

RoadMap Ministries
Move WUNT to 408' AG

REFERENCE CH# 204B1 - 88.7 MHz, Pwr= 8.5 kw DA, HAAT= 127.0 M, COR= 330.8 M DISPLAY DATES
41 36 33.3 N. Average Protected F(50-50)= 34.22 km DATA 11-10-11
89 40 18.6 W. Standard Directional SEARCH 11-10-11

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*
204B1 Sheffield		CP DVX IL	0.0 0.0	0.0 BNPED20071018AYO	41 36 33.3 89 40 18.6	11.000 105	78.0 306	25.2 Road Map Ministries	-103.4*	-101.8*
203C3 Davenport		LIC DEX IA	269.3 88.6	83.7 BLED20090921AAX	41 35 43.8 90 40 43.7	10.000 99	47.9 317	30.8 St. Ambrose College	0.9	0.1
205B1 Ottawa		LIC _E_ IL	119.5 300.0	69.0 BLED20051122AAT	41 18 05.0 88 57 11.0	4.100 148	49.2 332	32.8 Family worship Center Chur	0.2	7.3
204B Madison		LIC DCN WI	4.0 184.0	161.2 BLED19951026KA	43 03 21.0 89 32 06.0	20.500 385	135.4 686	57.0 State Of Wisconsin - Educa	0.5	27.9
203A Lee	NONE	CP DVX IL	76.4 256.9	62.0 BNPED20071022BIA	41 44 18.0 88 56 45.0	4.000 90	29.3 347	19.5 American Education Foundat	5.6	1.5
207C1 East Moline		LIC _CN IL	264.4 83.9	67.1 BLED19791219AA	41 32 52.0 90 28 30.0	100.000 152	7.3 354	59.5 The Moody Bible Institute	25.0	4.4
202A Princeton		LIC _VX IL	169.0 349.0	37.1 BLED20050826AAS	41 16 53.0 89 35 12.0	0.150 96	0.9 310	11.8 Illinois Bible Institute I	5.4	22.6
204A Sugar Grove		LIC DCX IL	83.7 264.5	103.4 BLED20080410ABW	41 42 16.0 88 26 02.0	0.600 103	54.7 306	16.4 Educational Media Foundati	22.5	9.7
203B Pekin		LIC DCX IL	174.8 354.9	107.3 BLED20060906AAM	40 38 53.0 89 33 26.0	48.000 154	60.7 339	41.3 Central Illinois Radio Fel	12.6	16.0
201A Geneseo		LIC _VX IL	254.0 73.6	51.9 BLED20020215AAE	41 28 47.0 90 16 08.0	3.000 98	2.3 294	24.8 American Family Associatio	14.5	23.3
257B1 La Salle	WJJK«	LIC _CN IL	123.4 303.6	39.6 BLH19891026KC	41 24 47.0 89 16 34.0	11.000 149	2.0 352	12.5 La Salle County Broadcasti	13.5R	26.1M
201A Spring Valley	WSOG	LIC DVX IL	128.0 308.3	57.2 BLED20021114ACF	41 17 32.0 89 07 59.0	4.000 80	1.6 268	16.9 Spirit Education Associati	35.1	36.9
205C2 Wapello	KAIP	LIC _EX IA	245.4 64.5	138.5 BLED20050916ABU	41 04 59.0 91 10 18.0	13.500 151	66.0 356	44.7 Educational Media Foundati	37.5	40.5
203A Dubuque	KIAD	LIC DVX IA	320.3 139.7	115.5 BLED20060424ADO	42 24 16.0 90 34 12.0	0.750 158	31.0 435	20.9 American Family Associatio	48.9	40.7

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= - Zone 1, Co to 3rd adjacent.
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.

HOW TO READ THE FM COMPUTER PRINT-OUT

Full Service Stations

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. Contour distances are in kilometers and are predicted using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

The column listed "IN " is the difference in kilometers between of the reference station's protected contour and the data file station's interference contour at the closest point between the contours. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, "IN" column is a measure of incoming interference. Negative distances in this column indicate the presence of contour overlap. Listed antenna heights and power are those given in the FCC database. The column labeled "OUT " shows the greatest distance in kilometers of overlap or smallest of clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing contour overlap.

Under the "AZI" column, the first row of numbers indicate the True North bearings from the reference station toward the database stations, while the numbers in the second row indicate the reverse bearings from the database stations to the reference station.

The columns labeled "INT" and "PRO" contain the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships, some channel-six TV relationships and relationships with commercial channel stations providing clearance the minimum spacings values the "IN" and "OUT" columns can change their significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column follows the **available clear space** (or lack of it) in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

The call letters of stations meeting the minimum separation distances under the rules will be flagged by the characters "<<" appended to the right-hand side of the call sign. The "A" character appended to the call sign means the station has been "max-classed" according to the provisions of section 73.525 of the Rules.

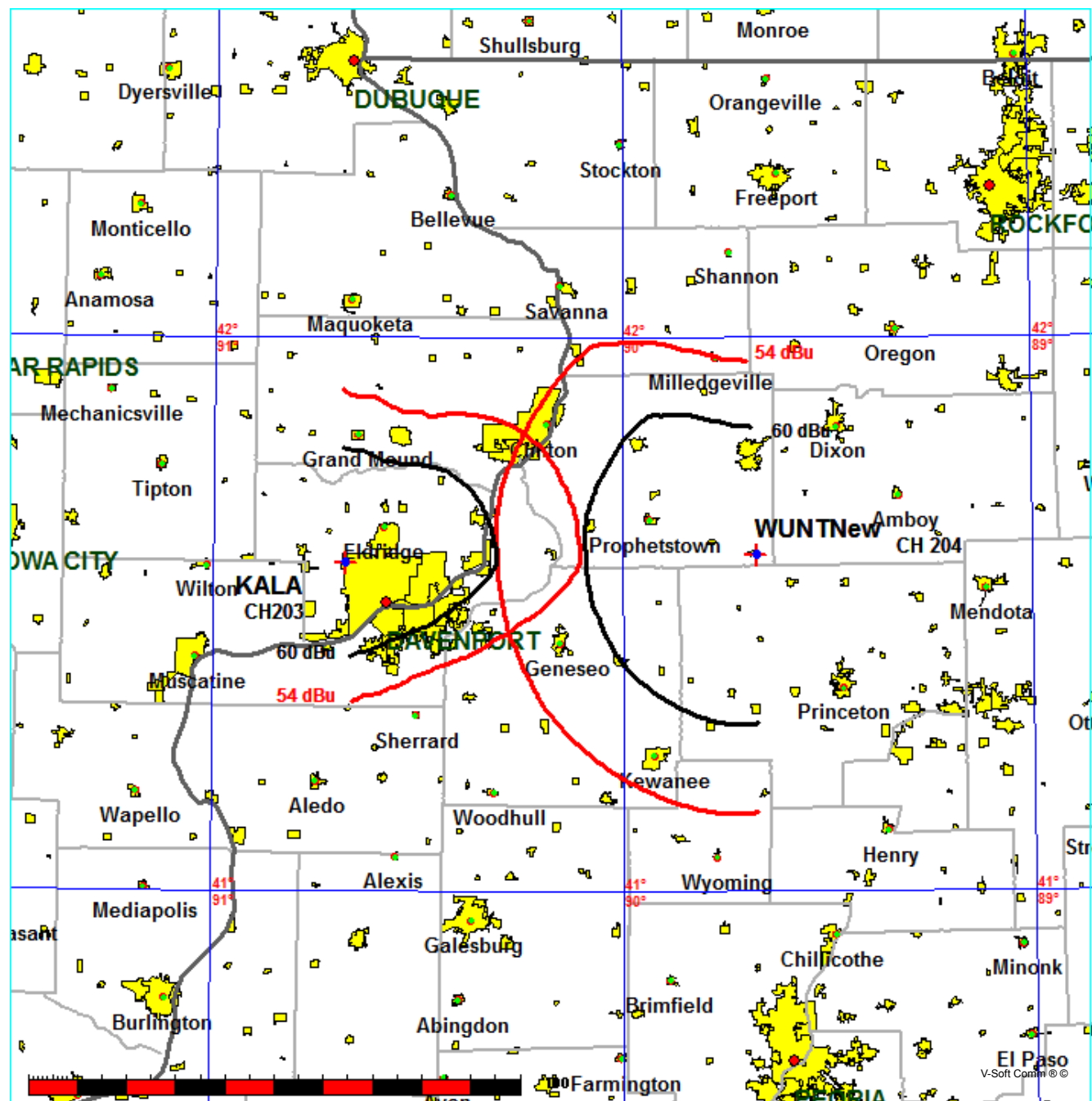
The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates with an omni-directional antenna. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a "Y" if the antenna uses beam tilt or an "X" if the commission is not sure, otherwise it will be an "N" or left blank.

WUNTNew vs. KALA
RoadMap Ministries

FMCommander Single Allocation Study - 11-10-2011 - FCC NGDC 30 Sec
WUNTNew's Overlaps (In= 0.88 km, Out= 0.15 km)

WUNTNew CH 204 B1 DA
Lat= 41 36 33.3, Lng= 89 40 18.6
8.5 kW 127 M HAAT, 330.8 M COR
Prot.= 60 dBu, Intef.= 54 dBu

KALA CH 203 C3 DA BLED20090921AAX
Lat= 41 35 43.8, Lng= 90 40 43.7
10.0 kW 98.5 M HAAT, 317 M COR
Prot.= 60 dBu, Intef.= 54 dBu



11-10-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WUNTNW

KALA BLED20090921AAX

Channel = 204B1

Max ERP = 8.5 kW

RCAMSL = 330.8 M

N. Lat. 41 36 33.3

W. Lng. 89 40 18.6

Protected

60 dBu

Channel = 203C3

Max ERP = 10 kW

RCAMSL = 317 M

N. Lat. 41 35 43.8

W. Lng. 90 40 43.7

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
209.0	008.5000	0131.2	034.7	/	113.0	002.1941	0115.5	073.0	40.29	
210.0	008.5000	0131.3	034.7	/	113.0	002.1988	0115.5	072.5	40.47	
211.0	008.5000	0131.5	034.7	/	112.9	002.2029	0115.5	071.8	40.66	
212.0	008.5000	0131.8	034.8	/	112.9	002.2064	0115.5	071.2	40.85	
213.0	008.5000	0132.2	034.8	/	112.8	002.2111	0115.5	070.6	41.05	
214.0	008.5000	0132.2	034.8	/	112.7	002.2198	0115.5	070.0	41.24	
215.0	008.5000	0132.0	034.8	/	112.6	002.2311	0115.5	069.4	41.45	
216.0	008.5000	0132.1	034.8	/	112.5	002.2412	0115.5	068.8	41.65	
217.0	008.5000	0132.4	034.8	/	112.4	002.2504	0115.5	068.3	41.85	
218.0	008.5000	0132.4	034.8	/	112.3	002.2630	0115.5	067.7	42.05	
219.0	008.5000	0132.1	034.8	/	112.1	002.2795	0115.4	067.1	42.26	
220.0	008.5000	0132.0	034.8	/	112.0	002.2961	0115.3	066.5	42.47	
221.0	008.5000	0132.2	034.8	/	111.8	002.3108	0115.1	065.9	42.67	
222.0	008.5000	0132.5	034.9	/	111.7	002.3250	0115.0	065.3	42.88	
223.0	008.5000	0132.9	034.9	/	111.5	002.3404	0114.8	064.7	43.08	
224.0	008.5000	0133.2	034.9	/	111.4	002.3575	0114.7	064.2	43.29	
225.0	008.5000	0133.5	035.0	/	111.2	002.3761	0114.5	063.6	43.50	
226.0	008.5000	0133.9	035.0	/	111.0	002.3953	0114.3	063.0	43.71	
227.0	008.5000	0134.3	035.1	/	110.8	002.4157	0114.0	062.4	43.93	
228.0	008.5000	0134.6	035.1	/	110.6	002.4389	0113.8	061.9	44.15	
229.0	008.5000	0134.7	035.1	/	110.3	002.4656	0113.4	061.3	44.37	
230.0	008.5000	0134.6	035.1	/	110.0	002.4957	0113.1	060.8	44.58	
231.0	008.5000	0134.4	035.1	/	109.7	002.5543	0112.6	060.3	44.84	
232.0	008.5000	0134.4	035.1	/	109.4	002.6170	0112.2	059.8	45.11	
233.0	008.5000	0134.5	035.1	/	109.1	002.6794	0111.9	059.2	45.39	
234.0	008.5000	0134.9	035.1	/	108.8	002.7417	0111.6	058.7	45.66	
235.0	008.5000	0135.1	035.2	/	108.5	002.8112	0111.4	058.2	45.95	
236.0	008.5000	0135.0	035.2	/	108.1	002.8907	0111.2	057.7	46.24	
237.0	008.5000	0134.6	035.1	/	107.7	002.9801	0111.0	057.2	46.53	
238.0	008.5000	0134.1	035.0	/	107.3	003.0770	0110.8	056.8	46.82	
239.0	008.5000	0133.7	035.0	/	106.8	003.1771	0110.7	056.4	47.11	
240.0	008.5000	0133.3	035.0	/	106.4	003.2791	0110.5	056.0	47.40	
241.0	008.5000	0133.1	034.9	/	105.9	003.3834	0110.4	055.5	47.69	
242.0	008.5000	0133.1	034.9	/	105.5	003.4905	0110.2	055.1	47.98	
243.0	008.5000	0133.0	034.9	/	105.0	003.6016	0110.0	054.7	48.26	
244.0	008.5000	0133.0	034.9	/	104.5	003.7186	0109.7	054.3	48.54	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
245.0	008.5000	0132.8	034.9	/	104.0	003.8446	0109.5	053.9	48.81
246.0	008.5000	0132.4	034.8	/	103.5	003.9783	0109.1	053.6	49.07
247.0	008.5000	0132.1	034.8	/	102.9	004.1173	0108.7	053.2	49.33
248.0	008.5000	0132.1	034.8	/	102.4	004.2553	0108.3	052.9	49.58
249.0	008.5000	0132.5	034.9	/	101.9	004.3916	0108.0	052.5	49.85
250.0	008.5000	0133.2	034.9	/	101.3	004.5299	0107.8	052.1	50.12
251.0	008.5000	0133.8	035.0	/	100.8	004.6746	0107.6	051.7	50.39
252.0	008.5000	0134.1	035.1	/	100.2	004.8326	0107.4	051.4	50.65
253.0	008.5000	0134.2	035.1	/	099.6	005.0018	0107.2	051.1	50.90
254.0	008.5000	0134.0	035.0	/	099.0	005.1806	0107.1	050.8	51.14
255.0	008.5000	0133.9	035.0	/	098.4	005.3648	0107.0	050.6	51.38
256.0	008.5000	0133.7	035.0	/	097.7	005.5562	0106.9	050.4	51.62
257.0	008.5000	0133.5	035.0	/	097.1	005.7556	0107.0	050.2	51.85
258.0	008.5000	0133.2	034.9	/	096.4	005.9606	0107.0	050.0	52.07
259.0	008.5000	0133.2	034.9	/	095.7	006.1681	0106.9	049.8	52.29
260.0	008.5000	0133.4	035.0	/	095.1	006.3793	0106.9	049.6	52.50
261.0	008.5000	0133.5	035.0	/	094.4	006.5989	0106.6	049.5	52.70
262.0	008.5000	0133.5	035.0	/	093.7	006.8251	0106.4	049.3	52.88
263.0	008.5000	0133.4	035.0	/	093.0	007.0585	0106.2	049.2	53.05
264.0	008.5000	0133.6	035.0	/	092.3	007.2951	0106.0	049.1	53.23
265.0	008.5000	0133.8	035.0	/	091.6	007.5375	0105.4	049.0	53.37
266.0	008.5000	0134.0	035.0	/	090.9	007.7861	0104.6	048.9	53.49
267.0	008.5000	0133.6	035.0	/	090.2	008.0417	0103.8	048.9	53.57
268.0	008.5000	0133.2	034.9	/	089.4	008.2004	0103.0	048.9	53.59
269.0	008.5000	0132.7	034.9	/	088.7	008.3304	0102.2	048.9	53.58
270.0	008.5000	0132.7	034.9	/	088.0	008.4612	0101.3	049.0	53.59
271.0	008.5000	0133.6	035.0	/	087.3	008.5941	0100.4	048.9	53.62
272.0	008.5000	0134.5	035.1	/	086.6	008.7292	0099.7	048.8	53.65
273.0	008.5000	0135.4	035.2	/	085.8	008.8662	0098.8	048.8	53.67
274.0	008.5000	0135.9	035.3	/	085.1	009.0034	0097.8	048.8	53.65
275.0	008.5000	0136.7	035.4	/	084.4	009.1430	0096.6	048.8	53.62
276.0	008.5000	0137.7	035.5	/	083.6	009.2848	0095.6	048.8	53.60
277.0	008.5000	0138.5	035.6	/	082.9	009.4268	0094.6	048.8	53.58
278.0	008.5000	0138.7	035.6	/	082.2	009.5661	0093.7	049.0	53.52
279.0	008.5000	0138.5	035.6	/	081.5	009.7014	0092.9	049.2	53.44
280.0	008.5000	0138.2	035.5	/	080.8	009.8347	0092.3	049.4	53.37
281.0	008.5000	0138.4	035.6	/	080.1	009.9713	0092.0	049.6	53.33
282.0	008.5000	0138.9	035.6	/	079.5	010.0000	0091.7	049.7	53.26
283.0	008.5000	0139.2	035.6	/	078.8	010.0000	0091.5	050.0	53.17
284.0	008.5000	0139.2	035.6	/	078.1	010.0000	0091.5	050.2	53.07
285.0	008.5000	0138.7	035.6	/	077.5	010.0000	0091.4	050.5	52.95
286.0	008.5000	0138.2	035.5	/	076.9	010.0000	0091.2	050.9	52.81
287.0	008.5000	0137.8	035.5	/	076.3	010.0000	0091.0	051.2	52.66
288.0	008.5000	0137.5	035.4	/	075.8	010.0000	0090.7	051.6	52.51
289.0	008.5000	0137.2	035.4	/	075.2	010.0000	0090.4	051.9	52.35
290.0	008.5000	0137.0	035.4	/	074.7	010.0000	0090.1	052.3	52.19
291.0	008.5000	0137.1	035.4	/	074.1	010.0000	0089.9	052.6	52.04
292.0	008.5000	0137.2	035.4	/	073.6	010.0000	0089.8	053.0	51.90
293.0	008.5000	0137.1	035.4	/	073.1	010.0000	0089.7	053.4	51.75
294.0	008.5000	0136.7	035.3	/	072.6	010.0000	0089.5	053.8	51.58
295.0	008.5000	0136.3	035.3	/	072.1	010.0000	0089.4	054.3	51.40

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
296.0	008.5000	0136.0	035.3	/	071.7	010.0000	0089.3	054.7	51.23
297.0	008.5000	0136.0	035.3	/	071.2	010.0000	0089.1	055.2	51.06
298.0	008.5000	0136.0	035.3	/	070.8	010.0000	0088.9	055.6	50.89
299.0	008.5000	0136.1	035.3	/	070.3	010.0000	0088.8	056.0	50.72
300.0	008.5000	0136.2	035.3	/	069.9	010.0000	0088.6	056.5	50.54
301.0	008.5000	0136.3	035.3	/	069.5	010.0000	0088.6	057.0	50.37
302.0	008.5000	0136.3	035.3	/	069.1	010.0000	0088.5	057.4	50.19
303.0	008.5000	0136.3	035.3	/	068.8	010.0000	0088.5	057.9	50.02
304.0	008.5000	0136.2	035.3	/	068.4	010.0000	0088.5	058.4	49.84
305.0	008.5000	0136.2	035.3	/	068.1	010.0000	0088.5	058.9	49.66
306.0	008.5000	0136.3	035.3	/	067.7	010.0000	0088.4	059.5	49.48
307.0	008.5000	0136.6	035.3	/	067.4	010.0000	0088.3	060.0	49.30
308.0	008.5000	0137.0	035.4	/	067.1	010.0000	0088.2	060.5	49.13
309.0	008.5000	0137.6	035.5	/	066.7	010.0000	0088.1	061.0	48.95
310.0	008.5000	0138.0	035.5	/	066.4	010.0000	0087.9	061.5	48.77
311.0	008.5000	0138.4	035.5	/	066.1	010.0000	0087.8	062.0	48.58
312.0	008.5000	0138.3	035.5	/	065.9	010.0000	0087.6	062.6	48.39
313.0	008.5000	0138.0	035.5	/	065.7	010.0000	0087.5	063.2	48.20
314.0	008.5000	0137.6	035.5	/	065.5	010.0000	0087.4	063.8	48.02
315.0	008.5000	0137.4	035.4	/	065.3	010.0000	0087.3	064.3	47.84
316.0	008.5000	0137.3	035.4	/	065.2	010.0000	0087.1	064.9	47.66
317.0	008.5000	0137.3	035.4	/	065.0	010.0000	0087.0	065.5	47.48
318.0	008.5000	0137.4	035.4	/	064.8	010.0000	0086.9	066.1	47.30
319.0	008.5000	0137.5	035.4	/	064.6	010.0000	0086.8	066.7	47.13
320.0	008.5000	0137.5	035.4	/	064.5	010.0000	0086.7	067.3	46.95
321.0	008.5000	0137.3	035.4	/	064.4	010.0000	0086.6	067.9	46.77
322.0	008.4052	0136.9	035.3	/	064.4	010.0000	0086.6	068.5	46.59
323.0	008.0269	0136.3	034.9	/	064.6	010.0000	0086.8	069.2	46.40
324.0	007.6657	0135.7	034.4	/	064.9	010.0000	0086.9	069.9	46.22
325.0	007.3207	0135.0	034.0	/	065.1	010.0000	0087.1	070.5	46.04
326.0	006.9912	0134.9	033.6	/	065.4	010.0000	0087.3	071.2	45.87
327.0	006.6765	0135.4	033.3	/	065.5	010.0000	0087.4	071.8	45.70
328.0	006.3760	0136.4	033.0	/	065.6	010.0000	0087.5	072.4	45.53

