

Kate English  
Doug Vernier Telecommunications Consultants

WVPA Amendment - Rotate antenna -10°  
Vermont Public Radio  
CH# 203C2 - 88.5 MHz, Pwr= 0.85 kW DA, HAAT= 569.2 M, COR= 1002 M  
Average Protected F(50-50)= 41.92 km  
Standard Directional

REFERENCE  
44 34 15.0 N.  
71 53 38.0 W.

DISPLAY DATES  
DATA 05-06-11  
SEARCH 05-06-11

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*
203C3 WVPA St. Johnsbury		LIC _V_ VT	0.0 0.0	0.0 BMLED20090708AFM	44 34 15.0 71 53 38.0	0.290 568	94.9 1002	33.6 Vermont Public Radio	-132.6*	-135.7*
203C2 WVPA St. Johnsbury		APP DCX VT	0.0 0.0	0.0 BPED20070821AAA	44 34 15.0 71 53 38.0	0.850 569	94.9 1002	33.6 Vermont Public Radio	-132.6*	-135.7*
203C1 CBME-FM <sup>Λ</sup> Montréal		OP DHY QC	308.5 127.3	169.3 6858	45 30 20.0 73 35 30.0	100.000 299	173.6 326	86.0 Cbme-fm	-40.4*	-3.0
202A WNUB-FM Northfield		LIC _CN VT	232.2 51.6	77.2 BLED19890622KB	44 08 32.0 72 39 31.0	0.285 -118	10.5 283	7.3 The Trustees Of The Norwic	20.7	0.4
202A CFAK-FM <sup>Λ</sup> Sherbrooke		OP DHN QC	358.6 178.6	89.9 7126	45 22 46.0 71 55 16.0	6.000 100	35.4 333	38.0 Cfak-fm	17.6	11.0
204A 951214MA East Berkshire		APP _VN VT	302.3 121.7	75.2 BPED19951214MA	44 55 45.0 72 42 07.0	1.000 -147	14.2 154	10.2 Green Mountain Ed Fellowsh	26.7	12.1
256A WNYN-FM <sup>«</sup> Whitefield		LIC ZCX NH	152.8 332.9	27.2 BLH20070312AAL	44 21 10.0 71 44 15.0	0.460 346	2.5 701	24.8 Devon Broadcasting Company	15.0R	12.2M
205A CJMQ-FM <sup>«</sup> Lennoxville		OP _HN QC	3.1 183.1	91.9 4523	45 23 48.0 71 49 52.0	1.670 108	2.1 337	32.5 Cjmq-fm	78.0R	13.9M
204C2 WRVT Rutland		LIC DEX VT	224.1 43.3	140.4 BLED20101206ACJ	43 39 31.0 73 06 25.0	4.800 412	75.7 663	49.7 Vermont Public Radio	18.4	19.5
202B1 NEW Wakefield		CP DEX NH	148.4 328.9	113.6 BNPED20071018AXP	43 41 53.0 71 09 14.0	6.000 166	45.0 399	26.8 Light of Life Ministries,	27.8	19.9
204A WWPV-FM Colchester		LIC _CN VT	265.6 84.7	101.0 BLED19830204AB	44 29 38.0 73 09 51.0	0.100 25	8.0 123	5.6 Saint Michael's College	46.7	26.9
06 1C WRGB Schenectady		CP _HN NY	219.0 37.5	275.6 BPCDT20090622ABV	42 37 31.0 74 00 38.0	30.200 392	2.0 649	58.3 Freedom Broadcasting Of Ne	0.0R	275.6M
203A LRRP-487 <sup>Λ</sup> Thetford Mines		LR _HN QC	12.3 192.7	175.8	46 06 53.0 71 24 22.0	6.000 100	93.1 480	38.0 Lrrp-487	46.0	32.8
203A QUEFM-314 <sup>Λ</sup> Thetford-mines		AL _HN QC	12.3 192.7	175.8 0	46 06 53.0 71 24 22.0	6.000 100	93.1 480	38.0 Quefm-314	46.0	39.3
203A WRKJ Westbrook		CP DCX ME	129.1 310.2	162.0 BNPED20071012ATO	43 38 31.0 70 19 51.0	0.415 3	25.5 27	7.6 Word Radio Educational Fou	94.7	43.7

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 2, 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.  
Λ = Power and antenna height 'Max classed' as per Sec 73.215 protection requirements  
Reference station has protected zone issue: Canada

## 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.

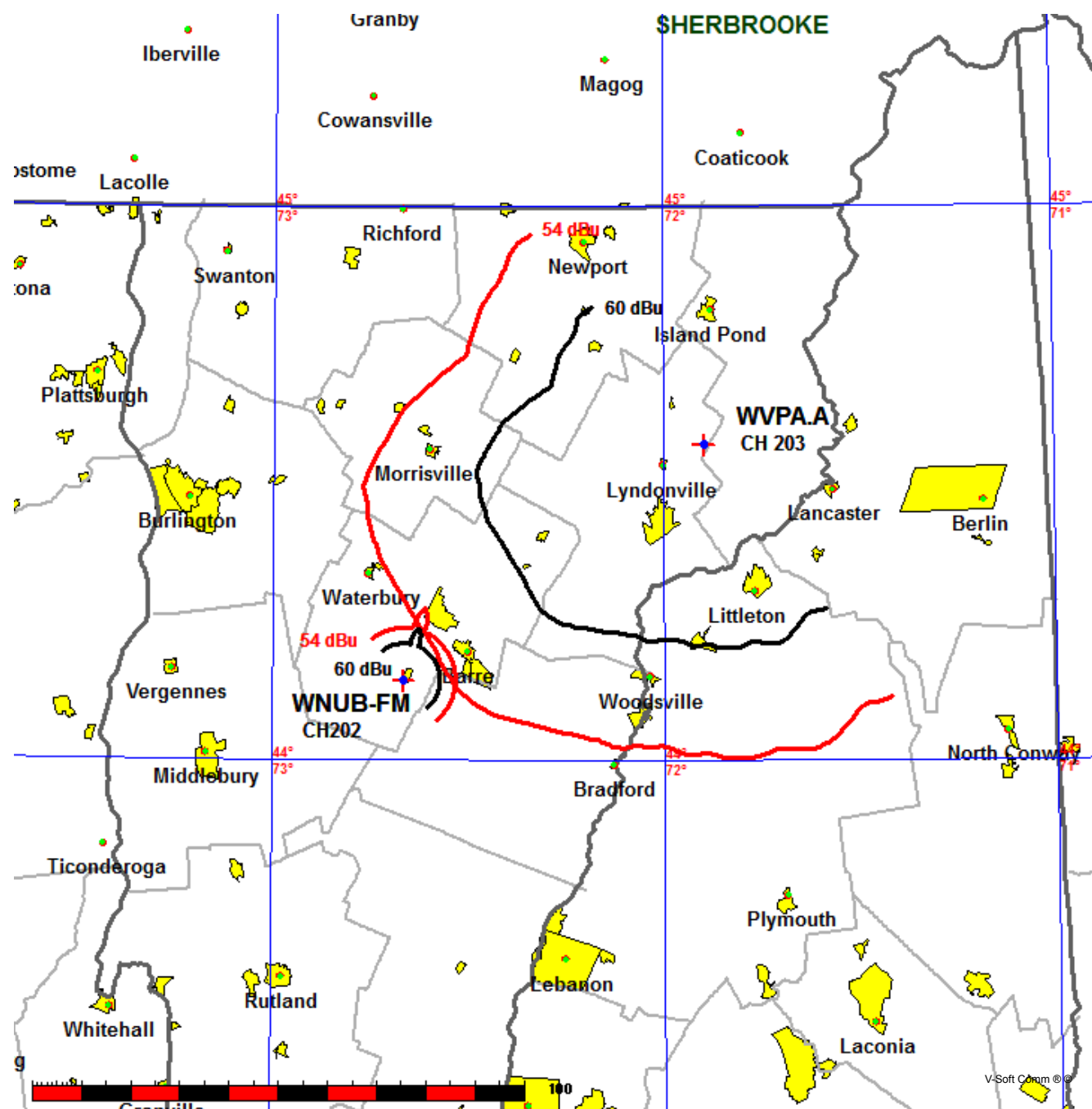
The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates with an omni-directional antenna. The fifth letter will 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.

