

April 2, 2012

**Engineering Statement:**

On Behalf of Vermont Public radio

The applicant seeks to move W223AV some 47 kilometers north to become a fill-in for its WRVT, Rutland, Vermont, file number BLED-20101206ACJ. The proposed site move is consistent with *John F. Garziglia, Esq.*, 26 FCC Rcd 12685 (MB 2011), involving the one-step modification of W263AQ, Mattoon, Illinois.

**Allocation Study for use of channel 223:**

The applicant proposes that W223AV use channel 223 at the proposed transmission site which is the same site as the Vermont Public Radio (VPR) WRVT facility site. **Attachment A** of this exhibit provides a complete allocation study showing that, when operating on channel 223, W223AV will not cause contour overlap to any station, construction permit or application.

**Documentation of Fill-In:**

**Attachment B** of this exhibit composes a map and distance to contour tables of the WRVT 60 dBu and the proposed W223AV 60 dBu. The proposed W223AV 60 dBu fill-in contour remains entirely inside of the WRVT licensed 60 dBu contour. Approval of this translator would allow W223AV to become a fill-in station, programed by VPR's HD2 channel, at a location where listening choices between VPR services are not freely available. This proposal would then provide more service to a wider area and is clearly in the public interest.

**Documentation of mutual exclusivity:**

The proposed change of the transmission site of W223AV moves the transmitter location 47.3 km to the north of its presently licensed site. VPR obtained a full-service station in the 2007 filing window that provides service to the area that W223AV was previously meant to serve. The applicant acknowledges that, at the distance involved, the 60 dBu of the licensed W223AV does not overlap with the 60 dBu of W223AV. VPR would like to move to the proposed location in one-step rather than burdening the Commission with moves of multiple steps. The contour map and tables included in **Attachment C** show that, at the licensed powers and antenna heights of the current W223AV and proposed W223AV co-channel facility at the WRVT transmission site, the 10 percent, 40 dBu, interference contour of the licensed W223AV overlaps the protected 60 dBu contour of the proposed W223AV, thus satisfying the important

mutual exclusivity requirement for waiver of the Commission's rules that require the overlap of the 60 dBu contours. Further, VPR has no history of filing serial modifications.

**Proposed channel does not preclude the use of LPFM channels in the area:**

The proposed site is outside any of the "spectrum limited" market areas as defined in the Commission's 4<sup>th</sup> Report and Order and Third Order on Reconsideration in the Creation of Low Power Radio Service ("4th R&O") that was released March 19, 2012.

**Attachment D** contains channel studies for available LPFM channels in downtown Rutland which is not located within a spectrum limited market. We find that channels 227, 228, 243, 259, 260, 284 and 295 meet the minimum LPFM separations under the rules and are available for use. **Attachment E** shows the availability of channel 227, 228, 243, 259, 260 and 277 at the proposed W223AV transmission site. The proposed transmission site is located 123.4 kilometers from the center city coordinates of the nearest BIA market, Albany-Schenectady-Troy, New York where the FCC has identified some 15 available LPFM channels.

**Conclusion:**

- 1.) Channel 223 meets all of the required minimum separations and contour protections at the antenna height and ERP requested
- 2.) The licensee does not have a history of filing serial minor modification applications
- 3.) The proposed site is mutually exclusive to its licensed facility
- 4.) The proposed move does not implicate the concerns raised by the Commission in the recent 4<sup>th</sup> R & O ("LPFM") docket

**VPR respectfully requests expedited processing in light of the upcoming one year anniversary of the W223AV silent STA.**

Doug Vernier



Senior Broadcast Engineer

(Attached Statement of Qualifications)

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## Full Contour-to-Contour Allocations Study

Vermont Public Radio

REFERENCE CH# 223D - 92.5 MHz, Pwr= 0.114 kW, HAAT= 422.2 M, COR= 678.2 M DISPLAY DATES  
43 39 31.0 N. DATA 03-23-12  
73 06 25.0 W. Average Protected F(50-50)= 21.9 km SEARCH 03-23-12  
Omni-directional

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*OUT* (Overlap in km)
223A Poultney	AU9368096	VAC	VT	213.5 33.4	18.69 RM11169	43 31 06.0 73 14 06.0	6.000 100	82.5 326	25.0 Dana J. Puopolo	-76.7*
223D Manchester	W223AV	LIC	VT	172.3 352.4	47.33 BLFT20051021AGI	43 14 12.0 73 01 44.0	0.010 133	37.4 650	4.7 Vermont Public Radio	-22.2 **
222A Hanover	WGXL	LIC	CN	90.1 270.7	65.33 BMLH19930604KD	43 39 17.0 72 17 41.0	6.000 99	49.5 376	30.7 Great Eastern Radio, LLC	0.1
221C3 Port Henry	WVTK	LIC	CN	323.9 143.6	50.81 BLH19920701KC	44 01 38.0 73 28 54.0	18.000 3	5.1 237	47.2 Wvtk Radio, LLC	3.0
222B Troy	WFLY	LIC	CN	212.8 32.2	134.58 BLH19871015KA	42 38 16.0 73 59 55.0	17.000 259	90.4 500	75.8 6 Johnson Road Licenses, I	8.3
224D Glens Falls	WGFR	LIC	HN	228.8 48.5	58.29 BLED19950316KB	43 18 44.0 73 38 58.0	0.013 15	7.2 154	5.2 Board of Trustees of Adiro	15.5
225C Burlington	WEZF	LIC	CN	13.4 193.6	99.38 BLH19881011KF	44 31 40.0 72 48 58.0	46.000 824	10.1 1251	79.9 Vox Am/fm, LLC	17.1
224A Brattleboro	WKVT-FM	LIC	CN	156.9 337.2	92.08 BMLH19900627KB	42 53 45.0 72 39 49.0	1.800 186	38.1 507	25.9 Saga Communications Of New	28.5
220A Argyle	WNGN	LIC	DC	209.5 29.3	55.22 BLED20001218AAC	43 13 33.0 73 26 34.0	2.000 174	1.9 330	13.2 Northeast Gospel Broadcast	29.4
223B Andover	WXRV	LIC	CX	120.5 301.9	190.06 BLH20061121ACI	42 46 23.0 71 06 01.0	25.000 217	128.2 262	63.5 Beanpot License Corp.	33.0
223B Andover	AL1875	RSV-A	MA	120.5 301.9	190.06 RM11178	42 46 23.0 71 06 01.0	50.000 150	134.8 194	62.0	34.4

Terrain database is USGS 03 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= East Zone, 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)  
Incoming contour overlap is ignored.  
"\*"affixed to 'IN' or 'OUT' values = site inside protected contour.  
"\*\*\*" Applicant's existing facility

## HOW TO READ THE FM COMPUTER PRINT-OUT

### Translator Reference Station

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. The 60 dBu protected contour is predicted from the Commission's F(50-50) table. 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.

All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90. The column labeled "\* OUT \*" shows the greatest distance in kilometers of overlap (or smallest distance 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. Since translators are able to receive interference there is no "In" or incoming column in this report.

Listed antenna heights and power are the specific antenna heights and power from the FCC database.

Under the "AZI" column, the first row of numbers indicate the True North azimuths 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. Bearings are calculated using spherical trigonometry.

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 the minimum spacings the "OUT" columns change its significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column displays the **available clear space** separation 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 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.

Protected zones report for w223AV on channel 223D 04-02-2012  
Lat. 43 39 31.0 Lng. 73 06 25.0, ERP= 0.114 kw, HAAT= 422.2M

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Facility is okay with respect to Canada. Distance to border = 150.7 km.

The translator's 34 dBu F(50-10) contour does not touch Canada.

Facility is okay with respect to Mexico. Distance to border = 2947.5 km.

Facility is okay with respect to AM station towers.

Closest AM Facility is WSYB, RUTLAND, VT, L, DAN at 127.8° at a distance of 11.9 km

Facility is okay with respect to FCC monitoring stations.

Closest FCC Monitoring Station is 334.1 km= Belfast, ME

Facility is okay toward West Virginia Quiet Zone. Distance to center = 795.9 km

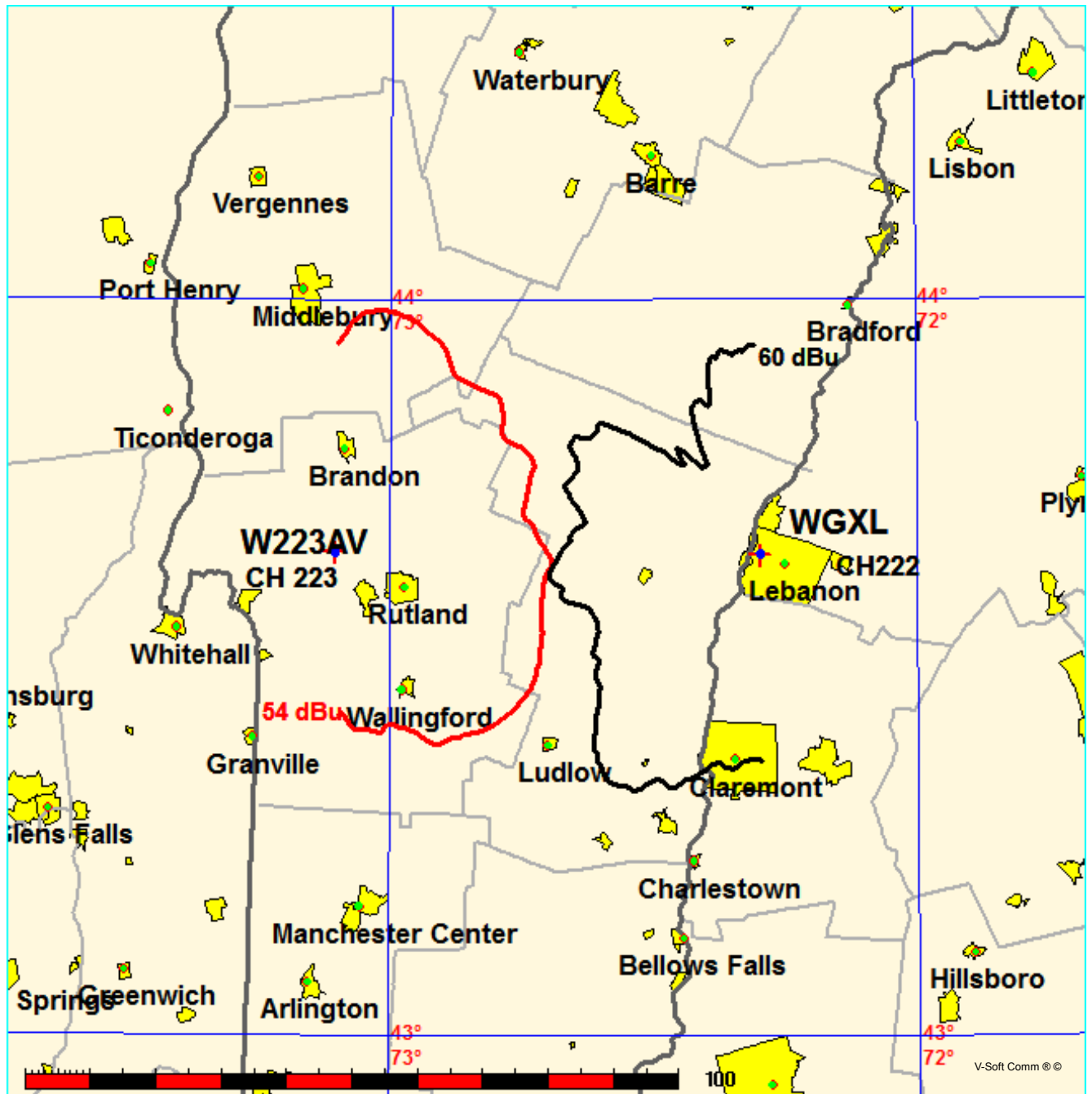
Facility is okay toward Table Mountain. Distance to Center = 2695.1 km, Azimuth =  
272.7 Degrees True

Single Station Allocation Map  
Vermont Public Radio

FMCommander Single Allocation Study - 04-02-2012 - USGS 03 SEC  
W223AV's Overlaps (In= -4.99 km, Out= 0.05 km)

W223AV CH 223 D  
Lat= 43 39 31.0, Lng= 73 06 25.0  
0.114 kW 422.2 M HAAT, 678.2 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

WGXL CH 222 A BMLH19930604KD  
Lat= 43 39 17.0, Lng= 72 17 41.0  
6.0 kW 99 M HAAT, 376 M COR  
Prot.= 60 dBu, Intef.= 54 dBu