11-10-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

KALA BLED20090921AAX

WUNTNew

Channel = 203C3

Max ERP = 10 kW

RCAMSL = 317 M

N. Lat. 41 35 43.8

W. Lng. 90 40 43.7

Protected

60 dBu

Channel = 204B1

Max ERP = 8.5 kW

RCAMSL = 330.8 M

N. Lat. 41 36 33.3

W. Lng. 89 40 18.6

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
029.0	002.9485	0087.1	022.6	/	284.4	008.5000	0139.0	075.0	46.76	
030.0	003.0250	0085.8	022.5	/	284.3	008.5000	0139.1	074.6	46.88	
031.0	003.2149	0085.0	022.8	/	284.3	008.5000	0139.0	074.1	47.01	
032.0	003.4106	0084.7	023.0	/	284.4	008.5000	0139.0	073.7	47.15	
033.0	003.6120	0084.5	023.3	/	284.5	008.5000	0138.9	073.2	47.30	
034.0	003.8192	0084.5	023.6	/	284.7	008.5000	0138.9	072.7	47.44	
035.0	004.0322	0084.8	023.9	/	284.8	008.5000	0138.8	072.2	47.60	
036.0	004.2510	0085.4	024.3	/	284.9	008.5000	0138.7	071.7	47.76	
037.0	004.4756	0085.5	024.6	/	285.0	008.5000	0138.7	071.2	47.91	
038.0	004.7060	0085.1	024.8	/	285.1	008.5000	0138.7	070.7	48.07	
039.0	004.9421	0084.6	025.0	/	285.1	008.5000	0138.7	070.2	48.22	
040.0	005.1840	0084.1	025.2	/	285.1	008.5000	0138.7	069.7	48.37	
041.0	005.4464	0083.9	025.5	/	285.1	008.5000	0138.6	069.2	48.53	
042.0	005.7154	0083.7	025.7	/	285.1	008.5000	0138.6	068.7	48.69	
043.0	005.9908	0083.5	026.0	/	285.1	008.5000	0138.6	068.2	48.85	
044.0	006.2726	0083.4	026.2	/	285.1	008.5000	0138.6	067.7	49.02	
045.0	006.5610	0083.3	026.5	/	285.1	008.5000	0138.6	067.2	49.19	
046.0	006.8558	0083.3	026.7	/	285.1	008.5000	0138.6	066.6	49.36	
047.0	007.1572	0083.4	027.0	/	285.1	008.5000	0138.7	066.1	49.54	
048.0	007.4650	0083.5	027.3	/	285.1	008.5000	0138.7	065.6	49.71	
049.0	007.7792	0083.5	027.5	/	285.0	008.5000	0138.7	065.0	49.89	
050.0	008.1000	0083.4	027.8	/	284.9	008.5000	0138.7	064.5	50.07	
051.0	008.2810	0083.3	027.9	/	284.8	008.5000	0138.8	064.0	50.22	
052.0	008.4640	0083.4	028.1	/	284.6	008.5000	0138.9	063.6	50.39	
053.0	008.6490	0083.5	028.2	/	284.4	008.5000	0139.0	063.1	50.55	
054.0	008.8360	0083.6	028.4	/	284.3	008.5000	0139.1	062.6	50.72	
055.0	009.0250	0083.6	028.5	/	284.0	008.5000	0139.2	062.1	50.88	
056.0	009.2160	0083.7	028.6	/	283.8	008.5000	0139.2	061.7	51.05	
057.0	009.4090	0083.9	028.8	/	283.6	008.5000	0139.2	061.2	51.22	
058.0	009.6040	0084.2	029.0	/	283.4	008.5000	0139.3	060.7	51.40	
059.0	009.8010	0084.5	029.2	/	283.2	008.5000	0139.2	060.2	51.57	
060.0	010.0000	0084.8	029.4	/	283.0	008.5000	0139.2	059.7	51.74	
061.0	010.0000	0085.0	029.4	/	282.6	008.5000	0139.1	059.4	51.87	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
062.0	010.0000	0085.4	029.5		282.3	008.5000	0139.0	059.0	52.00
063.0	010.0000	0085.9	029.5		281.9	008.5000	0138.9	058.6	52.14
064.0	010.0000	0086.4	029.6		281.6	008.5000	0138.7	058.2	52.27
065.0	010.0000	0087.0	029.7		281.2	008.5000	0138.5	057.8	52.40
066.0	010.0000	0087.7	029.8		280.9	008.5000	0138.4	057.4	52.54
067.0	010.0000	0088.2	029.9		280.5	008.5000	0138.3	057.1	52.67
068.0	010.0000	0088.4	030.0		280.1	008.5000	0138.2	056.8	52.78
069.0	010.0000	0088.5	030.0		279.6	008.5000	0138.3	056.5	52.89
070.0	010.0000	0088.7	030.0		279.2	008.5000	0138.5	056.2	53.00
071.0	010.0000	0089.0	030.1		278.7	008.5000	0138.6	055.9	53.13
072.0	010.0000	0089.4	030.1		278.3	008.5000	0138.7	055.6	53.24
073.0	010.0000	0089.7	030.2		277.8	008.5000	0138.7	055.4	53.34
074.0	010.0000	0089.9	030.2		277.3	008.5000	0138.6	055.1	53.43
075.0	010.0000	0090.3	030.3		276.8	008.5000	0138.4	054.9	53.51
076.0	010.0000	0090.8	030.4		276.3	008.5000	0138.0	054.6	53.60
077.0	010.0000	0091.3	030.4		275.8	008.5000	0137.5	054.4	53.66
078.0	010.0000	0091.5	030.5		275.3	008.5000	0137.0	054.2	53.71
079.0	010.0000	0091.5	030.5		274.8	008.5000	0136.5	054.0	53.74
080.0	010.0000	0091.9	030.5		274.2	008.5000	0136.1	053.8	53.79
081.0	009.8010	0092.5	030.5		273.7	008.5000	0135.8	053.8	53.80
082.0	009.6040	0093.5	030.5		273.1	008.5000	0135.5	053.6	53.84
083.0	009.4090	0094.8	030.6		272.6	008.5000	0135.1	053.5	53.87
084.0	009.2160	0096.1	030.6		272.0	008.5000	0134.5	053.4	53.89
085.0	009.0250	0097.6	030.7		271.5	008.5000	0134.0	053.2	53.92
086.0	008.8360	0099.0	030.8		270.9	008.5000	0133.5	053.1	53.94
087.0	008.6490	0100.1	030.8		270.3	008.5000	0133.0	053.0	53.93
088.0	008.4640	0101.3	030.8		269.7	008.5000	0132.5	053.0	53.92
089.0	008.2810	0102.5	030.8		269.1	008.5000	0132.6	053.0	53.93
090.0	008.1000	0103.6	030.8		268.6	008.5000	0132.9	053.0	53.94
091.0	007.7440	0104.7	030.7		268.0	008.5000	0133.2	053.2	53.88
092.0	007.3960	0105.7	030.5		267.4	008.5000	0133.4	053.4	53.81
093.0	007.0560	0106.2	030.2		266.9	008.5000	0133.7	053.7	53.70
094.0	006.7240	0106.5	029.9		266.4	008.5000	0133.9	054.1	53.57
095.0	006.4000	0106.8	029.6		265.9	008.5000	0134.0	054.5	53.43
096.0	006.0840	0107.0	029.3		265.4	008.5000	0133.9	054.9	53.27
097.0	005.7760	0107.0	028.9		265.0	008.5000	0133.8	055.3	53.10
098.0	005.4760	0107.0	028.6		264.5	008.5000	0133.7	055.8	52.92
099.0	005.1840	0107.0	028.3		264.1	008.5000	0133.6	056.2	52.74
100.0	004.9000	0107.3	027.9		263.8	008.5000	0133.6	056.7	52.57
101.0	004.6240	0107.6	027.6		263.4	008.5000	0133.5	057.1	52.39
102.0	004.3560	0108.1	027.3		263.0	008.5000	0133.4	057.6	52.22
103.0	004.0960	0108.8	027.0		262.7	008.5000	0133.4	058.0	52.06
104.0	003.8440	0109.5	026.7		262.4	008.5000	0133.5	058.5	51.89
105.0	003.6000	0110.0	026.4		262.1	008.5000	0133.5	059.0	51.72
106.0	003.3640	0110.4	026.0		261.8	008.5000	0133.5	059.5	51.53
107.0	003.1360	0110.7	025.6		261.6	008.5000	0133.5	060.0	51.34
108.0	002.9160	0111.1	025.3		261.4	008.5000	0133.5	060.5	51.15
109.0	002.7040	0111.8	024.9		261.1	008.5000	0133.5	061.0	50.96
110.0	002.5000	0113.0	024.6		260.9	008.5000	0133.5	061.5	50.79
111.0	002.3961	0114.2	024.5		260.6	008.5000	0133.5	061.8	50.68
112.0	002.2944	0115.3	024.3		260.4	008.5000	0133.5	062.2	50.56

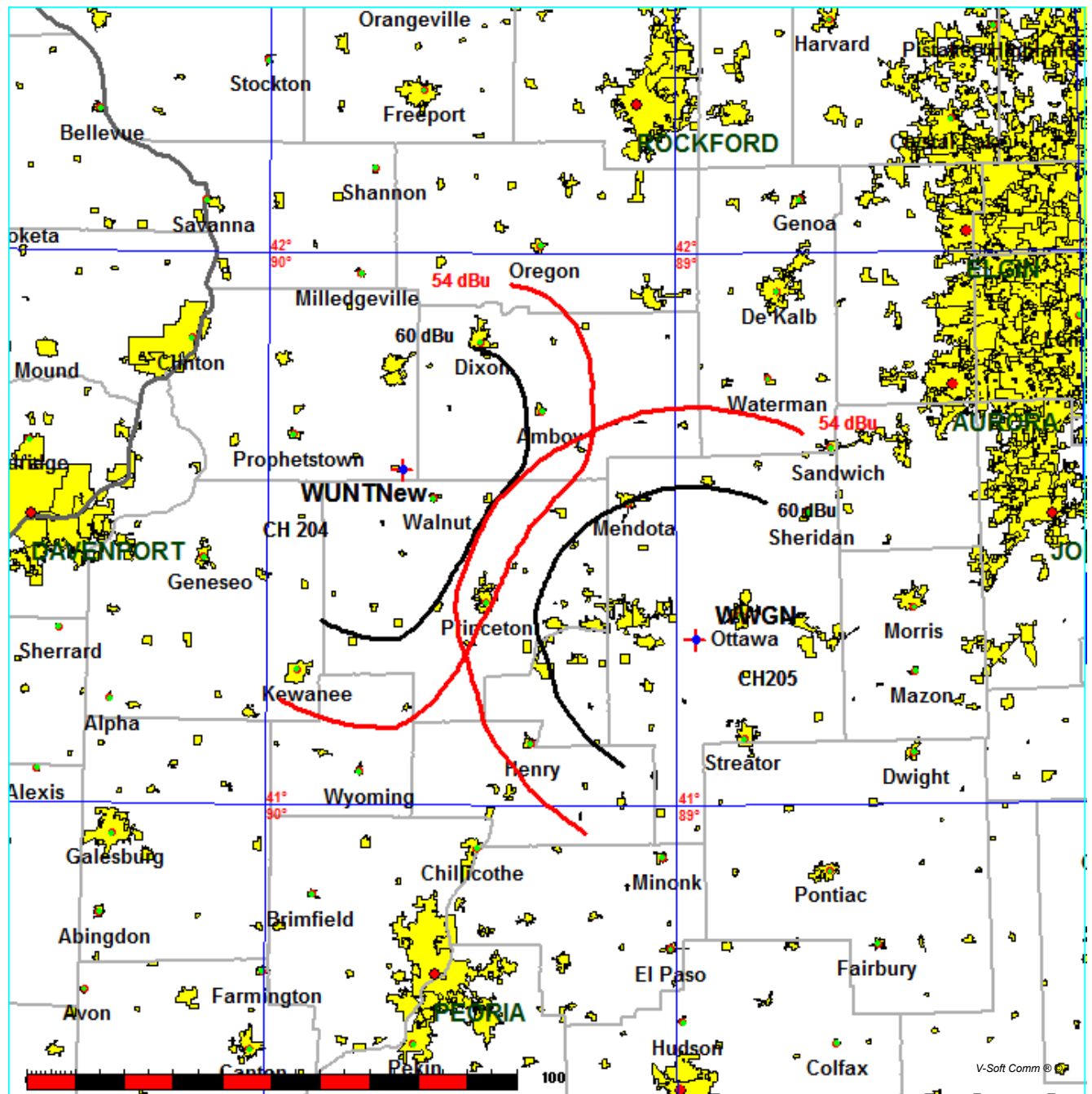
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
113.0	002.1949	0115.5	024.1	/	260.2	008.5000	0133.5	062.6	50.41
114.0	002.0976	0115.0	023.8	/	260.0	008.5000	0133.4	063.1	50.25
115.0	002.0026	0114.2	023.5	/	259.9	008.5000	0133.4	063.6	50.08
116.0	001.9097	0113.6	023.2	/	259.7	008.5000	0133.4	064.1	49.92
117.0	001.8190	0113.6	022.9	/	259.6	008.5000	0133.4	064.5	49.77
118.0	001.7306	0114.3	022.7	/	259.4	008.5000	0133.3	064.9	49.64
119.0	001.6443	0115.6	022.6	/	259.2	008.5000	0133.3	065.3	49.51
120.0	001.5603	0117.0	022.4	/	259.1	008.5000	0133.2	065.7	49.39
121.0	001.5016	0118.1	022.3	/	258.9	008.5000	0133.2	066.0	49.28
122.0	001.4440	0118.7	022.2	/	258.7	008.5000	0133.2	066.4	49.15
123.0	001.3876	0119.0	022.0	/	258.6	008.5000	0133.2	066.8	49.02
124.0	001.3323	0119.2	021.8	/	258.5	008.5000	0133.2	067.2	48.89
125.0	001.2781	0119.6	021.6	/	258.4	008.5000	0133.2	067.6	48.77
126.0	001.2250	0120.1	021.4	/	258.3	008.5000	0133.2	068.0	48.64
127.0	001.1731	0120.5	021.3	/	258.2	008.5000	0133.2	068.4	48.51
128.0	001.1223	0120.7	021.0	/	258.1	008.5000	0133.2	068.8	48.38
129.0	001.0726	0120.7	020.8	/	258.1	008.5000	0133.2	069.2	48.25
130.0	001.0240	0120.6	020.6	/	258.0	008.5000	0133.2	069.7	48.11
131.0	000.9922	0120.5	020.4	/	258.0	008.5000	0133.2	070.0	47.99
132.0	000.9610	0120.5	020.2	/	257.9	008.5000	0133.2	070.4	47.87
133.0	000.9303	0120.4	020.1	/	257.9	008.5000	0133.2	070.8	47.75
134.0	000.9000	0120.1	019.9	/	257.8	008.5000	0133.2	071.2	47.63
135.0	000.8703	0119.7	019.7	/	257.8	008.5000	0133.2	071.6	47.51
136.0	000.8410	0119.5	019.5	/	257.8	008.5000	0133.2	072.0	47.39
137.0	000.8122	0119.6	019.3	/	257.8	008.5000	0133.3	072.4	47.27
138.0	000.7840	0120.1	019.2	/	257.7	008.5000	0133.3	072.7	47.16
139.0	000.7563	0120.9	019.1	/	257.7	008.5000	0133.3	073.1	47.05
140.0	000.7290	0121.9	019.0	/	257.6	008.5000	0133.3	073.4	46.95
141.0	000.7102	0122.8	018.9	/	257.6	008.5000	0133.3	073.7	46.85
142.0	000.6917	0123.6	018.9	/	257.5	008.5000	0133.3	074.1	46.75
143.0	000.6734	0124.2	018.8	/	257.4	008.5000	0133.3	074.4	46.65
144.0	000.6554	0124.8	018.7	/	257.4	008.5000	0133.3	074.7	46.55
145.0	000.6376	0125.3	018.6	/	257.4	008.5000	0133.4	075.1	46.45
146.0	000.6200	0125.8	018.5	/	257.4	008.5000	0133.4	075.4	46.34
147.0	000.6027	0126.3	018.4	/	257.4	008.5000	0133.4	075.7	46.24
148.0	000.5856	0126.9	018.3	/	257.3	008.5000	0133.4	076.1	46.14

*WUNTNew vs. WWGN
RoadMap Ministries*

*FMCommander Single Allocation Study - 11-10-2011 - FCC NGDC 30 Sec
WUNTNew's Overlaps (In= 0.23 km, Out= 7.31 km)*

*WUNTNew CH 204 B1 DA
Lat= 41 36 33.3, Lng= 89 40 18.6
8.5 kW 127 M HAAT, 330.8 M COR
Prot.= 60 dBu, Intef.= 54 dBu*

*WWGN CH 205 B1 BLED20051122AAT
Lat= 41 18 05.0, Lng= 88 57 11.0
4.1 kW 148.4 M HAAT, 332.1 M COR
Prot.= 60 dBu, Intef.= 54 dBu*



11-10-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WUNTNW

WWGN BLED20051122AAT

Channel = 204B1

Max ERP = 8.5 kW

RCAMSL = 330.8 M

N. Lat. 41 36 33.3

W. Lng. 89 40 18.6

Protected

60 dBu

Channel = 205B1

Max ERP = 4.1 kW

RCAMSL = 332.1 M

N. Lat. 41 18 05.0

W. Lng. 88 57 11.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
060.0	004.3576	0124.0	028.9	/	324.5	004.1000	0151.7	059.9	49.18	
061.0	004.2271	0123.6	028.7	/	324.3	004.1000	0151.9	059.4	49.37	
062.0	004.0986	0123.5	028.5	/	324.0	004.1000	0152.1	058.9	49.55	
063.0	003.9721	0124.1	028.3	/	323.8	004.1000	0152.3	058.5	49.74	
064.0	003.8476	0125.0	028.2	/	323.6	004.1000	0152.5	058.0	49.92	
065.0	003.7251	0125.9	028.1	/	323.4	004.1000	0152.7	057.6	50.10	
066.0	003.6045	0126.5	028.0	/	323.1	004.1000	0152.9	057.1	50.27	
067.0	003.4860	0126.7	027.8	/	322.8	004.1000	0153.1	056.7	50.45	
068.0	003.3694	0126.8	027.6	/	322.5	004.1000	0153.4	056.3	50.62	
069.0	003.2548	0126.8	027.4	/	322.2	004.1000	0153.8	055.9	50.78	
070.0	003.1421	0126.7	027.1	/	321.8	004.1000	0154.1	055.5	50.95	
071.0	003.0897	0126.8	027.0	/	321.5	004.1000	0154.3	055.1	51.11	
072.0	003.0376	0126.8	026.9	/	321.3	004.1000	0154.5	054.7	51.28	
073.0	002.9860	0126.7	026.8	/	321.0	004.1000	0154.7	054.3	51.44	
074.0	002.9348	0126.7	026.7	/	320.7	004.1000	0155.0	053.9	51.61	
075.0	002.8841	0126.7	026.6	/	320.4	004.1000	0155.3	053.5	51.77	
076.0	002.8338	0126.7	026.5	/	320.1	004.1000	0155.5	053.1	51.92	
077.0	002.7840	0126.8	026.4	/	319.7	004.1000	0155.8	052.8	52.08	
078.0	002.7346	0126.8	026.3	/	319.4	004.1000	0156.1	052.4	52.23	
079.0	002.6856	0126.9	026.2	/	319.1	004.1000	0156.3	052.1	52.38	
080.0	002.6371	0127.0	026.1	/	318.7	004.1000	0156.5	051.7	52.52	
081.0	002.5741	0126.9	026.0	/	318.3	004.1000	0156.6	051.4	52.64	
082.0	002.5118	0126.7	025.8	/	317.9	004.1000	0156.7	051.1	52.76	
083.0	002.4502	0126.5	025.7	/	317.4	004.1000	0156.8	050.8	52.87	
084.0	002.3895	0126.3	025.5	/	317.0	004.1000	0156.7	050.6	52.97	
085.0	002.3294	0126.3	025.4	/	316.5	004.1000	0156.7	050.3	53.07	
086.0	002.2702	0126.3	025.2	/	316.1	004.1000	0156.7	050.1	53.17	
087.0	002.2117	0126.2	025.1	/	315.6	004.1000	0156.8	049.8	53.26	
088.0	002.1540	0126.2	024.9	/	315.2	004.1000	0157.0	049.6	53.36	
089.0	002.0970	0126.2	024.8	/	314.7	004.1000	0157.3	049.4	53.45	
090.0	002.0409	0126.2	024.6	/	314.2	004.1000	0157.7	049.2	53.55	
091.0	001.9608	0125.5	024.3	/	313.6	004.1000	0158.2	049.1	53.61	
092.0	001.8824	0124.4	024.0	/	313.0	004.1000	0158.7	049.1	53.66	
093.0	001.8056	0123.4	023.7	/	312.4	004.1000	0159.1	049.0	53.69	
094.0	001.7304	0122.4	023.4	/	311.8	004.1000	0159.3	049.0	53.70	
095.0	001.6568	0121.7	023.1	/	311.2	004.1000	0159.4	049.0	53.71	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
096.0	001.5848	0121.1	022.8	/	310.7	004.1000	0159.5	049.0	53.72
097.0	001.5144	0120.5	022.6	/	310.1	004.1000	0159.7	049.0	53.72
098.0	001.4456	0119.7	022.3	/	309.5	004.1000	0159.8	049.1	53.71
099.0	001.3784	0119.0	022.0	/	309.0	004.1000	0160.0	049.1	53.69
100.0	001.3128	0118.2	021.6	/	308.4	004.1000	0160.1	049.2	53.67
101.0	001.2968	0117.2	021.5	/	307.9	004.1000	0160.4	049.2	53.69
102.0	001.2809	0115.9	021.3	/	307.4	004.1000	0160.7	049.2	53.71
103.0	001.2652	0114.6	021.1	/	307.0	004.1000	0161.2	049.2	53.74
104.0	001.2495	0113.5	021.0	/	306.5	004.1000	0161.8	049.2	53.77
105.0	001.2339	0113.0	020.9	/	306.1	004.1000	0162.6	049.1	53.82
106.0	001.2184	0112.4	020.8	/	305.6	004.1000	0163.3	049.1	53.86
107.0	001.2030	0111.4	020.6	/	305.2	004.1000	0164.0	049.2	53.89
108.0	001.1877	0110.0	020.4	/	304.7	004.1000	0164.6	049.2	53.89
109.0	001.1725	0108.5	020.2	/	304.2	004.1000	0165.1	049.3	53.87
110.0	001.1574	0107.0	020.0	/	303.8	004.1000	0165.5	049.4	53.85
111.0	001.1542	0105.6	019.9	/	303.4	004.1000	0165.7	049.5	53.83
112.0	001.1511	0104.4	019.7	/	302.9	004.1000	0165.9	049.6	53.82
113.0	001.1480	0103.3	019.6	/	302.5	004.1000	0166.0	049.6	53.80
114.0	001.1449	0102.5	019.5	/	302.1	004.1000	0166.1	049.7	53.79
115.0	001.1417	0102.3	019.5	/	301.7	004.1000	0166.2	049.7	53.80
116.0	001.1386	0102.6	019.5	/	301.3	004.1000	0166.3	049.6	53.82
117.0	001.1355	0103.3	019.6	/	300.9	004.1000	0166.4	049.5	53.86
118.0	001.1324	0104.0	019.6	/	300.5	004.1000	0166.4	049.5	53.89
119.0	001.1293	0104.5	019.6	/	300.2	004.1000	0166.5	049.4	53.91
120.0	001.1262	0104.7	019.6	/	299.8	004.1000	0166.5	049.4	53.91
121.0	001.1126	0104.7	019.6	/	299.4	004.1000	0166.4	049.5	53.88
122.0	001.0992	0104.7	019.5	/	299.0	004.1000	0166.2	049.5	53.84
123.0	001.0857	0104.8	019.5	/	298.6	004.1000	0166.0	049.6	53.80
124.0	001.0724	0105.3	019.5	/	298.2	004.1000	0165.8	049.7	53.78
125.0	001.0592	0106.4	019.5	/	297.8	004.1000	0165.6	049.7	53.77
126.0	001.0460	0107.6	019.6	/	297.4	004.1000	0165.4	049.7	53.76
127.0	001.0329	0108.6	019.6	/	297.0	004.1000	0165.2	049.7	53.74
128.0	001.0199	0109.3	019.6	/	296.6	004.1000	0165.1	049.7	53.71
129.0	001.0070	0109.8	019.6	/	296.2	004.1000	0165.0	049.8	53.67
130.0	000.9942	0110.3	019.6	/	295.9	004.1000	0164.9	049.9	53.63
131.0	001.0217	0110.7	019.7	/	295.4	004.1000	0164.9	049.9	53.66
132.0	001.0496	0111.0	019.9	/	295.0	004.1000	0164.9	049.8	53.68
133.0	001.0779	0111.2	020.0	/	294.6	004.1000	0164.9	049.8	53.69
134.0	001.1065	0111.2	020.2	/	294.1	004.1000	0164.9	049.8	53.69
135.0	001.1355	0111.2	020.3	/	293.7	004.1000	0164.8	049.8	53.69
136.0	001.1649	0111.1	020.4	/	293.3	004.1000	0164.8	049.8	53.68
137.0	001.1947	0111.2	020.6	/	292.8	004.1000	0164.8	049.8	53.67
138.0	001.2248	0111.5	020.7	/	292.4	004.1000	0164.8	049.8	53.66
139.0	001.2553	0111.8	020.9	/	291.9	004.1000	0164.9	049.9	53.66
140.0	001.2862	0111.9	021.0	/	291.5	004.1000	0165.0	049.9	53.64
141.0	001.3468	0111.6	021.2	/	291.0	004.1000	0165.1	049.9	53.65
142.0	001.4103	0111.1	021.4	/	290.5	004.1000	0165.3	049.9	53.64
143.0	001.4768	0110.5	021.6	/	290.0	004.1000	0165.6	050.0	53.64
144.0	001.5464	0109.9	021.7	/	289.6	004.1000	0165.8	050.1	53.63
145.0	001.6193	0109.3	021.9	/	289.1	004.1000	0166.1	050.1	53.61
146.0	001.6956	0108.9	022.1	/	288.6	004.1000	0166.3	050.2	53.59

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
147.0	001.7755	0108.2	022.3		288.1	004.1000	0166.6	050.3	53.57
148.0	001.8592	0107.3	022.4		287.7	004.1000	0166.7	050.4	53.52
149.0	001.9468	0106.3	022.6		287.3	004.1000	0166.9	050.6	53.47
150.0	002.0385	0105.8	022.8		286.8	004.1000	0167.0	050.7	53.42
151.0	002.1346	0105.7	023.0		286.3	004.1000	0167.0	050.8	53.38
152.0	002.2352	0105.6	023.2		285.8	004.1000	0167.1	051.0	53.34
153.0	002.3406	0105.3	023.5		285.3	004.1000	0167.3	051.1	53.29
154.0	002.4509	0105.3	023.7		284.8	004.1000	0167.5	051.3	53.24
155.0	002.5664	0105.8	024.0		284.2	004.1000	0167.9	051.4	53.22
156.0	002.6873	0106.5	024.3		283.6	004.1000	0168.5	051.5	53.19
157.0	002.8140	0107.3	024.7		283.0	004.1000	0169.1	051.7	53.17
158.0	002.9466	0108.3	025.0		282.4	004.1000	0169.6	051.8	53.14
159.0	003.0854	0109.5	025.4		281.8	004.1000	0170.0	052.0	53.10
160.0	003.2309	0110.6	025.8		281.2	004.1000	0170.1	052.1	53.03
161.0	003.3831	0111.5	026.2		280.6	004.1000	0169.8	052.4	52.94
162.0	003.5426	0112.5	026.5		280.0	004.1000	0169.5	052.6	52.83
163.0	003.7095	0114.0	027.0		279.4	004.1000	0169.4	052.8	52.74
164.0	003.8843	0115.5	027.4		278.7	004.1000	0169.6	053.1	52.65
165.0	004.0674	0116.9	027.8		278.1	004.1000	0169.5	053.3	52.55
166.0	004.2591	0117.9	028.2		277.5	004.1000	0169.1	053.6	52.41
167.0	004.4598	0118.7	028.6		277.0	004.1000	0168.5	054.0	52.25
168.0	004.6700	0119.4	028.9		276.4	004.1000	0167.8	054.3	52.08
169.0	004.8901	0120.2	029.3		275.9	004.1000	0166.6	054.7	51.88
170.0	005.1206	0121.5	029.8		275.3	004.1000	0165.5	055.1	51.68
171.0	005.3619	0123.1	030.3		274.7	004.1000	0164.5	055.5	51.49
172.0	005.6146	0124.8	030.8		274.1	004.1000	0163.4	055.9	51.28
173.0	005.8792	0125.8	031.2		273.5	004.1000	0162.9	056.3	51.08
174.0	006.1563	0126.2	031.6		273.0	004.1000	0162.9	056.8	50.90
175.0	006.4464	0126.6	032.0		272.6	004.1000	0162.4	057.3	50.69
176.0	006.7502	0127.0	032.4		272.1	004.1000	0161.8	057.8	50.47
177.0	007.0684	0127.2	032.8		271.7	004.1000	0161.3	058.3	50.25
178.0	007.4015	0127.3	033.2		271.3	004.1000	0160.7	058.9	50.02
179.0	007.7503	0127.3	033.5		270.9	004.1000	0160.3	059.5	49.79