WVPA Amendment - Rotate antenna -10°  
Vermont Public Radio

FMCommander Single Allocation Study - 05-06-2011 - FCC NGDC 30 Sec  
WVPA.A's Overlaps (In= 20.67 km, Out= 0.35 km)

WVPA.A CH 203 C2 DA  
Lat= 44 34 15.0, Lng= 71 53 38.0  
0.85 kW 569.2 M HAAT, 1002 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

WNUB-FM CH 202 A BLED19890622KB  
Lat= 44 08 32.0, Lng= 72 39 31.0  
0.285 kW -118 M HAAT, 283 M COR  
Prot.= 60 dBu, Intef.= 54 dBu



05-06-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WVPA.A

WNUB-FM BLED19890622KB

Channel = 203C2  
 Max ERP = 0.85 kW  
 RCAMSL = 1002 M  
 N. Lat. 44 34 15.0  
 W. Lng. 71 53 38.0  
 Protected  
 60 dBu

Channel = 202A  
 Max ERP = 0.285 kW  
 RCAMSL = 283 M  
 N. Lat. 44 08 32.0  
 W. Lng. 72 39 31.0  
 Interfering  
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
172.0	000.8500	0553.5	041.3	084.0	000.2850	-0113.7	067.1	26.99	
173.0	000.8500	0552.1	041.2	083.9	000.2850	-0113.6	066.3	27.13	
174.0	000.8500	0551.1	041.2	083.9	000.2850	-0113.5	065.6	27.26	
175.0	000.8500	0548.0	041.1	083.8	000.2850	-0113.1	064.9	27.39	
176.0	000.8500	0544.7	040.9	083.6	000.2850	-0112.7	064.2	27.53	
177.0	000.8500	0539.8	040.7	083.4	000.2850	-0112.0	063.5	27.66	
178.0	000.8500	0533.3	040.4	083.1	000.2850	-0111.0	062.8	27.79	
179.0	000.8500	0530.1	040.3	082.9	000.2850	-0110.2	062.1	27.93	
180.0	000.8500	0531.6	040.3	082.9	000.2850	-0110.2	061.4	28.07	
181.0	000.8500	0534.0	040.4	082.9	000.2850	-0110.3	060.7	28.21	
182.0	000.8500	0536.3	040.6	082.9	000.2850	-0110.3	060.0	28.36	
183.0	000.8500	0535.7	040.5	082.8	000.2850	-0109.7	059.3	28.50	
184.0	000.8500	0533.6	040.4	082.6	000.2850	-0108.6	058.6	28.64	
185.0	000.8500	0529.2	040.2	082.3	000.2850	-0106.4	058.0	28.77	
186.0	000.8500	0524.3	040.0	081.9	000.2850	-0104.0	057.3	28.91	
187.0	000.8500	0521.3	039.9	081.6	000.2850	-0102.2	056.7	29.04	
188.0	000.8500	0519.9	039.8	081.3	000.2850	-0100.7	056.1	29.18	
189.0	000.8500	0522.7	039.9	081.2	000.2850	-0100.3	055.4	29.33	
190.0	000.8500	0526.4	040.1	081.2	000.2850	-0099.9	054.6	29.48	
191.0	000.8500	0528.4	040.2	081.0	000.2850	-0099.1	054.0	29.63	
192.0	000.8500	0528.7	040.2	080.8	000.2850	-0097.8	053.3	29.78	
193.0	000.8500	0533.3	040.4	080.7	000.2850	-0097.5	052.6	29.93	
194.0	000.8500	0540.2	040.7	080.8	000.2850	-0097.6	051.8	30.10	
195.0	000.8500	0547.1	041.0	080.8	000.2850	-0097.6	051.0	30.27	
196.0	000.8500	0550.9	041.2	080.6	000.2850	-0096.7	050.3	30.43	
197.0	000.8500	0552.0	041.2	080.3	000.2850	-0095.2	049.6	30.57	
198.0	000.8500	0550.1	041.2	079.8	000.2850	-0093.2	049.0	30.70	
199.0	000.8500	0547.9	041.1	079.3	000.2850	-0091.3	048.4	30.83	
200.0	000.8500	0547.9	041.1	078.9	000.2850	-0090.0	047.8	30.96	
201.0	000.8500	0550.7	041.2	078.6	000.2850	-0089.2	047.2	31.11	
202.0	000.8500	0554.1	041.3	078.2	000.2850	-0088.4	046.5	31.27	
203.0	000.8500	0557.3	041.5	077.9	000.2850	-0087.5	045.8	31.44	
204.0	000.8500	0561.7	041.6	077.5	000.2850	-0086.6	045.1	31.61	
205.0	000.8500	0567.5	041.9	077.2	000.2850	-0085.8	044.4	31.80	
206.0	000.8500	0574.8	042.2	076.9	000.2850	-0085.1	043.6	32.00	
207.0	000.8500	0582.3	042.4	076.6	000.2850	-0084.4	042.9	32.21	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
208.0	000.8500	0589.7	042.7	076.2	000.2850	-0084.1	042.2	32.42
209.0	000.8500	0596.6	043.0	075.8	000.2850	-0083.7	041.4	32.64
210.0	000.8500	0603.7	043.2	075.3	000.2850	-0083.1	040.7	32.85
211.0	000.8500	0610.9	043.5	074.8	000.2850	-0082.0	040.0	33.08
212.0	000.8500	0619.0	043.8	074.3	000.2850	-0080.4	039.3	33.31
213.0	000.8500	0629.4	044.1	073.8	000.2850	-0078.7	038.5	33.56
214.0	000.8500	0640.8	044.5	073.3	000.2850	-0076.9	037.7	33.83
215.0	000.8500	0652.3	044.9	072.8	000.2850	-0075.0	036.9	34.11
216.0	000.8500	0663.2	045.3	072.1	000.2850	-0073.9	036.1	34.38
217.0	000.8500	0673.9	045.7	071.4	000.2850	-0073.9	035.4	34.65
218.0	000.8500	0683.7	046.0	070.7	000.2850	-0074.9	034.7	34.91
219.0	000.8500	0691.3	046.3	069.8	000.2850	-0076.5	034.0	35.15
220.0	000.8500	0697.5	046.5	068.7	000.2850	-0077.9	033.4	35.37
221.0	000.8500	0702.5	046.6	067.6	000.2850	-0078.3	032.9	35.57
222.0	000.8500	0706.6	046.8	066.5	000.2850	-0079.5	032.4	35.75
223.0	000.8500	0709.8	046.9	065.2	000.2850	-0080.8	032.0	35.91
224.0	000.8500	0711.5	046.9	063.9	000.2850	-0081.4	031.7	36.05
225.0	000.8500	0711.0	046.9	062.5	000.2850	-0081.0	031.4	36.16
226.0	000.8500	0708.8	046.8	061.0	000.2850	-0081.1	031.2	36.23
227.0	000.8500	0705.2	046.7	059.5	000.2850	-0080.0	031.2	36.26
228.0	000.8500	0700.7	046.6	057.9	000.2850	-0077.1	031.1	36.27
229.0	000.8500	0695.9	046.4	056.4	000.2850	-0075.6	031.2	36.25
230.0	000.8500	0690.6	046.2	054.9	000.2850	-0076.2	031.3	36.22
231.0	000.8500	0685.2	046.0	053.4	000.2850	-0076.7	031.4	36.16
232.0	000.8500	0679.9	045.9	052.0	000.2850	-0075.9	031.6	36.09
233.0	000.8500	0675.1	045.7	050.5	000.2850	-0075.5	031.7	36.02
234.0	000.8500	0671.3	045.6	049.1	000.2850	-0073.8	031.9	35.95
235.0	000.8500	0668.8	045.5	047.7	000.2850	-0071.0	032.1	35.88
236.0	000.8500	0668.0	045.5	046.3	000.2850	-0068.2	032.2	35.83
237.0	000.8500	0668.5	045.5	044.9	000.2850	-0064.1	032.3	35.78
238.0	000.8500	0669.8	045.5	043.5	000.2850	-0059.8	032.5	35.72
239.0	000.8500	0670.9	045.6	042.2	000.2850	-0056.4	032.7	35.66
240.0	000.8500	0671.2	045.6	040.8	000.2850	-0054.1	032.9	35.57
241.0	000.8500	0671.2	045.6	039.5	000.2850	-0053.9	033.2	35.46
242.0	000.8500	0671.2	045.6	038.3	000.2850	-0055.1	033.5	35.35
243.0	000.8500	0671.7	045.6	037.0	000.2850	-0056.5	033.8	35.23
244.0	000.8500	0673.2	045.6	035.8	000.2850	-0058.9	034.1	35.11
245.0	000.8500	0676.5	045.7	034.5	000.2850	-0062.6	034.4	35.00
246.0	000.8500	0680.7	045.9	033.3	000.2850	-0063.6	034.7	34.89
247.0	000.8500	0685.4	046.1	032.0	000.2850	-0060.5	035.0	34.78
248.0	000.8500	0690.4	046.2	030.8	000.2850	-0054.6	035.3	34.66
249.0	000.8500	0694.6	046.4	029.6	000.2850	-0044.7	035.7	34.52
250.0	000.8500	0697.6	046.5	028.6	000.2850	-0031.2	036.2	34.36
251.0	000.8500	0698.9	046.5	027.6	000.2850	-0016.8	036.7	34.18
252.0	000.8500	0699.6	046.5	026.6	000.2850	-0003.4	037.2	33.99
253.0	000.8500	0700.6	046.6	025.7	000.2850	0008.1	037.8	33.80
254.0	000.8500	0701.8	046.6	024.9	000.2850	0017.9	038.4	33.60
255.0	000.8500	0703.2	046.7	024.0	000.2850	0026.3	039.0	33.41
256.0	000.8500	0704.9	046.7	023.2	000.2850	0033.9	039.6	34.01
257.0	000.8500	0704.5	046.7	022.6	000.2850	0039.8	040.2	34.96
258.0	000.8500	0702.3	046.6	022.0	000.2850	0044.2	040.9	35.51

