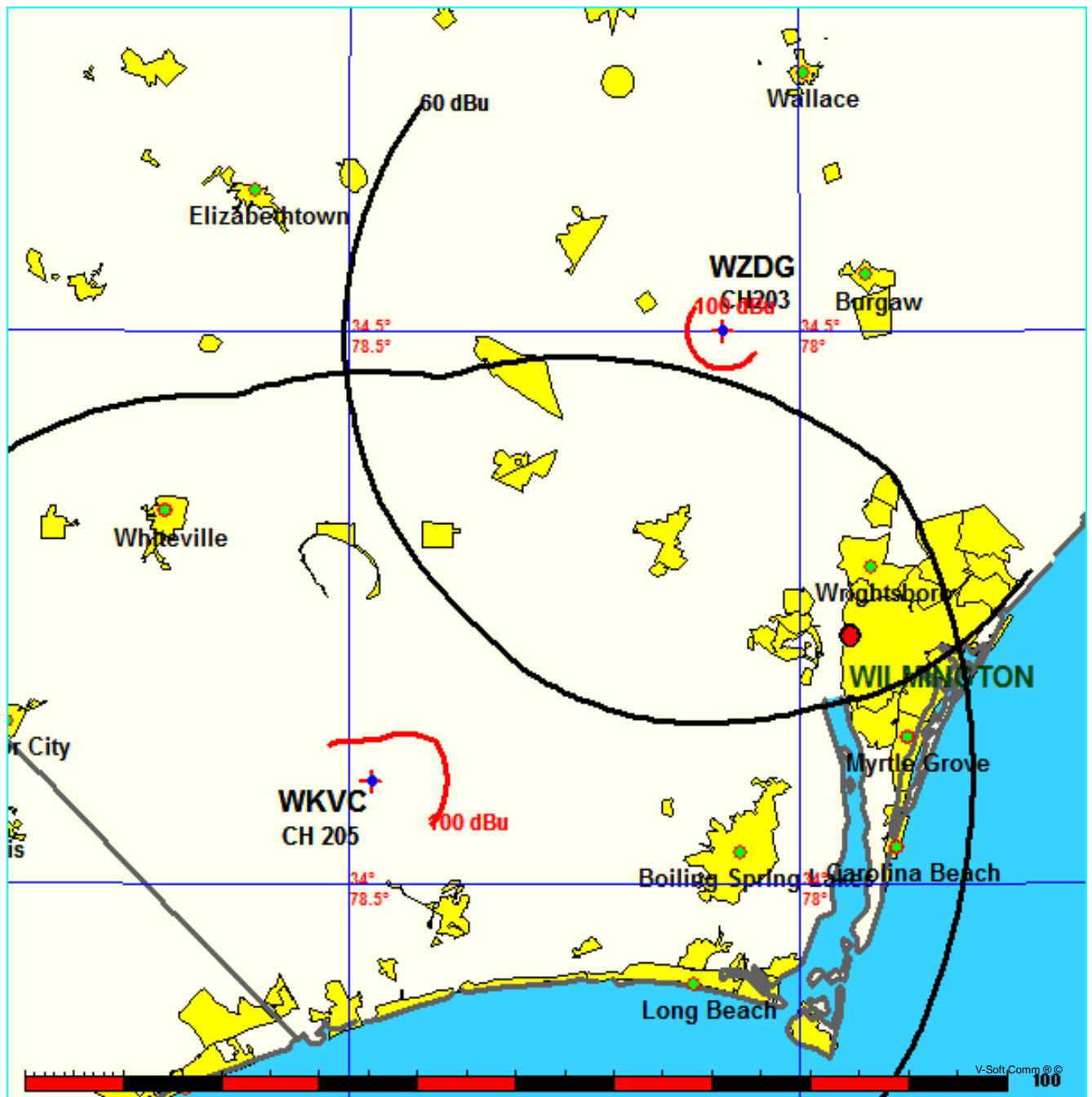
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
205C1 North Myrtle Beach	WKVC	LIC	DVN SC	0.0 0.0	0.00 BLED19970924KA	34 05 41.0 78 28 27.0	100.000 177	106.5 188	41.2 Educational Media Foundati	-147.5* -147.5*	
203C3 Scotts Hill	WZDG	LIC	VX NC	38.3 218.6	57.78 BLED20070327ACN	34 30 07.0 78 04 58.0	8.900 166	3.8 176	39.1 Carolina Christian Radio I	1.6 12.7	
206C2 Dillon	NEW	CP	DCX SC	310.1 129.5	115.29 BNPED20071022AFU	34 45 30.0 79 26 22.0	32.500 128	53.5 186	35.4 Radio Training Network, In	11.6 5.8	
204C3 Raeford	WRAE	LIC	DCX NC	327.1 146.7	108.91 BLED20110201ADE	34 54 57.0 79 07 28.0	6.000 144	50.8 207	33.7 American Family Associatio	13.0 8.7	
205C2 Raleigh	WSHA	LIC	DCN NC	356.5 176.4	184.14 BLED20030513ABY	35 45 05.0 78 36 01.0	50.000 139	130.3 227	48.9 Shaw University	12.8 29.0	
202A Murrells Inlet	WMBJ	CP	DCX SC	224.1 43.8	77.02 BPED20111012AAP	33 35 45.0 79 03 11.0	3.800 101	2.4 105	25.8 Radio Training Network, In	13.1 43.6	
205C1 Summerville	WKBR-FM	APP	DCX SC	243.2 62.0	218.19 BMPED20130401ABH	33 11 33.0 80 33 51.0	70.000 96	131.8 124	45.4 Spirit Broadcasting Group,	24.6 13.6	
205C3 Branchville	WKBR-FM	CP	DEX SC	244.1 62.9	221.49 BNPED20071015AKQ	33 12 25.0 80 36 47.0	18.000 90	105.5 120	35.8 Spirit Broadcasting Group,	54.3 26.6	