11-10-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WWGN BLED20051122AAT

WUNTNew

Channel = 205B1

Max ERP = 4.1 kW

RCAMSL = 332.1 M

N. Lat. 41 18 05.0

W. Lng. 88 57 11.0

Protected

60 dBu

Channel = 204B1

Max ERP = 8.5 kW

RCAMSL = 330.8 M

N. Lat. 41 36 33.3

W. Lng. 89 40 18.6

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
240.0	004.1000	0139.8	030.0	/	145.3	001.6395	0109.2	059.8	42.87	
241.0	004.1000	0140.7	030.1	/	145.3	001.6406	0109.2	059.3	43.05	
242.0	004.1000	0141.3	030.2	/	145.3	001.6410	0109.2	058.8	43.25	
243.0	004.1000	0141.8	030.2	/	145.3	001.6401	0109.2	058.3	43.44	
244.0	004.1000	0142.4	030.3	/	145.3	001.6390	0109.2	057.7	43.64	
245.0	004.1000	0143.0	030.4	/	145.2	001.6376	0109.2	057.2	43.83	
246.0	004.1000	0143.7	030.4	/	145.2	001.6353	0109.2	056.7	44.03	
247.0	004.1000	0144.2	030.5	/	145.2	001.6315	0109.3	056.1	44.22	
248.0	004.1000	0144.5	030.5	/	145.1	001.6251	0109.3	055.6	44.41	
249.0	004.1000	0144.5	030.5	/	144.9	001.6154	0109.4	055.1	44.59	
250.0	004.1000	0144.1	030.5	/	144.8	001.6023	0109.5	054.6	44.75	
251.0	004.1000	0143.4	030.4	/	144.6	001.5866	0109.6	054.1	44.91	
252.0	004.1000	0142.7	030.3	/	144.3	001.5697	0109.7	053.6	45.06	
253.0	004.1000	0142.1	030.3	/	144.1	001.5521	0109.9	053.1	45.21	
254.0	004.1000	0141.6	030.2	/	143.8	001.5354	0110.0	052.6	45.36	
255.0	004.1000	0141.6	030.2	/	143.6	001.5217	0110.1	052.1	45.52	
256.0	004.1000	0142.0	030.3	/	143.5	001.5093	0110.2	051.6	45.69	
257.0	004.1000	0142.6	030.3	/	143.3	001.4975	0110.3	051.1	45.86	
258.0	004.1000	0143.3	030.4	/	143.1	001.4858	0110.4	050.6	46.03	
259.0	004.1000	0143.9	030.4	/	142.9	001.4726	0110.5	050.1	46.20	
260.0	004.1000	0144.7	030.5	/	142.7	001.4598	0110.6	049.6	46.36	
261.0	004.1000	0145.5	030.6	/	142.5	001.4461	0110.8	049.1	46.53	
262.0	004.1000	0145.7	030.6	/	142.3	001.4271	0110.9	048.6	46.66	
263.0	004.1000	0146.3	030.7	/	142.0	001.4103	0111.1	048.1	46.81	
264.0	004.1000	0147.5	030.8	/	141.8	001.3972	0111.2	047.6	46.98	
265.0	004.1000	0148.8	030.9	/	141.6	001.3832	0111.3	047.1	47.15	
266.0	004.1000	0150.4	031.1	/	141.4	001.3700	0111.4	046.5	47.32	
267.0	004.1000	0152.9	031.4	/	141.2	001.3625	0111.5	045.9	47.54	
268.0	004.1000	0155.6	031.6	/	141.1	001.3544	0111.6	045.3	47.76	
269.0	004.1000	0157.9	031.9	/	140.9	001.3429	0111.6	044.7	47.96	
270.0	004.1000	0159.2	032.0	/	140.6	001.3238	0111.7	044.2	48.12	
271.0	004.1000	0160.4	032.1	/	140.3	001.3038	0111.8	043.7	48.27	
272.0	004.1000	0161.7	032.3	/	139.9	001.2842	0111.9	043.2	48.42	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
273.0	004.1000	0162.8	032.4	/	139.5	001.2722	0111.9	042.7	48.59
274.0	004.1000	0163.3	032.4	/	139.1	001.2573	0111.8	042.2	48.71
275.0	004.1000	0165.0	032.6	/	138.7	001.2456	0111.7	041.7	48.89
276.0	004.1000	0166.9	032.8	/	138.3	001.2336	0111.5	041.2	49.06
277.0	004.1000	0168.5	033.0	/	137.8	001.2202	0111.4	040.7	49.22
278.0	004.1000	0169.5	033.1	/	137.3	001.2040	0111.2	040.2	49.35
279.0	004.1000	0169.5	033.1	/	136.7	001.1848	0111.1	039.9	49.43
280.0	004.1000	0169.5	033.1	/	136.0	001.1651	0111.1	039.5	49.50
281.0	004.1000	0170.0	033.1	/	135.4	001.1462	0111.1	039.1	49.60
282.0	004.1000	0169.9	033.1	/	134.7	001.1254	0111.2	038.8	49.66
283.0	004.1000	0169.1	033.0	/	133.9	001.1026	0111.2	038.6	49.68
284.0	004.1000	0168.1	032.9	/	133.0	001.0793	0111.2	038.4	49.68
285.0	004.1000	0167.4	032.9	/	132.2	001.0564	0111.1	038.2	49.67
286.0	004.1000	0167.1	032.8	/	131.4	001.0341	0110.9	037.9	49.67
287.0	004.1000	0166.9	032.8	/	130.7	001.0121	0110.6	037.7	49.65
288.0	004.1000	0166.6	032.8	/	129.8	000.9963	0110.2	037.5	49.65
289.0	004.1000	0166.2	032.7	/	129.0	001.0072	0109.8	037.4	49.74
290.0	004.1000	0165.6	032.7	/	128.1	001.0182	0109.4	037.2	49.81
291.0	004.1000	0165.1	032.6	/	127.3	001.0294	0108.8	037.1	49.87
292.0	004.1000	0164.9	032.6	/	126.4	001.0406	0108.1	037.0	49.92
293.0	004.1000	0164.8	032.6	/	125.6	001.0519	0107.0	036.8	49.95
294.0	004.1000	0164.8	032.6	/	124.7	001.0633	0106.0	036.7	49.96
295.0	004.1000	0164.9	032.6	/	123.8	001.0749	0105.2	036.6	49.99
296.0	004.1000	0165.0	032.6	/	122.9	001.0866	0104.8	036.5	50.05
297.0	004.1000	0165.2	032.6	/	122.0	001.0985	0104.7	036.4	50.13
298.0	004.1000	0165.7	032.7	/	121.2	001.1105	0104.7	036.3	50.22
299.0	004.1000	0166.2	032.7	/	120.3	001.1226	0104.7	036.3	50.30
300.0	004.1000	0166.5	032.8	/	119.4	001.1282	0104.6	036.2	50.33
301.0	004.1000	0166.4	032.8	/	118.5	001.1310	0104.3	036.2	50.30
302.0	004.1000	0166.1	032.7	/	117.6	001.1338	0103.7	036.3	50.24
303.0	004.1000	0165.9	032.7	/	116.7	001.1366	0103.1	036.4	50.16
304.0	004.1000	0165.3	032.6	/	115.8	001.1393	0102.5	036.5	50.07
305.0	004.1000	0164.2	032.5	/	114.9	001.1419	0102.3	036.7	49.97
306.0	004.1000	0162.7	032.4	/	114.1	001.1445	0102.5	037.0	49.88
307.0	004.1000	0161.1	032.2	/	113.3	001.1470	0103.0	037.2	49.81
308.0	004.1000	0160.3	032.1	/	112.5	001.1495	0103.8	037.5	49.78
309.0	004.1000	0160.0	032.1	/	111.7	001.1520	0104.7	037.6	49.78
310.0	004.1000	0159.7	032.1	/	110.9	001.1545	0105.7	037.8	49.79
311.0	004.1000	0159.4	032.0	/	110.1	001.1569	0106.8	038.1	49.79
312.0	004.1000	0159.2	032.0	/	109.4	001.1669	0107.9	038.3	49.81
313.0	004.1000	0158.8	032.0	/	108.6	001.1780	0109.1	038.5	49.83
314.0	004.1000	0157.9	031.9	/	107.9	001.1886	0110.1	038.9	49.80
315.0	004.1000	0157.1	031.8	/	107.3	001.1989	0111.1	039.2	49.77
316.0	004.1000	0156.7	031.8	/	106.6	001.2094	0111.9	039.5	49.74
317.0	004.1000	0156.7	031.8	/	105.9	001.2201	0112.5	039.8	49.70
318.0	004.1000	0156.7	031.7	/	105.2	001.2306	0112.9	040.0	49.64
319.0	004.1000	0156.3	031.7	/	104.6	001.2404	0113.2	040.4	49.55
320.0	004.1000	0155.6	031.6	/	104.0	001.2494	0113.5	040.8	49.44
321.0	004.1000	0154.7	031.5	/	103.5	001.2579	0114.0	041.2	49.33
322.0	004.1000	0153.9	031.5	/	102.9	001.2662	0114.7	041.6	49.23
323.0	004.1000	0153.0	031.4	/	102.4	001.2741	0115.3	042.0	49.12

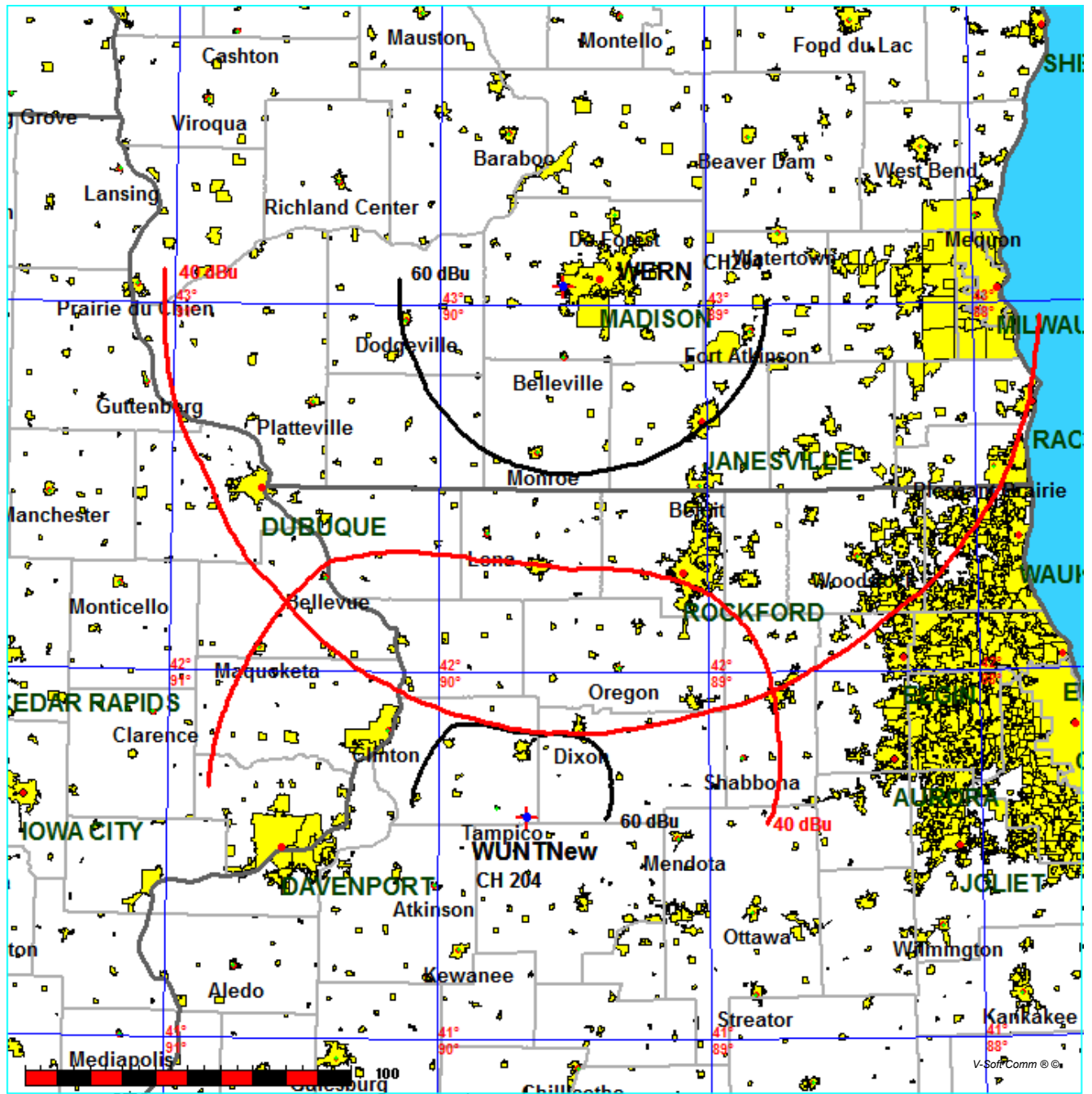
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
324.0	004.1000	0152.2	031.3	/	101.9	001.2818	0115.9	042.4	49.01
325.0	004.1000	0151.4	031.2	/	101.5	001.2892	0116.5	042.8	48.89
326.0	004.1000	0150.7	031.1	/	101.0	001.2965	0117.2	043.3	48.78
327.0	004.1000	0150.3	031.1	/	100.6	001.3038	0117.7	043.7	48.66
328.0	004.1000	0149.8	031.0	/	100.1	001.3109	0118.1	044.1	48.54
329.0	004.1000	0149.2	031.0	/	099.7	001.3312	0118.4	044.5	48.44
330.0	004.1000	0148.1	030.9	/	099.4	001.3537	0118.7	045.0	48.33
331.0	004.1000	0147.1	030.8	/	099.0	001.3753	0118.9	045.5	48.22
332.0	004.1000	0146.8	030.7	/	098.7	001.4005	0119.2	045.9	48.13
333.0	004.1000	0147.2	030.8	/	098.2	001.4298	0119.6	046.3	48.08
334.0	004.1000	0147.7	030.8	/	097.8	001.4593	0119.9	046.8	48.03
335.0	004.1000	0147.8	030.8	/	097.4	001.4847	0120.2	047.2	47.94
336.0	004.1000	0147.4	030.8	/	097.1	001.5058	0120.4	047.7	47.83
337.0	004.1000	0146.9	030.7	/	096.8	001.5253	0120.6	048.2	47.71
338.0	004.1000	0146.4	030.7	/	096.6	001.5438	0120.7	048.6	47.58
339.0	004.1000	0146.1	030.7	/	096.3	001.5621	0120.9	049.1	47.45
340.0	004.1000	0146.1	030.7	/	096.0	001.5823	0121.0	049.6	47.33
341.0	004.1000	0146.5	030.7	/	095.7	001.6042	0121.2	050.1	47.22
342.0	004.1000	0146.7	030.7	/	095.4	001.6244	0121.4	050.5	47.09
343.0	004.1000	0146.9	030.7	/	095.2	001.6428	0121.5	051.0	46.96
344.0	004.1000	0147.2	030.8	/	094.9	001.6618	0121.7	051.5	46.83
345.0	004.1000	0147.8	030.8	/	094.7	001.6813	0121.9	052.0	46.70
346.0	004.1000	0148.1	030.9	/	094.4	001.6982	0122.0	052.5	46.56
347.0	004.1000	0148.0	030.9	/	094.3	001.7113	0122.2	053.0	46.40
348.0	004.1000	0147.6	030.8	/	094.1	001.7206	0122.3	053.5	46.23
349.0	004.1000	0147.2	030.8	/	094.0	001.7295	0122.4	054.1	46.05
350.0	004.1000	0146.9	030.7	/	093.9	001.7382	0122.5	054.6	45.87
351.0	004.1000	0146.7	030.7	/	093.8	001.7465	0122.6	055.1	45.70
352.0	004.1000	0146.6	030.7	/	093.7	001.7544	0122.7	055.6	45.52
353.0	004.1000	0146.4	030.7	/	093.6	001.7614	0122.7	056.2	45.34
354.0	004.1000	0146.4	030.7	/	093.5	001.7687	0122.8	056.7	45.16
355.0	004.1000	0146.3	030.7	/	093.4	001.7750	0122.9	057.2	44.98
356.0	004.1000	0146.2	030.7	/	093.3	001.7797	0123.0	057.7	44.80
357.0	004.1000	0145.9	030.6	/	093.3	001.7828	0123.0	058.3	44.61
358.0	004.1000	0145.8	030.6	/	093.3	001.7860	0123.1	058.8	44.42
359.0	004.1000	0145.7	030.6	/	093.2	001.7887	0123.1	059.3	44.23

WUNTNew vs. WERN
RoadMap Ministries

FMCommander Single Allocation Study - 11-10-2011 - FCC NGDC 30 Sec
WUNTNew's Overlaps (In= 0.49 km, Out= 27.94 km)

WUNTNew CH 204 B1 DA
Lat= 41 36 33.3, Lng= 89 40 18.6
8.5 kW 127 M HAAT, 330.8 M COR
Prot.= 60 dBu, Intef.= 40 dBu

WERN CH 204 B DA BLED19951026KA
Lat= 43 03 21.0, Lng= 89 32 06.0
20.5 kW 385 M HAAT, 686 M COR
Prot.= 60 dBu, Intef.= 40 dBu



11-10-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WUNTNW

WERN BLED19951026KA

Channel = 204B1

Max ERP = 8.5 kW

RCAMSL = 330.8 M

N. Lat. 41 36 33.3

W. Lng. 89 40 18.6

Protected

60 dBu

Channel = 204B

Max ERP = 20.5 kW

RCAMSL = 686 M

N. Lat. 43 03 21.0

W. Lng. 89 32 06.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
304.0	008.5000	0136.2	035.3	/	196.1	011.2306	0380.6	146.7	37.13	
305.0	008.5000	0136.2	035.3	/	196.1	011.2312	0380.6	146.2	37.24	
306.0	008.5000	0136.3	035.3	/	196.0	011.2319	0380.7	145.6	37.35	
307.0	008.5000	0136.6	035.3	/	195.9	011.2326	0380.7	145.0	37.47	
308.0	008.5000	0137.0	035.4	/	195.8	011.2333	0380.8	144.4	37.59	
309.0	008.5000	0137.6	035.5	/	195.8	011.2339	0380.8	143.8	37.70	
310.0	008.5000	0138.0	035.5	/	195.7	011.2347	0380.8	143.2	37.83	
311.0	008.5000	0138.4	035.5	/	195.6	011.2355	0380.9	142.6	37.95	
312.0	008.5000	0138.3	035.5	/	195.5	011.2365	0381.0	142.1	38.07	
313.0	008.5000	0138.0	035.5	/	195.4	011.2377	0381.0	141.5	38.19	
314.0	008.5000	0137.6	035.5	/	195.2	011.2390	0381.0	141.0	38.30	
315.0	008.5000	0137.4	035.4	/	195.1	011.2402	0381.0	140.5	38.42	
316.0	008.5000	0137.3	035.4	/	195.0	011.2414	0381.0	140.0	38.54	
317.0	008.5000	0137.3	035.4	/	194.8	011.2426	0381.0	139.4	38.66	
318.0	008.5000	0137.4	035.4	/	194.7	011.2439	0381.0	138.9	38.78	
319.0	008.5000	0137.5	035.4	/	194.5	011.2452	0381.0	138.4	38.91	
320.0	008.5000	0137.5	035.4	/	194.4	011.2465	0381.0	137.9	39.03	
321.0	008.5000	0137.3	035.4	/	194.2	011.2480	0381.0	137.4	39.14	
322.0	008.4052	0136.9	035.3	/	194.0	011.2499	0381.0	137.0	39.24	
323.0	008.0269	0136.3	034.9	/	193.7	011.2526	0381.0	136.8	39.30	
324.0	007.6657	0135.7	034.4	/	193.4	011.2554	0381.1	136.6	39.34	
325.0	007.3207	0135.0	034.0	/	193.1	011.2582	0381.3	136.5	39.39	
326.0	006.9912	0134.9	033.6	/	192.8	011.2609	0381.5	136.3	39.43	
327.0	006.6765	0135.4	033.3	/	192.6	011.2633	0381.7	136.1	39.49	
328.0	006.3760	0136.4	033.0	/	192.3	011.2656	0382.0	135.9	39.56	
329.0	006.0891	0136.9	032.7	/	192.0	011.2680	0382.3	135.7	39.61	
330.0	005.8150	0136.9	032.3	/	191.7	011.2706	0382.6	135.6	39.64	
331.0	005.5533	0136.8	032.0	/	191.5	011.2732	0382.9	135.5	39.68	
332.0	005.3033	0137.0	031.6	/	191.2	011.2757	0383.3	135.4	39.71	
333.0	005.0647	0137.1	031.3	/	190.9	011.2782	0383.7	135.3	39.74	
334.0	004.8367	0137.1	030.9	/	190.6	011.2807	0384.1	135.3	39.77	
335.0	004.6190	0136.9	030.6	/	190.4	011.2832	0384.6	135.2	39.79	
336.0	004.4111	0136.4	030.2	/	190.1	011.2857	0384.9	135.3	39.80	
337.0	004.2126	0135.4	029.8	/	189.8	011.2796	0385.3	135.3	39.79	
338.0	004.0230	0134.5	029.4	/	189.5	011.2695	0385.7	135.4	39.78	
339.0	003.8419	0133.7	029.0	/	189.3	011.2597	0386.1	135.4	39.78	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
340.0	003.6690	0133.0	028.7		189.0	011.2501	0386.6	135.5	39.77
341.0	003.5417	0132.4	028.4		188.8	011.2413	0387.1	135.5	39.78
342.0	003.4166	0132.1	028.1		188.5	011.2327	0387.6	135.5	39.79
343.0	003.2938	0132.0	027.9		188.3	011.2242	0388.0	135.5	39.79
344.0	003.1732	0131.9	027.6		188.1	011.2159	0388.5	135.5	39.80
345.0	003.0549	0131.9	027.4		187.8	011.2076	0388.9	135.6	39.80
346.0	002.9388	0131.9	027.2		187.6	011.1994	0389.4	135.6	39.81
347.0	002.8250	0131.5	026.9		187.4	011.1911	0389.9	135.7	39.80
348.0	002.7134	0131.1	026.6		187.2	011.1829	0390.5	135.8	39.79
349.0	002.6041	0130.8	026.4		186.9	011.1748	0391.1	135.9	39.77
350.0	002.4970	0130.8	026.1		186.7	011.1670	0391.6	136.0	39.76
351.0	002.4658	0130.8	026.0		186.5	011.1599	0392.0	135.9	39.78
352.0	002.4347	0130.8	026.0		186.3	011.1529	0392.3	135.9	39.80
353.0	002.4039	0130.9	025.9		186.1	011.1458	0392.6	135.9	39.81
354.0	002.3733	0130.9	025.8		185.9	011.1388	0392.9	135.8	39.83
355.0	002.3428	0130.9	025.8		185.7	011.1318	0393.2	135.8	39.84
356.0	002.3126	0130.9	025.7		185.6	011.1248	0393.4	135.8	39.84
357.0	002.2825	0130.9	025.6		185.4	011.1178	0393.6	135.8	39.84
358.0	002.2527	0130.9	025.5		185.2	011.1108	0393.9	135.8	39.84
359.0	002.2230	0130.8	025.5		185.0	011.1039	0394.2	135.9	39.84
000.0	002.1935	0130.8	025.4		184.8	011.0970	0394.5	135.9	39.84
001.0	002.1841	0130.8	025.4		184.6	011.0902	0394.7	135.9	39.85
002.0	002.1746	0130.8	025.3		184.4	011.0834	0395.0	135.9	39.85
003.0	002.1651	0130.8	025.3		184.2	011.0766	0395.3	135.9	39.85
004.0	002.1557	0130.7	025.3		184.0	011.0698	0395.6	135.9	39.85
005.0	002.1463	0130.5	025.2		183.8	011.0630	0395.9	136.0	39.85
006.0	002.1369	0130.4	025.2		183.7	011.0563	0396.2	136.0	39.84
007.0	002.1276	0130.2	025.2		183.5	011.0496	0396.4	136.1	39.83
008.0	002.1182	0130.1	025.1		183.3	011.0429	0396.6	136.1	39.81
009.0	002.1089	0130.1	025.1		183.1	011.0363	0396.7	136.2	39.80
010.0	002.0996	0130.1	025.1		182.9	011.0297	0396.9	136.3	39.78
011.0	002.1591	0130.1	025.2		182.7	011.0227	0397.1	136.2	39.81
012.0	002.2195	0130.0	025.4		182.5	011.0157	0397.3	136.1	39.83
013.0	002.2808	0129.9	025.5		182.3	011.0086	0397.4	136.0	39.85
014.0	002.3428	0129.8	025.7		182.1	011.0015	0397.4	136.0	39.86
015.0	002.4057	0129.8	025.8		181.9	010.9943	0397.3	135.9	39.87
016.0	002.4694	0129.9	026.0		181.7	010.9870	0397.2	135.9	39.87
017.0	002.5340	0130.0	026.1		181.5	010.9797	0397.1	135.9	39.88
018.0	002.5994	0130.0	026.3		181.3	010.9723	0397.0	135.8	39.87
019.0	002.6656	0129.8	026.4		181.1	010.9650	0396.9	135.9	39.87
020.0	002.7327	0129.6	026.5		180.9	010.9577	0396.8	135.9	39.85
021.0	002.8181	0129.4	026.7		180.7	010.9502	0396.7	135.9	39.85
022.0	002.9049	0129.3	026.9		180.5	010.9426	0396.6	135.9	39.84
023.0	002.9931	0129.2	027.1		180.3	010.9349	0396.5	135.9	39.83
024.0	003.0825	0129.2	027.2		180.1	010.9272	0396.4	135.9	39.82
025.0	003.1732	0129.2	027.4		179.9	010.9431	0396.3	136.0	39.81
026.0	003.2653	0129.5	027.6		179.6	010.9727	0396.2	136.0	39.81
027.0	003.3587	0129.6	027.8		179.4	011.0021	0396.1	136.1	39.81
028.0	003.4534	0129.3	027.9		179.2	011.0308	0396.1	136.2	39.79
029.0	003.5494	0128.9	028.1		179.0	011.0590	0396.1	136.3	39.77
030.0	003.6467	0128.7	028.2		178.8	011.0876	0396.2	136.4	39.76

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
031.0	003.7420	0128.6	028.4		178.6	011.1166	0396.3	136.5	39.74
032.0	003.8385	0128.7	028.6		178.4	011.1459	0396.3	136.6	39.72
033.0	003.9362	0128.9	028.7		178.1	011.1752	0396.3	136.8	39.70
034.0	004.0351	0129.0	028.9		177.9	011.2045	0396.3	136.9	39.67
035.0	004.1353	0129.1	029.1		177.7	011.2337	0396.3	137.1	39.64
036.0	004.2367	0129.1	029.2		177.5	011.2625	0396.2	137.3	39.61
037.0	004.3393	0129.0	029.4		177.3	011.2908	0396.1	137.5	39.57
038.0	004.4432	0128.9	029.5		177.1	011.3186	0396.1	137.7	39.52
039.0	004.5483	0128.8	029.7		176.9	011.3467	0396.0	137.9	39.47
040.0	004.6546	0128.8	029.8		176.7	011.3747	0395.8	138.2	39.42
041.0	004.6924	0128.7	029.9		176.5	011.3981	0395.7	138.5	39.35
042.0	004.7304	0128.5	029.9		176.4	011.4205	0395.5	138.9	39.27
043.0	004.7685	0128.1	029.9		176.2	011.4419	0395.4	139.2	39.19
044.0	004.8068	0127.8	030.0		176.0	011.4630	0395.3	139.6	39.11
045.0	004.8452	0127.5	030.0		175.9	011.4838	0395.1	140.0	39.02
046.0	004.8838	0127.2	030.0		175.8	011.5043	0395.0	140.3	38.94
047.0	004.9225	0126.8	030.0		175.6	011.5240	0394.8	140.7	38.85
048.0	004.9614	0126.3	030.0		175.5	011.5426	0394.7	141.1	38.76
049.0	005.0005	0125.8	030.0		175.3	011.5603	0394.5	141.6	38.67
050.0	005.0396	0125.3	030.0		175.2	011.5779	0394.4	142.0	38.58
051.0	004.9692	0125.0	029.9		175.1	011.5887	0394.3	142.5	38.47
052.0	004.8993	0124.9	029.8		175.1	011.5999	0394.1	143.0	38.37
053.0	004.8298	0124.8	029.7		175.0	011.6109	0394.0	143.5	38.27
054.0	004.7609	0124.9	029.6		174.9	011.6217	0393.9	144.0	38.17
055.0	004.6924	0125.0	029.5		174.8	011.6319	0393.8	144.5	38.07
056.0	004.6245	0125.1	029.4		174.8	011.6413	0393.7	145.0	37.97
057.0	004.5570	0125.0	029.3		174.7	011.6495	0393.6	145.5	37.87
058.0	004.4900	0124.7	029.2		174.7	011.6566	0393.5	146.0	37.77
059.0	004.4236	0124.4	029.1		174.6	011.6624	0393.5	146.5	37.67
060.0	004.3576	0124.0	028.9		174.6	011.6673	0393.4	147.0	37.57
061.0	004.2271	0123.6	028.7		174.6	011.6669	0393.4	147.6	37.46
062.0	004.0986	0123.5	028.5		174.6	011.6675	0393.4	148.1	37.36
063.0	003.9721	0124.1	028.3		174.6	011.6700	0393.4	148.6	37.26