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
259.0	000.8500	0698.9	046.5	021.5	000.2850	0047.3	041.7	35.79
260.0	000.8500	0697.2	046.4	021.0	000.2850	0049.9	042.4	35.95
261.0	000.8500	0698.3	046.5	020.4	000.2850	0052.2	043.1	36.06
262.0	000.8500	0700.2	046.6	019.8	000.2850	0054.1	043.8	36.09
263.0	000.8500	0701.6	046.6	019.2	000.2850	0055.7	044.5	36.07
264.0	000.8149	0701.5	046.2	019.3	000.2850	0055.6	045.4	35.77
265.0	000.7806	0700.0	045.7	019.4	000.2850	0055.3	046.3	35.42
266.0	000.7470	0699.0	045.3	019.5	000.2850	0055.0	047.2	35.10
267.0	000.7141	0698.3	044.8	019.6	000.2850	0054.6	048.1	34.77
268.0	000.6820	0697.9	044.4	019.7	000.2850	0054.2	049.0	34.46
269.0	000.6506	0696.4	043.9	019.9	000.2850	0053.6	049.9	34.11
270.0	000.6199	0694.4	043.3	020.2	000.2850	0052.9	050.8	33.75
271.0	000.5948	0692.5	042.9	020.3	000.2850	0052.3	051.6	33.42
272.0	000.5701	0691.4	042.5	020.5	000.2850	0051.6	052.5	33.09
273.0	000.5460	0693.3	042.1	020.6	000.2850	0051.3	053.3	32.81
274.0	000.5225	0694.3	041.7	020.8	000.2850	0050.7	054.1	32.50
275.0	000.4994	0695.5	041.4	020.9	000.2850	0050.1	054.9	32.19
276.0	000.4769	0694.9	040.9	021.2	000.2850	0049.0	055.7	31.84
277.0	000.4548	0689.8	040.3	021.6	000.2850	0046.9	056.6	31.35
278.0	000.4333	0685.3	039.7	021.9	000.2850	0044.4	057.4	30.82
279.0	000.4123	0679.6	039.1	022.4	000.2850	0041.2	058.2	30.22
280.0	000.3919	0672.0	038.4	022.9	000.2850	0037.0	059.0	29.49
281.0	000.3763	0665.5	037.8	023.3	000.2850	0033.5	059.8	28.86
282.0	000.3611	0659.2	037.3	023.7	000.2850	0029.9	060.5	28.24
283.0	000.3462	0654.2	036.7	024.0	000.2850	0026.4	061.3	28.10
284.0	000.3316	0649.8	036.2	024.4	000.2850	0022.9	062.0	27.95
285.0	000.3173	0645.3	035.7	024.8	000.2850	0019.2	062.7	27.81
286.0	000.3034	0641.3	035.2	025.1	000.2850	0015.3	063.4	27.68
287.0	000.2897	0637.0	034.6	025.5	000.2850	0010.9	064.1	27.55
288.0	000.2764	0633.1	034.1	025.9	000.2850	0006.4	064.8	27.42
289.0	000.2633	0631.2	033.6	026.2	000.2850	0002.0	065.4	27.30
290.0	000.2506	0631.4	033.2	026.5	000.2850	-0001.9	066.0	27.18
291.0	000.2503	0632.9	033.2	026.4	000.2850	-0000.8	066.6	27.08

05-06-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WNUB-FM BLED19890622KB