205C1 Rock Hill	WNCS-FM	LIC	CY SC	290.3 108.8	247.95 BMLED20060215AAK	34 50 23.0 81 01 07.0	100.000 183	161.7 359	63.7 South Carolina Educational	30.2 40.7	
202A Murrells Inlet	WMBJ	LIC	DVX SC	220.5 40.1	94.97 BLED20040630ABI	33 26 35.0 79 08 21.0	1.800 101	2.0 103	21.8 Radio Training Network, In	31.6 65.5	
258C3 Socastee	WRNN-FM«	LIC	C SC	223.2 43.0	56.90 BLH20040318AAT	33 43 16.0 78 53 45.0	21.500 108	39.5 112	26.0 Nm Licensing Llc	23.5R 33.4M	
208A Lumberton	WLPS-FM	CP	CX NC	319.3 139.0	89.00 BPED20120629ACS	34 42 02.0 79 06 32.0	4.000 98	2.5 144	26.4 Billy Ray Locklear Evangel	39.1 57.5	
208A Lumberton	WLPS-FM	LIC	DVX NC	319.3 139.0	89.00 BLED20060321AFM	34 42 02.0 79 06 32.0	2.000 134	2.2 179	25.6 Billy Ray Locklear Evangel	39.3 58.3	
205C0 Manteo	WUND-FM	LIC	DEX NC	43.4 224.6	279.03 BLED20030812ABB	35 54 00.0 76 20 45.0	50.000 418	167.0 419	72.7 Board Of Trustees Of The U	57.6 66.7	
204C3 Snow Hill	WAGO	CP	CX NC	26.2 206.7	167.68 BPED20120113ADT	35 26 49.0 77 39 20.0	13.500 100	51.4 123	32.9 Pathway Christian Academy,	68.8 64.7	
204C3 Snow Hill	WAGO	LIC	CN NC	26.2 206.7	167.68 BLED19980702KB	35 26 49.0 77 39 20.0	17.000 89	51.7 112	32.6 Pathway Christian Academy,	68.5 65.0	