11-10-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WERN BLED19951026KA

WUNTNew

Channel = 204B

Max ERP = 20.5 kW

RCAMSL = 686 M

N. Lat. 43 03 21.0

W. Lng. 89 32 06.0

Protected

60 dBu

Channel = 204B1

Max ERP = 8.5 kW

RCAMSL = 330.8 M

N. Lat. 41 36 33.3

W. Lng. 89 40 18.6

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
124.0	020.5000	0381.1	062.1	/	026.2	003.2848	0129.5	140.8	27.02	
125.0	020.5000	0380.0	062.0	/	026.1	003.2725	0129.5	139.7	27.22	
126.0	020.5000	0378.9	062.0	/	026.0	003.2637	0129.5	138.6	27.41	
127.0	020.5000	0378.2	061.9	/	025.9	003.2550	0129.4	137.6	27.61	
128.0	020.5000	0377.2	061.9	/	025.8	003.2450	0129.4	136.5	27.80	
129.0	020.5000	0375.5	061.8	/	025.6	003.2322	0129.4	135.5	27.98	
130.0	020.5000	0373.1	061.6	/	025.5	003.2169	0129.3	134.5	28.16	
131.0	020.1733	0370.7	061.3	/	025.2	003.1949	0129.3	133.5	28.32	
132.0	019.8492	0368.8	061.0	/	025.0	003.1731	0129.2	132.6	28.47	
133.0	019.5278	0367.5	060.8	/	024.8	003.1517	0129.2	131.7	28.63	
134.0	019.2090	0366.5	060.6	/	024.5	003.1305	0129.2	130.7	28.78	
135.0	018.8928	0366.4	060.4	/	024.3	003.1102	0129.2	129.8	28.93	
136.0	018.6027	0366.8	060.3	/	024.1	003.0910	0129.2	128.8	29.08	
137.0	018.3148	0367.9	060.2	/	023.9	003.0722	0129.2	127.9	29.23	
138.0	018.0291	0369.2	060.1	/	023.7	003.0531	0129.2	127.0	29.38	
139.0	017.7457	0370.1	060.0	/	023.4	003.0322	0129.2	126.1	29.51	
140.0	017.4645	0370.6	059.9	/	023.2	003.0095	0129.2	125.2	29.64	
141.0	017.2871	0370.7	059.8	/	022.9	002.9869	0129.2	124.3	29.77	
142.0	017.1106	0370.5	059.7	/	022.7	002.9630	0129.2	123.4	29.89	
143.0	016.9350	0370.1	059.6	/	022.4	002.9378	0129.3	122.6	30.01	
144.0	016.7603	0369.7	059.5	/	022.1	002.9118	0129.3	121.8	30.12	
145.0	016.5866	0369.5	059.3	/	021.8	002.8854	0129.3	120.9	30.22	
146.0	016.4137	0369.6	059.2	/	021.5	002.8588	0129.3	120.1	30.33	
147.0	016.2417	0369.9	059.2	/	021.2	002.8319	0129.4	119.3	30.43	
148.0	016.0706	0370.6	059.1	/	020.8	002.8050	0129.4	118.5	30.53	
149.0	015.9005	0371.5	059.1	/	020.5	002.7778	0129.5	117.8	30.64	
150.0	015.7312	0372.9	059.0	/	020.2	002.7506	0129.5	117.0	30.74	
151.0	015.5450	0374.3	059.0	/	019.9	002.7244	0129.6	116.2	30.84	
152.0	015.3599	0375.2	059.0	/	019.5	002.7005	0129.7	115.5	30.94	
153.0	015.1759	0375.6	058.9	/	019.1	002.6753	0129.7	114.8	31.02	
154.0	014.9930	0376.0	058.8	/	018.8	002.6495	0129.8	114.1	31.11	
155.0	014.8113	0376.9	058.7	/	018.4	002.6238	0129.9	113.4	31.19	
156.0	014.6306	0377.9	058.6	/	018.0	002.5978	0130.0	112.8	31.28	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
157.0	014.4510	0378.0	058.5	/	017.6	002.5699	0130.0	112.2	31.34
158.0	014.2726	0376.6	058.3	/	017.1	002.5399	0130.0	111.7	31.39
159.0	014.0952	0374.5	058.1	/	016.6	002.5086	0130.0	111.3	31.42
160.0	013.9190	0372.9	057.9	/	016.1	002.4779	0129.9	110.8	31.45
161.0	013.7540	0371.9	057.7	/	015.7	002.4477	0129.9	110.4	31.49
162.0	013.5899	0371.4	057.6	/	015.2	002.4177	0129.8	109.9	31.52
163.0	013.4268	0372.0	057.5	/	014.7	002.3887	0129.8	109.5	31.56
164.0	013.2647	0373.7	057.5	/	014.3	002.3605	0129.8	109.0	31.62
165.0	013.1036	0375.3	057.4	/	013.8	002.3317	0129.8	108.5	31.66
166.0	012.9435	0376.3	057.4	/	013.3	002.3022	0129.8	108.1	31.70
167.0	012.7843	0377.2	057.3	/	012.9	002.2722	0129.9	107.7	31.72
168.0	012.6262	0378.8	057.3	/	012.4	002.2426	0129.9	107.3	31.76
169.0	012.4690	0380.3	057.3	/	011.9	002.2127	0130.0	106.9	31.78
170.0	012.3128	0381.9	057.2	/	011.4	002.1826	0130.0	106.6	31.80
171.0	012.1702	0384.0	057.2	/	010.9	002.1528	0130.1	106.2	31.82
172.0	012.0285	0386.6	057.3	/	010.4	002.1231	0130.1	105.8	31.84
173.0	011.8876	0389.4	057.3	/	009.9	002.1006	0130.1	105.5	31.87
174.0	011.7475	0392.2	057.4	/	009.4	002.1053	0130.1	105.2	31.95
175.0	011.6083	0394.1	057.3	/	008.9	002.1102	0130.1	104.9	32.02
176.0	011.4698	0395.2	057.3	/	008.3	002.1152	0130.1	104.7	32.07
177.0	011.3322	0396.0	057.2	/	007.8	002.1202	0130.1	104.6	32.11
178.0	011.1955	0396.3	057.1	/	007.2	002.1253	0130.2	104.5	32.14
179.0	011.0595	0396.1	057.0	/	006.7	002.1304	0130.3	104.5	32.16
180.0	010.9245	0396.4	056.9	/	006.2	002.1354	0130.3	104.5	32.18
181.0	010.9604	0396.9	057.0	/	005.6	002.1404	0130.4	104.3	32.22
182.0	010.9964	0397.3	057.0	/	005.1	002.1455	0130.5	104.2	32.27
183.0	011.0325	0396.8	057.0	/	004.5	002.1506	0130.6	104.2	32.29
184.0	011.0686	0395.7	057.0	/	004.0	002.1557	0130.7	104.2	32.30
185.0	011.1048	0394.1	056.9	/	003.5	002.1608	0130.7	104.3	32.29
186.0	011.1410	0392.8	056.9	/	002.9	002.1659	0130.8	104.3	32.29
187.0	011.1773	0390.9	056.8	/	002.4	002.1709	0130.8	104.5	32.27
188.0	011.2137	0388.6	056.7	/	001.9	002.1759	0130.8	104.7	32.23
189.0	011.2501	0386.6	056.6	/	001.3	002.1809	0130.8	104.9	32.20
190.0	011.2866	0385.1	056.6	/	000.8	002.1859	0130.8	105.1	32.16
191.0	011.2774	0383.6	056.5	/	000.3	002.1908	0130.8	105.3	32.11
192.0	011.2683	0382.3	056.4	/	359.8	002.1999	0130.8	105.6	32.07
193.0	011.2592	0381.4	056.3	/	359.3	002.2149	0130.8	105.9	32.04
194.0	011.2501	0381.0	056.3	/	358.8	002.2298	0130.8	106.2	32.00
195.0	011.2410	0381.0	056.3	/	358.3	002.2447	0130.8	106.4	31.97
196.0	011.2319	0380.7	056.3	/	357.8	002.2594	0130.9	106.8	31.93
197.0	011.2228	0379.8	056.2	/	357.3	002.2738	0130.9	107.1	31.88
198.0	011.2137	0378.6	056.1	/	356.8	002.2879	0130.9	107.6	31.82
199.0	011.2046	0377.5	056.1	/	356.4	002.3019	0130.9	108.0	31.75
200.0	011.1955	0377.1	056.0	/	355.9	002.3158	0130.9	108.4	31.69
201.0	011.0686	0377.3	055.9	/	355.5	002.3292	0130.9	108.9	31.61
202.0	010.9424	0377.1	055.8	/	355.0	002.3421	0130.9	109.4	31.52
203.0	010.8170	0376.4	055.7	/	354.6	002.3545	0130.9	110.0	31.43
204.0	010.6922	0376.6	055.6	/	354.2	002.3671	0130.9	110.6	31.34
205.0	010.5682	0378.2	055.6	/	353.8	002.3800	0130.9	111.1	31.26
206.0	010.4450	0380.4	055.6	/	353.4	002.3929	0130.9	111.6	31.18
207.0	010.3224	0382.5	055.6	/	352.9	002.4055	0130.8	112.1	31.10

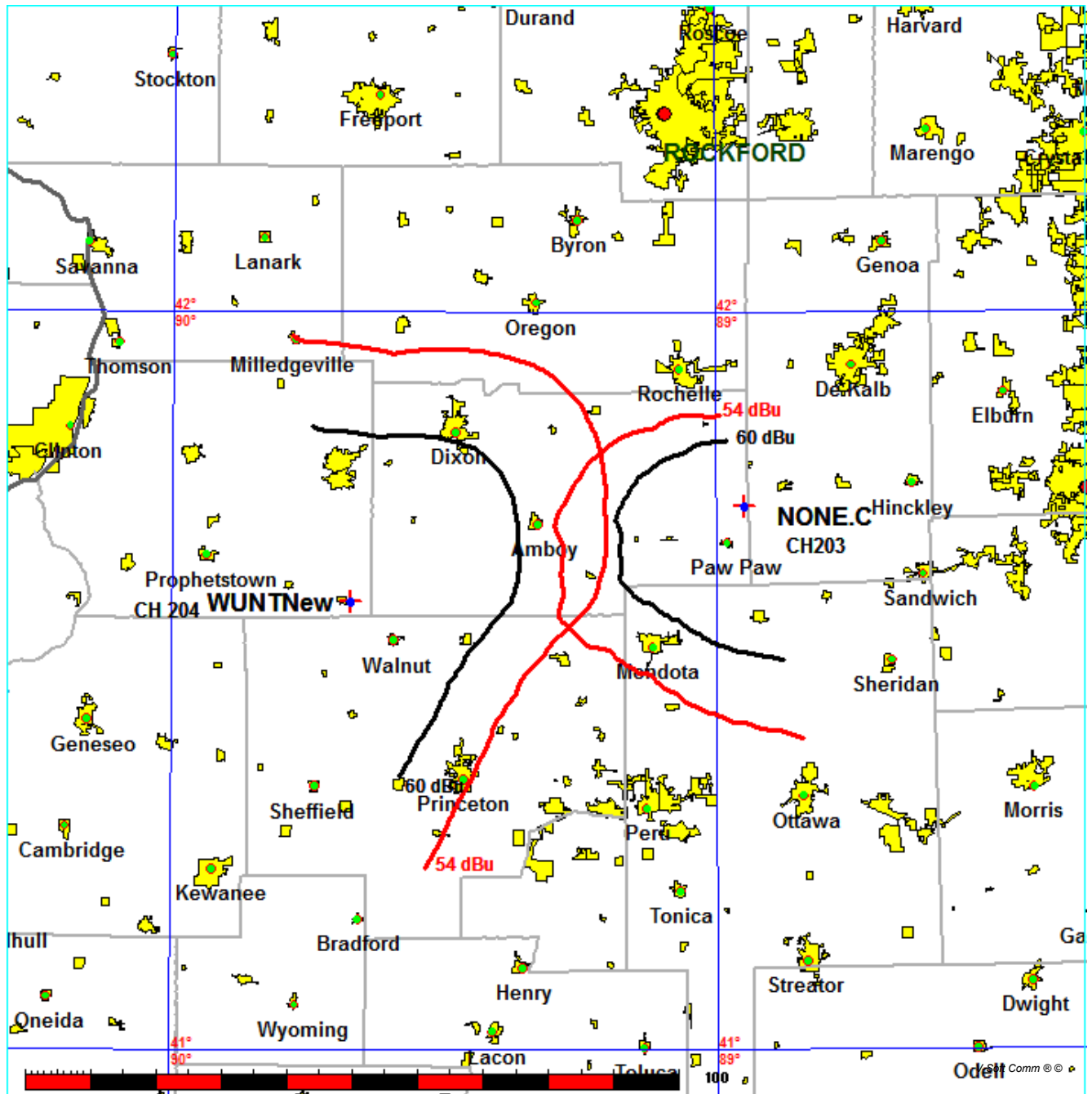
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
208.0	010.2006	0383.5	055.5	/	352.6	002.4174	0130.8	112.7	31.01
209.0	010.0795	0383.0	055.4	/	352.2	002.4282	0130.8	113.4	30.90
210.0	009.9591	0382.1	055.2	/	351.9	002.4384	0130.8	114.1	30.78
211.0	009.8479	0381.4	055.1	/	351.6	002.4485	0130.8	114.8	30.66
212.0	009.7374	0380.7	054.9	/	351.2	002.4583	0130.8	115.6	30.55
213.0	009.6275	0380.0	054.8	/	350.9	002.4677	0130.8	116.3	30.43
214.0	009.5183	0379.6	054.7	/	350.6	002.4770	0130.8	117.1	30.31
215.0	009.4096	0379.6	054.5	/	350.3	002.4861	0130.8	117.8	30.19
216.0	009.3016	0379.7	054.4	/	350.1	002.4950	0130.8	118.6	30.07
217.0	009.1942	0378.9	054.3	/	349.8	002.5174	0130.8	119.3	29.96
218.0	009.0874	0377.4	054.1	/	349.6	002.5421	0130.8	120.2	29.86
219.0	008.9813	0376.1	053.9	/	349.4	002.5661	0130.8	121.0	29.75
220.0	008.8758	0375.1	053.7	/	349.1	002.5897	0130.8	121.8	29.64
221.0	008.8326	0373.6	053.6	/	348.9	002.6137	0130.8	122.7	29.53
222.0	008.7896	0371.4	053.4	/	348.7	002.6348	0130.9	123.5	29.42
223.0	008.7467	0369.2	053.3	/	348.5	002.6551	0130.9	124.4	29.30
224.0	008.7039	0368.3	053.2	/	348.3	002.6773	0131.0	125.2	29.18
225.0	008.6612	0368.7	053.1	/	348.1	002.7019	0131.1	126.0	29.08
226.0	008.6559	0369.9	053.2	/	347.9	002.7289	0131.2	126.7	28.99
227.0	008.6506	0370.9	053.3	/	347.6	002.7549	0131.3	127.5	28.89
228.0	008.6453	0371.1	053.3	/	347.4	002.7780	0131.4	128.3	28.78
229.0	008.6399	0370.5	053.2	/	347.2	002.7982	0131.4	129.1	28.66
230.0	008.6346	0369.7	053.2	/	347.1	002.8169	0131.5	130.0	28.53
231.0	008.5417	0369.3	053.0	/	346.9	002.8314	0131.6	130.9	28.38
232.0	008.4494	0369.2	052.9	/	346.8	002.8457	0131.6	131.7	28.23
233.0	008.3575	0368.9	052.8	/	346.7	002.8587	0131.7	132.6	28.08
234.0	008.2661	0368.6	052.7	/	346.6	002.8707	0131.7	133.5	27.92
235.0	008.1752	0368.2	052.6	/	346.5	002.8814	0131.8	134.4	27.76
236.0	008.0849	0367.3	052.4	/	346.4	002.8899	0131.8	135.3	27.59
237.0	007.9950	0366.0	052.2	/	346.4	002.8963	0131.8	136.3	27.42
238.0	007.9056	0364.6	052.0	/	346.3	002.9016	0131.8	137.2	27.25
239.0	007.8168	0363.4	051.9	/	346.3	002.9064	0131.8	138.1	27.08
240.0	007.7284	0361.9	051.7	/	346.3	002.9097	0131.8	139.0	26.90
241.0	007.7184	0360.4	051.6	/	346.2	002.9161	0131.9	139.9	26.74
242.0	007.7083	0359.5	051.5	/	346.1	002.9236	0131.9	140.8	26.58
243.0	007.6982	0359.9	051.5	/	346.0	002.9335	0131.9	141.7	26.43

WUNTNew vs. New CP In Lee
RoadMap Ministries

FMCommander Single Allocation Study - 11-10-2011 - FCC NGDC 30 Sec
WUNTNew's Overlaps (In= 5.61 km, Out= 1.49 km)

WUNTNew CH 204 B1 DA
Lat= 41 36 33.3, Lng= 89 40 18.6
8.5 kW 127 M HAAT, 330.8 M COR
Prot.= 60 dBu, Intef.= 54 dBu

NONE-C CH 203 A DA BNPED20071022BIA
Lat= 41 44 18.0, Lng= 88 56 45.0
4.0 kW 90 M HAAT, 347 M COR
Prot.= 60 dBu, Intef.= 54 dBu



11-10-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WUNTNNew

NONE-C BNPED20071022BIA

Channel = 204B1

Max ERP = 8.5 kW

RCAMSL = 330.8 M

N. Lat. 41 36 33.3

W. Lng. 89 40 18.6

Protected

60 dBu

Channel = 203A

Max ERP = 4 kW

RCAMSL = 347 M

N. Lat. 41 44 18.0

W. Lng. 88 56 45.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
016.0	002.4694	0129.9	026.0	/	281.6	000.8003	0096.8	054.1	41.05	
017.0	002.5340	0130.0	026.1	/	281.7	000.7961	0096.9	053.6	41.22	
018.0	002.5994	0130.0	026.3	/	281.8	000.7928	0097.0	053.2	41.38	
019.0	002.6656	0129.8	026.4	/	281.9	000.7901	0097.1	052.7	41.55	
020.0	002.7327	0129.6	026.5	/	281.9	000.7879	0097.1	052.2	41.72	
021.0	002.8181	0129.4	026.7	/	282.0	000.7845	0097.2	051.7	41.89	
022.0	002.9049	0129.3	026.9	/	282.1	000.7812	0097.3	051.3	42.07	
023.0	002.9931	0129.2	027.1	/	282.2	000.7781	0097.3	050.8	42.24	
024.0	003.0825	0129.2	027.2	/	282.3	000.7754	0097.4	050.3	42.42	
025.0	003.1732	0129.2	027.4	/	282.4	000.7725	0097.5	049.8	42.60	
026.0	003.2653	0129.5	027.6	/	282.5	000.7696	0097.5	049.2	42.77	
027.0	003.3587	0129.6	027.8	/	282.6	000.7674	0097.6	048.7	42.96	
028.0	003.4534	0129.3	027.9	/	282.6	000.7669	0097.6	048.2	43.14	
029.0	003.5494	0128.9	028.1	/	282.6	000.7671	0097.6	047.7	43.33	
030.0	003.6467	0128.7	028.2	/	282.6	000.7673	0097.6	047.2	43.52	
031.0	003.7420	0128.6	028.4	/	282.6	000.7674	0097.6	046.7	43.72	
032.0	003.8385	0128.7	028.6	/	282.5	000.7675	0097.6	046.2	43.92	
033.0	003.9362	0128.9	028.7	/	282.5	000.7680	0097.6	045.6	44.12	
034.0	004.0351	0129.0	028.9	/	282.5	000.7689	0097.5	045.1	44.33	
035.0	004.1353	0129.1	029.1	/	282.5	000.7704	0097.5	044.6	44.55	
036.0	004.2367	0129.1	029.2	/	282.4	000.7727	0097.5	044.1	44.76	
037.0	004.3393	0129.0	029.4	/	282.3	000.7760	0097.4	043.5	44.99	
038.0	004.4432	0128.9	029.5	/	282.2	000.7801	0097.3	043.0	45.21	
039.0	004.5483	0128.8	029.7	/	282.0	000.7844	0097.2	042.5	45.44	
040.0	004.6546	0128.8	029.8	/	281.9	000.7892	0097.1	041.9	45.67	
041.0	004.6924	0128.7	029.9	/	281.6	000.7989	0096.8	041.5	45.90	
042.0	004.7304	0128.5	029.9	/	281.3	000.8101	0096.5	041.0	46.12	
043.0	004.7685	0128.1	029.9	/	280.9	000.8225	0096.1	040.6	46.34	
044.0	004.8068	0127.8	030.0	/	280.5	000.8355	0095.7	040.1	46.56	
045.0	004.8452	0127.5	030.0	/	280.1	000.8492	0095.3	039.7	46.78	
046.0	004.8838	0127.2	030.0	/	279.7	000.8662	0094.9	039.2	47.02	
047.0	004.9225	0126.8	030.0	/	279.3	000.8858	0094.5	038.8	47.26	
048.0	004.9614	0126.3	030.0	/	278.8	000.9073	0094.2	038.4	47.52	
049.0	005.0005	0125.8	030.0	/	278.3	000.9305	0094.0	038.0	47.78	
050.0	005.0396	0125.3	030.0	/	277.8	000.9545	0093.9	037.6	48.05	
051.0	004.9692	0125.0	029.9	/	277.1	000.9867	0093.7	037.3	48.30	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
052.0	004.8993	0124.9	029.8		276.4	001.0192	0093.3	037.0	48.54
053.0	004.8298	0124.8	029.7		275.7	001.0525	0093.0	036.7	48.77
054.0	004.7609	0124.9	029.6		275.0	001.0867	0092.6	036.5	48.99
055.0	004.6924	0125.0	029.5		274.3	001.1223	0092.3	036.2	49.22
056.0	004.6245	0125.1	029.4		273.5	001.1594	0091.9	036.0	49.43
057.0	004.5570	0125.0	029.3		272.8	001.1985	0091.6	035.7	49.64
058.0	004.4900	0124.7	029.2		272.0	001.2394	0091.3	035.5	49.84
059.0	004.4236	0124.4	029.1		271.2	001.2822	0091.1	035.4	50.04
060.0	004.3576	0124.0	028.9		270.4	001.3265	0090.8	035.2	50.23
061.0	004.2271	0123.6	028.7		269.5	001.3835	0090.5	035.2	50.40
062.0	004.0986	0123.5	028.5		268.6	001.4451	0090.3	035.2	50.59
063.0	003.9721	0124.1	028.3		267.7	001.5053	0090.0	035.1	50.77
064.0	003.8476	0125.0	028.2		266.9	001.5653	0089.6	035.0	50.94
065.0	003.7251	0125.9	028.1		266.1	001.6268	0088.8	034.9	51.06
066.0	003.6045	0126.5	028.0		265.3	001.6910	0088.1	034.9	51.16
067.0	003.4860	0126.7	027.8		264.4	001.7574	0087.3	034.9	51.24
068.0	003.3694	0126.8	027.6		263.5	001.8251	0085.7	035.0	51.21
069.0	003.2548	0126.8	027.4		262.7	001.8933	0083.5	035.1	51.10
070.0	003.1421	0126.7	027.1		261.9	001.9619	0081.4	035.2	50.98
071.0	003.0897	0126.8	027.0		261.1	002.0276	0079.3	035.2	50.90
072.0	003.0376	0126.8	026.9		260.3	002.0942	0077.4	035.2	50.82
073.0	002.9860	0126.7	026.8		259.5	002.1721	0075.6	035.3	50.76
074.0	002.9348	0126.7	026.7		258.7	002.2575	0074.0	035.3	50.72
075.0	002.8841	0126.7	026.6		258.0	002.3437	0072.4	035.4	50.67
076.0	002.8338	0126.7	026.5		257.2	002.4304	0071.0	035.5	50.63
077.0	002.7840	0126.8	026.4		256.5	002.5176	0070.2	035.6	50.64
078.0	002.7346	0126.8	026.3		255.8	002.6051	0069.7	035.7	50.69
079.0	002.6856	0126.9	026.2		255.0	002.6928	0069.2	035.8	50.73
080.0	002.6371	0127.0	026.1		254.3	002.7804	0068.9	036.0	50.76
081.0	002.5741	0126.9	026.0		253.6	002.8667	0068.6	036.2	50.77
082.0	002.5118	0126.7	025.8		253.0	002.9516	0068.2	036.4	50.77
083.0	002.4502	0126.5	025.7		252.3	003.0353	0067.9	036.6	50.75
084.0	002.3895	0126.3	025.5		251.7	003.1177	0067.6	036.9	50.73
085.0	002.3294	0126.3	025.4		251.1	003.1992	0067.4	037.1	50.72
086.0	002.2702	0126.3	025.2		250.5	003.2791	0067.2	037.4	50.70
087.0	002.2117	0126.2	025.1		249.9	003.3488	0067.0	037.7	50.66
088.0	002.1540	0126.2	024.9		249.3	003.3840	0066.9	037.9	50.57
089.0	002.0970	0126.2	024.8		248.8	003.4182	0066.8	038.2	50.50
090.0	002.0409	0126.2	024.6		248.3	003.4512	0066.8	038.5	50.41
091.0	001.9608	0125.5	024.3		247.8	003.4786	0066.8	038.9	50.28
092.0	001.8824	0124.4	024.0		247.5	003.5030	0066.7	039.4	50.13
093.0	001.8056	0123.4	023.7		247.1	003.5257	0066.7	039.9	49.97
094.0	001.7304	0122.4	023.4		246.8	003.5469	0066.7	040.3	49.82
095.0	001.6568	0121.7	023.1		246.5	003.5674	0066.7	040.8	49.67
096.0	001.5848	0121.1	022.8		246.2	003.5865	0066.7	041.2	49.53
097.0	001.5144	0120.5	022.6		245.9	003.6042	0066.7	041.6	49.38
098.0	001.4456	0119.7	022.3		245.7	003.6196	0066.7	042.1	49.23
099.0	001.3784	0119.0	022.0		245.5	003.6332	0066.8	042.6	49.07
100.0	001.3128	0118.2	021.6		245.3	003.6453	0066.8	043.1	48.92
101.0	001.2968	0117.2	021.5		245.0	003.6645	0066.9	043.4	48.82
102.0	001.2809	0115.9	021.3		244.7	003.6813	0067.0	043.8	48.72