WVPA.A

Channel = 202A

Max ERP = 0.285 kW

RCAMSL = 283 M

N. Lat. 44 08 32.0

W. Lng. 72 39 31.0

Protected

60 dBu

Channel = 203C2

Max ERP = 0.85 kW

RCAMSL = 1002 M

N. Lat. 44 34 15.0

W. Lng. 71 53 38.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
352.0	000.2850	-0070.6	007.3	237.1	000.8500	0668.7	073.8	52.31	
353.0	000.2850	-0064.2	007.3	237.0	000.8500	0668.6	073.7	52.34	
354.0	000.2850	-0055.8	007.3	237.0	000.8500	0668.5	073.6	52.37	
355.0	000.2850	-0045.4	007.3	237.0	000.8500	0668.5	073.5	52.41	
356.0	000.2850	-0033.1	007.3	236.9	000.8500	0668.5	073.4	52.44	
357.0	000.2850	-0021.0	007.3	236.9	000.8500	0668.4	073.2	52.48	
358.0	000.2850	-0009.8	007.3	236.8	000.8500	0668.4	073.1	52.51	
359.0	000.2850	0000.2	007.3	236.8	000.8500	0668.3	073.0	52.54	
000.0	000.2850	0010.1	007.3	236.7	000.8500	0668.3	072.9	52.57	
001.0	000.2850	0010.4	007.3	236.6	000.8500	0668.3	072.8	52.61	
002.0	000.2850	0009.5	007.3	236.6	000.8500	0668.2	072.7	52.64	
003.0	000.2850	0008.3	007.3	236.5	000.8500	0668.2	072.6	52.67	
004.0	000.2850	0005.5	007.3	236.5	000.8500	0668.2	072.5	52.70	
005.0	000.2850	0004.7	007.3	236.4	000.8500	0668.1	072.4	52.73	
006.0	000.2850	0003.6	007.3	236.3	000.8500	0668.1	072.3	52.76	
007.0	000.2850	0004.1	007.3	236.3	000.8500	0668.0	072.2	52.79	
008.0	000.2850	0010.0	007.3	236.2	000.8500	0668.0	072.1	52.82	
009.0	000.2850	0018.1	007.3	236.1	000.8500	0668.0	072.0	52.85	
010.0	000.2850	0028.1	007.3	236.1	000.8500	0668.0	071.9	52.88	
011.0	000.2850	0036.1	008.0	236.4	000.8500	0668.1	071.4	53.05	
012.0	000.2850	0043.8	008.9	236.8	000.8500	0668.4	070.6	53.29	
013.0	000.2850	0049.5	009.5	237.1	000.8500	0668.6	070.0	53.47	
014.0	000.2850	0054.0	010.0	237.2	000.8500	0668.8	069.6	53.61	
015.0	000.2850	0057.8	010.3	237.3	000.8500	0668.9	069.2	53.73	
016.0	000.2850	0061.4	010.6	237.3	000.8500	0669.0	068.9	53.84	
017.0	000.2850	0062.2	010.7	237.2	000.8500	0668.9	068.7	53.89	
018.0	000.2850	0060.1	010.5	237.0	000.8500	0668.6	068.7	53.88	
019.0	000.2850	0056.5	010.2	236.8	000.8500	0668.4	068.9	53.84	
020.0	000.2850	0053.3	009.9	236.5	000.8500	0668.2	069.0	53.80	
021.0	000.2850	0049.7	009.6	236.2	000.8500	0668.0	069.2	53.73	
022.0	000.2850	0044.0	008.9	235.8	000.8500	0668.1	069.6	53.60	
023.0	000.2850	0036.1	008.0	235.3	000.8500	0668.3	070.3	53.38	
024.0	000.2850	0026.6	007.3	234.9	000.8500	0669.0	070.8	53.23	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
025.0	000.2850	0016.5	007.3	234.8	000.8500	0669.2	070.8	53.26
026.0	000.2850	0004.9	007.3	234.7	000.8500	0669.4	070.7	53.28
027.0	000.2850	-0008.6	007.3	234.7	000.8500	0669.6	070.6	53.30
028.0	000.2850	-0023.2	007.3	234.6	000.8500	0669.8	070.6	53.32
029.0	000.2850	-0037.1	007.3	234.5	000.8500	0670.1	070.5	53.34
030.0	000.2850	-0048.3	007.3	234.4	000.8500	0670.3	070.5	53.36
031.0	000.2850	-0055.7	007.3	234.3	000.8500	0670.5	070.4	53.38
032.0	000.2850	-0060.4	007.3	234.2	000.8500	0670.7	070.4	53.40
033.0	000.2850	-0063.2	007.3	234.1	000.8500	0671.0	070.3	53.42
034.0	000.2850	-0063.6	007.3	234.0	000.8500	0671.3	070.3	53.43
035.0	000.2850	-0061.3	007.3	233.9	000.8500	0671.7	070.2	53.45
036.0	000.2850	-0058.3	007.3	233.8	000.8500	0672.0	070.2	53.47
037.0	000.2850	-0056.5	007.3	233.7	000.8500	0672.4	070.2	53.48
038.0	000.2850	-0055.4	007.3	233.6	000.8500	0672.7	070.1	53.50
039.0	000.2850	-0054.2	007.3	233.5	000.8500	0673.1	070.1	53.52
040.0	000.2850	-0053.6	007.3	233.4	000.8500	0673.5	070.1	53.53
041.0	000.2850	-0054.3	007.3	233.3	000.8500	0673.9	070.0	53.54
042.0	000.2850	-0056.1	007.3	233.2	000.8500	0674.3	070.0	53.56
043.0	000.2850	-0058.2	007.3	233.1	000.8500	0674.7	070.0	53.57
044.0	000.2850	-0061.2	007.3	233.0	000.8500	0675.2	070.0	53.58
045.0	000.2850	-0064.4	007.3	232.9	000.8500	0675.6	070.0	53.59
046.0	000.2850	-0067.4	007.3	232.8	000.8500	0676.0	069.9	53.60
047.0	000.2850	-0069.7	007.3	232.7	000.8500	0676.5	069.9	53.62
048.0	000.2850	-0071.6	007.3	232.6	000.8500	0677.1	069.9	53.63
049.0	000.2850	-0073.7	007.3	232.5	000.8500	0677.6	069.9	53.64
050.0	000.2850	-0075.1	007.3	232.3	000.8500	0678.2	069.9	53.64
051.0	000.2850	-0075.7	007.3	232.2	000.8500	0678.7	069.9	53.65
052.0	000.2850	-0075.9	007.3	232.1	000.8500	0679.2	069.9	53.66
053.0	000.2850	-0076.5	007.3	232.0	000.8500	0679.8	069.9	53.67
054.0	000.2850	-0076.6	007.3	231.9	000.8500	0680.3	069.9	53.67
055.0	000.2850	-0076.1	007.3	231.8	000.8500	0680.8	069.9	53.68
056.0	000.2850	-0075.7	007.3	231.7	000.8500	0681.3	069.9	53.68
057.0	000.2850	-0075.9	007.3	231.6	000.8500	0681.9	069.9	53.69
058.0	000.2850	-0077.2	007.3	231.5	000.8500	0682.4	070.0	53.69
059.0	000.2850	-0079.2	007.3	231.4	000.8500	0683.0	070.0	53.69
060.0	000.2850	-0080.6	007.3	231.3	000.8500	0683.6	070.0	53.69
061.0	000.2850	-0081.1	007.3	231.2	000.8500	0684.1	070.0	53.70
062.0	000.2850	-0081.0	007.3	231.1	000.8500	0684.7	070.0	53.69
063.0	000.2850	-0081.2	007.3	231.0	000.8500	0685.2	070.1	53.69
064.0	000.2850	-0081.4	007.3	230.9	000.8500	0685.7	070.1	53.69
065.0	000.2850	-0080.9	007.3	230.8	000.8500	0686.2	070.1	53.69
066.0	000.2850	-0080.0	007.3	230.7	000.8500	0686.7	070.2	53.69
067.0	000.2850	-0078.9	007.3	230.6	000.8500	0687.2	070.2	53.68
068.0	000.2850	-0078.1	007.3	230.5	000.8500	0687.7	070.2	53.68
069.0	000.2850	-0077.6	007.3	230.4	000.8500	0688.3	070.3	53.67
070.0	000.2850	-0076.1	007.3	230.3	000.8500	0688.9	070.3	53.67
071.0	000.2850	-0074.4	007.3	230.2	000.8500	0689.5	070.4	53.66
072.0	000.2850	-0073.8	007.3	230.1	000.8500	0690.0	070.4	53.65
073.0	000.2850	-0075.7	007.3	230.0	000.8500	0690.6	070.5	53.65
074.0	000.2850	-0079.4	007.3	229.9	000.8500	0691.1	070.5	53.64
075.0	000.2850	-0082.5	007.3	229.8	000.8500	0691.6	070.6	53.63