KM Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in  
Contour distances are on direct line to and from reference station. Reference Zone= - Zone 2, Co to 3rd  
adjacent.  
All separation margins (if shown) include rounding  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E),  
Beamtilt(Y,N,X)  
""affixed to 'IN' or 'OUT' values = site inside protected contour.  
< = Station meets FCC minimum distance spacing for its class.  
< = Contour Overlap

FMCommander Single Allocation Study - 06-19-2013 - NGDC 30 SEC  
WKVC's Overlaps (In= 1.6 km, Out= 12.74 km)

WKVC CH 205 C1 DA  
Lat= 34 05 41.0, Lng= 78 28 27.0  
100.0 kW 174.4 M HAAT, 186 M COR  
Prot.= 60 dBu, Intef.= 100 dBu

WZDG CH 203 C3 BLED20070327ACN  
Lat= 34 30 07.0, Lng= 78 04 58.0  
8.9 kW 166 M HAAT, 176 M COR  
Prot.= 60 dBu, Intef.= 100 dBu

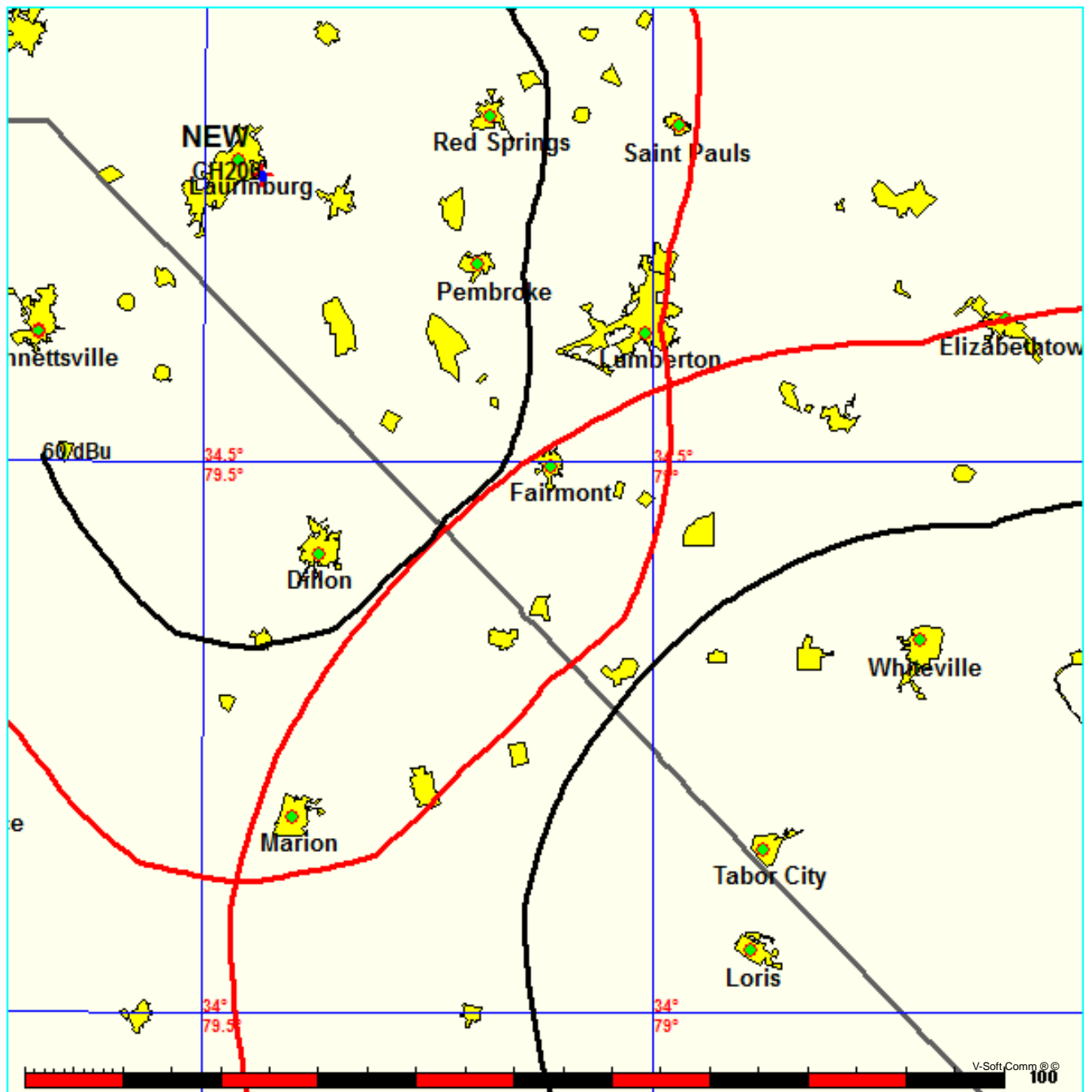


Educational Media Foundation

FMCommander Single Allocation Study - 06-19-2013 - NGDC 30 SEC  
WKVC's Overlaps (In= 11.63 km, Out= 5.79 km)

WKVC CH 205 C1 DA  
Lat= 34 05 41.0, Lng= 78 28 27.0  
100.0 kW 174.4 M HAAT, 186 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

NEW-C CH 206 C2 DA BNPED20071022AFU  
Lat= 34 45 30.0, Lng= 79 26 22.0  
32.5 kW 128 M HAAT, 186 M COR  
Prot.= 60 dBu, Intef.= 54 dBu



**WKVC.P vs. New**

EMF  
06-19-2013      Terrain Data: NGDC 30 SEC      FMOver Analysis

WKVC      NEW      BNPED20071022AFU

Channel = 205C1  
Max ERP = 100 kW  
RCAMSL = 186 M  
N. Lat. 34 05 41.0  
W. Lng. 78 28 27.0  
Protected  
60 dBu