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
103.0	001.2652	0114.6	021.1	/	244.5	003.6973	0067.1	044.1	48.63
104.0	001.2495	0113.5	021.0	/	244.3	003.7129	0067.2	044.5	48.53
105.0	001.2339	0113.0	020.9	/	244.0	003.7307	0067.5	044.8	48.46
106.0	001.2184	0112.4	020.8	/	243.7	003.7472	0067.7	045.1	48.39
107.0	001.2030	0111.4	020.6	/	243.5	003.7604	0067.9	045.5	48.30
108.0	001.1877	0110.0	020.4	/	243.4	003.7707	0068.1	045.9	48.20
109.0	001.1725	0108.5	020.2	/	243.3	003.7791	0068.3	046.3	48.09
110.0	001.1574	0107.0	020.0	/	243.1	003.7867	0068.4	046.7	47.98
111.0	001.1542	0105.6	019.9	/	243.0	003.7967	0068.7	047.0	47.89
112.0	001.1511	0104.4	019.7	/	242.8	003.8070	0068.9	047.4	47.81
113.0	001.1480	0103.3	019.6	/	242.7	003.8172	0069.1	047.7	47.73
114.0	001.1449	0102.5	019.5	/	242.5	003.8290	0069.4	048.0	47.67
115.0	001.1417	0102.3	019.5	/	242.3	003.8435	0069.7	048.3	47.62
116.0	001.1386	0102.6	019.5	/	242.0	003.8606	0070.1	048.6	47.59
117.0	001.1355	0103.3	019.6	/	241.8	003.8800	0070.6	048.8	47.57
118.0	001.1324	0104.0	019.6	/	241.5	003.8988	0071.0	049.1	47.55
119.0	001.1293	0104.5	019.6	/	241.2	003.9156	0071.3	049.4	47.51
120.0	001.1262	0104.7	019.6	/	241.0	003.9300	0071.5	049.7	47.45
121.0	001.1126	0104.7	019.6	/	240.9	003.9396	0071.7	050.0	47.36
122.0	001.0992	0104.7	019.5	/	240.8	003.9485	0071.8	050.3	47.27
123.0	001.0857	0104.8	019.5	/	240.6	003.9571	0071.9	050.6	47.18
124.0	001.0724	0105.3	019.5	/	240.5	003.9684	0072.0	050.9	47.10
125.0	001.0592	0106.4	019.5	/	240.3	003.9823	0072.2	051.2	47.03
126.0	001.0460	0107.6	019.6	/	240.0	003.9970	0072.3	051.5	46.96
127.0	001.0329	0108.6	019.6	/	239.9	004.0000	0072.3	051.8	46.86
128.0	001.0199	0109.3	019.6	/	239.7	004.0000	0072.4	052.1	46.76
129.0	001.0070	0109.8	019.6	/	239.6	004.0000	0072.4	052.5	46.65
130.0	000.9942	0110.3	019.6	/	239.5	004.0000	0072.4	052.8	46.54
131.0	001.0217	0110.7	019.7	/	239.2	004.0000	0072.4	053.1	46.45
132.0	001.0496	0111.0	019.9	/	238.9	004.0000	0072.3	053.3	46.34
133.0	001.0779	0111.2	020.0	/	238.7	004.0000	0072.3	053.6	46.24
134.0	001.1065	0111.2	020.2	/	238.4	004.0000	0072.2	053.9	46.13
135.0	001.1355	0111.2	020.3	/	238.2	004.0000	0072.1	054.3	46.01

11-10-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

NONE-C BNPED20071022BIA

WUNTNew

Channel = 203A

Max ERP = 4 kW

RCAMSL = 347 M

N. Lat. 41 44 18.0

W. Lng. 88 56 45.0

Protected

60 dBu

Channel = 204B1

Max ERP = 8.5 kW

RCAMSL = 330.8 M

N. Lat. 41 36 33.3

W. Lng. 89 40 18.6

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
197.0	001.8567	0093.4	020.9	/	095.8	001.6009	0121.2	054.6	45.45	
198.0	001.8725	0092.0	020.8	/	095.6	001.6152	0121.3	054.2	45.63	
199.0	001.8884	0090.5	020.7	/	095.4	001.6308	0121.4	053.9	45.80	
200.0	001.9044	0089.1	020.6	/	095.1	001.6468	0121.6	053.6	45.98	
201.0	001.9499	0087.8	020.5	/	095.0	001.6566	0121.7	053.3	46.14	
202.0	001.9960	0086.8	020.5	/	094.9	001.6652	0121.8	052.9	46.30	
203.0	002.0426	0085.9	020.5	/	094.8	001.6735	0121.8	052.6	46.46	
204.0	002.0898	0084.7	020.5	/	094.6	001.6844	0121.9	052.2	46.62	
205.0	002.1374	0083.2	020.4	/	094.4	001.6996	0122.1	051.9	46.79	
206.0	002.1857	0081.6	020.3	/	094.2	001.7167	0122.2	051.6	46.96	
207.0	002.2344	0080.2	020.3	/	094.0	001.7336	0122.4	051.3	47.13	
208.0	002.2837	0078.6	020.2	/	093.7	001.7528	0122.6	051.0	47.30	
209.0	002.3336	0076.8	020.0	/	093.4	001.7748	0122.9	050.8	47.47	
210.0	002.3839	0075.3	019.9	/	093.1	001.7951	0123.2	050.5	47.65	
211.0	002.5072	0074.4	020.1	/	093.1	001.7984	0123.3	050.1	47.80	
212.0	002.6335	0073.8	020.3	/	093.1	001.7996	0123.3	049.7	47.96	
213.0	002.7629	0072.9	020.4	/	093.0	001.8060	0123.4	049.4	48.12	
214.0	002.8954	0071.5	020.4	/	092.8	001.8192	0123.6	049.1	48.29	
215.0	003.0311	0069.9	020.4	/	092.6	001.8348	0123.8	048.7	48.46	
216.0	003.1698	0068.4	020.4	/	092.4	001.8511	0124.0	048.4	48.63	
217.0	003.3117	0067.0	020.5	/	092.2	001.8677	0124.2	048.1	48.80	
218.0	003.4566	0065.6	020.5	/	092.0	001.8850	0124.5	047.8	48.97	
219.0	003.6047	0064.4	020.5	/	091.8	001.9019	0124.7	047.5	49.14	
220.0	003.7558	0063.6	020.6	/	091.6	001.9165	0124.9	047.2	49.32	
221.0	003.7799	0063.0	020.5	/	091.2	001.9418	0125.3	046.9	49.49	
222.0	003.8041	0062.7	020.5	/	090.9	001.9650	0125.6	046.7	49.67	
223.0	003.8283	0062.5	020.5	/	090.7	001.9877	0125.9	046.4	49.84	
224.0	003.8526	0062.7	020.6	/	090.4	002.0075	0126.1	046.1	50.02	
225.0	003.8770	0063.5	020.7	/	090.2	002.0224	0126.2	045.7	50.20	
226.0	003.9014	0064.8	021.0	/	090.1	002.0323	0126.2	045.3	50.39	
227.0	003.9259	0066.3	021.2	/	090.0	002.0417	0126.2	044.9	50.59	
228.0	003.9506	0067.5	021.4	/	089.8	002.0511	0126.2	044.5	50.78	
229.0	003.9752	0068.3	021.6	/	089.6	002.0643	0126.2	044.1	50.95	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
230.0	004.0000	0068.8	021.7	/	089.3	002.0808	0126.2	043.8	51.12
231.0	004.0000	0069.2	021.7	/	088.9	002.1003	0126.2	043.5	51.28
232.0	004.0000	0069.4	021.8	/	088.6	002.1213	0126.2	043.3	51.43
233.0	004.0000	0069.6	021.8	/	088.2	002.1433	0126.2	043.0	51.58
234.0	004.0000	0069.8	021.8	/	087.8	002.1658	0126.2	042.8	51.73
235.0	004.0000	0070.1	021.9	/	087.4	002.1886	0126.2	042.5	51.88
236.0	004.0000	0070.7	021.9	/	087.0	002.2108	0126.2	042.3	52.04
237.0	004.0000	0071.3	022.0	/	086.6	002.2332	0126.2	042.0	52.20
238.0	004.0000	0071.9	022.1	/	086.2	002.2566	0126.2	041.7	52.36
239.0	004.0000	0072.4	022.2	/	085.8	002.2821	0126.3	041.5	52.51
240.0	004.0000	0072.3	022.2	/	085.3	002.3109	0126.3	041.3	52.64
241.0	003.9315	0071.5	022.0	/	084.7	002.3465	0126.3	041.3	52.70
242.0	003.8636	0070.2	021.7	/	084.1	002.3849	0126.3	041.4	52.73
243.0	003.7963	0068.7	021.4	/	083.4	002.4237	0126.4	041.6	52.74
244.0	003.7295	0067.4	021.1	/	082.8	002.4605	0126.5	041.7	52.76
245.0	003.6634	0066.9	020.9	/	082.3	002.4945	0126.7	041.8	52.80
246.0	003.5978	0066.7	020.8	/	081.8	002.5271	0126.8	041.8	52.86
247.0	003.5329	0066.7	020.7	/	081.2	002.5590	0126.9	041.8	52.93
248.0	003.4685	0066.8	020.7	/	080.7	002.5909	0126.9	041.8	52.99
249.0	003.4048	0066.8	020.6	/	080.2	002.6230	0127.0	041.8	53.04
250.0	003.3416	0067.0	020.5	/	079.7	002.6505	0127.0	041.8	53.09
251.0	003.2070	0067.3	020.3	/	079.2	002.6757	0126.9	041.9	53.08
252.0	003.0751	0067.7	020.2	/	078.7	002.7005	0126.9	042.0	53.08
253.0	002.9460	0068.2	020.0	/	078.2	002.7248	0126.9	042.1	53.07
254.0	002.8197	0068.7	019.9	/	077.7	002.7489	0126.8	042.2	53.05
255.0	002.6962	0069.2	019.7	/	077.2	002.7727	0126.8	042.3	53.03
256.0	002.5754	0069.8	019.6	/	076.8	002.7961	0126.7	042.4	53.01
257.0	002.4574	0070.7	019.5	/	076.3	002.8191	0126.7	042.6	53.00
258.0	002.3421	0072.4	019.5	/	075.8	002.8420	0126.7	042.6	53.03
259.0	002.2296	0074.5	019.5	/	075.4	002.8651	0126.7	042.5	53.07
260.0	002.1199	0076.7	019.6	/	074.9	002.8885	0126.7	042.5	53.11
261.0	002.0346	0079.1	019.7	/	074.4	002.9125	0126.7	042.5	53.18
262.0	001.9511	0081.7	019.8	/	074.0	002.9370	0126.7	042.4	53.25
263.0	001.8692	0084.3	019.9	/	073.5	002.9617	0126.7	042.3	53.31
264.0	001.7892	0086.6	020.0	/	073.0	002.9863	0126.7	042.3	53.35
265.0	001.7109	0087.9	019.9	/	072.6	003.0091	0126.7	042.5	53.32
266.0	001.6343	0088.7	019.8	/	072.1	003.0307	0126.8	042.7	53.27
267.0	001.5595	0089.6	019.6	/	071.7	003.0517	0126.8	042.9	53.21
268.0	001.4864	0090.1	019.5	/	071.4	003.0711	0126.8	043.1	53.13
269.0	001.4151	0090.4	019.3	/	071.0	003.0894	0126.8	043.4	53.03
270.0	001.3456	0090.7	019.0	/	070.7	003.1067	0126.8	043.7	52.92
271.0	001.2914	0091.0	018.9	/	070.3	003.1242	0126.8	044.0	52.84
272.0	001.2383	0091.3	018.7	/	070.0	003.1410	0126.7	044.3	52.74
273.0	001.1864	0091.7	018.5	/	069.7	003.1744	0126.7	044.5	52.67
274.0	001.1355	0092.2	018.4	/	069.4	003.2078	0126.7	044.8	52.61
275.0	001.0858	0092.6	018.2	/	069.1	003.2396	0126.8	045.1	52.53
276.0	001.0371	0093.1	018.0	/	068.9	003.2702	0126.8	045.4	52.46
277.0	000.9896	0093.6	017.9	/	068.6	003.2990	0126.8	045.7	52.38
278.0	000.9432	0093.9	017.7	/	068.4	003.3244	0126.8	046.0	52.28
279.0	000.8979	0094.3	017.5	/	068.2	003.3489	0126.8	046.3	52.18
280.0	000.8538	0095.2	017.3	/	068.0	003.3748	0126.8	046.6	52.10

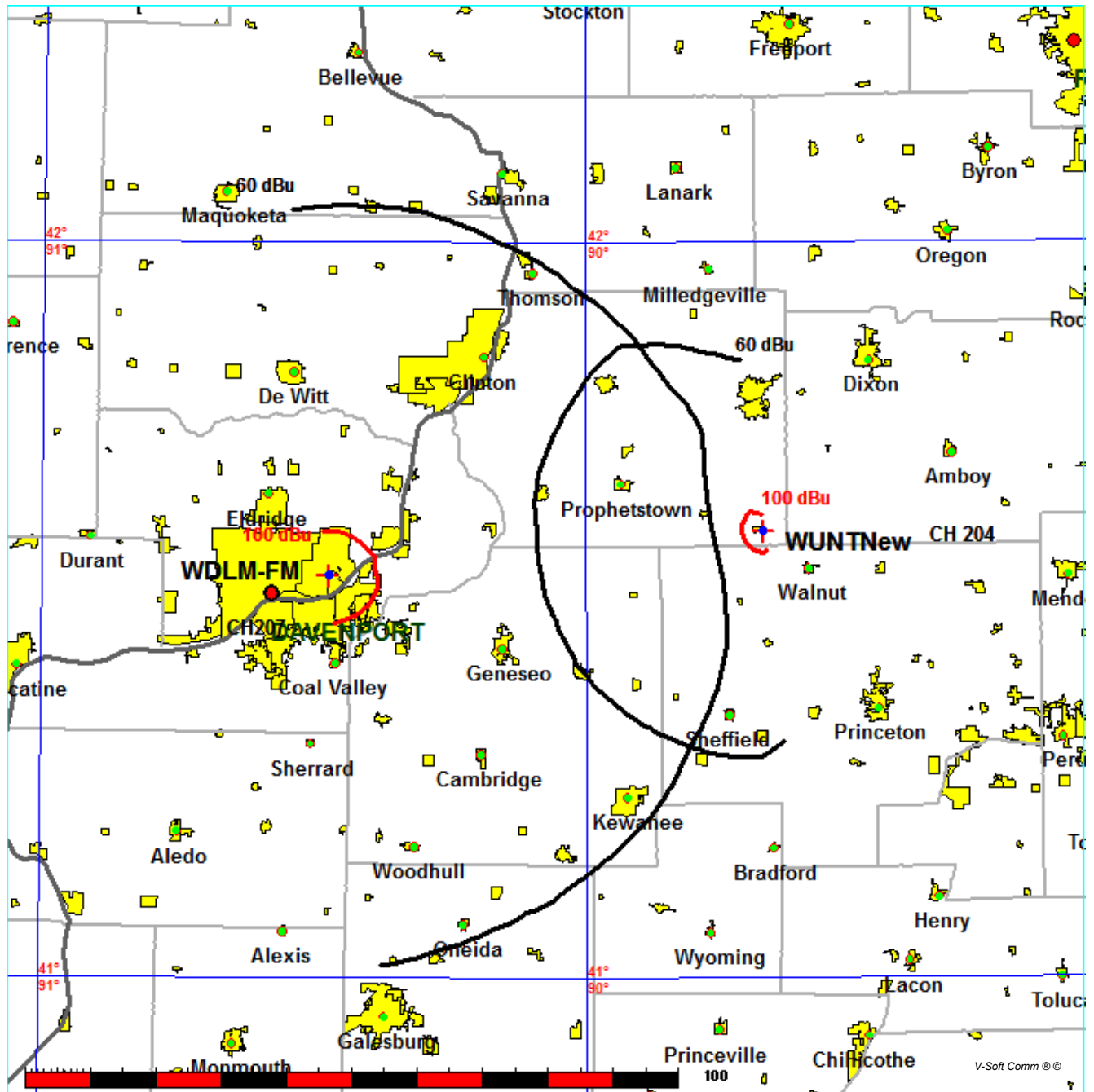
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
281.0	000.8194	0096.2	017.2		067.7	003.4044	0126.8	046.8	52.04
282.0	000.7857	0097.2	017.1		067.5	003.4324	0126.8	047.1	51.98
283.0	000.7527	0097.8	017.0		067.3	003.4562	0126.7	047.4	51.90
284.0	000.7205	0098.3	016.9		067.1	003.4769	0126.7	047.7	51.81
285.0	000.6889	0098.6	016.7		066.9	003.4944	0126.7	048.0	51.70
286.0	000.6580	0098.7	016.5		066.8	003.5082	0126.7	048.3	51.58
287.0	000.6279	0098.7	016.2		066.7	003.5198	0126.7	048.7	51.46
288.0	000.5985	0098.8	016.0		066.6	003.5298	0126.7	049.0	51.34
289.0	000.5697	0098.9	015.8		066.5	003.5393	0126.6	049.4	51.22
290.0	000.5417	0099.1	015.6		066.5	003.5480	0126.6	049.7	51.10
291.0	000.5198	0099.4	015.5		066.4	003.5605	0126.6	050.0	50.99
292.0	000.4984	0099.8	015.3		066.3	003.5728	0126.6	050.3	50.89
293.0	000.4775	0100.2	015.2		066.2	003.5840	0126.5	050.6	50.79
294.0	000.4570	0100.5	015.0		066.1	003.5934	0126.5	050.9	50.69
295.0	000.4369	0100.8	014.9		066.0	003.6019	0126.5	051.2	50.58
296.0	000.4173	0101.2	014.7		066.0	003.6092	0126.5	051.5	50.48
297.0	000.3982	0101.4	014.6		065.9	003.6145	0126.4	051.8	50.36
298.0	000.3795	0101.6	014.4		065.9	003.6184	0126.4	052.1	50.25
299.0	000.3612	0101.7	014.2		065.9	003.6205	0126.4	052.4	50.13
300.0	000.3434	0101.7	014.0		065.9	003.6202	0126.4	052.7	50.01
301.0	000.3297	0101.6	013.9		065.8	003.6234	0126.4	053.0	49.91
302.0	000.3163	0101.5	013.7		065.8	003.6251	0126.4	053.2	49.80
303.0	000.3032	0101.1	013.6		065.8	003.6240	0126.4	053.5	49.68
304.0	000.2903	0100.5	013.4		065.9	003.6205	0126.4	053.8	49.57
305.0	000.2777	0099.8	013.2		065.9	003.6151	0126.4	054.1	49.44
306.0	000.2654	0099.0	013.0		066.0	003.6083	0126.5	054.4	49.32
307.0	000.2534	0098.4	012.8		066.0	003.6030	0126.5	054.7	49.21
308.0	000.2417	0098.1	012.6		066.1	003.5982	0126.5	055.0	49.10
309.0	000.2302	0097.9	012.5		066.1	003.5935	0126.5	055.2	48.99
310.0	000.2190	0097.8	012.3		066.1	003.5886	0126.5	055.5	48.88
311.0	000.2153	0097.7	012.3		066.1	003.5941	0126.5	055.7	48.81
312.0	000.2116	0097.6	012.2		066.0	003.5992	0126.5	055.9	48.73
313.0	000.2079	0097.6	012.2		066.0	003.6041	0126.5	056.2	48.65
314.0	000.2043	0097.7	012.1		066.0	003.6090	0126.5	056.4	48.58
315.0	000.2007	0097.8	012.1		065.9	003.6135	0126.4	056.6	48.50
316.0	000.1971	0098.0	012.0		065.9	003.6175	0126.4	056.8	48.42

*WUNTNew vs. WDLM-FM
RoadMap Ministries*

*FMCommander Single Allocation Study - 11-10-2011 - FCC NGDC 30 Sec
WUNTNew's Overlaps (In= 24.98 km, Out= 4.36 km)*

*WUNTNew CH 204 B1 DA
Lat= 41 36 33.3, Lng= 89 40 18.6
8.5 kW 127 M HAAT, 330.8 M COR
Prot.= 60 dBu, Intef.= 100 dBu*

*WDLM-FM CH 207 C1 BLED19791219AA
Lat= 41 32 52.0, Lng= 90 28 30.0
100.0 kW 152 M HAAT, 354 M COR
Prot.= 60 dBu, Intef.= 100 dBu*



11-10-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WUNTNNew

WDLM-FM BLED19791219AA

Channel = 204B1

Max ERP = 8.5 kW

RCAMSL = 330.8 M

N. Lat. 41 36 33.3

W. Lng. 89 40 18.6

Protected

60 dBu

Channel = 207C1

Max ERP = 100 kW

RCAMSL = 354 M

N. Lat. 41 32 52.0

W. Lng. 90 28 30.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
204.0	008.5000	0130.8	034.7	/	115.0	100.0000	0174.4	058.4	64.74	
205.0	008.5000	0130.8	034.7	/	115.0	100.0000	0174.4	057.8	64.95	
206.0	008.5000	0130.8	034.7	/	115.0	100.0000	0174.4	057.2	65.18	
207.0	008.5000	0130.8	034.7	/	115.0	100.0000	0174.4	056.6	65.40	
208.0	008.5000	0131.0	034.7	/	115.0	100.0000	0174.4	056.0	65.63	
209.0	008.5000	0131.2	034.7	/	115.0	100.0000	0174.4	055.4	65.86	
210.0	008.5000	0131.3	034.7	/	114.9	100.0000	0174.4	054.8	66.09	
211.0	008.5000	0131.5	034.7	/	114.9	100.0000	0174.4	054.2	66.32	
212.0	008.5000	0131.8	034.8	/	114.9	100.0000	0174.4	053.6	66.55	
213.0	008.5000	0132.2	034.8	/	114.8	100.0000	0174.4	053.0	66.79	
214.0	008.5000	0132.2	034.8	/	114.7	100.0000	0174.5	052.4	67.02	
215.0	008.5000	0132.0	034.8	/	114.6	100.0000	0174.5	051.8	67.25	
216.0	008.5000	0132.1	034.8	/	114.5	100.0000	0174.6	051.2	67.49	
217.0	008.5000	0132.4	034.8	/	114.4	100.0000	0174.6	050.6	67.72	
218.0	008.5000	0132.4	034.8	/	114.2	100.0000	0174.7	050.0	67.96	
219.0	008.5000	0132.1	034.8	/	114.0	100.0000	0174.9	049.4	68.19	
220.0	008.5000	0132.0	034.8	/	113.8	100.0000	0175.1	048.8	68.42	
221.0	008.5000	0132.2	034.8	/	113.6	100.0000	0175.3	048.2	68.66	
222.0	008.5000	0132.5	034.9	/	113.5	100.0000	0175.5	047.6	68.90	
223.0	008.5000	0132.9	034.9	/	113.3	100.0000	0175.8	047.1	69.15	
224.0	008.5000	0133.2	034.9	/	113.1	100.0000	0176.0	046.5	69.40	
225.0	008.5000	0133.5	035.0	/	112.8	100.0000	0176.4	045.9	69.65	
226.0	008.5000	0133.9	035.0	/	112.6	100.0000	0176.7	045.3	69.91	
227.0	008.5000	0134.3	035.1	/	112.3	100.0000	0177.1	044.7	70.17	
228.0	008.5000	0134.6	035.1	/	112.0	100.0000	0177.5	044.2	70.43	
229.0	008.5000	0134.7	035.1	/	111.7	100.0000	0177.9	043.6	70.69	
230.0	008.5000	0134.6	035.1	/	111.3	100.0000	0178.4	043.1	70.95	
231.0	008.5000	0134.4	035.1	/	110.9	100.0000	0178.8	042.5	71.20	
232.0	008.5000	0134.4	035.1	/	110.4	100.0000	0179.1	042.0	71.46	
233.0	008.5000	0134.5	035.1	/	110.0	100.0000	0179.4	041.5	71.71	
234.0	008.5000	0134.9	035.1	/	109.6	100.0000	0179.6	041.0	71.97	
235.0	008.5000	0135.1	035.2	/	109.1	100.0000	0179.9	040.4	72.22	
236.0	008.5000	0135.0	035.2	/	108.6	100.0000	0180.3	039.9	72.47	
237.0	008.5000	0134.6	035.1	/	108.0	100.0000	0180.7	039.5	72.70	
238.0	008.5000	0134.1	035.0	/	107.4	100.0000	0181.0	039.1	72.93	
239.0	008.5000	0133.7	035.0	/	106.7	100.0000	0181.3	038.6	73.15	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
240.0	008.5000	0133.3	035.0	/	106.1	100.0000	0181.6	038.2	73.37
241.0	008.5000	0133.1	034.9	/	105.4	100.0000	0181.8	037.8	73.58
242.0	008.5000	0133.1	034.9	/	104.7	100.0000	0182.1	037.4	73.80
243.0	008.5000	0133.0	034.9	/	104.0	100.0000	0182.3	037.0	74.01
244.0	008.5000	0133.0	034.9	/	103.3	100.0000	0182.5	036.6	74.21
245.0	008.5000	0132.8	034.9	/	102.5	100.0000	0182.6	036.2	74.40
246.0	008.5000	0132.4	034.8	/	101.7	100.0000	0182.3	035.9	74.56
247.0	008.5000	0132.1	034.8	/	100.9	100.0000	0182.0	035.6	74.70
248.0	008.5000	0132.1	034.8	/	100.0	100.0000	0181.4	035.2	74.85
249.0	008.5000	0132.5	034.9	/	099.2	100.0000	0180.6	034.9	74.99
250.0	008.5000	0133.2	034.9	/	098.4	100.0000	0179.5	034.5	75.13
251.0	008.5000	0133.8	035.0	/	097.6	100.0000	0178.1	034.1	75.25
252.0	008.5000	0134.1	035.1	/	096.7	100.0000	0176.6	033.8	75.34
253.0	008.5000	0134.2	035.1	/	095.7	100.0000	0174.8	033.6	75.38
254.0	008.5000	0134.0	035.0	/	094.7	100.0000	0172.8	033.4	75.39
255.0	008.5000	0133.9	035.0	/	093.7	100.0000	0171.1	033.2	75.42
256.0	008.5000	0133.7	035.0	/	092.7	100.0000	0170.1	033.0	75.45
257.0	008.5000	0133.5	035.0	/	091.7	100.0000	0168.5	032.9	75.44
258.0	008.5000	0133.2	034.9	/	090.6	100.0000	0166.8	032.8	75.41
259.0	008.5000	0133.2	034.9	/	089.6	100.0000	0165.0	032.6	75.39
260.0	008.5000	0133.4	035.0	/	088.5	100.0000	0163.3	032.5	75.36
261.0	008.5000	0133.5	035.0	/	087.5	100.0000	0161.6	032.4	75.32
262.0	008.5000	0133.5	035.0	/	086.4	100.0000	0160.2	032.3	75.28
263.0	008.5000	0133.4	035.0	/	085.3	100.0000	0158.9	032.3	75.21
264.0	008.5000	0133.6	035.0	/	084.2	100.0000	0158.0	032.3	75.19
265.0	008.5000	0133.8	035.0	/	083.1	100.0000	0157.1	032.3	75.14
266.0	008.5000	0134.0	035.0	/	082.1	100.0000	0156.4	032.3	75.10
267.0	008.5000	0133.6	035.0	/	081.0	100.0000	0156.2	032.3	75.04
268.0	008.5000	0133.2	034.9	/	079.9	100.0000	0156.2	032.5	74.98
269.0	008.5000	0132.7	034.9	/	078.9	100.0000	0156.7	032.6	74.92
270.0	008.5000	0132.7	034.9	/	077.8	100.0000	0157.2	032.7	74.90
271.0	008.5000	0133.6	035.0	/	076.7	100.0000	0157.9	032.8	74.92
272.0	008.5000	0134.5	035.1	/	075.7	100.0000	0158.9	032.8	74.95
273.0	008.5000	0135.4	035.2	/	074.6	100.0000	0160.4	032.9	74.99
274.0	008.5000	0135.9	035.3	/	073.5	100.0000	0162.6	033.0	75.03
275.0	008.5000	0136.7	035.4	/	072.5	100.0000	0165.3	033.2	75.11
276.0	008.5000	0137.7	035.5	/	071.4	100.0000	0168.3	033.3	75.20
277.0	008.5000	0138.5	035.6	/	070.4	100.0000	0170.8	033.5	75.23
278.0	008.5000	0138.7	035.6	/	069.4	100.0000	0172.5	033.8	75.18
279.0	008.5000	0138.5	035.6	/	068.5	100.0000	0173.2	034.1	75.05
280.0	008.5000	0138.2	035.5	/	067.7	100.0000	0172.8	034.4	74.85
281.0	008.5000	0138.4	035.6	/	066.8	100.0000	0171.6	034.7	74.63
282.0	008.5000	0138.9	035.6	/	065.9	100.0000	0169.9	035.1	74.38
283.0	008.5000	0139.2	035.6	/	065.0	100.0000	0168.1	035.4	74.12
284.0	008.5000	0139.2	035.6	/	064.3	100.0000	0166.3	035.8	73.83
285.0	008.5000	0138.7	035.6	/	063.6	100.0000	0164.6	036.2	73.52
286.0	008.5000	0138.2	035.5	/	062.9	100.0000	0163.1	036.7	73.21
287.0	008.5000	0137.8	035.5	/	062.2	100.0000	0161.6	037.1	72.91
288.0	008.5000	0137.5	035.4	/	061.6	100.0000	0160.3	037.6	72.61
289.0	008.5000	0137.2	035.4	/	061.0	100.0000	0159.1	038.1	72.31
290.0	008.5000	0137.0	035.4	/	060.4	100.0000	0158.1	038.6	72.03