04-02-2012

Terrain Data: USGS 03 SEC

FMOver Analysis

WGXL BMLH19930604KD

W223AV

Channel = 222A

Max ERP = 6 kW

RCAMSL = 376 M

N. Lat. 43 39 17.0

W. Lng. 72 17 41.0

Protected

60 dBu

Channel = 223D

Max ERP = 0.114 kW

RCAMSL = 678.2 M

N. Lat. 43 39 31.0

W. Lng. 73 06 25.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
211.0	006.0000	0224.8	040.7	128.2	000.1140	0492.5	056.9	46.15	
212.0	006.0000	0230.0	041.0	128.6	000.1140	0491.7	056.2	46.35	
213.0	006.0000	0235.2	041.4	129.1	000.1140	0490.9	055.6	46.58	
214.0	006.0000	0236.3	041.4	129.2	000.1140	0490.7	054.9	46.83	
215.0	006.0000	0234.6	041.3	129.2	000.1140	0490.8	054.1	47.10	
216.0	006.0000	0230.9	041.1	129.0	000.1140	0491.1	053.4	47.38	
217.0	006.0000	0225.1	040.7	128.6	000.1140	0491.8	052.7	47.67	
218.0	006.0000	0220.1	040.3	128.2	000.1140	0492.5	051.9	47.95	
219.0	006.0000	0214.6	039.9	127.7	000.1140	0493.0	051.2	48.21	
220.0	006.0000	0207.4	039.4	127.1	000.1140	0492.9	050.6	48.46	
221.0	006.0000	0203.2	039.1	126.7	000.1140	0492.6	049.9	48.70	
222.0	006.0000	0196.0	038.5	126.0	000.1140	0492.3	049.3	48.92	
223.0	006.0000	0185.8	037.7	124.9	000.1140	0492.9	048.7	49.14	
224.0	006.0000	0176.2	036.9	123.9	000.1140	0492.0	048.2	49.31	
225.0	006.0000	0168.1	036.1	122.8	000.1140	0488.4	047.7	49.40	
226.0	006.0000	0161.9	035.4	121.8	000.1140	0484.3	047.2	49.48	
227.0	006.0000	0153.9	034.5	120.6	000.1140	0479.3	046.9	49.51	
228.0	006.0000	0146.4	033.7	119.4	000.1140	0475.5	046.6	49.54	
229.0	006.0000	0141.2	033.1	118.5	000.1140	0472.5	046.2	49.61	
230.0	006.0000	0136.2	032.5	117.6	000.1140	0468.6	045.9	49.65	
231.0	006.0000	0131.0	031.9	116.6	000.1140	0462.9	045.6	49.63	
232.0	006.0000	0130.1	031.8	116.2	000.1140	0460.0	045.1	49.75	
233.0	006.0000	0128.5	031.6	115.7	000.1140	0456.8	044.7	49.85	
234.0	006.0000	0126.2	031.4	115.1	000.1140	0453.9	044.3	49.93	
235.0	006.0000	0122.5	031.0	114.3	000.1140	0450.9	044.1	49.97	
236.0	006.0000	0117.7	030.5	113.3	000.1140	0447.6	043.9	49.98	
237.0	006.0000	0110.9	029.7	112.1	000.1140	0442.4	043.9	49.86	
238.0	006.0000	0110.0	029.6	111.6	000.1140	0440.1	043.5	49.95	
239.0	006.0000	0112.5	029.9	111.5	000.1140	0439.7	042.9	50.19	
240.0	006.0000	0112.9	029.9	111.1	000.1140	0438.0	042.5	50.33	
241.0	006.0000	0109.5	029.5	110.2	000.1140	0432.8	042.3	50.27	
242.0	006.0000	0105.0	029.0	109.2	000.1140	0426.3	042.3	50.12	
243.0	006.0000	0101.9	028.5	108.3	000.1140	0421.1	042.2	50.03	
244.0	006.0000	0097.7	028.0	107.3	000.1140	0416.5	042.3	49.89	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
245.0	006.0000	0093.9	027.5	106.4	000.1140	0414.0	042.3	49.81
246.0	006.0000	0093.9	027.5	105.9	000.1140	0413.1	042.0	49.92
247.0	006.0000	0094.1	027.5	105.4	000.1140	0411.4	041.7	50.02
248.0	006.0000	0092.4	027.3	104.7	000.1140	0409.1	041.6	50.01
249.0	006.0000	0092.6	027.3	104.2	000.1140	0407.7	041.3	50.11
250.0	006.0000	0093.6	027.4	103.7	000.1140	0406.3	040.9	50.24
251.0	006.0000	0093.9	027.5	103.2	000.1140	0404.6	040.6	50.32
252.0	006.0000	0093.7	027.4	102.6	000.1140	0404.2	040.4	50.41
253.0	006.0000	0094.7	027.6	102.1	000.1140	0406.0	040.0	50.61
254.0	006.0000	0099.8	028.3	102.0	000.1140	0406.4	039.1	50.99
255.0	006.0000	0106.3	029.1	101.9	000.1140	0406.6	038.2	51.44
256.0	006.0000	0113.5	030.0	101.8	000.1140	0406.8	037.2	51.90
257.0	006.0000	0121.2	030.9	101.6	000.1140	0406.9	036.2	52.36
258.0	006.0000	0126.5	031.4	101.2	000.1140	0407.1	035.4	52.71
259.0	006.0000	0125.4	031.3	100.3	000.1140	0405.3	035.3	52.71
260.0	006.0000	0121.5	030.9	099.3	000.1140	0403.4	035.5	52.58
261.0	006.0000	0124.0	031.1	098.6	000.1140	0403.8	035.1	52.78
262.0	006.0000	0130.4	031.8	098.0	000.1140	0404.5	034.3	53.19
263.0	006.0000	0136.5	032.5	097.4	000.1140	0404.8	033.4	53.58
264.0	006.0000	0138.1	032.7	096.5	000.1140	0405.4	033.1	53.75
265.0	006.0000	0137.1	032.6	095.5	000.1140	0409.1	033.1	53.85
266.0	006.0000	0135.1	032.4	094.5	000.1140	0416.7	033.2	53.97
267.0	006.0000	0131.8	032.0	093.5	000.1140	0422.0	033.5	53.96
268.0	006.0000	0127.5	031.5	092.4	000.1140	0419.9	034.0	53.72
269.0	006.0000	0124.0	031.2	091.5	000.1140	0414.6	034.3	53.43
270.0	006.0000	0121.1	030.9	090.6	000.1140	0408.3	034.6	53.13
271.0	006.0000	0118.8	030.6	089.7	000.1140	0402.3	034.8	52.86
272.0	006.0000	0116.5	030.3	088.8	000.1140	0397.1	035.1	52.60
273.0	006.0000	0111.4	029.7	088.0	000.1140	0392.9	035.7	52.20
274.0	006.0000	0107.4	029.2	087.3	000.1140	0388.6	036.3	51.84
275.0	006.0000	0108.9	029.4	086.5	000.1140	0383.6	036.1	51.76
276.0	006.0000	0107.2	029.2	085.7	000.1140	0379.0	036.4	51.51
277.0	006.0000	0104.8	028.9	085.0	000.1140	0376.3	036.8	51.25
278.0	006.0000	0100.7	028.4	084.4	000.1140	0374.1	037.4	50.91
279.0	006.0000	0096.2	027.8	083.9	000.1140	0372.2	038.2	50.54
280.0	006.0000	0093.3	027.4	083.4	000.1140	0369.9	038.7	50.25
281.0	006.0000	0094.5	027.5	082.7	000.1140	0366.8	038.6	50.17
282.0	006.0000	0098.3	028.1	081.7	000.1140	0360.6	038.3	50.14
283.0	006.0000	0100.4	028.3	080.9	000.1140	0354.9	038.2	50.03
284.0	006.0000	0106.2	029.1	079.7	000.1140	0346.7	037.7	50.02
285.0	006.0000	0111.6	029.8	078.6	000.1140	0344.9	037.3	50.15
286.0	006.0000	0116.0	030.3	077.5	000.1140	0350.2	037.1	50.40
287.0	006.0000	0119.9	030.7	076.5	000.1140	0357.1	037.0	50.64
288.0	006.0000	0126.9	031.5	075.2	000.1140	0361.8	036.7	50.94
289.0	006.0000	0132.1	032.0	073.9	000.1140	0368.7	036.5	51.21
290.0	006.0000	0129.1	031.7	073.5	000.1140	0371.2	037.1	51.01
291.0	006.0000	0126.1	031.4	073.1	000.1140	0373.7	037.7	50.81
292.0	006.0000	0124.6	031.2	072.7	000.1140	0376.8	038.1	50.68
293.0	006.0000	0123.2	031.1	072.2	000.1140	0379.8	038.6	50.55
294.0	006.0000	0121.8	030.9	071.7	000.1140	0382.7	039.0	50.42
295.0	006.0000	0122.0	030.9	071.1	000.1140	0386.2	039.4	50.36



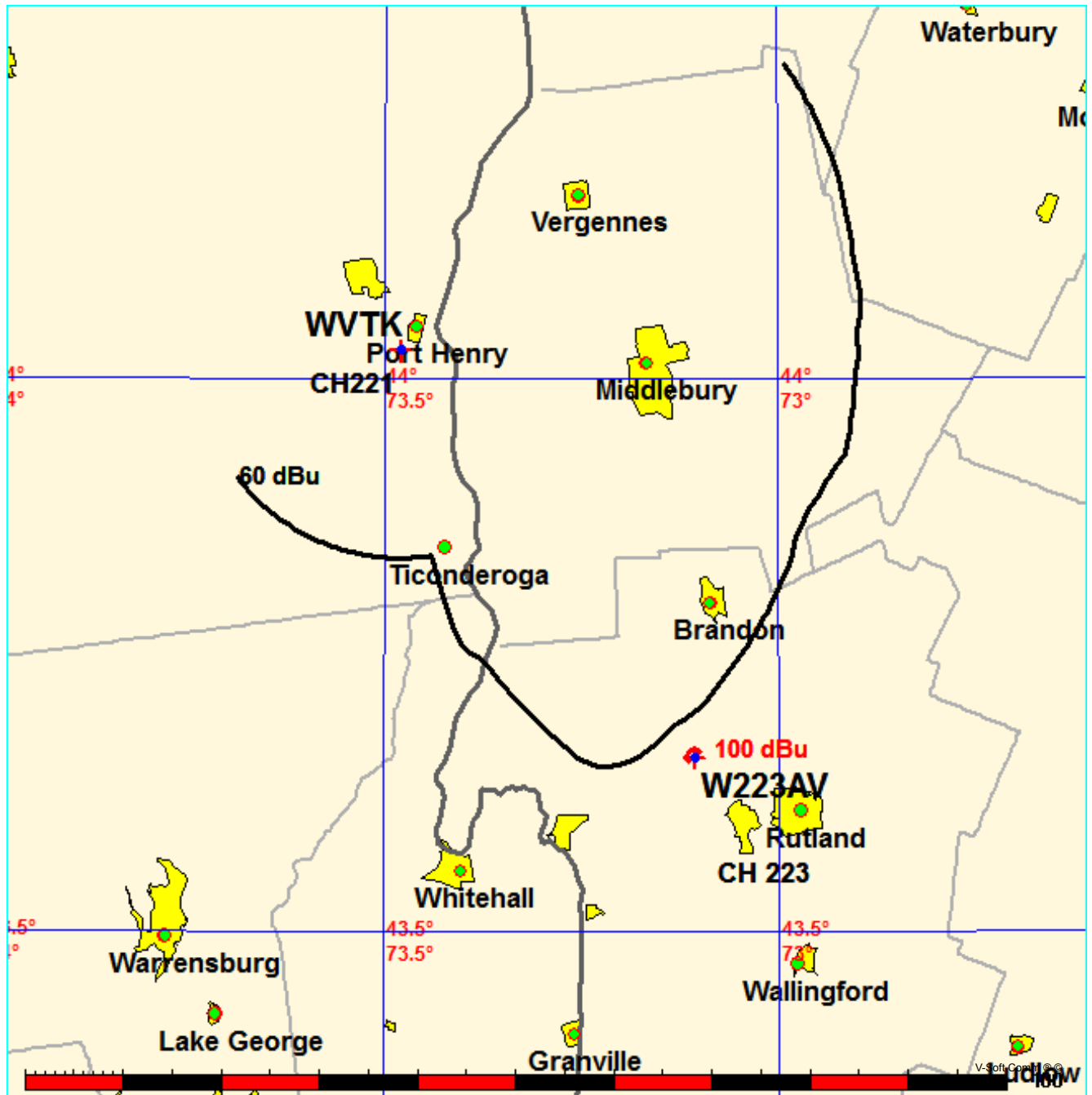
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
296.0	006.0000	0126.1	031.4		070.1	000.1140	0393.2	039.5	50.51
297.0	006.0000	0131.8	032.0		068.9	000.1140	0402.7	039.4	50.77
298.0	006.0000	0138.4	032.8		067.5	000.1140	0415.6	039.4	51.13
299.0	006.0000	0145.4	033.6		066.1	000.1140	0421.1	039.3	51.28
300.0	006.0000	0146.8	033.7		065.4	000.1140	0420.8	039.7	51.11
301.0	006.0000	0145.9	033.6		065.0	000.1140	0420.4	040.2	50.87
302.0	006.0000	0144.8	033.5		064.7	000.1140	0420.0	040.8	50.62
303.0	006.0000	0135.2	032.4		065.5	000.1140	0420.9	041.9	50.18
304.0	006.0000	0127.4	031.5		066.1	000.1140	0421.1	042.8	49.79
305.0	006.0000	0126.2	031.4		065.9	000.1140	0421.1	043.3	49.56
306.0	006.0000	0126.0	031.4		065.6	000.1140	0420.9	043.8	49.36
307.0	006.0000	0127.0	031.5		065.1	000.1140	0420.5	044.2	49.18
308.0	006.0000	0129.1	031.7		064.5	000.1140	0419.7	044.6	49.00
309.0	006.0000	0125.7	031.3		064.6	000.1140	0419.9	045.3	48.74
310.0	006.0000	0115.5	030.2		065.5	000.1140	0420.9	046.2	48.39
311.0	006.0000	0103.3	028.7		066.9	000.1140	0419.0	047.4	47.91
312.0	006.0000	0092.2	027.2		068.3	000.1140	0408.5	048.5	47.23
313.0	006.0000	0082.9	025.9		069.4	000.1140	0398.7	049.5	46.60
314.0	006.0000	0071.9	024.3		070.8	000.1140	0388.2	050.6	45.89
315.0	006.0000	0062.8	022.9		072.0	000.1140	0380.9	051.6	45.32
316.0	006.0000	0055.1	021.6		073.1	000.1140	0374.2	052.5	44.77
317.0	006.0000	0046.0	019.7		074.7	000.1140	0363.7	053.7	44.01
318.0	006.0000	0040.0	018.3		075.9	000.1140	0359.2	054.7	43.51
319.0	006.0000	0038.4	017.9		076.1	000.1140	0358.7	055.1	43.32
320.0	006.0000	0043.8	019.2		074.7	000.1140	0363.8	054.9	43.58
321.0	006.0000	0050.6	020.7		073.1	000.1140	0374.1	054.6	44.00
322.0	006.0000	0047.7	020.1		073.5	000.1140	0371.1	055.1	43.70
323.0	006.0000	0043.8	019.2		074.3	000.1140	0366.6	055.8	43.32
324.0	006.0000	0035.8	017.2		076.0	000.1140	0358.9	056.8	42.70
325.0	006.0000	0027.5	015.8		077.3	000.1140	0352.2	057.6	42.18
326.0	006.0000	0022.3	015.8		077.1	000.1140	0352.9	057.9	42.11
327.0	006.0000	0020.2	015.8		077.0	000.1140	0353.5	058.1	42.03
328.0	006.0000	0021.5	015.8		077.0	000.1140	0354.1	058.4	41.96
329.0	006.0000	0029.9	015.8		076.9	000.1140	0354.7	058.7	41.88
330.0	006.0000	0039.7	018.2		074.5	000.1140	0365.0	058.2	42.35

Single Station Allocation Map  
Vermont Public Radio

FMCommander Single Allocation Study - 04-02-2012 - USGS 03 SEC  
W223AV's Overlaps (In= 23.03 km, Out= 2.96 km)

W223AV CH 223 D  
Lat= 43 39 31.0, Lng= 73 06 25.0  
0.114 kW 422.2 M HAAT, 678.2 M COR  
Prot.= 60 dBu, Intef.= 100 dBu