Channel = 206C2  
Max ERP = 32.5 kW  
RCAMSL = 186 M  
N. Lat. 34 45 30.0  
W. Lng. 79 26 22.0  
Interfering  
54 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)	I X (km)
250.0	100.0000	0178.4	061.8	162.0	021.4891	0134.6	099.6	43.54	
251.0	100.0000	0178.5	061.8	162.0	021.4731	0134.6	098.5	43.80	
252.0	100.0000	0178.4	061.8	162.0	021.4818	0134.6	097.5	44.08	
253.0	100.0000	0178.4	061.8	162.0	021.4778	0134.6	096.4	44.37	
254.0	100.0000	0178.4	061.7	162.0	021.4621	0134.6	095.3	44.65	
255.0	100.0000	0178.3	061.7	162.0	021.4328	0134.6	094.2	44.94	
256.0	100.0000	0178.1	061.7	161.9	021.3868	0134.6	093.1	45.23	
257.0	100.0000	0177.9	061.7	161.8	021.3249	0134.6	092.1	45.51	
258.0	100.0000	0177.6	061.7	161.8	021.2416	0134.6	091.0	45.79	
259.0	100.0000	0177.3	061.6	161.7	021.1480	0134.6	089.9	46.08	
260.0	100.0000	0177.1	061.6	161.6	021.0438	0134.6	088.9	46.36	
261.0	100.0000	0176.9	061.6	161.4	020.9243	0134.6	087.8	46.64	
262.0	100.0000	0176.8	061.6	161.3	020.7983	0134.7	086.8	46.92	
263.0	100.0000	0176.7	061.6	161.2	020.6586	0134.7	085.7	47.20	
264.0	100.0000	0176.5	061.6	161.0	020.5025	0134.7	084.7	47.47	
265.0	100.0000	0176.5	061.6	160.8	020.3332	0134.8	083.6	47.75	
266.0	100.0000	0176.4	061.6	160.7	020.1498	0134.8	082.6	48.02	
267.0	100.0000	0176.4	061.5	160.4	019.9510	0134.9	081.5	48.28	
268.0	100.0000	0176.3	061.5	160.2	019.7344	0135.0	080.5	48.54	
269.0	100.0000	0176.1	061.5	160.0	019.5016	0135.1	079.5	48.80	
270.0	100.0000	0175.9	061.5	159.7	019.3237	0135.2	078.5	49.07	
271.0	097.8319	0175.7	061.3	159.3	019.0421	0135.4	077.6	49.29	
272.0	095.6875	0175.6	061.1	158.8	018.7480	0135.6	076.7	49.51	
273.0	093.5669	0175.4	060.8	158.3	018.4417	0135.9	075.8	49.72	
274.0	091.4701	0175.3	060.6	157.9	018.1291	0136.2	074.9	49.92	
275.0	089.3970	0175.3	060.4	157.3	017.8055	0136.5	074.1	50.12	
276.0	087.3477	0175.2	060.2	156.8	017.4694	0136.9	073.2	50.31	
277.0	085.3222	0175.1	060.0	156.2	017.1213	0137.3	072.4	50.49	
278.0	083.3204	0175.0	059.7	155.7	016.7628	0137.6	071.7	50.66	
279.0	081.3424	0175.0	059.5	155.1	016.3938	0138.0	070.9	50.81	
280.0	079.3881	0174.9	059.3	154.4	016.0156	0138.2	070.2	50.95	
281.0	076.8954	0174.8	059.0	153.7	015.6039	0138.2	069.5	51.05	
282.0	074.4424	0174.8	058.7	153.0	015.1845	0138.1	068.9	51.12	
283.0	072.0292	0174.8	058.4	152.3	014.7586	0138.0	068.3	51.18	
284.0	069.6557	0174.8	058.1	151.5	014.3284	0137.9	067.8	51.23	
285.0	067.3220	0174.8	057.8	150.8	013.8949	0137.9	067.2	51.26	
286.0	065.0281	0174.9	057.5	150.0	013.4772	0137.8	066.7	51.28	
287.0	062.7739	0174.9	057.2	149.2	013.4400	0137.6	066.3	51.41	
288.0	060.5595	0175.0	056.8	148.3	013.4020	0137.4	065.9	51.52	
289.0	058.3849	0175.1	056.5	147.5	013.3633	0137.2	065.5	51.62	
290.0	056.2500	0175.1	056.2	146.6	013.3240	0137.0	065.1	51.71	