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
291.0	008.5000	0137.1	035.4	/	059.8	100.0000	0157.1	039.0	71.76
292.0	008.5000	0137.2	035.4	/	059.3	100.0000	0156.3	039.5	71.49
293.0	008.5000	0137.1	035.4	/	058.7	100.0000	0155.6	040.0	71.22
294.0	008.5000	0136.7	035.3	/	058.3	100.0000	0155.1	040.5	70.94
295.0	008.5000	0136.3	035.3	/	057.8	100.0000	0154.6	041.1	70.68
296.0	008.5000	0136.0	035.3	/	057.4	100.0000	0154.3	041.6	70.42
297.0	008.5000	0136.0	035.3	/	057.0	100.0000	0154.1	042.1	70.17
298.0	008.5000	0136.0	035.3	/	056.6	100.0000	0153.9	042.7	69.92
299.0	008.5000	0136.1	035.3	/	056.2	100.0000	0153.8	043.2	69.68
300.0	008.5000	0136.2	035.3	/	055.8	100.0000	0153.7	043.7	69.44
301.0	008.5000	0136.3	035.3	/	055.4	100.0000	0153.7	044.3	69.20
302.0	008.5000	0136.3	035.3	/	055.1	100.0000	0153.7	044.8	68.96
303.0	008.5000	0136.3	035.3	/	054.8	100.0000	0153.7	045.4	68.73
304.0	008.5000	0136.2	035.3	/	054.5	100.0000	0153.7	046.0	68.49
305.0	008.5000	0136.2	035.3	/	054.3	100.0000	0153.7	046.6	68.25
306.0	008.5000	0136.3	035.3	/	054.0	100.0000	0153.7	047.1	68.02
307.0	008.5000	0136.6	035.3	/	053.7	100.0000	0153.7	047.7	67.79
308.0	008.5000	0137.0	035.4	/	053.5	100.0000	0153.6	048.3	67.56
309.0	008.5000	0137.6	035.5	/	053.2	100.0000	0153.5	048.9	67.33
310.0	008.5000	0138.0	035.5	/	053.0	100.0000	0153.3	049.5	67.10
311.0	008.5000	0138.4	035.5	/	052.8	100.0000	0153.2	050.1	66.86
312.0	008.5000	0138.3	035.5	/	052.6	100.0000	0153.2	050.7	66.62
313.0	008.5000	0138.0	035.5	/	052.5	100.0000	0153.1	051.3	66.38
314.0	008.5000	0137.6	035.5	/	052.5	100.0000	0153.1	051.9	66.14
315.0	008.5000	0137.4	035.4	/	052.4	100.0000	0153.0	052.5	65.91
316.0	008.5000	0137.3	035.4	/	052.3	100.0000	0153.0	053.1	65.67
317.0	008.5000	0137.3	035.4	/	052.3	100.0000	0152.9	053.7	65.43
318.0	008.5000	0137.4	035.4	/	052.2	100.0000	0152.9	054.3	65.19
319.0	008.5000	0137.5	035.4	/	052.1	100.0000	0152.8	055.0	64.96
320.0	008.5000	0137.5	035.4	/	052.1	100.0000	0152.8	055.6	64.72
321.0	008.5000	0137.3	035.4	/	052.1	100.0000	0152.8	056.2	64.49
322.0	008.4052	0136.9	035.3	/	052.2	100.0000	0152.9	056.8	64.26
323.0	008.0269	0136.3	034.9	/	052.6	100.0000	0153.2	057.4	64.05

11-10-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WDLN-FM BLED19791219AA

WUNTNW

Channel = 207C1

Max ERP = 100 kW

RCAMSL = 354 M

N. Lat. 41 32 52.0

W. Lng. 90 28 30.0

Protected

60 dBu

Channel = 204B1

Max ERP = 8.5 kW

RCAMSL = 330.8 M

N. Lat. 41 36 33.3

W. Lng. 89 40 18.6

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
024.0	100.0000	0137.6	056.8	/	316.1	008.5000	0137.3	062.7	50.58	
025.0	100.0000	0137.4	056.7	/	316.5	008.5000	0137.3	061.7	50.92	
026.0	100.0000	0136.9	056.7	/	316.7	008.5000	0137.3	060.8	51.26	
027.0	100.0000	0136.7	056.6	/	317.0	008.5000	0137.3	059.9	51.59	
028.0	100.0000	0137.0	056.7	/	317.4	008.5000	0137.3	058.9	51.93	
029.0	100.0000	0137.8	056.8	/	317.8	008.5000	0137.4	058.0	52.26	
030.0	100.0000	0138.6	056.9	/	318.2	008.5000	0137.4	057.1	52.60	
031.0	100.0000	0139.3	057.0	/	318.6	008.5000	0137.4	056.2	52.95	
032.0	100.0000	0139.7	057.1	/	319.0	008.5000	0137.5	055.3	53.31	
033.0	100.0000	0139.8	057.1	/	319.3	008.5000	0137.5	054.3	53.67	
034.0	100.0000	0140.0	057.1	/	319.6	008.5000	0137.5	053.4	54.04	
035.0	100.0000	0140.4	057.2	/	319.9	008.5000	0137.5	052.5	54.40	
036.0	100.0000	0141.0	057.2	/	320.3	008.5000	0137.5	051.5	54.77	
037.0	100.0000	0141.8	057.4	/	320.6	008.5000	0137.4	050.6	55.13	
038.0	100.0000	0142.4	057.4	/	321.0	008.5000	0137.3	049.6	55.50	
039.0	100.0000	0142.4	057.4	/	321.2	008.4778	0137.2	048.6	55.86	
040.0	100.0000	0142.0	057.4	/	321.4	008.4629	0137.2	047.6	56.24	
041.0	100.0000	0141.8	057.4	/	321.6	008.4441	0137.1	046.7	56.61	
042.0	100.0000	0142.7	057.5	/	321.9	008.4111	0136.9	045.7	56.98	
043.0	100.0000	0144.1	057.7	/	322.4	008.2556	0136.7	044.7	57.28	
044.0	100.0000	0145.7	057.9	/	322.9	008.0756	0136.4	043.8	57.58	
045.0	100.0000	0147.0	058.1	/	323.3	007.9233	0136.2	042.8	57.90	
046.0	100.0000	0147.9	058.2	/	323.6	007.8041	0135.9	041.8	58.25	
047.0	100.0000	0148.3	058.2	/	323.9	007.7174	0135.8	040.8	58.64	
048.0	100.0000	0148.7	058.3	/	324.1	007.6373	0135.6	039.8	59.04	
049.0	100.0000	0149.5	058.4	/	324.4	007.5378	0135.4	038.8	59.43	
050.0	100.0000	0150.7	058.6	/	324.7	007.4136	0135.2	037.8	59.81	
051.0	100.0000	0151.9	058.7	/	325.1	007.2965	0135.0	036.8	60.20	
052.0	100.0000	0152.8	058.8	/	325.3	007.2057	0134.9	035.8	60.62	
053.0	100.0000	0153.4	058.9	/	325.5	007.1392	0134.8	034.8	61.07	
054.0	100.0000	0153.7	058.9	/	325.7	007.0991	0134.8	033.8	61.55	
055.0	100.0000	0153.7	058.9	/	325.7	007.0912	0134.8	032.7	62.06	
056.0	100.0000	0153.7	059.0	/	325.7	007.0912	0134.8	031.7	62.58	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
057.0	100.0000	0154.1	059.0	/	325.7	007.0778	0134.8	030.7	63.12
058.0	100.0000	0154.8	059.1	/	325.8	007.0473	0134.8	029.6	63.69
059.0	100.0000	0156.0	059.2	/	326.0	006.9871	0134.9	028.6	64.27
060.0	100.0000	0157.4	059.4	/	326.2	006.9188	0134.9	027.6	64.89
061.0	100.0000	0159.1	059.6	/	326.5	006.8346	0135.0	026.5	65.53
062.0	100.0000	0161.1	059.9	/	326.8	006.7310	0135.3	025.5	66.20
063.0	100.0000	0163.3	060.1	/	327.2	006.6207	0135.6	024.4	66.90
064.0	100.0000	0165.7	060.4	/	327.5	006.5139	0136.0	023.3	67.64
065.0	100.0000	0168.0	060.7	/	327.9	006.4176	0136.3	022.2	68.40
066.0	100.0000	0170.2	060.9	/	328.1	006.3480	0136.5	021.2	69.20
067.0	100.0000	0172.0	061.1	/	328.2	006.3227	0136.5	020.1	70.03
068.0	100.0000	0173.0	061.2	/	328.0	006.3815	0136.4	019.0	70.91
069.0	100.0000	0172.9	061.2	/	327.3	006.5847	0135.7	018.0	71.85
070.0	100.0000	0171.6	061.1	/	326.1	006.9705	0134.9	017.0	72.87
071.0	100.0000	0169.4	060.8	/	324.3	007.5782	0135.5	016.0	74.07
072.0	100.0000	0166.7	060.5	/	321.9	008.4108	0136.9	015.1	75.38
073.0	100.0000	0163.9	060.2	/	319.2	008.5000	0137.5	014.2	76.28
074.0	100.0000	0161.5	059.9	/	316.3	008.5000	0137.3	013.4	77.28
075.0	100.0000	0159.7	059.7	/	313.2	008.5000	0137.9	012.6	78.40
076.0	100.0000	0158.6	059.6	/	309.9	008.5000	0138.0	011.8	79.56
077.0	100.0000	0157.7	059.5	/	306.2	008.5000	0136.4	011.1	80.61
078.0	100.0000	0157.1	059.4	/	302.1	008.5000	0136.3	010.4	81.78
079.0	100.0000	0156.6	059.3	/	297.4	008.5000	0136.0	009.8	82.88
080.0	100.0000	0156.2	059.3	/	292.1	008.5000	0137.2	009.2	83.98
081.0	100.0000	0156.2	059.3	/	286.3	008.5000	0138.1	008.7	84.99
082.0	100.0000	0156.4	059.3	/	279.9	008.5000	0138.2	008.3	85.78
083.0	100.0000	0157.0	059.4	/	273.0	008.5000	0135.4	008.0	86.25
084.0	100.0000	0157.9	059.5	/	265.5	008.5000	0133.9	007.8	86.60
085.0	100.0000	0158.6	059.6	/	257.9	008.5000	0133.2	007.8	86.62
086.0	100.0000	0159.7	059.7	/	250.2	008.5000	0133.3	007.9	86.46
087.0	100.0000	0161.0	059.9	/	242.7	008.5000	0133.0	008.1	85.98
088.0	100.0000	0162.4	060.0	/	235.8	008.5000	0135.1	008.4	85.39
089.0	100.0000	0164.1	060.2	/	229.4	008.5000	0134.7	008.9	84.45
090.0	100.0000	0165.7	060.4	/	223.8	008.5000	0133.2	009.5	83.24
091.0	100.0000	0167.4	060.6	/	219.0	008.5000	0132.1	010.2	81.94
092.0	100.0000	0169.0	060.8	/	214.9	008.5000	0132.0	010.9	80.63
093.0	100.0000	0170.4	060.9	/	211.5	008.5000	0131.6	011.8	79.27
094.0	100.0000	0171.5	061.0	/	208.8	008.5000	0131.1	012.7	77.90
095.0	100.0000	0173.3	061.2	/	206.2	008.5000	0130.8	013.6	76.66
096.0	100.0000	0175.3	061.4	/	203.9	008.5000	0130.8	014.5	75.52
097.0	100.0000	0177.2	061.6	/	202.1	008.5000	0130.8	015.5	74.69
098.0	100.0000	0178.8	061.8	/	200.6	008.5000	0130.8	016.5	73.85
099.0	100.0000	0180.4	061.9	/	199.4	008.5000	0130.8	017.5	73.00
100.0	100.0000	0181.4	062.0	/	198.6	008.5000	0130.8	018.6	72.14
101.0	100.0000	0182.1	062.1	/	198.0	008.5000	0130.8	019.7	71.28
102.0	100.0000	0182.4	062.1	/	197.5	008.5000	0130.7	020.7	70.42
103.0	100.0000	0182.6	062.2	/	197.3	008.5000	0130.7	021.8	69.58
104.0	100.0000	0182.3	062.1	/	197.2	008.5000	0130.7	022.9	68.76
105.0	100.0000	0182.0	062.1	/	197.1	008.5000	0130.7	024.0	67.96
106.0	100.0000	0181.6	062.1	/	197.1	008.5000	0130.7	025.1	67.19
107.0	100.0000	0181.2	062.0	/	197.2	008.5000	0130.7	026.2	66.44

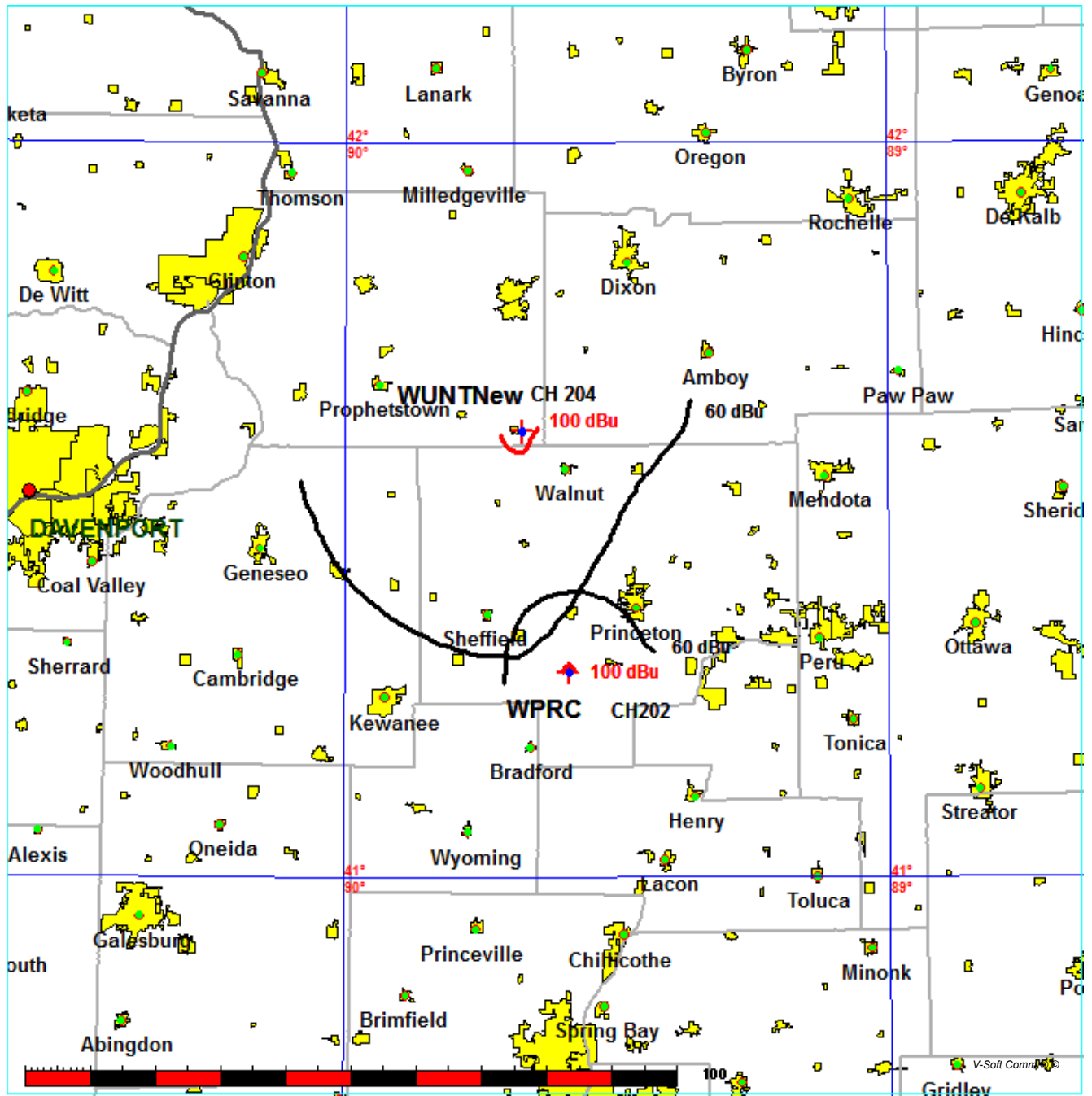
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
108.0	100.0000	0180.7	062.0	/	197.3	008.5000	0130.7	027.2	65.72
109.0	100.0000	0180.0	061.9	/	197.5	008.5000	0130.7	028.3	65.03
110.0	100.0000	0179.4	061.8	/	197.7	008.5000	0130.8	029.4	64.38
111.0	100.0000	0178.7	061.8	/	198.0	008.5000	0130.8	030.5	63.76
112.0	100.0000	0177.5	061.7	/	198.3	008.5000	0130.8	031.5	63.19
113.0	100.0000	0176.1	061.5	/	198.7	008.5000	0130.8	032.6	62.65
114.0	100.0000	0174.9	061.4	/	199.1	008.5000	0130.8	033.7	62.12
115.0	100.0000	0174.4	061.3	/	199.3	008.5000	0130.8	034.7	61.61
116.0	100.0000	0174.3	061.3	/	199.5	008.5000	0130.8	035.8	61.09
117.0	100.0000	0174.5	061.4	/	199.7	008.5000	0130.8	036.9	60.59
118.0	100.0000	0174.7	061.4	/	199.9	008.5000	0130.8	037.9	60.09
119.0	100.0000	0175.1	061.4	/	200.1	008.5000	0130.8	039.0	59.60
120.0	100.0000	0175.7	061.5	/	200.3	008.5000	0130.8	040.1	59.11
121.0	100.0000	0176.2	061.5	/	200.5	008.5000	0130.8	041.1	58.64
122.0	100.0000	0176.7	061.6	/	200.7	008.5000	0130.8	042.2	58.17
123.0	100.0000	0177.0	061.6	/	200.9	008.5000	0130.8	043.3	57.71
124.0	100.0000	0176.8	061.6	/	201.3	008.5000	0130.8	044.3	57.27
125.0	100.0000	0176.3	061.5	/	201.7	008.5000	0130.8	045.4	56.84
126.0	100.0000	0175.6	061.5	/	202.1	008.5000	0130.8	046.4	56.42
127.0	100.0000	0175.0	061.4	/	202.5	008.5000	0130.8	047.4	56.01
128.0	100.0000	0174.1	061.3	/	202.9	008.5000	0130.8	048.4	55.62
129.0	100.0000	0173.0	061.2	/	203.4	008.5000	0130.8	049.4	55.23
130.0	100.0000	0171.9	061.1	/	203.8	008.5000	0130.8	050.4	54.84
131.0	100.0000	0171.0	061.0	/	204.3	008.5000	0130.8	051.4	54.45
132.0	100.0000	0170.4	060.9	/	204.7	008.5000	0130.8	052.4	54.06
133.0	100.0000	0170.0	060.9	/	205.1	008.5000	0130.8	053.4	53.67
134.0	100.0000	0169.5	060.8	/	205.5	008.5000	0130.8	054.4	53.29
135.0	100.0000	0168.5	060.7	/	206.0	008.5000	0130.8	055.4	52.91
136.0	100.0000	0167.2	060.6	/	206.5	008.5000	0130.8	056.3	52.55
137.0	100.0000	0165.9	060.4	/	207.0	008.5000	0130.8	057.3	52.19
138.0	100.0000	0165.2	060.3	/	207.4	008.5000	0130.9	058.2	51.84
139.0	100.0000	0164.9	060.3	/	207.8	008.5000	0130.9	059.2	51.48
140.0	100.0000	0164.5	060.3	/	208.3	008.5000	0131.0	060.2	51.14
141.0	100.0000	0163.6	060.2	/	208.7	008.5000	0131.1	061.1	50.81
142.0	100.0000	0162.6	060.0	/	209.2	008.5000	0131.2	062.0	50.49
143.0	100.0000	0162.6	060.0	/	209.6	008.5000	0131.3	063.0	50.16

WUNTNew vs. WPRC
RoadMap Ministries

FMCommander Single Allocation Study - 11-10-2011 - FCC NGDC 30 Sec
WUNTNew's Overlaps (In= 5.43 km, Out= 22.55 km)

WUNTNew CH 204 B1 DA
Lat= 41 36 33.3, Lng= 89 40 18.6
8.5 kW 127 M HAAT, 330.8 M COR
Prot.= 60 dBu, Intef.= 100 dBu

WPRC CH 202 A BLED20050826AAS
Lat= 41 16 53.0, Lng= 89 35 12.0
0.15 kW 96 M HAAT, 310 M COR
Prot.= 60 dBu, Intef.= 100 dBu