WVTK CH 221 C3 BLH19920701KC  
Lat= 44 01 38.0, Lng= 73 28 54.0  
18.0 kW 3 M HAAT, 237 M COR  
Prot.= 60 dBu, Intef.= 100 dBu



04-02-2012

Terrain Data: USGS 03 SEC

FMOver Analysis

WVTK BLH19920701KC

W223AV

Channel = 221C3

Max ERP = 18 kW

RCAMSL = 237 M

N. Lat. 44 01 38.0

W. Lng. 73 28 54.0

Protected

60 dBu

Channel = 223D

Max ERP = 0.114 kW

RCAMSL = 678.2 M

N. Lat. 43 39 31.0

W. Lng. 73 06 25.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
084.0	018.0000	0191.0	047.4	020.2	000.1140	0495.2	049.0	49.09	
085.0	018.0000	0190.0	047.3	020.6	000.1140	0492.7	048.2	49.32	
086.0	018.0000	0188.1	047.2	020.8	000.1140	0491.4	047.4	49.59	
087.0	018.0000	0185.4	047.0	021.0	000.1140	0490.4	046.5	49.88	
088.0	018.0000	0183.9	046.8	021.2	000.1140	0489.0	045.7	50.15	
089.0	018.0000	0184.3	046.9	021.7	000.1140	0487.5	045.0	50.41	
090.0	018.0000	0185.0	046.9	022.1	000.1140	0485.6	044.3	50.65	
091.0	018.0000	0184.7	046.9	022.5	000.1140	0484.2	043.5	50.93	
092.0	018.0000	0183.9	046.8	022.8	000.1140	0483.0	042.7	51.22	
093.0	018.0000	0182.8	046.7	023.1	000.1140	0481.6	041.9	51.52	
094.0	018.0000	0181.6	046.6	023.3	000.1140	0479.8	041.1	51.81	
095.0	018.0000	0181.5	046.6	023.7	000.1140	0477.3	040.3	52.08	
096.0	018.0000	0182.2	046.7	024.2	000.1140	0474.9	039.6	52.35	
097.0	018.0000	0182.7	046.7	024.6	000.1140	0473.6	038.8	52.66	
098.0	018.0000	0182.6	046.7	024.9	000.1140	0473.0	038.0	52.99	
099.0	018.0000	0182.7	046.7	025.3	000.1140	0472.4	037.3	53.32	
100.0	018.0000	0183.0	046.8	025.7	000.1140	0471.2	036.5	53.64	
101.0	018.0000	0183.5	046.8	026.1	000.1140	0470.4	035.7	53.98	
102.0	018.0000	0183.4	046.8	026.4	000.1140	0469.6	034.9	54.32	
103.0	018.0000	0182.7	046.7	026.7	000.1140	0469.2	034.1	54.69	
104.0	018.0000	0179.3	046.4	026.5	000.1140	0469.5	033.2	55.09	
105.0	018.0000	0176.2	046.2	026.3	000.1140	0470.0	032.4	55.51	
106.0	018.0000	0173.2	045.9	026.0	000.1140	0470.5	031.6	55.92	
107.0	018.0000	0170.8	045.6	025.8	000.1140	0471.0	030.7	56.36	
108.0	018.0000	0169.2	045.4	025.7	000.1140	0471.1	029.9	56.80	
109.0	018.0000	0167.7	045.3	025.6	000.1140	0471.4	029.1	57.26	
110.0	018.0000	0166.0	045.1	025.4	000.1140	0472.1	028.3	57.75	
111.0	018.0000	0164.6	044.9	025.2	000.1140	0472.5	027.5	58.24	
112.0	018.0000	0163.5	044.8	025.1	000.1140	0472.8	026.7	58.75	
113.0	018.0000	0163.1	044.8	025.1	000.1140	0472.8	025.9	59.27	
114.0	018.0000	0162.7	044.7	025.0	000.1140	0472.9	025.1	59.80	
115.0	018.0000	0163.3	044.8	025.2	000.1140	0472.6	024.4	60.34	
116.0	018.0000	0164.4	044.9	025.5	000.1140	0471.9	023.6	60.88	
117.0	018.0000	0166.0	045.1	025.9	000.1140	0470.9	022.8	61.44	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
118.0	018.0000	0167.7	045.3	026.3	000.1140	0469.8	022.0	62.01
119.0	018.0000	0169.0	045.4	026.6	000.1140	0469.3	021.2	62.61
120.0	018.0000	0169.6	045.5	026.7	000.1140	0469.1	020.4	63.22
121.0	018.0000	0170.3	045.6	026.8	000.1140	0469.0	019.6	63.84
122.0	018.0000	0171.1	045.6	026.8	000.1140	0468.9	018.8	64.47
123.0	018.0000	0172.0	045.7	026.9	000.1140	0468.8	018.0	65.11
124.0	018.0000	0172.8	045.8	026.8	000.1140	0468.9	017.2	65.76
125.0	018.0000	0173.6	045.9	026.8	000.1140	0469.0	016.4	66.42
126.0	018.0000	0174.4	046.0	026.6	000.1140	0469.4	015.6	67.08
127.0	018.0000	0175.5	046.1	026.5	000.1140	0469.5	014.8	67.58
128.0	018.0000	0176.9	046.2	026.4	000.1140	0469.8	014.0	68.53
129.0	018.0000	0178.0	046.3	026.1	000.1140	0470.4	013.2	69.53
130.0	018.0000	0178.8	046.4	025.5	000.1140	0471.7	012.3	70.57
131.0	018.0000	0179.8	046.5	024.9	000.1140	0473.0	011.5	71.64
132.0	018.0000	0180.5	046.5	024.0	000.1140	0475.8	010.7	72.73
133.0	018.0000	0181.1	046.6	022.8	000.1140	0483.0	010.0	73.87
134.0	018.0000	0182.0	046.7	021.5	000.1140	0488.3	009.2	74.99
135.0	018.0000	0182.9	046.8	019.8	000.1140	0497.7	008.4	76.15
136.0	018.0000	0184.5	046.9	018.0	000.1140	0503.3	007.6	77.33
137.0	018.0000	0186.7	047.1	016.1	000.1140	0505.6	006.8	78.62
138.0	018.0000	0188.8	047.2	013.3	000.1140	0507.6	006.0	80.04
139.0	018.0000	0189.6	047.3	008.8	000.1140	0493.8	005.3	81.40
140.0	018.0000	0189.7	047.3	002.3	000.1140	0402.9	004.7	82.23
141.0	018.0000	0189.0	047.3	353.5	000.1140	0332.8	004.3	82.70
142.0	018.0000	0188.4	047.2	342.9	000.1140	0372.6	003.9	83.98
143.0	018.0000	0187.8	047.2	330.9	000.1140	0388.7	003.8	84.56
144.0	018.0000	0188.4	047.2	318.3	000.1140	0457.4	003.7	85.13
145.0	018.0000	0190.3	047.4	305.4	000.1140	0491.0	003.7	85.08
146.0	018.0000	0191.9	047.5	293.4	000.1140	0492.6	004.0	84.45
147.0	018.0000	0193.2	047.6	283.6	000.1140	0496.5	004.4	83.40
148.0	018.0000	0194.0	047.7	276.2	000.1140	0495.7	005.0	82.13
149.0	018.0000	0194.4	047.7	270.8	000.1140	0494.7	005.6	80.71
150.0	018.0000	0194.2	047.7	267.0	000.1140	0491.6	006.4	79.24
151.0	018.0000	0192.7	047.6	264.9	000.1140	0488.7	007.2	77.87
152.0	018.0000	0190.8	047.4	263.6	000.1140	0489.1	008.0	76.65
153.0	018.0000	0186.7	047.1	263.7	000.1140	0488.9	008.9	75.39
154.0	018.0000	0181.5	046.6	264.4	000.1140	0488.1	009.8	74.11
155.0	018.0000	0174.5	046.0	266.2	000.1140	0491.3	010.8	72.80
156.0	018.0000	0164.4	044.9	269.7	000.1140	0495.6	011.9	71.34
157.0	018.0000	0151.5	043.3	274.6	000.1140	0495.4	013.3	69.65
158.0	018.0000	0141.1	042.0	277.9	000.1140	0496.3	014.6	68.19
159.0	018.0000	0129.4	040.5	281.3	000.1140	0496.4	016.0	67.16
160.0	018.0000	0117.1	039.0	284.5	000.1140	0495.0	017.4	65.99
161.0	018.0000	0106.6	037.5	287.1	000.1140	0492.7	018.8	64.85
162.0	018.0000	0097.1	036.0	289.5	000.1140	0490.8	020.2	63.72
163.0	018.0000	0089.2	034.6	291.6	000.1140	0490.4	021.5	62.69
164.0	018.0000	0082.0	033.2	293.4	000.1140	0492.6	022.9	61.74
165.0	018.0000	0076.9	032.2	294.5	000.1140	0492.0	024.0	60.94
166.0	018.0000	0074.5	031.7	294.6	000.1140	0492.2	024.7	60.42
167.0	018.0000	0071.8	031.1	294.8	000.1140	0492.8	025.5	59.91
168.0	018.0000	0067.3	030.2	295.7	000.1140	0495.3	026.4	59.31

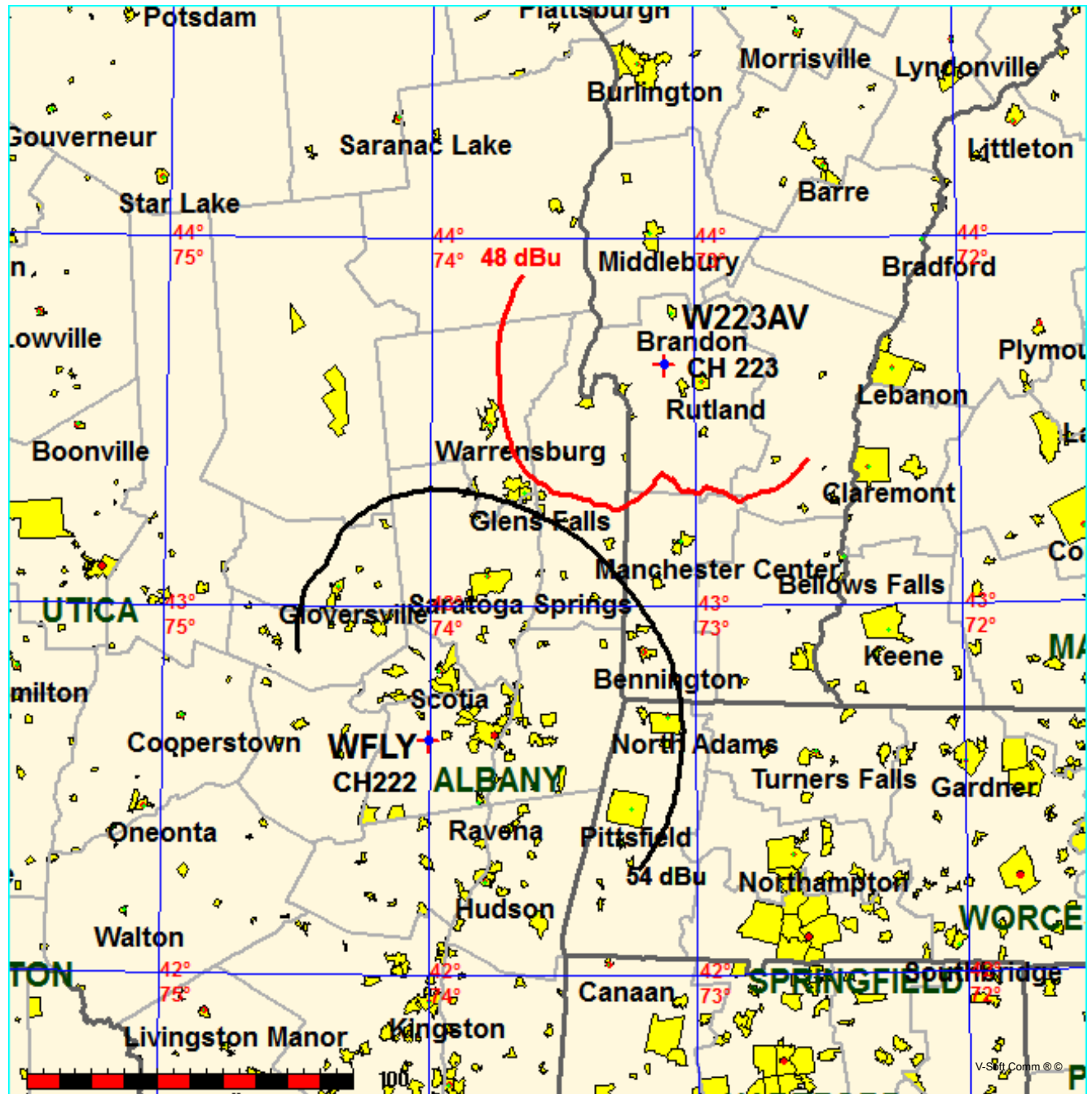
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
169.0	018.0000	0057.9	028.3		298.1	000.1140	0496.8	028.0	58.35
170.0	018.0000	0042.5	024.5		303.1	000.1140	0483.4	030.8	56.52
171.0	018.0000	0023.4	021.0		307.2	000.1140	0489.5	033.6	55.30
172.0	018.0000	0002.4	021.0		306.7	000.1140	0490.5	033.9	55.20
173.0	018.0000	-0016.3	021.0		306.3	000.1140	0491.6	034.1	55.10
174.0	018.0000	-0026.4	021.0		305.9	000.1140	0491.8	034.4	54.98
175.0	018.0000	-0031.2	021.0		305.5	000.1140	0491.3	034.7	54.85
176.0	018.0000	-0036.2	021.0		305.1	000.1140	0490.2	034.9	54.70
177.0	018.0000	-0041.4	021.0		304.7	000.1140	0488.6	035.2	54.54
178.0	018.0000	-0044.8	021.0		304.4	000.1140	0487.0	035.5	54.38
179.0	018.0000	-0047.8	021.0		304.0	000.1140	0485.3	035.8	54.21
180.0	018.0000	-0051.1	021.0		303.7	000.1140	0484.1	036.1	54.05
181.0	018.0000	-0056.1	021.0		303.4	000.1140	0483.6	036.4	53.90
182.0	018.0000	-0058.3	021.0		303.1	000.1140	0483.5	036.7	53.76
183.0	018.0000	-0056.0	021.0		302.8	000.1140	0483.6	037.1	53.63
184.0	018.0000	-0057.3	021.0		302.5	000.1140	0484.5	037.4	53.50
185.0	018.0000	-0059.0	021.0		302.3	000.1140	0485.3	037.7	53.38
186.0	018.0000	-0061.9	021.0		302.0	000.1140	0486.3	038.0	53.26
187.0	018.0000	-0067.9	021.0		301.8	000.1140	0487.5	038.4	53.14
188.0	018.0000	-0071.4	021.0		301.6	000.1140	0488.6	038.7	53.01
189.0	018.0000	-0078.2	021.0		301.4	000.1140	0489.7	039.0	52.89
190.0	018.0000	-0082.1	021.0		301.2	000.1140	0490.8	039.4	52.77
191.0	018.0000	-0086.7	021.0		301.0	000.1140	0491.6	039.7	52.64
192.0	018.0000	-0087.7	021.0		300.8	000.1140	0492.2	040.1	52.51
193.0	018.0000	-0088.2	021.0		300.7	000.1140	0492.9	040.4	52.37
194.0	018.0000	-0086.2	021.0		300.5	000.1140	0493.4	040.8	52.24
195.0	018.0000	-0083.8	021.0		300.4	000.1140	0493.7	041.1	52.10
196.0	018.0000	-0079.2	021.0		300.3	000.1140	0493.8	041.5	51.96
197.0	018.0000	-0075.8	021.0		300.2	000.1140	0493.9	041.8	51.81
198.0	018.0000	-0074.4	021.0		300.0	000.1140	0493.9	042.2	51.67
199.0	018.0000	-0077.2	021.0		300.0	000.1140	0494.0	042.5	51.52
200.0	018.0000	-0081.4	021.0		299.9	000.1140	0494.0	042.9	51.38
201.0	018.0000	-0090.9	021.0		299.8	000.1140	0493.9	043.2	51.23
202.0	018.0000	-0101.3	021.0		299.7	000.1140	0493.9	043.6	51.09
203.0	018.0000	-0103.8	021.0		299.7	000.1140	0493.9	044.0	50.95