291.0	054.4792	0175.1	055.9	145.8	013.2854	0136.9	064.8	51.80
292.0	052.7366	0175.1	055.6	144.9	013.2463	0136.7	064.5	51.88
293.0	051.0224	0175.1	055.3	144.1	013.2067	0136.5	064.2	51.94
294.0	049.3366	0175.1	055.0	143.2	013.1668	0136.3	064.0	51.99
295.0	047.6790	0175.2	054.7	142.3	013.1267	0136.0	063.8	52.03
296.0	046.0498	0175.2	054.4	141.4	013.0864	0135.7	063.7	52.05
297.0	044.4489	0175.3	054.1	140.5	013.0460	0135.7	063.6	52.07
298.0	042.8763	0175.4	053.8	139.6	012.8479	0135.7	063.5	52.04
299.0	041.3320	0175.7	053.5	138.7	012.4311	0135.8	063.4	51.92
300.0	039.8161	0176.0	053.2	137.9	012.0231	0135.8	063.4	51.78
301.0	038.5641	0176.4	053.0	137.0	011.6293	0135.8	063.4	51.64
302.0	037.3321	0176.7	052.7	136.1	011.2424	0135.8	063.4	51.50
303.0	036.1201	0177.0	052.4	135.3	010.8627	0136.0	063.4	51.34
304.0	034.9281	0177.1	052.1	134.4	010.4917	0136.1	063.5	51.16
305.0	033.7561	0177.1	051.8	133.6	010.1300	0136.3	063.7	50.97
306.0	032.6041	0177.1	051.5	132.7	009.7789	0136.5	063.8	50.77
307.0	031.4721	0177.1	051.2	131.9	009.4391	0136.7	064.1	50.55
308.0	030.3601	0177.1	050.9	131.1	009.1109	0136.9	064.3	50.32
309.0	029.2681	0177.0	050.6	130.3	008.7946	0137.0	064.6	50.08
310.0	028.1961	0176.8	050.2	129.5	008.5109	0137.1	065.0	49.83
311.0	027.3111	0176.7	049.9	128.7	008.2485	0137.1	065.3	49.59
312.0	026.4402	0176.6	049.6	128.0	007.9960	0137.1	065.6	49.35
313.0	025.5834	0176.6	049.3	127.3	007.7535	0137.1	066.0	49.09
314.0	024.7407	0176.6	049.0	126.5	007.5204	0137.0	066.4	48.83
315.0	023.9121	0176.8	048.7	125.8	007.2964	0137.0	066.8	48.57
316.0	023.0976	0177.1	048.5	125.2	007.0817	0137.0	067.2	48.30
317.0	022.2973	0177.4	048.2	124.5	006.8766	0137.0	067.7	48.03
318.0	021.5110	0177.6	047.9	123.9	006.6813	0137.0	068.1	47.74
319.0	020.7389	0177.7	047.5	123.3	006.4959	0137.0	068.7	47.46
320.0	019.9809	0177.8	047.2	122.7	006.3199	0137.0	069.2	47.17
321.0	019.3512	0177.9	047.0	122.1	006.1491	0137.0	069.7	46.88
322.0	018.7316	0177.9	046.7	121.6	005.9870	0137.0	070.3	46.60
323.0	018.1220	0177.8	046.4	121.0	005.8337	0137.0	070.8	46.30
324.0	017.5226	0177.7	046.1	120.5	005.6892	0136.9	071.4	46.01
325.0	016.9332	0177.5	045.7	120.0	005.5532	0136.9	072.0	45.71
326.0	016.3539	0177.3	045.4	119.6	005.4502	0136.8	072.7	45.43
327.0	015.7847	0177.1	045.1	119.1	005.3549	0136.8	073.3	45.15
328.0	015.2256	0177.0	044.8	118.7	005.2645	0136.8	074.0	44.87
329.0	014.6766	0176.9	044.4	118.3	005.1793	0136.7	074.6	44.59
330.0	014.1376	0176.8	044.1	117.9	005.0997	0136.7	075.3	44.31
331.0	013.6974	0176.6	043.8	117.6	005.0210	0136.6	076.0	44.04
332.0	013.2642	0176.3	043.5	117.2	004.9478	0136.6	076.7	43.77
333.0	012.8379	0176.0	043.2	116.9	004.8793	0136.6	077.4	43.50
334.0	012.4186	0175.7	042.9	116.6	004.8151	0136.5	078.1	43.23
335.0	012.0062	0175.5	042.6	116.3	004.7552	0136.5	078.8	42.96
336.0	011.6008	0175.3	042.3	116.0	004.6992	0136.5	079.5	42.69
337.0	011.2024	0175.1	042.0	115.7	004.6470	0136.5	080.2	42.43
338.0	010.8109	0175.0	041.7	115.5	004.5981	0136.5	080.9	42.17
339.0	010.4264	0174.9	041.3	115.3	004.5527	0136.5	081.6	41.91
340.0	010.0489	0174.9	041.0	115.1	004.5108	0136.5	082.3	41.66
341.0	010.0489	0174.9	041.0	114.7	004.4415	0136.5	082.9	41.44
342.0	010.0489	0174.8	041.0	114.4	004.3751	0136.5	083.4	41.22
343.0	010.0489	0174.8	041.0	114.1	004.3115	0136.5	083.9	40.99
344.0	010.0489	0174.7	041.0	113.7	004.2505	0136.5	084.5	40.77
345.0	010.0489	0174.6	041.0	113.4	004.1921	0136.4	085.0	40.54
346.0	010.0489	0174.5	041.0	113.1	004.1363	0136.4	085.6	40.32
347.0	010.0489	0174.3	041.0	112.9	004.0829	0136.4	086.2	40.09
348.0	010.0489	0174.3	041.0	112.6	004.0316	0136.3	086.8	39.86
349.0	010.0489	0174.2	041.0	112.3	003.9823	0136.3	087.4	39.64
350.0	010.0489	0174.1	041.0	112.1	003.9352	0136.3	088.0	39.41
351.0	010.0489	0174.1	041.0	111.8	003.8904	0136.2	088.6	39.18
352.0	010.0489	0174.0	040.9	111.6	003.8475	0136.2	089.2	38.95
353.0	010.0489	0174.0	040.9	111.4	003.8064	0136.2	089.8	38.73