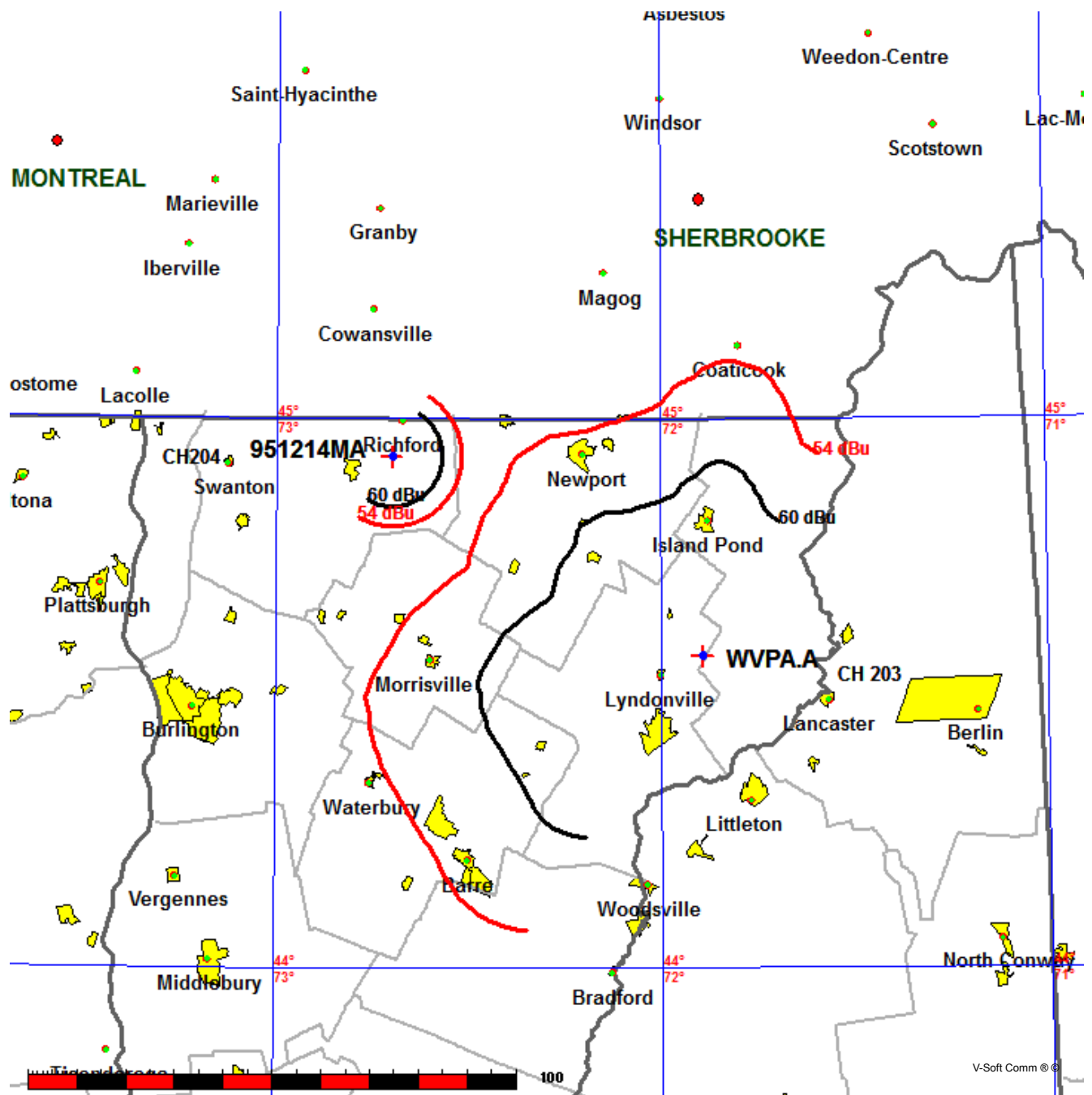
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
076.0	000.2850	-0083.9	007.3	229.7	000.8500	0692.1	070.6	53.62
077.0	000.2850	-0085.3	007.3	229.6	000.8500	0692.6	070.7	53.60
078.0	000.2850	-0087.8	007.3	229.5	000.8500	0693.1	070.7	53.59
079.0	000.2850	-0090.3	007.3	229.5	000.8500	0693.5	070.8	53.58
080.0	000.2850	-0093.9	007.3	229.4	000.8500	0694.0	070.9	53.57
081.0	000.2850	-0098.9	007.3	229.3	000.8500	0694.5	070.9	53.55
082.0	000.2850	-0104.8	007.3	229.2	000.8500	0694.9	071.0	53.54
083.0	000.2850	-0110.6	007.3	229.1	000.8500	0695.4	071.1	53.52
084.0	000.2850	-0113.8	007.3	229.0	000.8500	0695.8	071.2	53.50
085.0	000.2850	-0117.6	007.3	228.9	000.8500	0696.2	071.2	53.49
086.0	000.2850	-0121.0	007.3	228.9	000.8500	0696.6	071.3	53.47
087.0	000.2850	-0124.5	007.3	228.8	000.8500	0697.0	071.4	53.45
088.0	000.2850	-0127.7	007.3	228.7	000.8500	0697.4	071.5	53.43
089.0	000.2850	-0130.9	007.3	228.6	000.8500	0697.7	071.5	53.41
090.0	000.2850	-0134.2	007.3	228.5	000.8500	0698.1	071.6	53.39
091.0	000.2850	-0137.8	007.3	228.5	000.8500	0698.4	071.7	53.37
092.0	000.2850	-0140.2	007.3	228.4	000.8500	0698.8	071.8	53.34
093.0	000.2850	-0142.5	007.3	228.3	000.8500	0699.1	071.9	53.32
094.0	000.2850	-0144.7	007.3	228.2	000.8500	0699.5	072.0	53.30
095.0	000.2850	-0147.2	007.3	228.2	000.8500	0699.8	072.1	53.27
096.0	000.2850	-0148.5	007.3	228.1	000.8500	0700.2	072.2	53.25
097.0	000.2850	-0149.4	007.3	228.0	000.8500	0700.5	072.3	53.23
098.0	000.2850	-0148.6	007.3	228.0	000.8500	0700.8	072.4	53.20
099.0	000.2850	-0146.8	007.3	227.9	000.8500	0701.1	072.5	53.17
100.0	000.2850	-0147.0	007.3	227.8	000.8500	0701.4	072.6	53.15
101.0	000.2850	-0148.4	007.3	227.8	000.8500	0701.7	072.7	53.12
102.0	000.2850	-0150.7	007.3	227.7	000.8500	0702.0	072.8	53.09
103.0	000.2850	-0153.4	007.3	227.7	000.8500	0702.3	072.9	53.06
104.0	000.2850	-0156.3	007.3	227.6	000.8500	0702.5	073.0	53.03
105.0	000.2850	-0158.7	007.3	227.6	000.8500	0702.8	073.1	53.01
106.0	000.2850	-0160.3	007.3	227.5	000.8500	0703.1	073.2	52.98
107.0	000.2850	-0161.7	007.3	227.5	000.8500	0703.3	073.3	52.95
108.0	000.2850	-0164.6	007.3	227.4	000.8500	0703.5	073.4	52.91
109.0	000.2850	-0168.8	007.3	227.4	000.8500	0703.7	073.5	52.88
110.0	000.2850	-0173.9	007.3	227.3	000.8500	0703.9	073.7	52.85
111.0	000.2850	-0177.5	007.3	227.3	000.8500	0704.1	073.8	52.82

WVPA Amendment - Rotate antenna -10°  
Vermont Public Radio

FMCommander Single Allocation Study - 05-06-2011 - FCC NGDC 30 Sec  
WVPA.A's Overlaps (In= 26.7 km, Out= 12.1 km)

WVPA.A CH 203 C2 DA  
Lat= 44 34 15.0, Lng= 71 53 38.0  
0.85 kW 569.2 M HAAT, 1002 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

951214MA CH 204 A BPED19951214MA  
Lat= 44 55 45.0, Lng= 72 42 07.0  
1.0 kW -147 M HAAT, 154 M COR  
Prot.= 60 dBu, Intef.= 54 dBu



05-06-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WVPA.A

951214MA BPED19951214MA

Channel = 203C2  
 Max ERP = 0.85 kW  
 RCAMSL = 1002 M  
 N. Lat. 44 34 15.0  
 W. Lng. 71 53 38.0  
 Protected  
 60 dBu