Single Station Allocation Map  
Vermont Public Radio

FMCommander Single Allocation Study - 04-02-2012 - USGS 03 SEC  
W223AV's Overlaps (In= 20.83 km, Out= 8.27 km)

W223AV CH 223 D  
Lat= 43 39 31.0, Lng= 73 06 25.0  
0.114 kW 422.2 M HAAT, 678.2 M COR  
Prot.= 60 dBu, Intef.= 48 dBu

WFLY CH 222 B BLH19871015KA  
Lat= 42 38 16.0, Lng= 73 59 55.0  
17.0 kW 259 M HAAT, 500 M COR  
Prot.= 54 dBu, Intef.= 54 dBu



04-02-2012

Terrain Data: USGS 03 SEC

FMOver Analysis

WFLY BLH19871015KA

W223AV

Channel = 222B

Max ERP = 17 kW

RCAMSL = 500 M

N. Lat. 42 38 16.0

W. Lng. 73 59 55.0

Protected

54 dBu

Channel = 223D

Max ERP = 0.114 kW

RCAMSL = 678.2 M

N. Lat. 43 39 31.0

W. Lng. 73 06 25.0

Interfering

48 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
332.0	017.0000	0251.9	064.6	241.5	000.1140	0526.2	116.7	28.53	
333.0	017.0000	0259.6	065.2	241.8	000.1140	0524.9	115.6	28.77	
334.0	017.0000	0271.4	066.2	242.3	000.1140	0523.2	114.5	29.03	
335.0	017.0000	0285.3	067.3	242.8	000.1140	0520.9	113.2	29.28	
336.0	017.0000	0297.4	068.2	243.3	000.1140	0518.8	112.0	29.55	
337.0	017.0000	0306.7	068.9	243.6	000.1140	0517.5	110.8	29.84	
338.0	017.0000	0312.7	069.4	243.8	000.1140	0516.9	109.5	30.15	
339.0	017.0000	0318.5	069.8	243.9	000.1140	0516.4	108.3	30.47	
340.0	017.0000	0324.5	070.3	244.1	000.1140	0516.0	107.0	30.80	
341.0	017.0000	0330.7	070.7	244.3	000.1140	0515.6	105.7	31.13	
342.0	017.0000	0337.1	071.2	244.4	000.1140	0515.2	104.5	31.48	
343.0	017.0000	0343.2	071.6	244.6	000.1140	0514.9	103.2	31.82	
344.0	017.0000	0347.6	071.9	244.6	000.1140	0514.8	101.9	32.18	
345.0	017.0000	0353.0	072.3	244.7	000.1140	0514.6	100.6	32.54	
346.0	017.0000	0358.3	072.7	244.8	000.1140	0514.4	099.2	32.90	
347.0	017.0000	0363.8	073.1	244.8	000.1140	0514.3	097.9	33.27	
348.0	017.0000	0369.0	073.5	244.9	000.1140	0514.2	096.6	33.64	
349.0	017.0000	0373.3	073.8	244.9	000.1140	0514.2	095.3	34.01	
350.0	017.0000	0377.8	074.1	244.8	000.1140	0514.2	093.9	34.40	
351.0	017.0000	0381.1	074.3	244.8	000.1140	0514.4	092.6	34.79	
352.0	017.0000	0383.1	074.5	244.6	000.1140	0514.8	091.3	35.18	
353.0	017.0000	0384.8	074.6	244.4	000.1140	0515.3	090.1	35.57	
354.0	017.0000	0386.0	074.7	244.2	000.1140	0515.8	088.8	35.97	
355.0	017.0000	0388.0	074.8	244.0	000.1140	0516.4	087.5	36.38	
356.0	017.0000	0390.8	075.0	243.8	000.1140	0517.0	086.3	36.81	
357.0	017.0000	0393.1	075.2	243.5	000.1140	0517.9	085.0	37.24	
358.0	017.0000	0395.3	075.4	243.2	000.1140	0519.0	083.7	37.67	
359.0	017.0000	0402.2	075.9	243.2	000.1140	0519.4	082.3	38.14	
000.0	017.0000	0402.3	075.9	242.7	000.1140	0521.3	081.1	38.58	
001.0	017.0000	0402.3	075.9	242.3	000.1140	0523.2	080.0	39.01	
002.0	017.0000	0402.3	075.9	241.8	000.1140	0525.0	078.8	39.44	
003.0	017.0000	0402.0	075.9	241.3	000.1140	0527.1	077.7	39.86	
004.0	017.0000	0402.0	075.9	240.7	000.1140	0529.3	076.6	40.29	
005.0	017.0000	0402.2	075.9	240.2	000.1140	0530.7	075.5	40.69	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
006.0	017.0000	0401.9	075.8	239.6	000.1140	0530.7	074.5	41.05
007.0	017.0000	0401.4	075.8	238.9	000.1140	0529.9	073.4	41.38
008.0	017.0000	0401.6	075.8	238.3	000.1140	0529.7	072.4	41.73
009.0	017.0000	0400.9	075.8	237.5	000.1140	0529.5	071.4	42.05
010.0	017.0000	0400.9	075.8	236.8	000.1140	0527.7	070.5	42.34
011.0	017.0000	0401.2	075.8	236.1	000.1140	0526.9	069.5	42.64
012.0	017.0000	0400.8	075.8	235.3	000.1140	0526.3	068.6	42.93
013.0	017.0000	0400.4	075.7	234.4	000.1140	0526.3	067.8	43.23
014.0	017.0000	0400.1	075.7	233.5	000.1140	0526.1	066.9	43.50
015.0	017.0000	0399.8	075.7	232.6	000.1140	0524.6	066.1	43.74
016.0	017.0000	0399.5	075.7	231.7	000.1140	0523.1	065.4	43.96
017.0	017.0000	0399.5	075.7	230.7	000.1140	0520.4	064.6	44.14
018.0	017.0000	0399.3	075.7	229.7	000.1140	0516.9	063.9	44.29
019.0	017.0000	0398.9	075.6	228.7	000.1140	0513.5	063.3	44.42
020.0	017.0000	0398.7	075.6	227.6	000.1140	0508.6	062.7	44.50
021.0	017.0000	0398.0	075.6	226.5	000.1140	0503.3	062.1	44.55
022.0	017.0000	0398.1	075.6	225.4	000.1140	0499.5	061.6	44.64
023.0	017.0000	0398.6	075.6	224.3	000.1140	0498.1	061.1	44.79
024.0	017.0000	0399.0	075.6	223.1	000.1140	0497.5	060.6	44.94
025.0	017.0000	0399.1	075.6	221.9	000.1140	0494.2	060.2	45.00
026.0	017.0000	0399.2	075.7	220.7	000.1140	0486.7	059.8	44.93
027.0	017.0000	0399.3	075.7	219.5	000.1140	0475.2	059.5	44.74
028.0	017.0000	0399.4	075.7	218.2	000.1140	0463.2	059.3	44.52
029.0	017.0000	0399.7	075.7	217.0	000.1140	0454.6	059.0	44.38
030.0	017.0000	0400.0	075.7	215.7	000.1140	0445.7	058.9	44.22
031.0	017.0000	0400.3	075.7	214.4	000.1140	0438.9	058.7	44.09
032.0	017.0000	0401.0	075.8	213.1	000.1140	0434.3	058.6	44.01
033.0	017.0000	0402.1	075.9	211.8	000.1140	0432.0	058.6	43.98
034.0	017.0000	0403.4	076.0	210.5	000.1140	0421.1	058.5	43.72
035.0	017.0000	0404.4	076.0	209.2	000.1140	0419.3	058.6	43.66
036.0	017.0000	0404.9	076.1	208.0	000.1140	0427.9	058.7	43.83
037.0	017.0000	0404.6	076.0	206.7	000.1140	0425.7	058.9	43.68
038.0	017.0000	0404.0	076.0	205.4	000.1140	0417.0	059.3	43.35
039.0	017.0000	0403.8	076.0	204.2	000.1140	0408.1	059.6	43.00
040.0	017.0000	0404.0	076.0	203.0	000.1140	0405.6	059.9	42.80
041.0	017.0000	0404.4	076.0	201.8	000.1140	0407.8	060.3	42.72
042.0	017.0000	0404.5	076.0	200.6	000.1140	0414.6	060.8	42.72
043.0	017.0000	0404.5	076.0	199.4	000.1140	0411.8	061.3	42.47
044.0	017.0000	0405.1	076.1	198.3	000.1140	0400.9	061.8	42.00
045.0	017.0000	0405.2	076.1	197.2	000.1140	0387.3	062.4	41.43
046.0	017.0000	0404.8	076.1	196.2	000.1140	0375.0	063.1	40.86
047.0	017.0000	0403.8	076.0	195.2	000.1140	0359.0	063.8	40.12
048.0	017.0000	0402.0	075.9	194.2	000.1140	0350.1	064.7	39.53
049.0	017.0000	0400.4	075.7	193.4	000.1140	0342.0	065.5	38.94
050.0	017.0000	0399.9	075.7	192.5	000.1140	0332.1	066.3	38.30
051.0	017.0000	0400.3	075.7	191.6	000.1140	0325.6	067.1	37.79
052.0	017.0000	0400.7	075.8	190.7	000.1140	0316.2	068.0	37.16
053.0	017.0000	0401.8	075.8	189.8	000.1140	0302.9	068.8	36.41
054.0	017.0000	0402.9	075.9	189.0	000.1140	0291.5	069.7	35.72
055.0	017.0000	0404.1	076.0	188.2	000.1140	0284.5	070.6	35.18
056.0	017.0000	0404.8	076.1	187.4	000.1140	0275.7	071.5	34.57