354.0	010.0489	0174.1	041.0	111.1	003.7665	0136.1	090.4	38.50
355.0	010.0489	0174.2	041.0	110.9	003.7279	0136.1	091.1	38.28
356.0	010.0489	0174.4	041.0	110.7	003.6912	0136.1	091.7	38.05
357.0	010.0489	0174.5	041.0	110.5	003.6564	0136.0	092.4	37.83
358.0	010.0489	0174.6	041.0	110.4	003.6235	0136.0	093.0	37.61
359.0	010.0489	0174.8	041.0	110.2	003.5924	0136.0	093.7	37.39
000.0	010.0489	0174.8	041.0	110.0	003.5648	0135.9	094.3	37.17
001.0	010.0489	0174.6	041.0	109.9	003.5580	0135.9	095.0	36.97
002.0	010.0489	0174.5	041.0	109.8	003.5549	0135.9	095.7	36.79
003.0	010.0489	0174.3	041.0	109.6	003.5520	0135.9	096.4	36.60
004.0	010.0489	0174.4	041.0	109.5	003.5490	0135.8	097.1	36.41
005.0	010.0489	0174.7	041.0	109.4	003.5459	0135.8	097.8	36.23
006.0	010.0489	0175.2	041.1	109.2	003.5428	0135.8	098.4	36.04
007.0	010.0489	0175.6	041.1	109.1	003.5401	0135.8	099.1	35.86
008.0	010.0489	0175.7	041.1	109.0	003.5380	0135.8	099.8	35.68
009.0	010.0489	0175.4	041.1	109.0	003.5364	0135.7	100.5	35.50

06-19-2013      Terrain Data: NGDC 30 SEC      FMOver Analysis

NEW BNPED20071022AFU

WKVC

Channel = 206C2  
Max ERP = 32.5 kW  
RCAMSL = 186 M  
N. Lat. 34 45 30.0  
W. Lng. 79 26 22.0  
Protected  
60 dBu

Channel = 205C1  
Max ERP = 100 kW  
RCAMSL = 186 M  
N. Lat. 34 05 41.0  
W. Lng. 78 28 27.0  
Interfering  
54 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)	I X (km)
070.0	005.7330	0126.8	031.1	325.1	016.8764	0177.5	103.1	43.11	
071.0	005.6324	0126.9	031.0	325.0	016.9584	0177.5	102.6	43.26	
072.0	005.5328	0127.0	030.9	324.8	017.0486	0177.6	102.1	43.41	
073.0	005.4340	0127.1	030.8	324.6	017.1414	0177.6	101.7	43.56	
074.0	005.3361	0127.2	030.6	324.5	017.2390	0177.6	101.2	43.70	
075.0	005.2391	0127.2	030.5	324.3	017.3424	0177.7	100.8	43.85	
076.0	005.1430	0127.2	030.4	324.1	017.4521	0177.7	100.3	44.00	
077.0	005.0477	0127.1	030.2	323.9	017.5647	0177.7	099.9	44.14	
078.0	004.9534	0127.1	030.1	323.7	017.6811	0177.8	099.5	44.29	
079.0	004.8599	0127.0	030.0	323.5	017.8023	0177.8	099.0	44.43	
080.0	004.7674	0126.9	029.8	323.3	017.9258	0177.8	098.6	44.57	
081.0	004.6930	0126.9	029.7	323.1	018.0441	0177.8	098.2	44.71	
082.0	004.6192	0127.0	029.6	322.9	018.1630	0177.9	097.8	44.86	
083.0	004.5460	0127.2	029.5	322.7	018.2853	0177.9	097.4	45.00	
084.0	004.4733	0127.2	029.4	322.5	018.4135	0177.9	097.0	45.13	
085.0	004.4013	0127.2	029.3	322.3	018.5444	0177.9	096.7	45.27	
086.0	004.3298	0127.3	029.2	322.1	018.6791	0177.9	096.3	45.41	
087.0	004.2589	0127.5	029.1	321.9	018.8123	0177.9	095.9	45.54	
088.0	004.1886	0127.9	029.0	321.7	018.9460	0177.9	095.6	45.68	
089.0	004.1189	0128.2	029.0	321.4	019.0834	0177.9	095.2	45.81	
090.0	004.0498	0128.6	028.9	321.2	019.2246	0177.9	094.9	45.94	
091.0	003.9744	0128.8	028.8	321.0	019.3758	0177.9	094.5	46.07	
092.0	003.8998	0129.0	028.7	320.7	019.5305	0177.8	094.2	46.19	
093.0	003.8258	0129.2	028.6	320.5	019.6888	0177.8	093.9	46.31	
094.0	003.7526	0129.5	028.5	320.2	019.8493	0177.8	093.6	46.43	
095.0	003.6800	0129.8	028.4	320.0	020.0160	0177.8	093.4	46.55	
096.0	003.6082	0130.2	028.3	319.7	020.2092	0177.8	093.1	46.67	