Channel = 204A  
 Max ERP = 1 kW  
 RCAMSL = 154 M  
 N. Lat. 44 55 45.0  
 W. Lng. 72 42 07.0  
 Interfering  
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
242.0	000.8500	0671.2	045.6	158.7	001.0000	-0238.6	065.7	32.70	
243.0	000.8500	0671.7	045.6	158.8	001.0000	-0239.2	064.9	32.84	
244.0	000.8500	0673.2	045.6	158.9	001.0000	-0240.9	064.1	32.99	
245.0	000.8500	0676.5	045.7	159.0	001.0000	-0243.5	063.3	33.14	
246.0	000.8500	0680.7	045.9	159.2	001.0000	-0246.5	062.5	33.30	
247.0	000.8500	0685.4	046.1	159.4	001.0000	-0249.7	061.8	33.45	
248.0	000.8500	0690.4	046.2	159.6	001.0000	-0253.1	061.0	33.61	
249.0	000.8500	0694.6	046.4	159.7	001.0000	-0256.0	060.1	33.78	
250.0	000.8500	0697.6	046.5	159.8	001.0000	-0258.0	059.3	33.94	
251.0	000.8500	0698.9	046.5	159.9	001.0000	-0258.7	058.5	34.11	
252.0	000.8500	0699.6	046.5	159.9	001.0000	-0258.9	057.7	34.28	
253.0	000.8500	0700.6	046.6	159.9	001.0000	-0258.9	056.9	34.45	
254.0	000.8500	0701.8	046.6	159.9	001.0000	-0258.8	056.1	34.63	
255.0	000.8500	0703.2	046.7	159.9	001.0000	-0258.5	055.3	34.80	
256.0	000.8500	0704.9	046.7	159.9	001.0000	-0258.1	054.4	34.98	
257.0	000.8500	0704.5	046.7	159.7	001.0000	-0256.0	053.6	35.15	
258.0	000.8500	0702.3	046.6	159.6	001.0000	-0252.5	052.8	35.32	
259.0	000.8500	0698.9	046.5	159.3	001.0000	-0247.9	052.1	35.50	
260.0	000.8500	0697.2	046.4	159.1	001.0000	-0244.2	051.3	35.67	
261.0	000.8500	0698.3	046.5	158.9	001.0000	-0242.0	050.5	35.84	
262.0	000.8500	0700.2	046.6	158.8	001.0000	-0240.1	049.7	36.02	
263.0	000.8500	0701.6	046.6	158.6	001.0000	-0237.7	048.8	36.19	
264.0	000.8149	0701.5	046.2	157.9	001.0000	-0228.6	048.2	36.34	
265.0	000.7806	0700.0	045.7	157.1	001.0000	-0221.3	047.5	36.48	
266.0	000.7470	0699.0	045.3	156.3	001.0000	-0216.9	046.9	36.62	
267.0	000.7141	0698.3	044.8	155.4	001.0000	-0213.9	046.3	36.76	
268.0	000.6820	0697.9	044.4	154.6	001.0000	-0211.7	045.8	36.89	
269.0	000.6506	0696.4	043.9	153.6	001.0000	-0209.0	045.3	37.02	
270.0	000.6199	0694.4	043.3	152.6	001.0000	-0205.9	044.8	37.13	
271.0	000.5948	0692.5	042.9	151.6	001.0000	-0204.3	044.4	37.25	
272.0	000.5701	0691.4	042.5	150.7	001.0000	-0202.3	044.0	37.37	
273.0	000.5460	0693.3	042.1	149.8	001.0000	-0199.4	043.5	37.49	
274.0	000.5225	0694.3	041.7	148.8	001.0000	-0195.8	043.1	37.60	
275.0	000.4994	0695.5	041.4	147.8	001.0000	-0193.7	042.8	37.70	
276.0	000.4769	0694.9	040.9	146.8	001.0000	-0192.2	042.5	37.79	
277.0	000.4548	0689.8	040.3	145.5	001.0000	-0189.2	042.3	37.83	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
278.0	000.4333	0685.3	039.7	144.3	001.0000	-0184.0	042.2	37.87
279.0	000.4123	0679.6	039.1	143.0	001.0000	-0177.6	042.1	37.88
280.0	000.3919	0672.0	038.4	141.7	001.0000	-0174.8	042.2	37.87
281.0	000.3763	0665.5	037.8	140.5	001.0000	-0176.6	042.2	37.87
282.0	000.3611	0659.2	037.3	139.4	001.0000	-0181.7	042.2	37.86
283.0	000.3462	0654.2	036.7	138.2	001.0000	-0189.1	042.2	37.85
284.0	000.3316	0649.8	036.2	137.1	001.0000	-0198.1	042.3	37.83
285.0	000.3173	0645.3	035.7	136.0	001.0000	-0208.9	042.4	37.80
286.0	000.3034	0641.3	035.2	135.0	001.0000	-0218.7	042.6	37.76
287.0	000.2897	0637.0	034.6	133.9	001.0000	-0225.8	042.7	37.71
288.0	000.2764	0633.1	034.1	132.9	001.0000	-0227.4	042.9	37.65
289.0	000.2633	0631.2	033.6	131.9	001.0000	-0222.1	043.1	37.59
290.0	000.2506	0631.4	033.2	131.0	001.0000	-0212.2	043.3	37.55
291.0	000.2503	0632.9	033.2	130.3	001.0000	-0202.9	043.1	37.61
292.0	000.2500	0635.4	033.3	129.6	001.0000	-0192.7	042.8	37.68
293.0	000.2497	0638.1	033.4	128.8	001.0000	-0181.8	042.6	37.75
294.0	000.2494	0641.1	033.5	128.1	001.0000	-0169.8	042.4	37.82
295.0	000.2491	0644.5	033.5	127.4	001.0000	-0156.5	042.1	37.88
296.0	000.2488	0648.7	033.7	126.6	001.0000	-0142.8	041.9	37.95
297.0	000.2485	0653.8	033.8	125.9	001.0000	-0129.4	041.7	38.02
298.0	000.2482	0659.2	033.9	125.1	001.0000	-0118.0	041.4	38.09
299.0	000.2479	0663.9	034.1	124.3	001.0000	-0109.7	041.2	38.15
300.0	000.2506	0666.0	034.2	123.5	001.0000	-0105.9	041.0	38.21
301.0	000.2544	0664.7	034.3	122.6	001.0000	-0104.5	040.9	38.25
302.0	000.2582	0660.9	034.3	121.8	001.0000	-0105.2	040.9	38.26
303.0	000.2621	0656.2	034.3	121.0	001.0000	-0107.1	040.9	38.26
304.0	000.2660	0651.0	034.3	120.1	001.0000	-0110.1	040.9	38.24
305.0	000.2699	0646.2	034.3	119.3	001.0000	-0114.5	041.0	38.22
306.0	000.2738	0641.3	034.3	118.5	001.0000	-0121.7	041.1	38.20
307.0	000.2778	0636.6	034.3	117.6	001.0000	-0131.0	041.2	38.17
308.0	000.2818	0633.2	034.3	116.8	001.0000	-0142.8	041.3	38.14
309.0	000.2858	0632.1	034.4	116.0	001.0000	-0156.5	041.3	38.13
310.0	000.2899	0634.2	034.6	115.1	001.0000	-0171.2	041.2	38.15
311.0	000.2899	0640.1	034.7	114.2	001.0000	-0185.1	041.2	38.15
312.0	000.2899	0649.5	035.0	113.3	001.0000	-0197.8	041.1	38.18
313.0	000.2899	0661.0	035.4	112.3	001.0000	-0209.9	041.0	38.22
314.0	000.2899	0672.4	035.7	111.4	001.0000	-0220.9	040.9	38.24
315.0	000.2899	0680.9	036.0	110.4	001.0000	-0232.4	040.9	38.24
316.0	000.2899	0684.8	036.1	109.6	001.0000	-0242.7	041.1	38.19
317.0	000.2899	0683.8	036.1	108.8	001.0000	-0249.8	041.4	38.10
318.0	000.2899	0680.1	035.9	108.1	001.0000	-0254.8	041.8	37.98
319.0	000.2899	0675.2	035.8	107.5	001.0000	-0259.0	042.2	37.85
320.0	000.2899	0671.0	035.7	106.8	001.0000	-0263.6	042.7	37.72
321.0	000.2899	0667.6	035.6	106.2	001.0000	-0268.6	043.1	37.60
322.0	000.2899	0664.3	035.5	105.6	001.0000	-0274.0	043.5	37.48
323.0	000.2899	0660.9	035.4	105.1	001.0000	-0278.9	044.0	37.36
324.0	000.2899	0656.0	035.2	104.6	001.0000	-0282.7	044.5	37.23
325.0	000.2899	0647.8	035.0	104.2	001.0000	-0285.5	045.1	37.07
326.0	000.2899	0637.3	034.7	103.8	001.0000	-0287.4	045.7	36.91
327.0	000.2899	0625.8	034.3	103.6	001.0000	-0288.9	046.4	36.75
328.0	000.2899	0614.7	034.0	103.3	001.0000	-0290.2	047.0	36.60