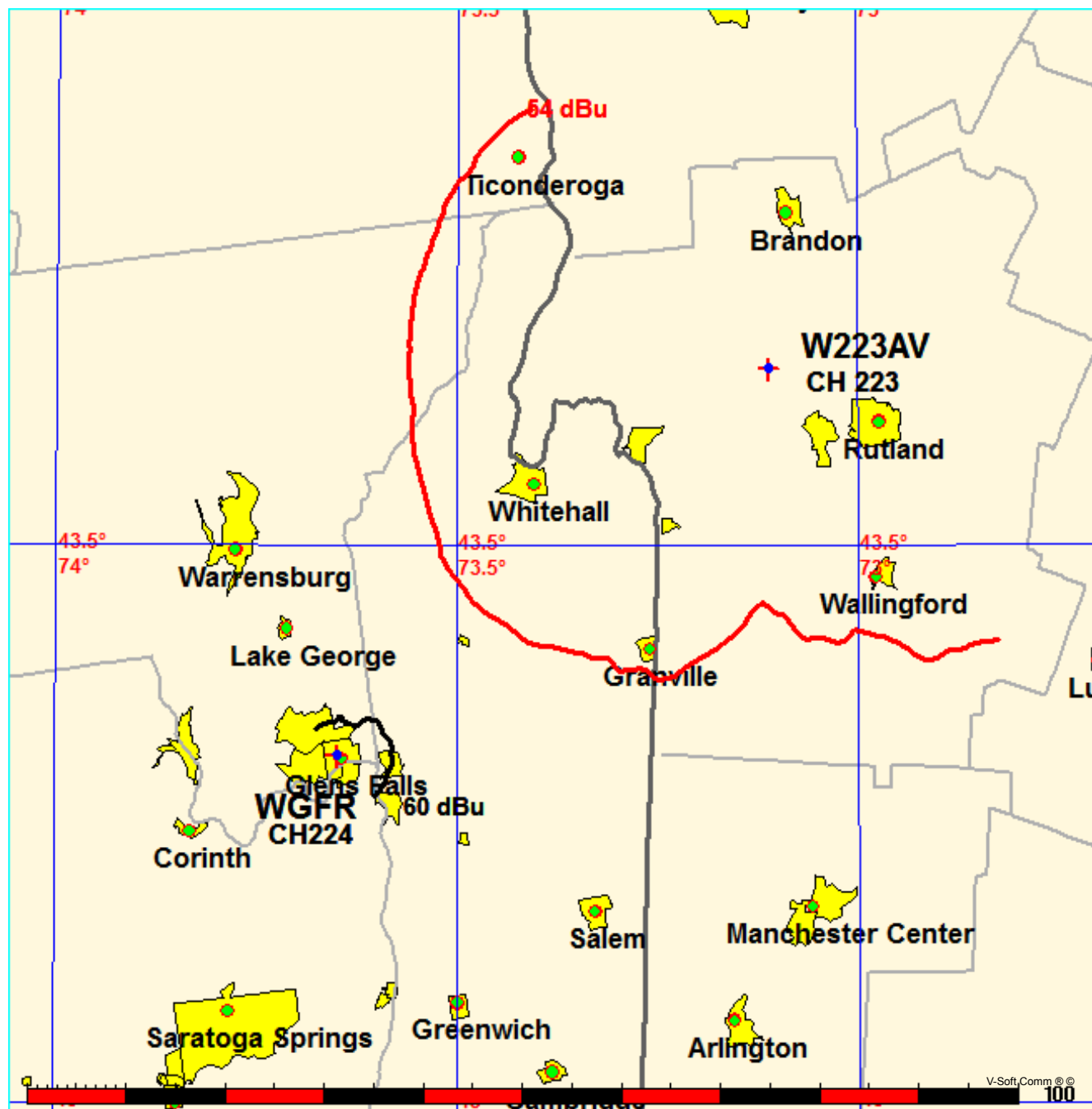
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
057.0	017.0000	0405.3	076.1		186.7	000.1140	0266.0	072.5	33.92
058.0	017.0000	0405.7	076.1		186.1	000.1140	0254.5	073.5	33.20
059.0	017.0000	0406.4	076.2		185.4	000.1140	0242.0	074.6	32.44
060.0	017.0000	0407.3	076.2		184.8	000.1140	0230.2	075.6	31.69
061.0	017.0000	0408.2	076.3		184.2	000.1140	0224.5	076.7	31.13
062.0	017.0000	0409.5	076.4		183.6	000.1140	0220.1	077.8	30.62
063.0	017.0000	0410.6	076.5		183.1	000.1140	0214.5	078.9	30.05
064.0	017.0000	0411.7	076.6		182.5	000.1140	0210.3	080.0	29.52
065.0	017.0000	0413.1	076.7		182.0	000.1140	0210.7	081.1	29.17
066.0	017.0000	0414.5	076.8		181.6	000.1140	0215.2	082.3	28.97
067.0	017.0000	0416.3	076.9		181.1	000.1140	0217.5	083.4	28.69
068.0	017.0000	0418.0	077.0		180.6	000.1140	0219.1	084.6	28.37
069.0	017.0000	0419.7	077.2		180.2	000.1140	0220.8	085.8	28.05
070.0	017.0000	0421.1	077.3		179.9	000.1140	0222.1	087.1	27.70
071.0	017.0000	0422.3	077.4		179.5	000.1140	0223.6	088.3	27.37
072.0	017.0000	0423.0	077.4		179.2	000.1140	0226.2	089.6	27.06
073.0	017.0000	0422.5	077.4		179.0	000.1140	0227.9	090.9	26.71
074.0	017.0000	0421.7	077.3		178.8	000.1140	0229.3	092.2	26.35
075.0	017.0000	0421.1	077.3		178.6	000.1140	0230.5	093.5	25.98
076.0	017.0000	0421.0	077.3		178.5	000.1140	0231.4	094.8	25.60
077.0	017.0000	0422.0	077.3		178.3	000.1140	0232.4	096.1	25.23
078.0	017.0000	0422.9	077.4		178.1	000.1140	0232.9	097.4	24.85
079.0	017.0000	0423.6	077.5		177.9	000.1140	0233.0	098.8	24.45
080.0	017.0000	0423.9	077.5		177.8	000.1140	0232.9	100.1	24.04
081.0	017.0000	0423.5	077.4		177.7	000.1140	0232.9	101.5	23.65
082.0	017.0000	0422.9	077.4		177.7	000.1140	0232.9	102.8	23.26
083.0	017.0000	0422.7	077.4		177.6	000.1140	0232.9	104.1	22.87
084.0	017.0000	0421.8	077.3		177.6	000.1140	0232.9	105.5	22.50
085.0	017.0000	0421.1	077.3		177.6	000.1140	0232.9	106.9	22.13
086.0	017.0000	0421.2	077.3		177.6	000.1140	0232.8	108.2	21.77
087.0	017.0000	0423.7	077.5		177.5	000.1140	0232.7	109.5	21.42
088.0	017.0000	0425.2	077.6		177.4	000.1140	0232.5	110.9	21.09
089.0	017.0000	0422.8	077.4		177.5	000.1140	0232.7	112.2	20.77
090.0	017.0000	0420.0	077.2		177.6	000.1140	0232.9	113.6	20.47
091.0	017.0000	0419.9	077.2		177.7	000.1140	0232.9	114.9	20.17

Single Station Allocation Map  
Vermont Public Radio

FMCommander Single Allocation Study - 04-02-2012 - USGS 03 SEC  
W223AV's Overlaps (In= 26.72 km, Out= 15.5 km)

W223AV CH 223 D  
Lat= 43 39 31.0, Lng= 73 06 25.0  
0.114 kW 422.2 M HAAT, 678.2 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

WGFR CH 224 D BLED19950316KB  
Lat= 43 18 44.0, Lng= 73 38 58.0  
0.013 kW 15 M HAAT, 154 M COR  
Prot.= 60 dBu, Intef.= 54 dBu



04-02-2012

Terrain Data: USGS 03 SEC

FMOver Analysis

WGFR BLED19950316KB

W223AV

Channel = 224D

Max ERP = 0.013 kW

RCAMSL = 154 M

N. Lat. 43 18 44.0

W. Lng. 73 38 58.0

Protected

60 dBu

Channel = 223D

Max ERP = 0.114 kW

RCAMSL = 678.2 M

N. Lat. 43 39 31.0

W. Lng. 73 06 25.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
348.0	000.0130	-0071.8	003.4	231.8	000.1140	0523.3	056.7	46.98	
349.0	000.0130	-0072.9	003.4	231.8	000.1140	0523.2	056.7	47.00	
350.0	000.0130	-0068.1	003.4	231.7	000.1140	0523.1	056.6	47.01	
351.0	000.0130	-0059.8	003.4	231.7	000.1140	0523.1	056.6	47.03	
352.0	000.0130	-0052.9	003.4	231.7	000.1140	0523.0	056.5	47.04	
353.0	000.0130	-0039.4	003.4	231.7	000.1140	0523.0	056.5	47.06	
354.0	000.0130	-0024.9	003.4	231.6	000.1140	0522.9	056.4	47.08	
355.0	000.0130	-0010.6	003.4	231.6	000.1140	0522.8	056.4	47.09	
356.0	000.0130	0001.0	003.4	231.6	000.1140	0522.8	056.3	47.11	
357.0	000.0130	0014.2	003.4	231.5	000.1140	0522.7	056.3	47.12	
358.0	000.0130	0027.7	003.4	231.5	000.1140	0522.6	056.2	47.14	
359.0	000.0130	0033.3	003.5	231.6	000.1140	0522.8	056.1	47.19	
000.0	000.0130	0033.4	003.5	231.5	000.1140	0522.7	056.0	47.21	
001.0	000.0130	0034.7	003.6	231.6	000.1140	0522.8	055.9	47.25	
002.0	000.0130	0036.7	003.7	231.6	000.1140	0522.8	055.8	47.29	
003.0	000.0130	0035.4	003.6	231.5	000.1140	0522.7	055.8	47.29	
004.0	000.0130	0035.3	003.6	231.5	000.1140	0522.6	055.8	47.30	
005.0	000.0130	0036.8	003.7	231.5	000.1140	0522.6	055.7	47.34	
006.0	000.0130	0037.8	003.8	231.5	000.1140	0522.6	055.6	47.36	
007.0	000.0130	0038.0	003.8	231.4	000.1140	0522.5	055.5	47.38	
008.0	000.0130	0037.1	003.7	231.3	000.1140	0522.4	055.5	47.38	
009.0	000.0130	0031.0	003.4	231.1	000.1140	0521.7	055.7	47.30	
010.0	000.0130	0017.6	003.4	231.0	000.1140	0521.4	055.7	47.29	
011.0	000.0130	-0002.5	003.4	230.9	000.1140	0521.2	055.7	47.30	
012.0	000.0130	-0021.7	003.4	230.9	000.1140	0521.0	055.6	47.31	
013.0	000.0130	-0034.0	003.4	230.9	000.1140	0520.8	055.6	47.32	
014.0	000.0130	-0033.8	003.4	230.8	000.1140	0520.6	055.6	47.32	
015.0	000.0130	-0030.2	003.4	230.8	000.1140	0520.4	055.5	47.33	
016.0	000.0130	-0025.4	003.4	230.7	000.1140	0520.2	055.5	47.34	
017.0	000.0130	-0018.2	003.4	230.7	000.1140	0520.0	055.5	47.35	
018.0	000.0130	-0011.5	003.4	230.6	000.1140	0519.9	055.4	47.35	
019.0	000.0130	-0004.7	003.4	230.6	000.1140	0519.7	055.4	47.36	
020.0	000.0130	-0000.2	003.4	230.5	000.1140	0519.5	055.4	47.37	
021.0	000.0130	0004.9	003.4	230.4	000.1140	0519.3	055.3	47.37	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
022.0	000.0130	0009.9	003.4	230.4	000.1140	0519.1	055.3	47.38
023.0	000.0130	0017.3	003.4	230.3	000.1140	0519.0	055.3	47.38
024.0	000.0130	0025.1	003.4	230.3	000.1140	0518.8	055.2	47.39
025.0	000.0130	0030.1	003.4	230.2	000.1140	0518.6	055.2	47.39
026.0	000.0130	0027.0	003.4	230.2	000.1140	0518.4	055.2	47.39
027.0	000.0130	0025.4	003.4	230.1	000.1140	0518.2	055.2	47.40
028.0	000.0130	0026.0	003.4	230.1	000.1140	0517.9	055.2	47.40
029.0	000.0130	0025.8	003.4	230.0	000.1140	0517.7	055.1	47.40
030.0	000.0130	0024.2	003.4	229.9	000.1140	0517.5	055.1	47.41
031.0	000.0130	0025.5	003.4	229.9	000.1140	0517.4	055.1	47.41
032.0	000.0130	0030.2	003.4	229.8	000.1140	0517.2	055.1	47.41
033.0	000.0130	0034.9	003.6	229.8	000.1140	0517.2	054.8	47.50
034.0	000.0130	0035.7	003.7	229.8	000.1140	0517.1	054.8	47.52
035.0	000.0130	0036.2	003.7	229.7	000.1140	0516.9	054.7	47.53
036.0	000.0130	0037.3	003.7	229.7	000.1140	0516.7	054.6	47.55
037.0	000.0130	0042.5	004.0	229.7	000.1140	0516.7	054.4	47.65
038.0	000.0130	0049.3	004.4	229.7	000.1140	0516.7	054.0	47.78
039.0	000.0130	0053.0	004.5	229.6	000.1140	0516.6	053.8	47.84
040.0	000.0130	0056.9	004.7	229.6	000.1140	0516.5	053.6	47.91
041.0	000.0130	0059.6	004.8	229.5	000.1140	0516.2	053.5	47.94
042.0	000.0130	0061.4	004.9	229.4	000.1140	0515.9	053.4	47.97
043.0	000.0130	0061.9	004.9	229.3	000.1140	0515.6	053.4	47.97
044.0	000.0130	0061.7	004.9	229.3	000.1140	0515.3	053.4	47.96
045.0	000.0130	0062.3	004.9	229.2	000.1140	0515.0	053.4	47.96
046.0	000.0130	0062.6	004.9	229.1	000.1140	0514.7	053.4	47.96
047.0	000.0130	0065.6	005.0	229.0	000.1140	0514.4	053.3	47.99
048.0	000.0130	0068.7	005.2	228.9	000.1140	0514.1	053.1	48.03
049.0	000.0130	0070.6	005.2	228.8	000.1140	0513.8	053.1	48.05
050.0	000.0130	0071.7	005.3	228.7	000.1140	0513.4	053.0	48.05
051.0	000.0130	0071.5	005.3	228.6	000.1140	0513.0	053.0	48.04
052.0	000.0130	0071.2	005.2	228.5	000.1140	0512.6	053.1	48.02
053.0	000.0130	0071.1	005.2	228.4	000.1140	0512.2	053.1	48.01
054.0	000.0130	0071.0	005.2	228.3	000.1140	0511.8	053.1	47.99
055.0	000.0130	0071.0	005.2	228.2	000.1140	0511.4	053.1	47.98
056.0	000.0130	0070.9	005.2	228.1	000.1140	0510.9	053.1	47.96
057.0	000.0130	0070.7	005.2	228.0	000.1140	0510.4	053.1	47.94
058.0	000.0130	0070.6	005.2	227.9	000.1140	0509.9	053.2	47.92
059.0	000.0130	0070.4	005.2	227.8	000.1140	0509.4	053.2	47.90
060.0	000.0130	0069.9	005.2	227.7	000.1140	0509.0	053.2	47.88
061.0	000.0130	0069.2	005.2	227.6	000.1140	0508.6	053.3	47.85
062.0	000.0130	0067.7	005.1	227.6	000.1140	0508.2	053.3	47.82
063.0	000.0130	0067.0	005.1	227.5	000.1140	0507.8	053.4	47.79
064.0	000.0130	0067.0	005.1	227.4	000.1140	0507.4	053.4	47.77
065.0	000.0130	0067.6	005.1	227.3	000.1140	0506.9	053.4	47.76
066.0	000.0130	0068.9	005.2	227.2	000.1140	0506.4	053.4	47.75
067.0	000.0130	0070.2	005.2	227.1	000.1140	0505.8	053.4	47.74
068.0	000.0130	0071.0	005.2	227.0	000.1140	0505.3	053.4	47.73
069.0	000.0130	0072.7	005.3	226.8	000.1140	0504.7	053.4	47.72
070.0	000.0130	0074.7	005.4	226.7	000.1140	0504.2	053.3	47.72
071.0	000.0130	0075.9	005.4	226.6	000.1140	0503.7	053.3	47.71
072.0	000.0130	0076.7	005.4	226.5	000.1140	0503.2	053.4	47.69