097.0	003.5371	0130.7	028.2	319.4	020.4057	0177.7	092.8	46.80
098.0	003.4667	0131.1	028.1	319.2	020.6059	0177.7	092.6	46.91
099.0	003.3970	0131.6	028.0	318.9	020.8102	0177.7	092.3	47.03
100.0	003.3280	0132.0	027.9	318.6	021.0192	0177.7	092.1	47.14
101.0	003.3509	0132.5	028.0	318.4	021.1821	0177.6	091.7	47.28
102.0	003.3739	0133.0	028.1	318.2	021.3486	0177.6	091.3	47.42
103.0	003.3970	0133.5	028.2	318.0	021.5191	0177.6	091.0	47.56
104.0	003.4201	0134.0	028.3	317.8	021.6971	0177.5	090.6	47.70
105.0	003.4434	0134.5	028.4	317.5	021.8810	0177.5	090.3	47.84
106.0	003.4667	0134.9	028.5	317.3	022.0721	0177.5	090.0	47.97
107.0	003.4901	0135.3	028.5	317.0	022.2705	0177.4	089.7	48.10
108.0	003.5136	0135.5	028.6	316.8	022.4754	0177.3	089.4	48.23
109.0	003.5371	0135.7	028.7	316.5	022.6881	0177.3	089.1	48.35
110.0	003.5607	0135.9	028.7	316.2	022.9064	0177.2	088.8	48.48
111.0	003.7393	0136.1	029.1	316.0	023.0706	0177.1	088.3	48.66
112.0	003.9223	0136.3	029.4	315.8	023.2457	0177.1	087.8	48.85
113.0	004.1097	0136.4	029.7	315.6	023.4318	0177.0	087.3	49.03
114.0	004.3014	0136.5	030.0	315.3	023.6302	0176.9	086.8	49.22
115.0	004.4975	0136.5	030.4	315.1	023.8397	0176.9	086.3	49.40
116.0	004.6979	0136.5	030.7	314.8	024.0601	0176.8	085.8	49.58
117.0	004.9028	0136.6	031.0	314.5	024.2910	0176.7	085.4	49.76
118.0	005.1120	0136.7	031.3	314.3	024.5318	0176.7	084.9	49.95
119.0	005.3255	0136.8	031.6	313.9	024.7842	0176.6	084.5	50.13
120.0	005.5435	0136.9	032.0	313.6	025.0482	0176.6	084.0	50.31
121.0	005.8262	0137.0	032.4	313.3	025.3147	0176.6	083.5	50.52
122.0	006.1159	0137.0	032.8	313.0	025.5963	0176.6	083.0	50.72
123.0	006.4127	0137.0	033.1	312.6	025.8929	0176.6	082.5	50.92
124.0	006.7165	0137.0	033.5	312.3	026.2044	0176.6	082.1	51.11
125.0	007.0273	0137.0	033.9	311.9	026.5303	0176.6	081.7	51.30
126.0	007.3452	0137.0	034.2	311.5	026.8704	0176.7	081.2	51.49
127.0	007.6701	0137.1	034.6	311.1	027.2245	0176.7	080.8	51.67
128.0	008.0020	0137.1	034.9	310.7	027.5926	0176.8	080.5	51.85
129.0	008.3409	0137.1	035.3	310.2	027.9743	0176.8	080.1	52.03
130.0	008.6869	0137.1	035.6	309.8	028.4031	0176.9	079.8	52.20
131.0	009.0811	0136.9	035.9	309.4	028.8902	0176.9	079.5	52.37
132.0	009.4840	0136.6	036.2	308.9	029.3939	0177.0	079.2	52.54
133.0	009.8957	0136.4	036.5	308.4	029.9133	0177.0	078.9	52.70
134.0	010.3161	0136.2	036.9	307.9	030.4484	0177.1	078.7	52.86
135.0	010.7453	0136.0	037.2	307.4	030.9986	0177.1	078.5	53.01
136.0	011.1832	0135.8	037.5	306.9	031.5632	0177.1	078.3	53.15
137.0	011.6299	0135.8	037.8	306.4	032.1445	0177.1	078.1	53.29
138.0	012.0853	0135.8	038.1	305.9	032.7418	0177.1	077.9	53.43
139.0	012.5495	0135.8	038.4	305.3	033.3518	0177.2	077.8	53.55
140.0	013.0224	0135.7	038.7	304.8	033.9721	0177.1	077.7	53.67
141.0	013.0677	0135.7	038.7	304.3	034.5373	0177.1	077.8	53.68
142.0	013.1131	0135.9	038.8	303.8	035.1111	0177.1	078.0	53.70
143.0	013.1585	0136.2	038.8	303.4	035.6893	0177.0	078.2	53.72
144.0	013.2041	0136.5	038.9	302.9	036.2657	0176.9	078.3	53.73
145.0	013.2497	0136.7	038.9	302.4	036.8393	0176.8	078.5	53.73
146.0	013.2954	0136.9	039.0	301.9	037.4118	0176.7	078.8	53.72
147.0	013.3411	0137.1	039.0	301.5	037.9812	0176.6	079.0	53.70
148.0	013.3870	0137.3	039.1	301.0	038.5487	0176.4	079.3	53.67
149.0	013.4329	0137.5	039.2	300.6	039.1155	0176.3	079.5	53.64
150.0	013.4789	0137.8	039.2	300.1	039.6773	0176.1	079.8	53.60
151.0	014.0329	0137.9	039.6	299.6	040.4801	0175.9	079.9	53.66
152.0	014.5980	0138.0	039.9	299.0	041.3145	0175.7	080.0	53.71
153.0	015.1742	0138.1	040.2	298.5	042.1627	0175.5	080.1	53.76
154.0	015.7616	0138.2	040.5	297.9	043.0110	0175.4	080.3	53.79
155.0	016.3602	0138.0	040.8	297.4	043.8345	0175.3	080.5	53.81
156.0	016.9699	0137.4	041.1	296.9	044.6227	0175.2	080.7	53.80
157.0	017.5908	0136.7	041.3	296.4	045.3972	0175.2	081.0	53.77
158.0	018.2228	0136.1	041.5	295.9	046.1702	0175.2	081.4	53.74
159.0	018.8660	0135.5	041.7	295.4	046.9443	0175.2	081.7	53.71