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
329.0	000.2899	0604.0	033.7	103.1	001.0000	-0291.4	047.7	36.45
330.0	000.2899	0594.3	033.4	102.9	001.0000	-0292.5	048.3	36.31
331.0	000.2899	0585.9	033.1	102.6	001.0000	-0293.7	048.9	36.18
332.0	000.2899	0579.2	032.9	102.4	001.0000	-0295.3	049.5	36.06
333.0	000.2899	0574.6	032.7	102.1	001.0000	-0297.6	050.0	35.94
334.0	000.2899	0571.8	032.6	101.8	001.0000	-0300.5	050.5	35.84
335.0	000.2899	0570.2	032.6	101.4	001.0000	-0304.1	051.0	35.73
336.0	000.2899	0568.7	032.5	101.1	001.0000	-0307.8	051.5	35.63
337.0	000.2899	0566.5	032.5	100.8	001.0000	-0311.1	052.0	35.52
338.0	000.2899	0563.6	032.4	100.5	001.0000	-0314.2	052.5	35.40
339.0	000.2899	0561.8	032.3	100.3	001.0000	-0317.5	053.0	35.29
340.0	000.2899	0561.4	032.3	100.0	001.0000	-0321.3	053.5	35.19
341.0	000.2899	0561.6	032.3	099.7	001.0000	-0325.3	054.0	35.08
342.0	000.2899	0561.6	032.3	099.4	001.0000	-0329.2	054.5	34.97
343.0	000.2899	0561.2	032.3	099.1	001.0000	-0333.0	055.0	34.87
344.0	000.2899	0561.0	032.3	098.9	001.0000	-0337.0	055.5	34.76
345.0	000.2899	0561.9	032.3	098.6	001.0000	-0341.8	056.0	34.65
346.0	000.2899	0564.3	032.4	098.3	001.0000	-0347.8	056.5	34.55
347.0	000.2899	0568.0	032.5	098.0	001.0000	-0353.9	056.9	34.45
348.0	000.2899	0572.1	032.7	097.6	001.0000	-0359.8	057.4	34.34
349.0	000.2899	0577.1	032.8	097.3	001.0000	-0365.7	057.9	34.24
350.0	000.2899	0582.8	033.0	096.9	001.0000	-0371.3	058.4	34.14
351.0	000.3051	0588.0	033.6	096.2	001.0000	-0381.7	058.8	34.06
352.0	000.3207	0592.9	034.2	095.5	001.0000	-0388.7	059.2	33.97
353.0	000.3366	0597.8	034.8	094.9	001.0000	-0394.2	059.6	33.88
354.0	000.3530	0598.3	035.2	094.3	001.0000	-0397.7	060.2	33.77
355.0	000.3697	0598.1	035.6	093.9	001.0000	-0400.9	060.7	33.67
356.0	000.3868	0594.1	035.8	093.5	001.0000	-0403.2	061.3	33.55
357.0	000.4043	0591.6	036.2	093.2	001.0000	-0405.6	061.8	33.43
358.0	000.4222	0587.9	036.4	092.9	001.0000	-0407.8	062.4	33.32
359.0	000.4405	0595.2	037.0	092.3	001.0000	-0413.7	063.0	33.20
000.0	000.4592	0603.4	037.6	091.7	001.0000	-0415.3	063.7	33.08
001.0	000.4655	0612.3	038.1	091.3	001.0000	-0412.7	064.3	32.96