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
073.0	000.0130	0077.4	005.5		226.4	000.1140	0502.8	053.4	47.67
074.0	000.0130	0078.1	005.5		226.3	000.1140	0502.4	053.4	47.65
075.0	000.0130	0078.7	005.5		226.2	000.1140	0502.0	053.4	47.64
076.0	000.0130	0079.3	005.5		226.1	000.1140	0501.7	053.5	47.62
077.0	000.0130	0079.6	005.5		226.0	000.1140	0501.3	053.5	47.60
078.0	000.0130	0079.8	005.5		225.9	000.1140	0501.1	053.5	47.57
079.0	000.0130	0080.1	005.6		225.8	000.1140	0500.8	053.6	47.55
080.0	000.0130	0080.4	005.6		225.7	000.1140	0500.5	053.6	47.53
081.0	000.0130	0080.2	005.6		225.6	000.1140	0500.3	053.7	47.50
082.0	000.0130	0079.9	005.5		225.6	000.1140	0500.0	053.8	47.47
083.0	000.0130	0079.6	005.5		225.5	000.1140	0499.7	053.8	47.44
084.0	000.0130	0079.2	005.5		225.4	000.1140	0499.5	053.9	47.40
085.0	000.0130	0078.5	005.5		225.4	000.1140	0499.3	054.0	47.37
086.0	000.0130	0078.4	005.5		225.3	000.1140	0499.1	054.0	47.34
087.0	000.0130	0078.0	005.5		225.2	000.1140	0498.9	054.1	47.31
088.0	000.0130	0077.1	005.4		225.2	000.1140	0498.9	054.2	47.28
089.0	000.0130	0076.9	005.4		225.1	000.1140	0498.7	054.3	47.25
090.0	000.0130	0077.5	005.5		225.0	000.1140	0498.6	054.3	47.23
091.0	000.0130	0078.3	005.5		224.9	000.1140	0498.5	054.4	47.20
092.0	000.0130	0079.3	005.5		224.8	000.1140	0498.4	054.4	47.19
093.0	000.0130	0079.4	005.5		224.8	000.1140	0498.4	054.5	47.16
094.0	000.0130	0080.1	005.6		224.7	000.1140	0498.3	054.5	47.14
095.0	000.0130	0081.7	005.6		224.6	000.1140	0498.3	054.6	47.12
096.0	000.0130	0081.7	005.6		224.5	000.1140	0498.3	054.7	47.09
097.0	000.0130	0081.4	005.6		224.4	000.1140	0498.2	054.7	47.06
098.0	000.0130	0082.0	005.6		224.4	000.1140	0498.2	054.8	47.04
099.0	000.0130	0081.6	005.6		224.3	000.1140	0498.2	054.9	47.00
100.0	000.0130	0081.1	005.6		224.3	000.1140	0498.1	055.0	46.97
101.0	000.0130	0080.8	005.6		224.2	000.1140	0498.1	055.1	46.94
102.0	000.0130	0080.6	005.6		224.2	000.1140	0498.1	055.2	46.91
103.0	000.0130	0079.8	005.5		224.2	000.1140	0498.0	055.3	46.87
104.0	000.0130	0078.7	005.5		224.1	000.1140	0498.0	055.4	46.83
105.0	000.0130	0077.7	005.5		224.1	000.1140	0498.0	055.5	46.79
106.0	000.0130	0078.0	005.5		224.1	000.1140	0498.0	055.5	46.76
107.0	000.0130	0077.6	005.5		224.0	000.1140	0497.9	055.6	46.73



04-02-2012

Terrain Data: USGS 03 SEC

FMOver Analysis

WEZF BLH19881011KF

W223AV

Channel = 225C

Max ERP = 46 kW

RCAMSL = 1251 M

N. Lat. 44 31 40.0

W. Lng. 72 48 58.0

Protected

60 dBu

Channel = 223D

Max ERP = 0.114 kW

RCAMSL = 678.2 M

N. Lat. 43 39 31.0

W. Lng. 73 06 25.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
134.0	046.0000	0911.9	094.2	070.8	000.1140	0388.6	096.4	30.05	
135.0	046.0000	0905.8	094.1	071.1	000.1140	0386.4	094.6	30.51	
136.0	046.0000	0898.1	093.9	071.4	000.1140	0384.3	093.0	30.92	
137.0	046.0000	0887.0	093.6	071.7	000.1140	0382.7	091.4	31.37	
138.0	046.0000	0873.2	093.2	071.9	000.1140	0381.3	089.8	31.85	
139.0	046.0000	0862.1	092.9	072.2	000.1140	0379.9	088.2	32.33	
140.0	046.0000	0857.2	092.7	072.5	000.1140	0377.9	086.6	32.78	
141.0	046.0000	0853.2	092.6	072.8	000.1140	0375.6	085.1	33.22	
142.0	046.0000	0848.1	092.5	073.2	000.1140	0373.6	083.6	33.68	
143.0	046.0000	0845.4	092.4	073.5	000.1140	0371.2	082.0	34.12	
144.0	046.0000	0845.9	092.4	073.9	000.1140	0368.7	080.5	34.55	
145.0	046.0000	0852.8	092.6	074.5	000.1140	0365.1	079.1	34.92	
146.0	046.0000	0865.5	093.0	075.1	000.1140	0361.9	077.7	35.29	
147.0	046.0000	0872.6	093.2	075.7	000.1140	0359.7	076.2	35.73	
148.0	046.0000	0880.5	093.4	076.3	000.1140	0358.1	074.8	36.19	
149.0	046.0000	0889.0	093.6	076.8	000.1140	0354.9	073.3	36.60	
150.0	046.0000	0895.0	093.8	077.4	000.1140	0351.4	071.8	37.02	
151.0	046.0000	0899.9	093.9	077.9	000.1140	0348.1	070.3	37.45	
152.0	046.0000	0896.7	093.9	078.2	000.1140	0346.7	068.7	37.97	
153.0	046.0000	0890.1	093.7	078.4	000.1140	0345.5	067.1	38.51	
154.0	046.0000	0881.1	093.4	078.6	000.1140	0344.9	065.4	39.08	
155.0	046.0000	0870.8	093.1	078.7	000.1140	0344.5	063.8	39.66	
156.0	046.0000	0862.5	092.9	078.9	000.1140	0344.2	062.2	40.24	
157.0	046.0000	0855.6	092.7	079.0	000.1140	0344.1	060.5	40.83	
158.0	046.0000	0849.1	092.5	079.2	000.1140	0344.3	058.9	41.44	
159.0	046.0000	0849.3	092.5	079.5	000.1140	0345.3	057.3	42.06	
160.0	046.0000	0848.8	092.5	079.8	000.1140	0346.9	055.8	42.71	
161.0	046.0000	0845.1	092.4	080.0	000.1140	0348.0	054.2	43.36	
162.0	046.0000	0837.5	092.1	080.0	000.1140	0348.2	052.5	43.98	
163.0	046.0000	0823.9	091.7	079.8	000.1140	0346.7	050.9	44.56	
164.0	046.0000	0808.5	091.2	079.4	000.1140	0344.9	049.3	45.14	
165.0	046.0000	0793.9	090.8	079.0	000.1140	0344.1	047.6	45.74	
166.0	046.0000	0782.8	090.4	078.7	000.1140	0344.6	046.0	46.38	
167.0	046.0000	0776.2	090.2	078.5	000.1140	0345.2	044.5	47.04	

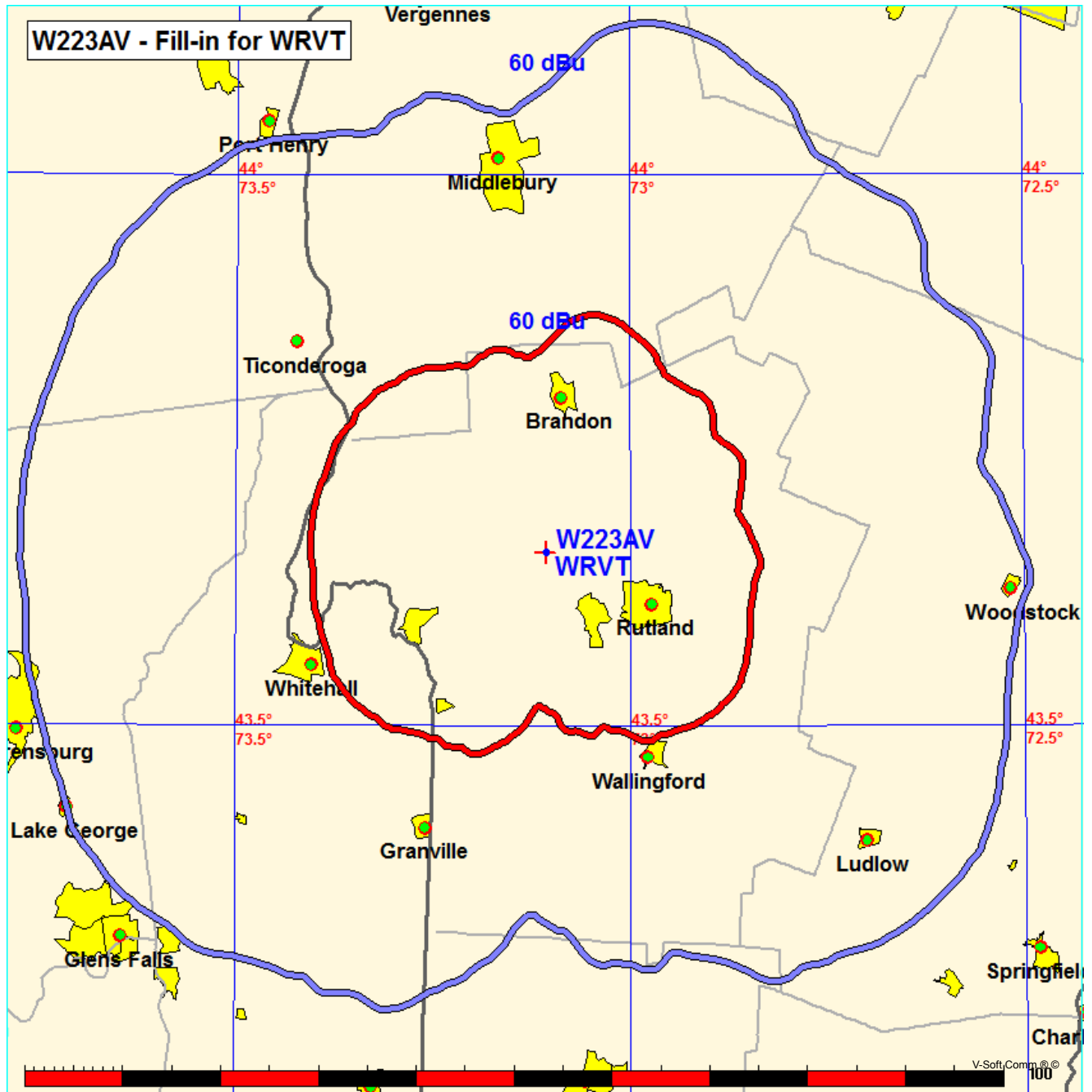
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
168.0	046.0000	0771.5	090.0	078.4	000.1140	0345.9	042.9	47.72
169.0	046.0000	0763.1	089.7	078.0	000.1140	0347.6	041.3	48.44
170.0	046.0000	0754.1	089.4	077.5	000.1140	0350.2	039.8	49.20
171.0	046.0000	0741.1	089.0	076.7	000.1140	0355.5	038.3	50.03
172.0	046.0000	0725.6	088.5	075.7	000.1140	0359.5	036.8	50.83
173.0	046.0000	0710.7	088.0	074.6	000.1140	0364.1	035.3	51.63
174.0	046.0000	0698.1	087.5	073.5	000.1140	0371.3	033.9	52.50
175.0	046.0000	0682.7	087.0	072.1	000.1140	0380.4	032.5	53.41
176.0	046.0000	0667.4	086.4	070.5	000.1140	0390.6	031.2	54.34
177.0	046.0000	0651.4	085.9	068.6	000.1140	0404.7	029.9	55.39
178.0	046.0000	0638.0	085.4	066.8	000.1140	0419.5	028.6	56.47
179.0	046.0000	0622.0	084.8	064.5	000.1140	0419.7	027.5	57.18
180.0	046.0000	0603.7	084.1	061.8	000.1140	0411.4	026.5	57.63
181.0	046.0000	0585.2	083.4	058.8	000.1140	0387.6	025.6	57.63
182.0	046.0000	0569.6	082.7	055.6	000.1140	0377.3	024.8	57.92
183.0	046.0000	0556.2	082.0	052.3	000.1140	0407.2	024.1	59.18
184.0	046.0000	0545.4	081.4	049.0	000.1140	0431.0	023.4	60.22
185.0	046.0000	0530.4	080.6	045.1	000.1140	0433.3	023.1	60.52
186.0	046.0000	0523.5	080.2	041.7	000.1140	0414.9	022.5	60.50
187.0	046.0000	0521.1	080.1	038.5	000.1140	0405.4	021.9	60.76
188.0	046.0000	0516.5	079.8	034.9	000.1140	0400.3	021.4	60.98
189.0	046.0000	0508.5	079.3	031.0	000.1140	0430.9	021.3	61.81
190.0	046.0000	0502.2	078.9	027.2	000.1140	0467.7	021.2	62.59
191.0	046.0000	0503.4	079.0	023.6	000.1140	0477.8	020.8	63.08
192.0	046.0000	0504.7	079.1	019.9	000.1140	0497.0	020.4	63.62
193.0	046.0000	0509.7	079.4	016.1	000.1140	0505.5	020.0	64.08
194.0	046.0000	0522.0	080.1	012.1	000.1140	0507.4	019.3	64.68
195.0	046.0000	0532.3	080.7	007.7	000.1140	0486.2	018.8	64.74
196.0	046.0000	0543.9	081.4	003.1	000.1140	0418.7	018.4	63.79
197.0	046.0000	0560.3	082.2	358.1	000.1140	0350.5	018.0	62.48
198.0	046.0000	0575.7	082.9	352.9	000.1140	0336.7	017.8	62.24
199.0	046.0000	0591.5	083.6	347.8	000.1140	0370.8	017.9	63.03
200.0	046.0000	0601.7	084.0	343.3	000.1140	0374.3	018.4	62.73
201.0	046.0000	0603.4	084.1	339.7	000.1140	0364.4	019.3	61.78
202.0	046.0000	0604.3	084.1	336.6	000.1140	0354.6	020.2	60.75
203.0	046.0000	0606.9	084.2	333.6	000.1140	0374.4	021.3	60.46
204.0	046.0000	0607.8	084.3	331.1	000.1140	0387.9	022.4	59.94
205.0	046.0000	0609.6	084.3	328.9	000.1140	0404.6	023.5	59.50
206.0	046.0000	0629.0	085.1	325.6	000.1140	0430.0	024.4	59.48
207.0	046.0000	0660.8	086.2	321.7	000.1140	0452.1	025.2	59.38
208.0	046.0000	0691.9	087.3	318.1	000.1140	0458.0	026.2	58.83
209.0	046.0000	0713.8	088.1	315.6	000.1140	0470.4	027.4	58.26
210.0	046.0000	0724.1	088.4	314.1	000.1140	0477.9	028.8	57.55
211.0	046.0000	0737.3	088.9	312.6	000.1140	0480.9	030.2	56.81
212.0	046.0000	0758.7	089.6	310.8	000.1140	0481.3	031.6	56.09
213.0	046.0000	0777.5	090.2	309.3	000.1140	0482.8	033.1	55.42
214.0	046.0000	0794.2	090.8	308.2	000.1140	0486.3	034.6	54.78
215.0	046.0000	0810.0	091.3	307.2	000.1140	0489.3	036.2	54.14
216.0	046.0000	0829.3	091.9	306.2	000.1140	0491.7	037.7	53.48
217.0	046.0000	0844.1	092.3	305.6	000.1140	0491.5	039.4	52.79
218.0	046.0000	0857.5	092.7	305.1	000.1140	0490.3	041.0	52.08



Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
219.0	046.0000	0869.9	093.1		304.8	000.1140	0488.8	042.6	51.38
220.0	046.0000	0879.7	093.4		304.6	000.1140	0488.1	044.3	50.71
221.0	046.0000	0880.1	093.4		304.8	000.1140	0489.0	045.9	50.10
222.0	046.0000	0879.9	093.4		305.1	000.1140	0490.1	047.5	49.51
223.0	046.0000	0880.6	093.4		305.3	000.1140	0490.9	049.1	48.94
224.0	046.0000	0882.5	093.5		305.5	000.1140	0491.4	050.7	48.36
225.0	046.0000	0885.3	093.5		305.7	000.1140	0491.7	052.4	47.77
226.0	046.0000	0884.2	093.5		306.1	000.1140	0491.7	054.0	47.18
227.0	046.0000	0885.9	093.6		306.3	000.1140	0491.5	055.6	46.59
228.0	046.0000	0894.5	093.8		306.4	000.1140	0491.3	057.2	45.98
229.0	046.0000	0905.0	094.1		306.5	000.1140	0491.1	058.9	45.38
230.0	046.0000	0914.3	094.3		306.7	000.1140	0490.7	060.5	44.77
231.0	046.0000	0920.9	094.5		306.9	000.1140	0489.9	062.2	44.18
232.0	046.0000	0925.2	094.6		307.2	000.1140	0489.4	063.8	43.61
233.0	046.0000	0931.0	094.7		307.4	000.1140	0488.7	065.4	43.04
234.0	046.0000	0936.5	094.9		307.7	000.1140	0487.4	067.1	42.46
235.0	046.0000	0940.1	095.0		308.1	000.1140	0486.4	068.7	41.90
236.0	046.0000	0941.1	095.0		308.5	000.1140	0485.3	070.3	41.34
237.0	046.0000	0939.4	094.9		308.9	000.1140	0483.7	071.8	40.78
238.0	046.0000	0940.0	095.0		309.3	000.1140	0482.7	073.4	40.24
239.0	046.0000	0945.6	095.1		309.7	000.1140	0481.7	075.0	39.68
240.0	046.0000	0950.3	095.2		310.0	000.1140	0481.2	076.6	39.15
241.0	046.0000	0954.2	095.3		310.4	000.1140	0481.1	078.2	38.63
242.0	046.0000	0956.3	095.4		310.8	000.1140	0481.3	079.8	38.12
243.0	046.0000	0954.1	095.3		311.3	000.1140	0481.9	081.3	37.63
244.0	046.0000	0951.0	095.2		311.8	000.1140	0481.7	082.8	37.14
245.0	046.0000	0948.3	095.2		312.2	000.1140	0480.8	084.3	36.63
246.0	046.0000	0944.9	095.1		312.7	000.1140	0481.1	085.8	36.17
247.0	046.0000	0941.4	095.0		313.2	000.1140	0480.8	087.3	35.69
248.0	046.0000	0937.5	094.9		313.7	000.1140	0479.0	088.8	35.18
249.0	046.0000	0936.2	094.9		314.2	000.1140	0477.3	090.3	34.68
250.0	046.0000	0936.9	094.9		314.6	000.1140	0475.4	091.8	34.16
251.0	046.0000	0940.4	095.0		315.1	000.1140	0473.4	093.3	33.64
252.0	046.0000	0946.6	095.1		315.4	000.1140	0471.4	094.8	33.11
253.0	046.0000	0953.6	095.3		315.8	000.1140	0469.2	096.4	32.58

60 dBu Coverage Comparison for Fill-in  
Vermont Public Radio

Coverage Study - USGS 03 SEC  
04-02-2012



N. Lat. = 433931.0 W. Lng. = 730625.0  
 HAAT and Distance to Contour,  
 FCC, FM 2-10 Mi, 51 pts Method - USGS 03 SEC

Proposed 60 dBu - Distance to Contour

Azi.	AV EL	HAAT	ERP kw	dBk	Field	60-F5
000	308.4	369.8	0.1140	-9.43	1.000	20.59
030	233.5	444.7	0.1140	-9.43	1.000	22.46
060	282.4	395.8	0.1140	-9.43	1.000	21.25
090	273.8	404.4	0.1140	-9.43	1.000	21.47
120	201.0	477.2	0.1140	-9.43	1.000	23.32
150	257.0	421.2	0.1140	-9.43	1.000	21.88
180	456.6	221.6	0.1140	-9.43	1.000	15.84
210	260.0	418.2	0.1140	-9.43	1.000	21.81
240	147.3	530.9	0.1140	-9.43	1.000	24.88
270	182.9	495.3	0.1140	-9.43	1.000	23.85
300	184.3	493.9	0.1140	-9.43	1.000	23.81
330	284.5	393.7	0.1140	-9.43	1.000	21.20

Ave El= 255.97 M HAAT= 422.23 M AMSL= 678.2

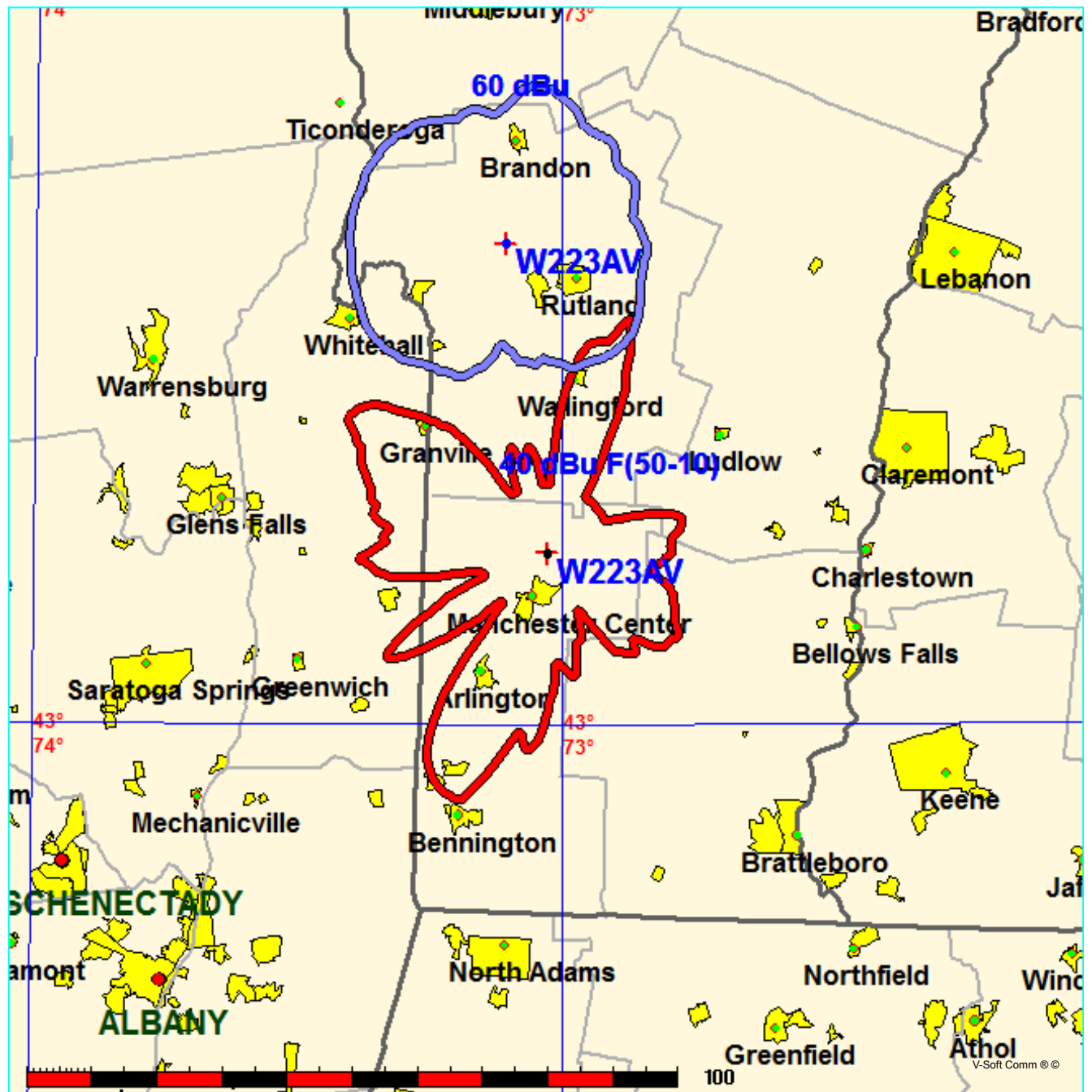
N. Lat. = 433931.0 W. Lng. = 730625.0  
 HAAT and Distance to Contour,  
 FCC, FM 2-10 Mi, 51 pts Method - USGS 03 SEC

WRVT, Vermont Public Radio, BLED20101206ACJ

Azi.	AV EL	HAAT	ERP kw	dBk	Field	60-F5
000	308.4	354.6	0.7990	-0.97	0.408	32.34
010	176.7	486.3	1.2681	1.03	0.514	41.71
020	181.8	481.2	2.0093	3.03	0.647	45.55
030	233.5	429.5	3.1805	5.02	0.814	47.07
040	268.4	394.6	4.8000	6.81	1.000	49.04
050	253.1	409.9	4.8000	6.81	1.000	49.87
060	282.4	380.6	4.8000	6.81	1.000	48.29
070	284.3	378.7	4.8000	6.81	1.000	48.19
080	329.8	333.2	4.8000	6.81	1.000	45.55
090	273.8	389.2	4.8000	6.81	1.000	48.75
100	273.6	389.4	4.8000	6.81	1.000	48.76
110	246.8	416.2	4.8000	6.81	1.000	50.21
120	201.0	462.0	4.8000	6.81	1.000	52.72
130	188.5	474.5	4.8000	6.81	1.000	53.42
140	214.2	448.8	4.8000	6.81	1.000	51.98
150	257.0	406.0	4.8000	6.81	1.000	49.66
160	365.4	297.6	4.8000	6.81	1.000	43.44
170	386.5	276.5	4.8000	6.81	1.000	42.16
180	456.6	206.4	4.8000	6.81	1.000	37.52
190	373.1	289.9	4.8000	6.81	1.000	42.98
200	264.4	398.6	4.8000	6.81	1.000	49.26
210	260.0	403.0	4.8000	6.81	1.000	49.49
220	197.5	465.5	4.8000	6.81	1.000	52.91
230	160.5	502.5	4.8000	6.81	1.000	55.06
240	147.3	515.7	4.8000	6.81	1.000	55.84
250	170.3	492.7	4.8000	6.81	1.000	54.48
260	179.4	483.6	4.8000	6.81	1.000	53.95
270	182.9	480.1	4.8000	6.81	1.000	53.74
280	181.6	481.4	4.8000	6.81	1.000	53.82
290	187.6	475.4	4.8000	6.81	1.000	53.47
300	184.3	478.7	4.8000	6.81	1.000	53.66
310	197.0	466.0	4.8000	6.81	1.000	52.94
320	225.3	437.7	3.7171	5.70	0.880	48.97
330	284.5	378.5	2.3453	3.70	0.699	41.94
340	311.3	351.7	1.4785	1.70	0.555	36.98
350	320.9	342.1	0.9335	-0.30	0.441	32.92

Ave El= 250.26 M HAAT= 412.74 M AMSL= 663 M

Coverage Study - USGS 03 SEC  
04-02-2012



N. Lat. = 433931.0 W. Lng. = 730625.0  
 HAAT and Distance to Contour,  
 FCC, FM 2-10 Mi, 51 pts Method - USGS 03 SEC

Distance to Contour - Proposed Facility

Azi.	AV EL	HAAT	ERP kw	dBk	Field	60-F5
000	308.4	369.8	0.1140	-9.43	1.000	20.59
030	233.5	444.7	0.1140	-9.43	1.000	22.46
060	282.4	395.8	0.1140	-9.43	1.000	21.25
090	273.8	404.4	0.1140	-9.43	1.000	21.47
120	201.0	477.2	0.1140	-9.43	1.000	23.32
150	257.0	421.2	0.1140	-9.43	1.000	21.88
180	456.6	221.6	0.1140	-9.43	1.000	15.84
210	260.0	418.2	0.1140	-9.43	1.000	21.81
240	147.3	530.9	0.1140	-9.43	1.000	24.88
270	182.9	495.3	0.1140	-9.43	1.000	23.85
300	184.3	493.9	0.1140	-9.43	1.000	23.81
330	284.5	393.7	0.1140	-9.43	1.000	21.20

Ave E1= 255.97 M HAAT= 422.23 M AMSL= 678.2

N. Lat. = 431412.0 W. Lng. = 730144.0  
 HAAT and Distance to Contour,  
 FCC, FM 2-10 Mi, 51 pts Method - USGS 03 SEC

W223AV, Vermont Public Radio, BLFT20051021AGI

Azi.	AV EL	HAAT	ERP kw	dBk	Field	40-F(50-10)
000	643.9	6.1	0.0100	-20.00	1.000	10.16
030	555.5	94.5	0.0100	-20.00	1.000	18.59
060	639.6	10.4	0.0100	-20.00	1.000	10.16
090	549.8	100.2	0.0100	-20.00	1.000	19.24
120	508.2	141.8	0.0100	-20.00	1.000	23.17
150	621.7	28.3	0.0100	-20.00	1.000	10.16
180	495.0	155.0	0.0100	-20.00	1.000	24.31
210	299.6	350.4	0.0100	-20.00	1.000	36.77
240	470.9	179.1	0.0100	-20.00	1.000	26.21
270	454.5	195.5	0.0100	-20.00	1.000	27.28
300	354.0	296.0	0.0100	-20.00	1.000	33.49
330	668.9	-18.9	0.0100	-20.00	1.000	10.16