11-10-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WUNTNW

WPRC BLED20050826AAS

Channel = 204B1

Max ERP = 8.5 kW

RCAMSL = 330.8 M

N. Lat. 41 36 33.3

W. Lng. 89 40 18.6

Protected

60 dBu

Channel = 202A

Max ERP = 0.15 kW

RCAMSL = 310 M

N. Lat. 41 16 53.0

W. Lng. 89 35 12.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
109.0	001.1725	0108.5	020.2	/	021.8	000.1500	0114.1	032.2	44.23	
110.0	001.1574	0107.0	020.0	/	021.4	000.1500	0114.1	031.8	44.40	
111.0	001.1542	0105.6	019.9	/	021.2	000.1500	0114.1	031.5	44.58	
112.0	001.1511	0104.4	019.7	/	020.9	000.1500	0114.1	031.1	44.76	
113.0	001.1480	0103.3	019.6	/	020.7	000.1500	0114.1	030.8	44.94	
114.0	001.1449	0102.5	019.5	/	020.5	000.1500	0114.1	030.4	45.13	
115.0	001.1417	0102.3	019.5	/	020.4	000.1500	0114.1	030.1	45.32	
116.0	001.1386	0102.6	019.5	/	020.4	000.1500	0114.1	029.8	45.51	
117.0	001.1355	0103.3	019.6	/	020.4	000.1500	0114.1	029.4	45.71	
118.0	001.1324	0104.0	019.6	/	020.4	000.1500	0114.1	029.1	45.91	
119.0	001.1293	0104.5	019.6	/	020.4	000.1500	0114.1	028.7	46.12	
120.0	001.1262	0104.7	019.6	/	020.3	000.1500	0114.1	028.4	46.33	
121.0	001.1126	0104.7	019.6	/	020.1	000.1500	0114.1	028.1	46.53	
122.0	001.0992	0104.7	019.5	/	019.8	000.1500	0114.1	027.7	46.74	
123.0	001.0857	0104.8	019.5	/	019.5	000.1500	0114.2	027.4	46.94	
124.0	001.0724	0105.3	019.5	/	019.4	000.1500	0114.2	027.1	47.15	
125.0	001.0592	0106.4	019.5	/	019.2	000.1500	0114.2	026.8	47.38	
126.0	001.0460	0107.6	019.6	/	019.2	000.1500	0114.2	026.4	47.60	
127.0	001.0329	0108.6	019.6	/	019.0	000.1500	0114.2	026.1	47.83	
128.0	001.0199	0109.3	019.6	/	018.8	000.1500	0114.2	025.7	48.05	
129.0	001.0070	0109.8	019.6	/	018.5	000.1500	0114.1	025.4	48.27	
130.0	000.9942	0110.3	019.6	/	018.2	000.1500	0114.1	025.1	48.48	
131.0	001.0217	0110.7	019.7	/	018.2	000.1500	0114.1	024.7	48.75	
132.0	001.0496	0111.0	019.9	/	018.3	000.1500	0114.1	024.4	49.02	
133.0	001.0779	0111.2	020.0	/	018.2	000.1500	0114.1	024.0	49.29	
134.0	001.1065	0111.2	020.2	/	018.2	000.1500	0114.1	023.6	49.57	
135.0	001.1355	0111.2	020.3	/	018.1	000.1500	0114.1	023.2	49.84	
136.0	001.1649	0111.1	020.4	/	017.9	000.1500	0114.1	022.9	50.11	
137.0	001.1947	0111.2	020.6	/	017.8	000.1500	0114.1	022.5	50.40	
138.0	001.2248	0111.5	020.7	/	017.7	000.1500	0114.0	022.1	50.69	
139.0	001.2553	0111.8	020.9	/	017.5	000.1500	0114.0	021.7	50.98	
140.0	001.2862	0111.9	021.0	/	017.3	000.1500	0114.0	021.3	51.27	
141.0	001.3468	0111.6	021.2	/	017.2	000.1500	0114.0	020.9	51.60	
142.0	001.4103	0111.1	021.4	/	017.1	000.1500	0114.0	020.5	51.92	
143.0	001.4768	0110.5	021.6	/	016.9	000.1500	0113.9	020.1	52.25	
144.0	001.5464	0109.9	021.7	/	016.6	000.1500	0113.9	019.7	52.57	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
145.0	001.6193	0109.3	021.9	/	016.4	000.1500	0114.0	019.3	52.91
146.0	001.6956	0108.9	022.1	/	016.1	000.1500	0114.1	018.8	53.25
147.0	001.7755	0108.2	022.3	/	015.7	000.1500	0114.2	018.4	53.60
148.0	001.8592	0107.3	022.4	/	015.3	000.1500	0114.4	018.0	53.93
149.0	001.9468	0106.3	022.6	/	014.7	000.1500	0114.6	017.7	54.26
150.0	002.0385	0105.8	022.8	/	014.3	000.1500	0114.8	017.2	54.61
151.0	002.1346	0105.7	023.0	/	013.8	000.1500	0115.0	016.8	54.99
152.0	002.2352	0105.6	023.2	/	013.3	000.1500	0115.1	016.3	55.37
153.0	002.3406	0105.3	023.5	/	012.7	000.1500	0115.3	015.9	55.74
154.0	002.4509	0105.3	023.7	/	012.1	000.1500	0115.4	015.5	56.13
155.0	002.5664	0105.8	024.0	/	011.6	000.1500	0115.5	015.0	56.43
156.0	002.6873	0106.5	024.3	/	011.0	000.1500	0115.6	014.5	57.01
157.0	002.8140	0107.3	024.7	/	010.3	000.1500	0115.5	013.9	57.62
158.0	002.9466	0108.3	025.0	/	009.6	000.1500	0115.2	013.4	58.28
159.0	003.0854	0109.5	025.4	/	008.9	000.1500	0114.9	012.8	59.01
160.0	003.2309	0110.6	025.8	/	007.9	000.1500	0114.7	012.3	59.76
161.0	003.3831	0111.5	026.2	/	006.8	000.1500	0114.5	011.8	60.54
162.0	003.5426	0112.5	026.5	/	005.5	000.1500	0115.0	011.2	61.41
163.0	003.7095	0114.0	027.0	/	004.0	000.1500	0114.5	010.7	62.31
164.0	003.8843	0115.5	027.4	/	002.4	000.1500	0113.1	010.1	63.19
165.0	004.0674	0116.9	027.8	/	000.4	000.1500	0111.4	009.6	64.05
166.0	004.2591	0117.9	028.2	/	358.1	000.1500	0109.0	009.1	64.79
167.0	004.4598	0118.7	028.6	/	355.3	000.1500	0109.0	008.6	65.69
168.0	004.6700	0119.4	028.9	/	352.2	000.1500	0109.1	008.2	66.54
169.0	004.8901	0120.2	029.3	/	348.7	000.1500	0107.1	007.8	67.24
170.0	005.1206	0121.5	029.8	/	344.6	000.1500	0106.2	007.4	68.14
171.0	005.3619	0123.1	030.3	/	339.9	000.1500	0105.3	007.0	69.09
172.0	005.6146	0124.8	030.8	/	334.5	000.1500	0101.1	006.6	69.67
173.0	005.8792	0125.8	031.2	/	328.7	000.1500	0100.0	006.4	70.18
174.0	006.1563	0126.2	031.6	/	322.7	000.1500	0096.6	006.3	70.11
175.0	006.4464	0126.6	032.0	/	316.4	000.1500	0091.2	006.3	69.60
176.0	006.7502	0127.0	032.4	/	310.2	000.1500	0085.5	006.4	68.78
177.0	007.0684	0127.2	032.8	/	304.3	000.1500	0078.5	006.5	67.49
178.0	007.4015	0127.3	033.2	/	298.8	000.1500	0075.8	006.8	66.46
179.0	007.7503	0127.3	033.5	/	293.9	000.1500	0082.1	007.1	66.31
180.0	008.1156	0127.3	033.9	/	289.6	000.1500	0079.4	007.5	65.01
181.0	008.4980	0127.3	034.3	/	285.7	000.1500	0077.0	008.0	63.76
182.0	008.5000	0127.3	034.3	/	284.7	000.1500	0076.6	008.6	62.61
183.0	008.5000	0127.4	034.3	/	283.9	000.1500	0076.3	009.2	61.50
184.0	008.5000	0127.4	034.3	/	283.3	000.1500	0076.1	009.8	60.41
185.0	008.5000	0127.7	034.3	/	282.6	000.1500	0075.8	010.3	59.36
186.0	008.5000	0128.1	034.3	/	281.9	000.1500	0075.6	010.9	58.34
187.0	008.5000	0128.8	034.4	/	281.3	000.1500	0075.3	011.5	57.36
188.0	008.5000	0129.6	034.5	/	280.6	000.1500	0075.2	012.1	56.42
189.0	008.5000	0130.1	034.6	/	280.3	000.1500	0075.1	012.7	55.53
190.0	008.5000	0130.3	034.6	/	280.1	000.1500	0075.1	013.3	54.68
191.0	008.5000	0130.4	034.6	/	280.1	000.1500	0075.1	013.9	53.89
192.0	008.5000	0130.6	034.6	/	280.1	000.1500	0075.1	014.5	53.14
193.0	008.5000	0130.7	034.7	/	280.2	000.1500	0075.1	015.1	52.68
194.0	008.5000	0130.8	034.7	/	280.3	000.1500	0075.1	015.7	52.16
195.0	008.5000	0130.7	034.6	/	280.5	000.1500	0075.2	016.3	51.64

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
196.0	008.5000	0130.6	034.6	/	280.7	000.1500	0075.2	016.9	51.13
197.0	008.5000	0130.7	034.6	/	280.9	000.1500	0075.2	017.5	50.62
198.0	008.5000	0130.8	034.7	/	281.1	000.1500	0075.3	018.1	50.12
199.0	008.5000	0130.8	034.7	/	281.3	000.1500	0075.4	018.7	49.62
200.0	008.5000	0130.8	034.7	/	281.6	000.1500	0075.4	019.3	49.13
201.0	008.5000	0130.8	034.7	/	281.8	000.1500	0075.5	019.9	48.65
202.0	008.5000	0130.8	034.7	/	282.1	000.1500	0075.6	020.5	48.18
203.0	008.5000	0130.8	034.7	/	282.4	000.1500	0075.7	021.1	47.72
204.0	008.5000	0130.8	034.7	/	282.7	000.1500	0075.9	021.7	47.27
205.0	008.5000	0130.8	034.7	/	283.1	000.1500	0076.0	022.3	46.82
206.0	008.5000	0130.8	034.7	/	283.4	000.1500	0076.1	022.9	46.39
207.0	008.5000	0130.8	034.7	/	283.7	000.1500	0076.2	023.5	45.96
208.0	008.5000	0131.0	034.7	/	284.0	000.1500	0076.4	024.1	45.54
209.0	008.5000	0131.2	034.7	/	284.3	000.1500	0076.5	024.6	45.12
210.0	008.5000	0131.3	034.7	/	284.7	000.1500	0076.6	025.2	44.72
211.0	008.5000	0131.5	034.7	/	285.0	000.1500	0076.7	025.8	44.33
212.0	008.5000	0131.8	034.8	/	285.3	000.1500	0076.9	026.4	43.95
213.0	008.5000	0132.2	034.8	/	285.6	000.1500	0077.0	027.0	43.58
214.0	008.5000	0132.2	034.8	/	286.0	000.1500	0077.1	027.6	43.22
215.0	008.5000	0132.0	034.8	/	286.4	000.1500	0077.3	028.2	42.89
216.0	008.5000	0132.1	034.8	/	286.8	000.1500	0077.5	028.7	42.57
217.0	008.5000	0132.4	034.8	/	287.2	000.1500	0077.6	029.3	42.25
218.0	008.5000	0132.4	034.8	/	287.6	000.1500	0077.9	029.9	41.95
219.0	008.5000	0132.1	034.8	/	288.0	000.1500	0078.1	030.4	41.68
220.0	008.5000	0132.0	034.8	/	288.5	000.1500	0078.4	031.0	41.43
221.0	008.5000	0132.2	034.8	/	288.9	000.1500	0078.7	031.6	41.18
222.0	008.5000	0132.5	034.9	/	289.2	000.1500	0079.1	032.1	40.94
223.0	008.5000	0132.9	034.9	/	289.6	000.1500	0079.4	032.7	40.72
224.0	008.5000	0133.2	034.9	/	289.9	000.1500	0079.8	033.3	40.50
225.0	008.5000	0133.5	035.0	/	290.3	000.1500	0080.2	033.9	40.28
226.0	008.5000	0133.9	035.0	/	290.7	000.1500	0080.6	034.4	40.07
227.0	008.5000	0134.3	035.1	/	291.1	000.1500	0080.9	035.0	39.86
228.0	008.5000	0134.6	035.1	/	291.5	000.1500	0081.3	035.6	39.65

11-10-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WPRC BLED20050826AAS

WUNTNew

Channel = 202A

Max ERP = 0.15 kW

RCAMSL = 310 M

N. Lat. 41 16 53.0

W. Lng. 89 35 12.0

Protected

60 dBu

Channel = 204B1

Max ERP = 8.5 kW

RCAMSL = 330.8 M

N. Lat. 41 36 33.3

W. Lng. 89 40 18.6

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
289.0	000.1500	0078.9	010.2	/	184.3	008.5000	0127.4	033.2	62.13	
290.0	000.1500	0079.9	010.2	/	184.3	008.5000	0127.4	033.0	62.22	
291.0	000.1500	0080.9	010.3	/	184.3	008.5000	0127.4	032.9	62.31	
292.0	000.1500	0081.7	010.3	/	184.3	008.5000	0127.4	032.7	62.41	
293.0	000.1500	0082.3	010.4	/	184.3	008.5000	0127.4	032.5	62.50	
294.0	000.1500	0082.1	010.4	/	184.2	008.5000	0127.4	032.3	62.58	
295.0	000.1500	0081.0	010.3	/	183.9	008.5000	0127.4	032.2	62.65	
296.0	000.1500	0079.3	010.2	/	183.7	008.5000	0127.4	032.0	62.71	
297.0	000.1500	0077.5	010.1	/	183.4	008.5000	0127.4	031.9	62.77	
298.0	000.1500	0076.3	010.0	/	183.1	008.5000	0127.4	031.8	62.84	
299.0	000.1500	0075.7	010.0	/	182.9	008.5000	0127.3	031.7	62.91	
300.0	000.1500	0075.5	010.0	/	182.7	008.5000	0127.3	031.5	62.99	
301.0	000.1500	0075.5	010.0	/	182.6	008.5000	0127.3	031.3	63.07	
302.0	000.1500	0076.0	010.0	/	182.5	008.5000	0127.3	031.2	63.16	
303.0	000.1500	0076.8	010.0	/	182.4	008.5000	0127.3	031.0	63.25	
304.0	000.1500	0078.0	010.1	/	182.4	008.5000	0127.3	030.8	63.36	
305.0	000.1500	0079.5	010.2	/	182.3	008.5000	0127.3	030.6	63.46	
306.0	000.1500	0081.0	010.3	/	182.3	008.5000	0127.3	030.4	63.58	
307.0	000.1500	0082.4	010.4	/	182.2	008.5000	0127.3	030.2	63.69	
308.0	000.1500	0083.6	010.4	/	182.1	008.5000	0127.3	030.0	63.79	
309.0	000.1500	0084.5	010.5	/	182.0	008.5000	0127.3	029.9	63.89	
310.0	000.1500	0085.3	010.6	/	181.9	008.4997	0127.3	029.7	64.00	
311.0	000.1500	0086.2	010.6	/	181.7	008.4995	0127.3	029.5	64.10	
312.0	000.1500	0087.1	010.7	/	181.6	008.4992	0127.3	029.3	64.20	
313.0	000.1500	0088.0	010.7	/	181.4	008.4988	0127.3	029.2	64.31	
314.0	000.1500	0088.8	010.8	/	181.2	008.4985	0127.3	029.0	64.41	
315.0	000.1500	0089.7	010.8	/	181.0	008.4981	0127.3	028.8	64.51	
316.0	000.1500	0090.7	010.9	/	180.9	008.4440	0127.3	028.6	64.59	
317.0	000.1500	0091.8	010.9	/	180.7	008.3725	0127.3	028.5	64.66	
318.0	000.1500	0092.9	011.0	/	180.5	008.2975	0127.3	028.3	64.73	
319.0	000.1500	0094.0	011.0	/	180.3	008.2179	0127.3	028.1	64.80	
320.0	000.1500	0094.9	011.1	/	180.0	008.1304	0127.3	027.9	64.85	
321.0	000.1500	0095.6	011.1	/	179.8	008.0352	0127.3	027.8	64.90	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
322.0	000.1500	0096.2	011.2		179.5	007.9342	0127.3	027.6	64.94
323.0	000.1500	0096.9	011.2		179.2	007.8333	0127.3	027.5	64.98
324.0	000.1500	0097.6	011.2		178.9	007.7318	0127.3	027.3	65.01
325.0	000.1500	0098.4	011.3		178.7	007.6291	0127.3	027.2	65.05
326.0	000.1500	0099.0	011.3		178.3	007.5205	0127.3	027.1	65.08
327.0	000.1500	0099.4	011.3		178.0	007.4053	0127.3	026.9	65.09
328.0	000.1500	0099.7	011.4		177.7	007.2891	0127.3	026.8	65.09
329.0	000.1500	0100.1	011.4		177.3	007.1738	0127.3	026.7	65.10
330.0	000.1500	0100.6	011.4		177.0	007.0573	0127.2	026.6	65.10
331.0	000.1500	0100.9	011.4		176.6	006.9388	0127.1	026.5	65.09
332.0	000.1500	0101.0	011.4		176.2	006.8154	0127.0	026.4	65.06
333.0	000.1500	0100.9	011.4		175.8	006.6918	0127.0	026.3	65.03
334.0	000.1500	0101.0	011.4		175.4	006.5700	0126.8	026.3	64.99
335.0	000.1500	0101.3	011.4		175.0	006.4503	0126.6	026.2	64.96
336.0	000.1500	0101.8	011.5		174.6	006.3352	0126.4	026.1	64.93
337.0	000.1500	0102.5	011.5		174.2	006.2214	0126.3	026.0	64.91
338.0	000.1500	0103.5	011.6		173.8	006.1095	0126.2	025.9	64.89
339.0	000.1500	0104.5	011.6		173.4	005.9980	0126.0	025.8	64.88
340.0	000.1500	0105.4	011.7		173.0	005.8839	0125.8	025.7	64.84
341.0	000.1500	0106.0	011.7		172.6	005.7698	0125.5	025.6	64.79
342.0	000.1500	0106.4	011.7		172.1	005.6535	0125.0	025.5	64.71
343.0	000.1500	0106.6	011.7		171.7	005.5378	0124.3	025.5	64.61
344.0	000.1500	0106.4	011.7		171.2	005.4224	0123.6	025.5	64.48
345.0	000.1500	0106.1	011.7		170.8	005.3086	0122.8	025.5	64.34
346.0	000.1500	0105.9	011.7		170.3	005.1979	0122.0	025.5	64.20
347.0	000.1500	0106.1	011.7		169.9	005.0893	0121.3	025.4	64.08
348.0	000.1500	0106.6	011.7		169.4	004.9837	0120.7	025.4	63.97
349.0	000.1500	0107.4	011.8		168.9	004.8783	0120.1	025.4	63.87
350.0	000.1500	0108.2	011.8		168.5	004.7755	0119.7	025.3	63.78
351.0	000.1500	0108.8	011.8		168.0	004.6726	0119.4	025.3	63.67
352.0	000.1500	0109.1	011.9		167.5	004.5733	0119.1	025.3	63.56
353.0	000.1500	0109.1	011.9		167.1	004.4757	0118.8	025.3	63.43
354.0	000.1500	0109.1	011.9		166.6	004.3817	0118.4	025.3	63.30
355.0	000.1500	0109.0	011.8		166.2	004.2892	0118.0	025.4	63.15
356.0	000.1500	0108.9	011.8		165.7	004.2003	0117.6	025.4	63.01
357.0	000.1500	0108.8	011.8		165.2	004.1129	0117.1	025.5	62.85
358.0	000.1500	0109.0	011.8		164.8	004.0271	0116.6	025.5	62.70
359.0	000.1500	0109.9	011.9		164.3	003.9399	0116.0	025.5	62.55
000.0	000.1500	0111.0	011.9		163.8	003.8533	0115.3	025.5	62.40
001.0	000.1500	0112.0	012.0		163.3	003.7687	0114.5	025.5	62.24
002.0	000.1500	0112.8	012.0		162.9	003.6873	0113.7	025.5	62.07
003.0	000.1500	0113.6	012.1		162.4	003.6077	0113.0	025.6	61.89
004.0	000.1500	0114.5	012.1		161.9	003.5287	0112.4	025.6	61.73
005.0	000.1500	0115.0	012.1		161.5	003.4555	0112.0	025.7	61.56
006.0	000.1500	0114.8	012.1		161.0	003.3889	0111.6	025.8	61.38
007.0	000.1500	0114.5	012.1		160.6	003.3260	0111.2	025.9	61.20
008.0	000.1500	0114.7	012.1		160.2	003.2611	0110.8	026.0	61.02
009.0	000.1500	0115.0	012.1		159.8	003.1980	0110.4	026.0	60.84
010.0	000.1500	0115.4	012.2		159.3	003.1358	0110.0	026.1	60.66
011.0	000.1500	0115.6	012.2		158.9	003.0774	0109.5	026.2	60.47
012.0	000.1500	0115.4	012.2		158.6	003.0242	0109.0	026.4	60.27

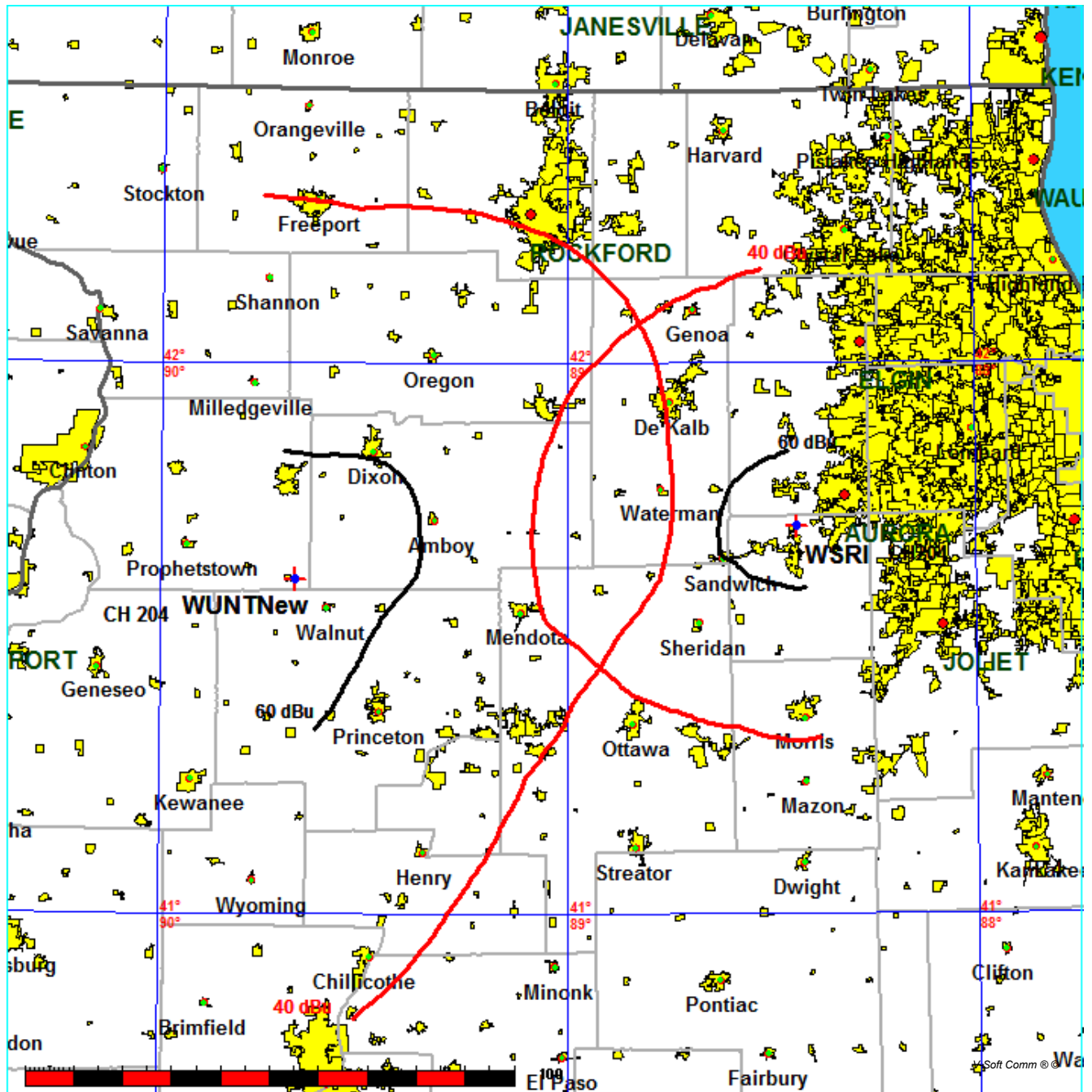
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
013.0	000.1500	0115.2	012.2		158.2	002.9733	0108.5	026.5	60.08
014.0	000.1500	0114.9	012.1		157.8	002.9250	0108.1	026.6	59.88
015.0	000.1500	0114.5	012.1		157.5	002.8801	0107.8	026.8	59.69
016.0	000.1500	0114.1	012.1		157.2	002.8368	0107.4	026.9	59.50
017.0	000.1500	0113.9	012.1		156.8	002.7933	0107.1	027.0	59.32
018.0	000.1500	0114.1	012.1		156.5	002.7491	0106.9	027.2	59.14
019.0	000.1500	0114.2	012.1		156.2	002.7067	0106.6	027.3	58.96
020.0	000.1500	0114.1	012.1		155.8	002.6677	0106.4	027.5	58.78
021.0	000.1500	0114.1	012.1		155.5	002.6303	0106.2	027.6	58.61
022.0	000.1500	0114.1	012.1		155.2	002.5933	0106.0	027.8	58.43
023.0	000.1500	0114.5	012.1		154.9	002.5546	0105.7	027.9	58.26
024.0	000.1500	0115.4	012.2		154.5	002.5134	0105.5	028.0	58.09
025.0	000.1500	0116.6	012.2		154.2	002.4710	0105.4	028.2	57.92
026.0	000.1500	0117.6	012.3		153.8	002.4319	0105.3	028.3	57.76
027.0	000.1500	0118.1	012.3		153.5	002.3984	0105.2	028.5	57.60
028.0	000.1500	0117.8	012.3		153.3	002.3730	0105.3	028.6	57.45
029.0	000.1500	0117.2	012.3		153.1	002.3519	0105.3	028.8	57.30
030.0	000.1500	0116.5	012.2		152.9	002.3323	0105.3	029.0	57.15
031.0	000.1500	0116.0	012.2		152.7	002.3128	0105.4	029.2	57.00
032.0	000.1500	0115.8	012.2		152.5	002.2917	0105.4	029.4	56.86
033.0	000.1500	0116.3	012.2		152.3	002.2659	0105.5	029.6	56.71
034.0	000.1500	0117.3	012.3		152.0	002.2367	0105.6	029.7	56.57
035.0	000.1500	0118.0	012.3		151.8	002.2110	0105.6	029.9	56.43
036.0	000.1500	0118.2	012.3		151.6	002.1917	0105.6	030.1	56.28
037.0	000.1500	0117.9	012.3		151.4	002.1771	0105.7	030.3	56.14
038.0	000.1500	0117.4	012.3		151.3	002.1646	0105.7	030.5	56.01
039.0	000.1500	0117.1	012.3		151.2	002.1511	0105.7	030.7	55.87
040.0	000.1500	0117.4	012.3		151.0	002.1342	0105.7	030.9	55.73
041.0	000.1500	0118.4	012.3		150.8	002.1125	0105.7	031.1	55.59
042.0	000.1500	0119.9	012.4		150.5	002.0886	0105.7	031.3	55.45
043.0	000.1500	0121.2	012.4		150.3	002.0667	0105.7	031.5	55.31
044.0	000.1500	0122.0	012.5		150.1	002.0498	0105.8	031.7	55.18
045.0	000.1500	0122.2	012.5		150.0	002.0383	0105.8	031.9	55.05
046.0	000.1500	0121.9	012.5		149.9	002.0312	0105.8	032.1	54.93
047.0	000.1500	0121.2	012.4		149.9	002.0281	0105.8	032.3	54.82
048.0	000.1500	0120.2	012.4		149.9	002.0279	0105.8	032.5	54.71