**Educational Media Foundation**  
 5700 West Oaks Boulevard  
 Rocklin, CA 95765

*Exhibit 18-A1*  
*North Myrtle Beach, SC*

160.0	019.5203	0135.1	041.9	295.0	047.7181	0175.2	082.1	53.67
161.0	020.4892	0134.7	042.3	294.4	048.6039	0175.1	082.3	53.66
162.0	021.4815	0134.6	042.7	293.9	049.5063	0175.1	082.6	53.64
163.0	022.4973	0134.7	043.1	293.3	050.4347	0175.1	082.9	53.63
164.0	023.5365	0135.2	043.5	292.8	051.3930	0175.1	083.3	53.61
165.0	024.5993	0135.8	044.0	292.2	052.3692	0175.1	083.6	53.59
166.0	025.6854	0136.4	044.4	291.7	053.3395	0175.1	083.9	53.56
167.0	026.7951	0136.8	044.8	291.1	054.2831	0175.1	084.3	53.51
168.0	027.9282	0137.2	045.2	290.6	055.2042	0175.1	084.8	53.45
169.0	029.0848	0137.7	045.7	290.1	056.1307	0175.1	085.2	53.38
170.0	030.2648	0138.4	046.1	289.5	057.2149	0175.1	085.7	53.31
171.0	030.4847	0139.0	046.2	289.2	057.9499	0175.1	086.4	53.17
172.0	030.7055	0139.5	046.4	288.9	058.6383	0175.0	087.0	53.02
173.0	030.9270	0139.6	046.5	288.6	059.2476	0175.0	087.7	52.85
174.0	031.1493	0139.8	046.5	288.3	059.8255	0175.0	088.4	52.68
175.0	031.3725	0140.0	046.6	288.1	060.3974	0175.0	089.1	52.50
176.0	031.5964	0140.2	046.7	287.8	060.9497	0175.0	089.8	52.33
177.0	031.8211	0140.4	046.8	287.6	061.4760	0175.0	090.6	52.14
178.0	032.0466	0141.0	047.0	287.3	062.0377	0175.0	091.3	51.97
179.0	032.2729	0141.8	047.1	287.1	062.6297	0175.0	092.0	51.79
180.0	032.5000	0142.6	047.3	286.8	063.1984	0174.9	092.8	51.61
181.0	032.2729	0143.3	047.4	286.7	063.5519	0174.9	093.5	51.41
182.0	032.0466	0143.3	047.3	286.6	063.7576	0174.9	094.4	51.19
183.0	031.8211	0143.2	047.2	286.5	063.9149	0174.9	095.2	50.96
184.0	031.5964	0143.1	047.1	286.4	064.0479	0174.9	096.0	50.74
185.0	031.3725	0143.1	047.1	286.4	064.1717	0174.9	096.8	50.51
186.0	031.1493	0142.9	047.0	286.3	064.2480	0174.9	097.6	50.29
187.0	030.9270	0142.7	046.9	286.3	064.3039	0174.9	098.5	50.06
188.0	030.7055	0142.5	046.8	286.3	064.3396	0174.9	099.3	49.84
189.0	030.4847	0142.4	046.7	286.3	064.3709	0174.9	100.1	49.62