05-06-2011

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

951214MA BPED19951214MA

WVPA.A

Channel = 204A

Max ERP = 1 kW

RCAMSL = 154 M

N. Lat. 44 55 45.0

W. Lng. 72 42 07.0

Protected

60 dBu

Channel = 203C2

Max ERP = 0.85 kW

RCAMSL = 1002 M

N. Lat. 44 34 15.0

W. Lng. 71 53 38.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
062.0	001.0000	-0264.7	010.2	309.4	000.2874	0632.5	070.7	48.05	
063.0	001.0000	-0273.7	010.2	309.3	000.2871	0632.4	070.5	48.10	
064.0	001.0000	-0283.4	010.2	309.3	000.2869	0632.3	070.4	48.14	
065.0	001.0000	-0293.9	010.2	309.2	000.2866	0632.2	070.2	48.19	
066.0	001.0000	-0302.8	010.2	309.1	000.2864	0632.2	070.0	48.24	
067.0	001.0000	-0311.1	010.2	309.1	000.2861	0632.1	069.9	48.28	
068.0	001.0000	-0320.2	010.2	309.0	000.2858	0632.1	069.7	48.33	
069.0	001.0000	-0332.7	010.2	308.9	000.2855	0632.1	069.6	48.37	
070.0	001.0000	-0348.3	010.2	308.8	000.2852	0632.1	069.4	48.41	
071.0	001.0000	-0365.2	010.2	308.8	000.2849	0632.1	069.3	48.46	
072.0	001.0000	-0379.1	010.2	308.7	000.2846	0632.1	069.1	48.50	
073.0	001.0000	-0390.0	010.2	308.6	000.2842	0632.2	069.0	48.54	
074.0	001.0000	-0401.2	010.2	308.5	000.2839	0632.3	068.8	48.58	
075.0	001.0000	-0416.9	010.2	308.4	000.2835	0632.4	068.7	48.63	
076.0	001.0000	-0436.2	010.2	308.3	000.2832	0632.5	068.6	48.67	
077.0	001.0000	-0452.3	010.2	308.2	000.2828	0632.7	068.4	48.71	
078.0	001.0000	-0462.9	010.2	308.1	000.2824	0632.9	068.3	48.75	
079.0	001.0000	-0468.8	010.2	308.0	000.2820	0633.1	068.2	48.79	
080.0	001.0000	-0467.9	010.2	307.9	000.2816	0633.3	068.0	48.83	
081.0	001.0000	-0462.5	010.2	307.8	000.2812	0633.6	067.9	48.87	
082.0	001.0000	-0450.5	010.2	307.7	000.2808	0633.9	067.8	48.91	
083.0	001.0000	-0431.8	010.2	307.6	000.2803	0634.3	067.6	48.94	
084.0	001.0000	-0412.2	010.2	307.5	000.2799	0634.6	067.5	48.98	
085.0	001.0000	-0401.2	010.2	307.4	000.2795	0635.0	067.4	49.02	
086.0	001.0000	-0396.4	010.2	307.3	000.2790	0635.4	067.3	49.05	
087.0	001.0000	-0390.5	010.2	307.2	000.2785	0635.9	067.2	49.09	
088.0	001.0000	-0389.8	010.2	307.1	000.2781	0636.3	067.1	49.12	
089.0	001.0000	-0397.0	010.2	306.9	000.2776	0636.8	066.9	49.16	
090.0	001.0000	-0403.9	010.2	306.8	000.2771	0637.4	066.8	49.19	
091.0	001.0000	-0410.7	010.2	306.7	000.2766	0637.9	066.7	49.23	
092.0	001.0000	-0415.8	010.2	306.6	000.2761	0638.4	066.6	49.26	
093.0	001.0000	-0406.8	010.2	306.4	000.2756	0639.0	066.5	49.29	
094.0	001.0000	-0400.0	010.2	306.3	000.2751	0639.6	066.4	49.32	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
095.0	001.0000	-0393.3	010.2	306.2	000.2746	0640.3	066.4	49.35
096.0	001.0000	-0384.1	010.2	306.1	000.2741	0641.0	066.3	49.38
097.0	001.0000	-0370.4	010.2	305.9	000.2735	0641.7	066.2	49.41
098.0	001.0000	-0353.2	010.2	305.8	000.2730	0642.4	066.1	49.44
099.0	001.0000	-0334.9	010.2	305.6	000.2725	0643.0	066.0	49.46
100.0	001.0000	-0320.9	010.2	305.5	000.2719	0643.7	065.9	49.49
101.0	001.0000	-0308.7	010.2	305.4	000.2714	0644.4	065.9	49.51
102.0	001.0000	-0298.4	010.2	305.2	000.2708	0645.1	065.8	49.53
103.0	001.0000	-0291.9	010.2	305.1	000.2702	0645.8	065.7	49.56
104.0	001.0000	-0286.5	010.2	304.9	000.2697	0646.5	065.7	49.58
105.0	001.0000	-0279.4	010.2	304.8	000.2691	0647.1	065.6	49.60
106.0	001.0000	-0270.7	010.2	304.6	000.2685	0647.8	065.5	49.61
107.0	001.0000	-0262.5	010.2	304.5	000.2679	0648.5	065.5	49.63
108.0	001.0000	-0255.5	010.2	304.4	000.2674	0649.3	065.4	49.65
109.0	001.0000	-0248.1	010.2	304.2	000.2668	0650.0	065.4	49.66
110.0	001.0000	-0237.6	010.2	304.1	000.2662	0650.8	065.4	49.68
111.0	001.0000	-0225.2	010.2	303.9	000.2656	0651.6	065.3	49.69
112.0	001.0000	-0213.7	010.2	303.7	000.2650	0652.4	065.3	49.70
113.0	001.0000	-0201.8	010.2	303.6	000.2644	0653.2	065.2	49.72
114.0	001.0000	-0188.5	010.2	303.4	000.2638	0654.0	065.2	49.73
115.0	001.0000	-0173.1	010.2	303.3	000.2632	0654.7	065.2	49.74
116.0	001.0000	-0156.2	010.2	303.1	000.2626	0655.5	065.2	49.74
117.0	001.0000	-0140.1	010.2	303.0	000.2620	0656.3	065.1	49.75
118.0	001.0000	-0126.7	010.2	302.8	000.2614	0657.0	065.1	49.75
119.0	001.0000	-0116.9	010.2	302.7	000.2608	0657.8	065.1	49.76
120.0	001.0000	-0110.7	010.2	302.5	000.2602	0658.5	065.1	49.76
121.0	001.0000	-0107.0	010.2	302.4	000.2596	0659.3	065.1	49.76
122.0	001.0000	-0104.9	010.2	302.2	000.2590	0660.0	065.1	49.76
123.0	001.0000	-0104.8	010.2	302.0	000.2584	0660.8	065.1	49.76
124.0	001.0000	-0108.1	010.2	301.9	000.2578	0661.5	065.1	49.76
125.0	001.0000	-0117.0	010.2	301.7	000.2572	0662.2	065.1	49.76
126.0	001.0000	-0131.9	010.2	301.6	000.2566	0662.9	065.1	49.75
127.0	001.0000	-0149.8	010.2	301.4	000.2560	0663.4	065.1	49.74
128.0	001.0000	-0168.0	010.2	301.3	000.2554	0663.9	065.2	49.73
129.0	001.0000	-0184.4	010.2	301.1	000.2548	0664.4	065.2	49.72
130.0	001.0000	-0199.1	010.2	301.0	000.2543	0664.9	065.2	49.71
131.0	001.0000	-0212.7	010.2	300.8	000.2537	0665.2	065.2	49.69
132.0	001.0000	-0223.1	010.2	300.7	000.2531	0665.5	065.3	49.68
133.0	001.0000	-0227.6	010.2	300.5	000.2525	0665.7	065.3	49.66
134.0	001.0000	-0225.4	010.2	300.3	000.2519	0665.9	065.4	49.64
135.0	001.0000	-0218.3	010.2	300.2	000.2514	0666.0	065.4	49.61
136.0	001.0000	-0209.2	010.2	300.0	000.2508	0666.1	065.5	49.59
137.0	001.0000	-0199.3	010.2	299.9	000.2503	0666.0	065.5	49.56
138.0	001.0000	-0190.9	010.2	299.8	000.2499	0665.9	065.6	49.54
139.0	001.0000	-0183.7	010.2	299.6	000.2495	0665.7	065.6	49.51
140.0	001.0000	-0178.5	010.2	299.5	000.2491	0665.4	065.7	49.48
141.0	001.0000	-0175.4	010.2	299.3	000.2487	0665.0	065.7	49.45
142.0	001.0000	-0175.1	010.2	299.2	000.2484	0664.6	065.8	49.41
143.0	001.0000	-0177.5	010.2	299.0	000.2480	0664.1	065.9	49.37
144.0	001.0000	-0182.3	010.2	298.9	000.2479	0663.5	066.0	49.34
145.0	001.0000	-0187.3	010.2	298.8	000.2479	0662.9	066.0	49.31

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
146.0	001.0000	-0190.5	010.2	298.6	000.2480	0662.4	066.1	49.28
147.0	001.0000	-0192.4	010.2	298.5	000.2480	0661.7	066.2	49.24
148.0	001.0000	-0193.9	010.2	298.4	000.2481	0661.1	066.3	49.21
149.0	001.0000	-0196.5	010.2	298.2	000.2481	0660.4	066.4	49.17
150.0	001.0000	-0200.3	010.2	298.1	000.2481	0659.7	066.5	49.13
151.0	001.0000	-0203.2	010.2	298.0	000.2482	0659.0	066.6	49.09
152.0	001.0000	-0204.9	010.2	297.8	000.2482	0658.4	066.7	49.05
153.0	001.0000	-0207.0	010.2	297.7	000.2483	0657.7	066.8	49.01
154.0	001.0000	-0210.1	010.2	297.6	000.2483	0657.0	066.9	48.97
155.0	001.0000	-0212.8	010.2	297.5	000.2483	0656.4	067.0	48.93
156.0	001.0000	-0215.6	010.2	297.4	000.2484	0655.7	067.1	48.89
157.0	001.0000	-0220.4	010.2	297.2	000.2484	0655.1	067.2	48.84
158.0	001.0000	-0229.3	010.2	297.1	000.2484	0654.5	067.3	48.80
159.0	001.0000	-0242.9	010.2	297.0	000.2485	0653.8	067.4	48.75
160.0	001.0000	-0260.9	010.2	296.9	000.2485	0653.3	067.6	48.71
161.0	001.0000	-0281.3	010.2	296.8	000.2485	0652.7	067.7	48.66
162.0	001.0000	-0298.4	010.2	296.7	000.2486	0652.1	067.8	48.61
163.0	001.0000	-0309.2	010.2	296.6	000.2486	0651.6	067.9	48.57
164.0	001.0000	-0316.8	010.2	296.5	000.2486	0651.1	068.1	48.52
165.0	001.0000	-0326.6	010.2	296.4	000.2487	0650.6	068.2	48.47
166.0	001.0000	-0339.5	010.2	296.3	000.2487	0650.2	068.3	48.42
167.0	001.0000	-0357.6	010.2	296.2	000.2487	0649.7	068.5	48.37
168.0	001.0000	-0376.0	010.2	296.1	000.2487	0649.2	068.6	48.32
169.0	001.0000	-0391.3	010.2	296.0	000.2488	0648.8	068.7	48.27
170.0	001.0000	-0405.6	010.2	295.9	000.2488	0648.4	068.9	48.22
171.0	001.0000	-0417.5	010.2	295.9	000.2488	0648.0	069.0	48.17
172.0	001.0000	-0421.9	010.2	295.8	000.2488	0647.6	069.2	48.12
173.0	001.0000	-0422.3	010.2	295.7	000.2489	0647.3	069.3	48.07
174.0	001.0000	-0416.8	010.2	295.6	000.2489	0647.0	069.5	48.02
175.0	001.0000	-0401.2	010.2	295.5	000.2489	0646.6	069.6	47.96
176.0	001.0000	-0381.8	010.2	295.5	000.2489	0646.3	069.8	47.91
177.0	001.0000	-0364.3	010.2	295.4	000.2490	0646.1	069.9	47.86
178.0	001.0000	-0338.2	010.2	295.3	000.2490	0645.8	070.1	47.81
179.0	001.0000	-0312.0	010.2	295.3	000.2490	0645.5	070.3	47.75
180.0	001.0000	-0297.3	010.2	295.2	000.2490	0645.3	070.4	47.70
181.0	001.0000	-0287.0	010.2	295.2	000.2490	0645.1	070.6	47.65