WUNTNew vs. WSRI
RoadMap Ministries

FMCommander Single Allocation Study - 11-10-2011 - FCC NGDC 30 Sec
WUNTNew's Overlaps (In= 22.53 km, Out= 9.65 km)

WUNTNew CH 204 B1 DA
Lat= 41 36 33.3, Lng= 89 40 18.6
8.5 kW 127 M HAAT, 330.8 M COR
Prot.= 60 dBu, Intef.= 40 dBu

WSRI CH 204 A DA BLED20080410ABW
Lat= 41 42 16.0, Lng= 88 26 02.0
0.6 kW 103 M HAAT, 306 M COR
Prot.= 60 dBu, Intef.= 40 dBu



11-10-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WUNTNNew

WSRI BLED20080410ABW

Channel = 204B1
 Max ERP = 8.5 kW
 RCAMSL = 330.8 M
 N. Lat. 41 36 33.3
 W. Lng. 89 40 18.6
 Protected
 60 dBu

Channel = 204A
 Max ERP = 0.6 kW
 RCAMSL = 306 M
 N. Lat. 41 42 16.0
 W. Lng. 88 26 02.0
 Interfering
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
024.0	003.0825	0129.2	027.2	/	279.2	000.6000	0099.3	092.7	28.34	
025.0	003.1732	0129.2	027.4	/	279.3	000.6000	0099.3	092.2	28.47	
026.0	003.2653	0129.5	027.6	/	279.3	000.6000	0099.3	091.7	28.61	
027.0	003.3587	0129.6	027.8	/	279.3	000.6000	0099.3	091.2	28.74	
028.0	003.4534	0129.3	027.9	/	279.3	000.6000	0099.3	090.7	28.88	
029.0	003.5494	0128.9	028.1	/	279.3	000.6000	0099.3	090.2	29.01	
030.0	003.6467	0128.7	028.2	/	279.3	000.6000	0099.3	089.7	29.15	
031.0	003.7420	0128.6	028.4	/	279.2	000.6000	0099.3	089.1	29.29	
032.0	003.8385	0128.7	028.6	/	279.2	000.6000	0099.3	088.6	29.43	
033.0	003.9362	0128.9	028.7	/	279.2	000.6000	0099.3	088.1	29.57	
034.0	004.0351	0129.0	028.9	/	279.1	000.6000	0099.3	087.6	29.72	
035.0	004.1353	0129.1	029.1	/	279.1	000.6000	0099.3	087.0	29.86	
036.0	004.2367	0129.1	029.2	/	279.0	000.6000	0099.3	086.5	30.01	
037.0	004.3393	0129.0	029.4	/	279.0	000.6000	0099.4	086.0	30.15	
038.0	004.4432	0128.9	029.5	/	278.9	000.6000	0099.4	085.5	30.30	
039.0	004.5483	0128.8	029.7	/	278.8	000.6000	0099.4	085.0	30.44	
040.0	004.6546	0128.8	029.8	/	278.7	000.6000	0099.4	084.4	30.59	
041.0	004.6924	0128.7	029.9	/	278.5	000.6000	0099.4	084.0	30.72	
042.0	004.7304	0128.5	029.9	/	278.4	000.6000	0099.4	083.5	30.84	
043.0	004.7685	0128.1	029.9	/	278.2	000.6000	0099.5	083.1	30.97	
044.0	004.8068	0127.8	030.0	/	278.0	000.6000	0099.5	082.7	31.09	
045.0	004.8452	0127.5	030.0	/	277.8	000.6000	0099.5	082.2	31.21	
046.0	004.8838	0127.2	030.0	/	277.5	000.6000	0099.6	081.8	31.33	
047.0	004.9225	0126.8	030.0	/	277.3	000.6000	0099.6	081.4	31.45	
048.0	004.9614	0126.3	030.0	/	277.1	000.6000	0099.6	081.0	31.56	
049.0	005.0005	0125.8	030.0	/	276.8	000.6000	0099.7	080.6	31.67	
050.0	005.0396	0125.3	030.0	/	276.6	000.6000	0099.7	080.2	31.78	
051.0	004.9692	0125.0	029.9	/	276.2	000.6000	0099.8	079.9	31.86	
052.0	004.8993	0124.9	029.8	/	275.9	000.6000	0099.8	079.7	31.94	
053.0	004.8298	0124.8	029.7	/	275.6	000.6000	0099.9	079.4	32.02	
054.0	004.7609	0124.9	029.6	/	275.3	000.6000	0099.9	079.1	32.10	
055.0	004.6924	0125.0	029.5	/	274.9	000.6000	0100.0	078.8	32.18	
056.0	004.6245	0125.1	029.4	/	274.6	000.6000	0100.0	078.6	32.25	
057.0	004.5570	0125.0	029.3	/	274.3	000.6000	0100.0	078.4	32.31	
058.0	004.4900	0124.7	029.2	/	273.9	000.6000	0100.1	078.2	32.37	
059.0	004.4236	0124.4	029.1	/	273.5	000.6000	0100.1	078.0	32.43	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
060.0	004.3576	0124.0	028.9	/	273.2	000.6000	0100.2	077.8	32.47
061.0	004.2271	0123.6	028.7	/	272.8	000.6000	0100.2	077.8	32.49
062.0	004.0986	0123.5	028.5	/	272.4	000.6000	0100.2	077.7	32.52
063.0	003.9721	0124.1	028.3	/	272.0	000.6000	0100.4	077.6	32.55
064.0	003.8476	0125.0	028.2	/	271.6	000.6000	0100.6	077.5	32.60
065.0	003.7251	0125.9	028.1	/	271.3	000.6000	0100.8	077.4	32.64
066.0	003.6045	0126.5	028.0	/	270.9	000.6000	0101.0	077.3	32.67
067.0	003.4860	0126.7	027.8	/	270.5	000.6000	0101.2	077.3	32.69
068.0	003.3694	0126.8	027.6	/	270.1	000.6000	0101.4	077.3	32.69
069.0	003.2548	0126.8	027.4	/	269.7	000.6000	0101.6	077.3	32.70
070.0	003.1421	0126.7	027.1	/	269.4	000.6000	0101.8	077.3	32.69
071.0	003.0897	0126.8	027.0	/	269.0	000.6000	0102.0	077.3	32.72
072.0	003.0376	0126.8	026.9	/	268.6	000.6000	0102.2	077.3	32.74
073.0	002.9860	0126.7	026.8	/	268.3	000.6000	0102.4	077.2	32.75
074.0	002.9348	0126.7	026.7	/	267.9	000.6000	0102.5	077.2	32.77
075.0	002.8841	0126.7	026.6	/	267.6	000.6000	0102.7	077.2	32.78
076.0	002.8338	0126.7	026.5	/	267.2	000.6000	0102.8	077.2	32.78
077.0	002.7840	0126.8	026.4	/	266.9	000.6000	0102.9	077.3	32.77
078.0	002.7346	0126.8	026.3	/	266.5	000.6000	0102.9	077.3	32.77
079.0	002.6856	0126.9	026.2	/	266.2	000.6000	0102.9	077.3	32.75
080.0	002.6371	0127.0	026.1	/	265.8	000.6000	0102.9	077.4	32.74
081.0	002.5741	0126.9	026.0	/	265.5	000.6000	0102.9	077.5	32.71
082.0	002.5118	0126.7	025.8	/	265.1	000.6000	0102.9	077.6	32.67
083.0	002.4502	0126.5	025.7	/	264.8	000.6000	0102.9	077.8	32.63
084.0	002.3895	0126.3	025.5	/	264.5	000.6000	0102.9	077.9	32.59
085.0	002.3294	0126.3	025.4	/	264.2	000.6000	0102.9	078.1	32.54
086.0	002.2702	0126.3	025.2	/	263.8	000.6000	0102.9	078.2	32.50
087.0	002.2117	0126.2	025.1	/	263.5	000.6000	0102.9	078.4	32.45
088.0	002.1540	0126.2	024.9	/	263.2	000.6000	0103.0	078.6	32.40
089.0	002.0970	0126.2	024.8	/	262.9	000.6000	0103.0	078.8	32.34
090.0	002.0409	0126.2	024.6	/	262.6	000.6000	0103.0	079.0	32.29
091.0	001.9608	0125.5	024.3	/	262.3	000.6000	0103.1	079.3	32.20
092.0	001.8824	0124.4	024.0	/	262.1	000.6000	0103.1	079.7	32.09
093.0	001.8056	0123.4	023.7	/	261.8	000.6000	0103.2	080.1	31.99
094.0	001.7304	0122.4	023.4	/	261.6	000.6000	0103.2	080.5	31.88
095.0	001.6568	0121.7	023.1	/	261.4	000.6000	0103.2	080.9	31.78
096.0	001.5848	0121.1	022.8	/	261.1	000.6000	0103.3	081.2	31.67
097.0	001.5144	0120.5	022.6	/	260.9	000.6000	0103.3	081.6	31.57
098.0	001.4456	0119.7	022.3	/	260.7	000.6000	0103.3	082.0	31.45
099.0	001.3784	0119.0	022.0	/	260.5	000.6000	0103.4	082.4	31.34
100.0	001.3128	0118.2	021.6	/	260.4	000.6000	0103.4	082.9	31.22
101.0	001.2968	0117.2	021.5	/	260.2	000.6000	0103.5	083.1	31.15
102.0	001.2809	0115.9	021.3	/	260.0	000.6000	0103.5	083.4	31.07
103.0	001.2652	0114.6	021.1	/	259.8	000.6000	0103.6	083.7	30.98
104.0	001.2495	0113.5	021.0	/	259.6	000.6000	0103.7	084.0	30.90
105.0	001.2339	0113.0	020.9	/	259.4	000.6000	0103.8	084.3	30.84
106.0	001.2184	0112.4	020.8	/	259.2	000.6000	0103.8	084.6	30.77
107.0	001.2030	0111.4	020.6	/	259.0	000.6000	0103.9	084.9	30.68
108.0	001.1877	0110.0	020.4	/	258.9	000.6000	0103.9	085.2	30.59
109.0	001.1725	0108.5	020.2	/	258.8	000.6000	0104.0	085.6	30.49
110.0	001.1574	0107.0	020.0	/	258.6	000.6000	0104.0	085.9	30.39

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
111.0	001.1542	0105.6	019.9	/	258.5	000.6000	0104.1	086.2	30.31
112.0	001.1511	0104.4	019.7	/	258.3	000.6000	0104.1	086.5	30.23
113.0	001.1480	0103.3	019.6	/	258.2	000.6000	0104.2	086.8	30.15
114.0	001.1449	0102.5	019.5	/	258.1	000.6000	0104.2	087.1	30.07
115.0	001.1417	0102.3	019.5	/	257.9	000.6000	0104.3	087.3	30.01
116.0	001.1386	0102.6	019.5	/	257.7	000.6000	0104.3	087.5	29.96
117.0	001.1355	0103.3	019.6	/	257.5	000.6000	0104.4	087.7	29.91
118.0	001.1324	0104.0	019.6	/	257.3	000.6000	0104.5	087.9	29.87
119.0	001.1293	0104.5	019.6	/	257.1	000.6000	0104.6	088.1	29.81
120.0	001.1262	0104.7	019.6	/	257.0	000.6000	0104.6	088.3	29.75
121.0	001.1126	0104.7	019.6	/	256.8	000.6000	0104.7	088.6	29.68
122.0	001.0992	0104.7	019.5	/	256.7	000.6000	0104.7	088.9	29.60
123.0	001.0857	0104.8	019.5	/	256.6	000.6000	0104.8	089.2	29.53
124.0	001.0724	0105.3	019.5	/	256.4	000.6000	0104.8	089.4	29.46
125.0	001.0592	0106.4	019.5	/	256.3	000.6000	0104.9	089.7	29.40
126.0	001.0460	0107.6	019.6	/	256.1	000.6000	0104.9	089.9	29.34
127.0	001.0329	0108.6	019.6	/	256.0	000.6000	0105.0	090.1	29.28
128.0	001.0199	0109.3	019.6	/	255.8	000.6000	0105.0	090.4	29.20
129.0	001.0070	0109.8	019.6	/	255.7	000.6000	0105.1	090.7	29.13
130.0	000.9942	0110.3	019.6	/	255.6	000.6000	0105.1	091.0	29.05
131.0	001.0217	0110.7	019.7	/	255.4	000.6000	0105.1	091.2	29.01
132.0	001.0496	0111.0	019.9	/	255.2	000.6000	0105.2	091.4	28.95
133.0	001.0779	0111.2	020.0	/	255.0	000.6000	0105.2	091.6	28.90
134.0	001.1065	0111.2	020.2	/	254.8	000.6000	0105.2	091.8	28.83
135.0	001.1355	0111.2	020.3	/	254.6	000.6000	0105.3	092.1	28.77
136.0	001.1649	0111.1	020.4	/	254.5	000.6000	0105.3	092.3	28.70
137.0	001.1947	0111.2	020.6	/	254.3	000.6000	0105.4	092.6	28.64
138.0	001.2248	0111.5	020.7	/	254.1	000.6000	0105.4	092.8	28.57
139.0	001.2553	0111.8	020.9	/	253.9	000.6000	0105.4	093.1	28.50
140.0	001.2862	0111.9	021.0	/	253.8	000.6000	0105.4	093.4	28.43
141.0	001.3468	0111.6	021.2	/	253.6	000.6000	0105.5	093.6	28.36
142.0	001.4103	0111.1	021.4	/	253.4	000.6000	0105.5	093.9	28.29
143.0	001.4768	0110.5	021.6	/	253.2	000.6000	0105.5	094.2	28.22

11-10-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WSRI BLED20080410ABW

WUNTNew

Channel = 204A

Max ERP = 0.6 kW

RCAMSL = 306 M

N. Lat. 41 42 16.0

W. Lng. 88 26 02.0

Protected

60 dBu

Channel = 204B1

Max ERP = 8.5 kW

RCAMSL = 330.8 M

N. Lat. 41 36 33.3

W. Lng. 89 40 18.6

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
205.0	000.2110	0106.5	012.7	/	090.2	002.0266	0126.2	097.6	33.48	
206.0	000.2110	0107.3	012.8	/	090.1	002.0290	0126.2	097.3	33.54	
207.0	000.2110	0108.1	012.8	/	090.1	002.0316	0126.2	097.1	33.60	
208.0	000.2110	0108.9	012.9	/	090.1	002.0346	0126.2	096.9	33.67	
209.0	000.2110	0109.4	012.9	/	090.0	002.0385	0126.2	096.7	33.73	
210.0	000.2110	0109.5	012.9	/	090.0	002.0425	0126.2	096.5	33.79	
211.0	000.2129	0109.7	012.9	/	089.9	002.0451	0126.2	096.3	33.85	
212.0	000.2148	0110.3	013.0	/	089.9	002.0472	0126.2	096.0	33.92	
213.0	000.2168	0111.2	013.1	/	089.9	002.0489	0126.2	095.8	33.98	
214.0	000.2187	0112.2	013.2	/	089.8	002.0507	0126.2	095.6	34.05	
215.0	000.2207	0113.2	013.3	/	089.8	002.0526	0126.2	095.3	34.12	
216.0	000.2227	0114.3	013.3	/	089.8	002.0545	0126.2	095.1	34.19	
217.0	000.2247	0115.6	013.4	/	089.7	002.0564	0126.2	094.8	34.26	
218.0	000.2266	0116.7	013.5	/	089.7	002.0588	0126.2	094.6	34.33	
219.0	000.2286	0117.5	013.6	/	089.6	002.0617	0126.2	094.4	34.39	
220.0	000.2306	0118.2	013.7	/	089.6	002.0650	0126.2	094.1	34.46	
221.0	000.2355	0119.0	013.8	/	089.5	002.0672	0126.2	093.9	34.54	
222.0	000.2404	0119.8	013.9	/	089.5	002.0697	0126.2	093.6	34.61	
223.0	000.2454	0120.3	014.0	/	089.4	002.0728	0126.2	093.4	34.69	
224.0	000.2504	0120.5	014.1	/	089.4	002.0765	0126.2	093.1	34.76	
225.0	000.2555	0120.5	014.2	/	089.3	002.0807	0126.2	092.9	34.83	
226.0	000.2606	0120.4	014.2	/	089.2	002.0851	0126.2	092.7	34.90	
227.0	000.2657	0120.3	014.3	/	089.1	002.0899	0126.2	092.5	34.97	
228.0	000.2710	0119.6	014.3	/	089.0	002.0956	0126.2	092.3	35.03	
229.0	000.2762	0118.4	014.3	/	088.9	002.1022	0126.2	092.1	35.09	
230.0	000.2815	0117.1	014.3	/	088.8	002.1092	0126.2	092.0	35.15	
231.0	000.2906	0116.0	014.4	/	088.7	002.1151	0126.2	091.8	35.21	
232.0	000.2997	0114.9	014.4	/	088.6	002.1211	0126.2	091.6	35.28	
233.0	000.3091	0113.9	014.5	/	088.5	002.1272	0126.2	091.4	35.34	
234.0	000.3185	0113.1	014.5	/	088.4	002.1333	0126.2	091.2	35.41	
235.0	000.3281	0112.5	014.6	/	088.3	002.1392	0126.2	091.0	35.48	
236.0	000.3379	0112.2	014.7	/	088.2	002.1451	0126.2	090.8	35.55	
237.0	000.3477	0111.6	014.8	/	088.0	002.1516	0126.2	090.6	35.62	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
238.0	000.3578	0110.8	014.8	/	087.9	002.1586	0126.2	090.4	35.69
239.0	000.3679	0109.8	014.9	/	087.8	002.1661	0126.2	090.2	35.75
240.0	000.3783	0108.9	014.9	/	087.7	002.1737	0126.2	090.1	35.81
241.0	000.3981	0108.3	015.1	/	087.6	002.1794	0126.2	089.8	35.89
242.0	000.4185	0107.8	015.3	/	087.5	002.1853	0126.2	089.5	35.98
243.0	000.4394	0107.4	015.4	/	087.3	002.1915	0126.2	089.2	36.07
244.0	000.4608	0107.1	015.6	/	087.2	002.1978	0126.2	089.0	36.16
245.0	000.4828	0106.9	015.8	/	087.1	002.2045	0126.2	088.7	36.26
246.0	000.5052	0106.6	016.0	/	087.0	002.2115	0126.2	088.4	36.35
247.0	000.5281	0106.4	016.2	/	086.9	002.2189	0126.2	088.1	36.44
248.0	000.5516	0106.3	016.4	/	086.7	002.2265	0126.2	087.9	36.53
249.0	000.5755	0106.1	016.5	/	086.6	002.2345	0126.2	087.6	36.63
250.0	000.6000	0105.9	016.7	/	086.5	002.2430	0126.2	087.3	36.72
251.0	000.6000	0105.7	016.7	/	086.3	002.2540	0126.2	087.3	36.76
252.0	000.6000	0105.6	016.7	/	086.1	002.2650	0126.3	087.2	36.80
253.0	000.6000	0105.5	016.7	/	085.9	002.2760	0126.3	087.1	36.84
254.0	000.6000	0105.4	016.7	/	085.7	002.2871	0126.3	087.1	36.87
255.0	000.6000	0105.2	016.7	/	085.5	002.2983	0126.3	087.0	36.91
256.0	000.6000	0105.0	016.6	/	085.3	002.3096	0126.3	087.0	36.94
257.0	000.6000	0104.6	016.6	/	085.1	002.3211	0126.3	087.0	36.96
258.0	000.6000	0104.2	016.6	/	084.9	002.3325	0126.3	087.0	36.99
259.0	000.6000	0103.9	016.5	/	084.8	002.3440	0126.3	087.0	37.01
260.0	000.6000	0103.5	016.5	/	084.6	002.3554	0126.3	087.0	37.03
261.0	000.6000	0103.3	016.5	/	084.4	002.3669	0126.3	087.0	37.05
262.0	000.6000	0103.1	016.5	/	084.2	002.3783	0126.3	087.0	37.07
263.0	000.6000	0103.0	016.4	/	084.0	002.3897	0126.3	087.0	37.10
264.0	000.6000	0102.9	016.4	/	083.8	002.4012	0126.3	087.0	37.12
265.0	000.6000	0102.9	016.4	/	083.6	002.4126	0126.4	087.0	37.14
266.0	000.6000	0102.9	016.4	/	083.4	002.4241	0126.4	087.0	37.16
267.0	000.6000	0102.9	016.4	/	083.2	002.4356	0126.4	087.0	37.17
268.0	000.6000	0102.5	016.4	/	083.1	002.4471	0126.5	087.1	37.18
269.0	000.6000	0102.0	016.4	/	082.9	002.4584	0126.5	087.1	37.18
270.0	000.6000	0101.4	016.3	/	082.7	002.4696	0126.6	087.2	37.18
271.0	000.6000	0100.9	016.2	/	082.5	002.4807	0126.6	087.3	37.18
272.0	000.6000	0100.4	016.2	/	082.3	002.4917	0126.6	087.4	37.17
273.0	000.6000	0100.2	016.2	/	082.1	002.5029	0126.7	087.5	37.18
274.0	000.6000	0100.1	016.2	/	082.0	002.5141	0126.7	087.5	37.18
275.0	000.6000	0099.9	016.2	/	081.8	002.5252	0126.8	087.6	37.18
276.0	000.6000	0099.8	016.1	/	081.6	002.5362	0126.8	087.7	37.18
277.0	000.6000	0099.6	016.1	/	081.4	002.5472	0126.8	087.8	37.17
278.0	000.6000	0099.5	016.1	/	081.3	002.5581	0126.9	087.8	37.17
279.0	000.6000	0099.3	016.1	/	081.1	002.5689	0126.9	087.9	37.16
280.0	000.6000	0099.3	016.1	/	080.9	002.5797	0126.9	088.0	37.15
281.0	000.6000	0099.2	016.1	/	080.7	002.5905	0126.9	088.1	37.14
282.0	000.6000	0099.0	016.1	/	080.6	002.6010	0127.0	088.2	37.13
283.0	000.6000	0098.7	016.0	/	080.4	002.6113	0127.0	088.4	37.11
284.0	000.6000	0098.5	016.0	/	080.2	002.6215	0127.0	088.5	37.09
285.0	000.6000	0098.2	016.0	/	080.1	002.6316	0127.0	088.6	37.07
286.0	000.6000	0098.0	016.0	/	079.9	002.6406	0127.0	088.8	37.05
287.0	000.6000	0097.7	015.9	/	079.8	002.6479	0127.0	088.9	37.02
288.0	000.6000	0097.2	015.9	/	079.6	002.6551	0127.0	089.1	36.98

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	/	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
289.0	000.6000	0097.0	015.9		079.5	002.6623	0126.9	089.2	36.95
290.0	000.6000	0096.8	015.9		079.3	002.6696	0126.9	089.4	36.92
291.0	000.6000	0096.9	015.9		079.2	002.6772	0126.9	089.5	36.90
292.0	000.6000	0097.3	015.9		079.0	002.6850	0126.9	089.6	36.87
293.0	000.6000	0097.6	015.9		078.9	002.6928	0126.9	089.8	36.85
294.0	000.6000	0097.8	015.9		078.7	002.7005	0126.9	089.9	36.83
295.0	000.6000	0098.1	016.0		078.5	002.7080	0126.9	090.0	36.80
296.0	000.6000	0098.3	016.0		078.4	002.7153	0126.9	090.2	36.77
297.0	000.6000	0098.3	016.0		078.2	002.7224	0126.9	090.3	36.73
298.0	000.6000	0098.3	016.0		078.1	002.7291	0126.8	090.5	36.69
299.0	000.6000	0098.2	016.0		078.0	002.7355	0126.8	090.7	36.65
300.0	000.6000	0098.1	016.0		077.9	002.7419	0126.8	090.9	36.61
301.0	000.6000	0098.0	016.0		077.7	002.7483	0126.8	091.1	36.56
302.0	000.6000	0098.0	016.0		077.6	002.7545	0126.8	091.3	36.52
303.0	000.6000	0097.6	015.9		077.5	002.7600	0126.8	091.5	36.47
304.0	000.6000	0096.9	015.9		077.4	002.7645	0126.8	091.7	36.41
305.0	000.6000	0095.9	015.8		077.3	002.7681	0126.8	092.0	36.34
306.0	000.6000	0094.9	015.7		077.2	002.7716	0126.8	092.3	36.27
307.0	000.6000	0094.0	015.6		077.2	002.7752	0126.8	092.5	36.20
308.0	000.6000	0093.3	015.5		077.1	002.7789	0126.8	092.8	36.14
309.0	000.6000	0092.6	015.4		077.0	002.7826	0126.8	093.0	36.08
310.0	000.6000	0092.1	015.4		076.9	002.7865	0126.8	093.3	36.02
311.0	000.6000	0091.7	015.4		076.9	002.7906	0126.7	093.5	35.96
312.0	000.6000	0091.5	015.3		076.8	002.7950	0126.7	093.7	35.91
313.0	000.6000	0091.5	015.3		076.7	002.7996	0126.7	094.0	35.85
314.0	000.6000	0091.6	015.4		076.6	002.8045	0126.7	094.2	35.80
315.0	000.6000	0091.8	015.4		076.5	002.8093	0126.7	094.4	35.75
316.0	000.6000	0091.7	015.4		076.4	002.8134	0126.7	094.6	35.70
317.0	000.6000	0091.4	015.3		076.3	002.8166	0126.7	094.9	35.63
318.0	000.6000	0090.8	015.3		076.3	002.8192	0126.7	095.1	35.57
319.0	000.6000	0090.2	015.2		076.2	002.8217	0126.7	095.4	35.50
320.0	000.6000	0089.8	015.2		076.2	002.8243	0126.7	095.6	35.44
321.0	000.6000	0089.6	015.2		076.1	002.8272	0126.7	095.9	35.38
322.0	000.6000	0089.4	015.1		076.1	002.8301	0126.7	096.1	35.32
323.0	000.6000	0089.1	015.1		076.0	002.8325	0126.7	096.4	35.26
324.0	000.6000	0088.8	015.1		076.0	002.8349	0126.7	096.6	35.20