

Vermont Public Radio W228BL - Fill In Translator for WBTN CH# 228D - 93.5 MHz, Pwr= 0.12 kW, HAAT= 1.5 M, COR= 466 M Average Protected F(50-50)= 5.9 km Omni-directional										
REFERENCE										DISPLAY DATES
42 56 52.9 N.										DATA 02-24-09
73 10 33.9 W.										SEARCH 02-24-09
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kW)	INT(km)	PRO(km)	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)
228D	W228BL	LIC	_C_	327.9	0.0	42 56 53.0	0.010	10.2	3.2	-23.4*
South	Bennington	VT		147.9	BLFT20090217AFD	73 10 34.0		466	Vermont Public Radio	
228A	WEEY	LIC	_CX	92.7	69.1	42 54 57.0	2.000	82.7	28.8	19.1
Swansey		NH		273.3	BLH20080912AAG	72 19 52.0	175	425	Great Eastern Radio, Lic	
229A	AL4198	RSV	___	267.4	70.7	42 54 56.0	6.000	52.9	35.5	8.4
Scotia		NY		86.8	RM10086	74 02 28.0	100	289		
227D	628196	APP	_C_	285.9	29.4	43 01 11.0	0.001	6.6	4.4	0.1
Easton		NY		105.7	BNPFT20030312AYE	73 31 23.0		433	Northeast Gospel Broadcast	
229A	WYAI	LIC	NCX	262.3	73.5	42 51 24.0	1.250	50.3	33.4	12.4
Scotia		NY		81.7	BMLED20070319ACE	74 04 03.0	215	427	Educational Media Foundati	
228A	WZCR	LIC	_CN	212.1	90.9	42 15 13.0	5.800	67.5	15.6	22.9
Hudson		NY		31.7	BMLH19980720KH	73 45 45.0	-5	82	Cc Licenses, Lic	
227D	W227CA	LIC	_C_	0.7	37.0	43 16 52.0	0.010	4.4	3.2	10.5
Rupert		VT		180.7	BLFT20070409ACW	73 10 15.0		529	Vermont Public Radio	
228D	W228B0	LIC	_C_	318.1	70.7	43 25 12.0	0.008	43.0	11.8	25.2
Lake George		NY		137.7	BLFT20040916AAE	73 45 37.0		661	The St. Lawrence Universi t	
227D	650404	APP	_C_	294.5	54.3	43 08 54.0	0.010	10.7	7.5	25.4
Saratoga Springs		NY		114.1	BNPFT20030317LKL	73 47 03.0		255	The St. Lawrence Universi t	
281A	WMNV	LIC	_H_	349.7	36.0	43 16 01.0	4.300	2.0	12.5	9.5R 26.5M
Rupert		VT		169.6	BLH20041015ABS	73 15 21.0	61	379	Capital Media Corporation	
226B	WHYN-FM	LIC	_C_	151.1	89.7	42 14 28.0	8.900	4.6	60.5	27.6
Springfield		MA		331.4	BMLH19990121KA	72 38 56.0	305	403	Cc Licenses, Lic	

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 = 1, Co to 3rd adjacent.  
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
 Incoming contour overlap is ignored.  
 "\*"affixed to 'IN' or 'OUT' values = site inside protected contour.

## 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 "IN" and "OUT" columns 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** 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".