Ave E1= 521.81 M HAAT= 128.19 M AMSL= 650 M

REFERENCE		DISPLAY DATES
43 36 41.4 N.	CLASS = L1 Int = L1	DATA 03-22-12
72 58 20.8 W.	Current Spacings to 2nd Adj.	SEARCH 03-22-12
----- Channel 227 - 93.3 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
WEZF	LIC 225C	Burlington	VT	6.9	102.57	93.0	10.1
W227CA	LIC 227D	Rupert	VT	203.6	40.06	26.0	14.6
631293	APP 226D	Woodstock	VT	85.2	37.71	15.0	23.2
WSLP	LIC 227C3	Saranac Lake	NY	311.0	110.92	78.0	33.4
WIFY	LIC-Z 229C3	Addison	VT	332.8	76.29	40.0	36.8
WANC	LIC 280A	Ticonderoga	NY	305.2	42.78	6.0	37.3
WEEY	LIC 228A	Swanzy	NH	145.9	93.19	56.0	37.7
WMNV	LIC 281A	Rupert	VT	210.9	44.62	6.0	39.1
641251	APP 226D	Claremont	NH	113.4	59.83	21.0	39.3
640733	APP-D 226D	Lebanon	NH	88.7	57.94	15.0	43.4
631312	APP 226D	Hanover	NH	76.6	58.33	15.0	43.8
W228BO	LIC 228D	Lake George	NY	251.7	67.16	21.0	46.7

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 Reference station has protected zone issue: Canada- AM tower



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REFERENCE		DISPLAY DATES
43 36 41.4 N.	CLASS = L1 Int = L1	DATA 03-22-12
72 58 20.8 W.	Current Spacings to 2nd Adj.	SEARCH 03-22-12
----- Channel 228 - 93.5 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
<hr/>							
WIFY	LIC-Z 229C3	Addison	VT	332.8	76.29	67.0	9.8
WMXR	LIC-Z 230A	Woodstock	VT	85.2	49.29	29.0	20.8
W227CA	LIC 227D	Rupert	VT	203.6	40.06	15.0	25.6
WEEY	LIC 228A	Swanzey	NH	145.9	93.19	67.0	26.7
631293	APP 226D	Woodstock	VT	85.2	37.71	8.0	30.2
W228BO	LIC 228D	Lake George	NY	251.7	67.16	32.0	35.7
WMNV	LIC 281A	Rupert	VT	210.9	44.62	6.0	39.1
WWOD	LIC-N 282C3	Hartford	VT	84.3	49.74	9.0	41.2
R10401	DEL 282C3	Hartford	VT	84.3	49.74	9.0	41.2
WSLP	LIC 227C3	Saranac Lake	NY	311.0	110.92	67.0	44.4
641251	APP 226D	Claremont	NH	113.4	59.83	14.0	46.3

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 Reference station has protected zone issue: Canada- AM tower

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REFERENCE		DISPLAY DATES
43 36 41.4 N.	CLASS = L1 Int = L1	DATA 03-22-12
72 58 20.8 W.	Current Spacings to 2nd Adj.	SEARCH 03-22-12
----- Channel 243 - 96.5 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
WFYX	LIC-N 242A	Walpole	NH	140.2	68.46	56.0	13.0
WDEV-FM	LIC 241C3	Warren	VT	3.5	57.37	40.0	17.9
631340	APP 242D	Rupert	VT	202.7	40.89	21.0	20.4
WTSa-FM	LIC 244A	Brattleboro	VT	160.0	85.39	56.0	29.9
W242AG	LIC 242D	Quechee	VT	84.3	49.74	15.0	35.2
WXZO	LIC-N 244A	Willsboro	NY	337.4	95.44	56.0	39.9
1437469	RSV-A 243A	Speculator	NY	265.5	112.58	67.0	46.1
NEW	RSV-A 243A	Speculator	NY	265.5	112.58	67.0	46.1
1492636	APP 243A	Speculator	NY	265.5	112.58	67.0	46.1
1436929	APP 243A	Speculator	NY	265.5	112.58	67.0	46.1
1428698	APP 243A	Speculator	NY	264.0	113.01	67.0	46.5
AU9129019	VAC 243A	Speculator	NY	264.0	113.01	67.0	46.5
W243AT	LIC-D 243D	Barre	VT	31.4	74.00	26.0	48.5

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Reference station has protected zone issue: Canada- AM tower  
RSV-R = reserved and needs protection, RSV-A = allocation

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Vermont Public Radio

REFERENCE		DISPLAY DATES
43 36 41.4 N.	CLASS = L1 Int = L1	DATA 03-22-12
72 58 20.8 W.	Current Spacings to 2nd Adj.	SEARCH 03-22-12
----- Channel 259 - 99.7 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
WNTK-FM	LIC-Z 259A	New London	NH	103.2	77.97	67.0	11.5
WBTZ	LIC-D 260C	Plattsburgh	NY	338.6	138.60	120.0	19.1
WFRD	LIC-N 257A	Hanover	NH	84.8	54.82	29.0	26.3
W258AW	LIC 258D	Middlebury	VT	339.5	46.94	15.0	32.4
WNTK-FM1	LIC 259D	Claremont	NH	117.2	58.76	24.0	35.3
647198	APP 259D	Waitsfield	VT	9.9	64.76	26.0	39.3
WRVE	LIC 258B	Schenectady	NY	217.8	136.59	97.0	40.1
W261CB	LIC-? 261D	Norwich(west Lebano	VT	84.5	48.77	8.0	41.3
WVXM	CP -D 206A	Middlebury	VT	341.8	48.53	6.0	43.0
636011	APP 258D	Barre	VT	24.7	68.91	21.0	48.4
WRAN-LP	LIC 261L1	Randolph	VT	37.5	48.33	0.0	48.8

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Reference station has protected zone issue: Canada- AM tower

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REFERENCE		DISPLAY DATES
43 36 41.4 N.	CLASS = L1 Int = L1	DATA 03-22-12
72 58 20.8 W.	Current Spacings to 3rd Adj.	SEARCH 03-22-12
----- Channel 260 - 99.9 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
WBTZ	LIC-D 260C	Plattsburgh	NY	338.6	138.60	130.0	9.1
WXXK	LIC-N 263C3	Lebanon	NH	84.7	54.88	40.0	15.4
WKBE	LIC 262B1	Warrensburg	NY	251.8	67.20	46.0	21.7
WNTK-FM	LIC-Z 259A	New London	NH	103.2	77.97	56.0	22.5
WFRD	LIC-N 257A	Hanover	NH	84.8	54.82	29.0	26.3
W261CB	LIC-? 261D	Norwich(west Lebano	VT	84.5	48.77	15.0	34.3
WRAN-LP	LIC 261L1	Randolph	VT	37.5	48.33	14.0	34.8
W258AW	LIC 258D	Middlebury	VT	339.5	46.94	8.0	39.4
WPNH-FM	LIC 261A	Plymouth	NH	81.1	96.34	56.0	40.8
WVXM	CP -D 206A	Middlebury	VT	341.8	48.53	6.0	43.0
WNTK-FM1	LIC 259D	Claremont	NH	117.2	58.76	13.0	46.3
WUPE-FM	LIC-N 261A	North Adams	MA	184.2	101.81	56.0	46.3

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Reference station has protected zone issue: Canada- AM tower

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Attachment E

REFERENCE		DISPLAY DATES
43 39 31.0 N.	CLASS = L1 Int = L1	DATA 03-22-12
73 06 25.0 W.	Current Spacings to 2nd Adj.	SEARCH 03-22-12
----- Channel 227 - 93.3 MHz -----		

Call	Channel	Location	Azi	Dist	FCC	Margin
-----						
WEZF	LIC 225C	Burlington	VT 13.4	99.34	93.0	6.8
W227CA	LIC 227D	Rupert	VT 187.0	42.25	26.0	16.8
WSLP	LIC 227C3	Saranac Lake	NY 312.7	99.34	78.0	21.8
WANC	LIC 280A	Ticonderoga	NY 308.7	30.95	6.0	25.5
WIFY	LIC-Z 229C3	Addison	VT 338.9	67.04	40.0	27.5
631293	APP 226D	Woodstock	VT 92.4	48.48	15.0	34.0
W228BO	LIC 228D	Lake George	NY 243.5	59.08	21.0	38.6
WMNV	LIC 281A	Rupert	VT 195.5	45.15	6.0	39.7
WEEY	LIC 228A	Swanzy	NH 142.5	103.80	56.0	48.3

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 Reference station has protected zone issue: Canada

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REFERENCE		DISPLAY DATES
43 39 31.0 N.	CLASS = L1 Int = L1	DATA 03-22-12
73 06 25.0 W.	Current Spacings to 2nd Adj.	SEARCH 03-22-12
----- Channel 228 - 93.5 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
-----							
WIFY	LIC-Z 229C3	Addison	VT	338.9	67.04	67.0	0.54
W228BO	LIC 228D	Lake George	NY	243.5	59.08	32.0	27.6
W227CA	LIC 227D	Rupert	VT	187.0	42.25	15.0	27.8
WMXR	LIC-Z 230A	Woodstock	VT	91.0	59.98	29.0	31.5
WSLP	LIC 227C3	Saranac Lake	NY	312.7	99.34	67.0	32.8
WEYY	LIC 228A	Swanzey	NH	142.5	103.80	67.0	37.3
WMNV	LIC 281A	Rupert	VT	195.5	45.15	6.0	39.7
631293	APP 226D	Woodstock	VT	92.4	48.48	8.0	41.0

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 Reference station has protected zone issue: Canada

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REFERENCE		DISPLAY DATES
43 39 31.0 N.	CLASS = L1 Int = L1	DATA 03-22-12
73 06 25.0 W.	Current Spacings to 2nd Adj.	SEARCH 03-22-12
----- Channel 243 - 96.5 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
WDEV-FM	LIC 241C3	Warren	VT	15.3	53.97	40.0	14.5
631340	APP 242D	Rupert	VT	186.5	43.23	21.0	22.7
WFYX	LIC-N 242A	Walpole	NH	136.6	79.59	56.0	24.1
WXZO	LIC-N 244A	Willsboro	NY	342.6	86.79	56.0	31.3
1492636	APP 243A	Speculator	NY	262.0	102.36	67.0	35.9
1437469	RSV-A 243A	Speculator	NY	262.0	102.36	67.0	35.9
NEW	RSV-A 243A	Speculator	NY	262.0	102.36	67.0	35.9
1436929	APP 243A	Speculator	NY	262.0	102.36	67.0	35.9
AU9129019	VAC 243A	Speculator	NY	260.4	102.96	67.0	36.5
1428698	APP 243A	Speculator	NY	260.4	102.96	67.0	36.5
WTSA-FM	LIC 244A	Brattleboro	VT	154.8	94.41	56.0	38.9
W242AG	LIC 242D	Quechee	VT	90.2	60.34	15.0	45.8

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 Reference station has protected zone issue: Canada  
 RSV-R = reserved and needs protection, RSV-A = allocation

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REFERENCE		DISPLAY DATES
43 39 31.0 N.	CLASS = L1 Int = L1	DATA 03-22-12
73 06 25.0 W.	Current Spacings to 2nd Adj.	SEARCH 03-22-12
----- Channel 259 - 99.7 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
<hr/>							
WBTZ	LIC-D 260C	Plattsburgh	NY	342.1	130.01	120.0	10.5
WNTK-FM	LIC-Z 259A	New London	NH	104.8	89.77	67.0	23.3
W258AW	LIC 258D	Middlebury	VT	351.7	39.11	15.0	24.6
WVXM	CP -D 206A	Middlebury	VT	353.8	41.07	6.0	35.6
WFRD	LIC-N 257A	Hanover	NH	90.2	65.45	29.0	37.0
647198	APP 259D	Waitsfield	VT	20.4	62.55	26.0	37.1
WRVE	LIC 258B	Schenectady	NY	212.7	134.57	97.0	38.1
WNTK-FM1	LIC 259D	Claremont	NH	116.9	70.81	24.0	47.3
636011	APP 258D	Barre	VT	34.6	69.75	21.0	49.3

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 Reference station has protected zone issue: Canada



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REFERENCE		DISPLAY DATES
43 39 31.0 N.	CLASS = L1 Int = L1	DATA 03-22-12
73 06 25.0 W.	Current Spacings to 2nd Adj.	SEARCH 03-22-12
----- Channel 260 - 99.9 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
WBTZ	LIC-D 260C	Plattsburgh	NY	342.1	130.01	130.0	0.51
WKBE	LIC 262B1	Warrensburg	NY	243.5	59.12	46.0	13.6
W258AW	LIC 258D	Middlebury	VT	351.7	39.11	8.0	31.6
WNTK-FM	LIC-Z 259A	New London	NH	104.8	89.77	56.0	34.3
WVXM	CP -D 206A	Middlebury	VT	353.8	41.07	6.0	35.6
WRAN-LP	LIC 261L1	Randolph	VT	50.5	52.15	14.0	38.7
W261CB	LIC-? 261D	Norwich(west Lebano	VT	90.5	59.41	15.0	44.9
647198	APP 259D	Waitsfield	VT	20.4	62.55	15.0	48.1

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Reference station has protected zone issue: Canada

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REFERENCE		DISPLAY DATES
43 39 31.0 N.	CLASS = L1 Int = L1	DATA 03-22-12
73 06 25.0 W.	Current Spacings to 2nd Adj.	SEARCH 03-22-12
----- Channel 277 - 103.3 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
<hr/>							
WWMP	LIC-N 277C3	Waterbury	VT	10.1	79.67	78.0	2.2
WRJT	LIC-N 276A	Royalton	VT	77.0	58.51	56.0	3.0
WRJT	CP -N 276A	Royalton	VT	77.0	58.51	56.0	3.0
WWMP	CP -Z 277C2	Waterbury	VT	13.5	99.12	91.0	8.6
AU9368096	VAC 223A	Poultney	VT	213.5	18.70	6.0	13.2
WWMP	RSV-A 277C2	Waterbury	VT	10.7	107.21	91.0	16.7
WKNE	LIC 279B	Keene	NH	139.1	91.74	67.0	25.2
WCLX	LIC-N 275A	Westport	NY	338.9	67.00	29.0	38.5
WQBJ	LIC 278B	Cobleskill	NY	236.2	135.75	97.0	39.3
AL6653	RSV-A 278B	St.johnsville	NY	236.2	135.75	97.0	39.3
W223AV	LIC 223D	Manchester	VT	172.3	47.30	5.0	42.8

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 Reference station has protected zone issue: Canada  
 RSV-R = reserved and needs protection, RSV-A = allocation