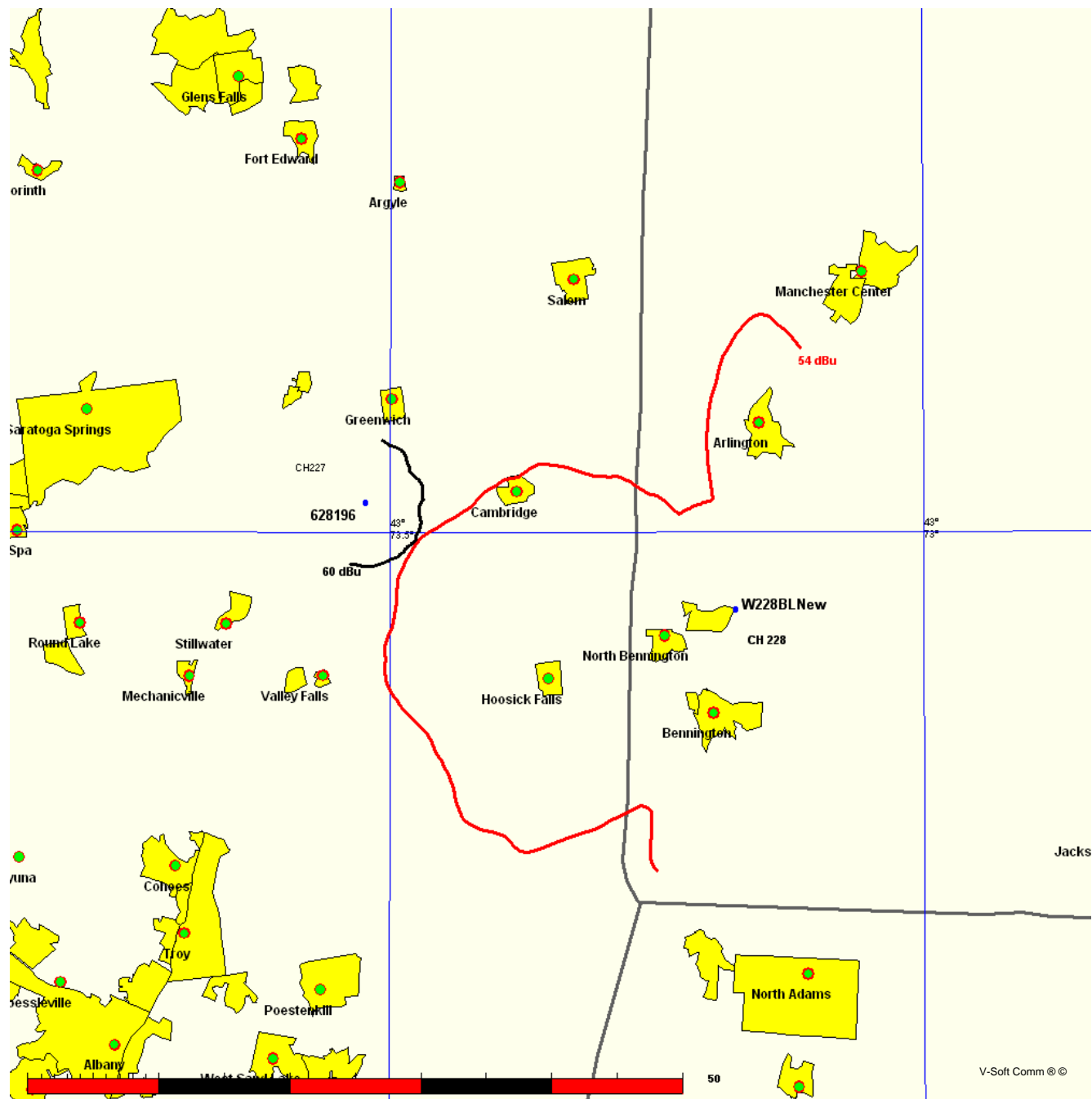
The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates with an omni-directional antenna. The fifth letter will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

Vermont Public Radio  
W228BL New v. 628196

FMCommander Single Allocation Study - 02-24-2009 - FCC NGDC 30 Sec  
W228BLNew's Overlaps (In= 5.62 km, Out= 0.11 km)

W228BLNew CH 228 D  
Lat= 42 56 52.9, Lng= 73 10 33.9  
0.12 kW 1.5 M HAAT, 466 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

628196 CH 227 D BNPFT20030312AYE  
Lat= 43 01 11.0, Lng= 73 31 23.0  
0.001 kW 0 M HAAT, 433 M COR  
Prot.= 60 dBu, Intef.= 54 dBu



## 02-24-2009 FCC NGDC 30 Sec Terrain Data

628196 BNPFT20030312AYE

Channel = 227D

Max ERP = 0.001 kW

RCAMSL = 433 M

N. Lat. 43 01 11.0

W. Lng. 73 31 23.0

Protected

60 dBu

W228BLNew

Channel = 228D

Max ERP = 0.12 kW

RCAMSL = 466 M

N. Lat. 42 56 52.9

W. Lng. 73 10 33.9

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
046.0	000.0010	0217.9	004.4	293.9	000.1200	0171.2	027.4	49.61	
047.0	000.0010	0213.7	004.4	293.8	000.1200	0171.4	027.3	49.66	
048.0	000.0010	0211.0	004.4	293.7	000.1200	0171.6	027.2	49.71	
049.0	000.0010	0208.2	004.4	293.6	000.1200	0171.7	027.2	49.76	
050.0	000.0010	0204.8	004.3	293.5	000.1200	0171.9	027.1	49.81	
051.0	000.0010	0199.9	004.3	293.3	000.1200	0172.1	027.1	49.85	
052.0	000.0010	0194.3	004.2	293.1	000.1200	0172.3	027.0	49.89	
053.0	000.0010	0188.6	004.2	293.0	000.1200	0172.5	027.0	49.92	
054.0	000.0010	0184.3	004.2	292.8	000.1200	0172.6	027.0	49.96	
055.0	000.0010	0181.7	004.1	292.7	000.1200	0172.6	026.9	50.00	
056.0	000.0010	0181.9	004.1	292.6	000.1200	0172.7	026.8	50.04	
057.0	000.0010	0183.3	004.1	292.6	000.1200	0172.7	026.8	50.09	
058.0	000.0010	0186.2	004.2	292.5	000.1200	0172.8	026.7	50.14	
059.0	000.0010	0189.3	004.2	292.5	000.1200	0172.8	026.6	50.19	
060.0	000.0010	0191.8	004.2	292.4	000.1200	0172.9	026.6	50.24	
061.0	000.0010	0193.3	004.2	292.3	000.1200	0172.9	026.5	50.29	
062.0	000.0010	0195.0	004.2	292.3	000.1200	0173.0	026.4	50.34	
063.0	000.0010	0197.9	004.3	292.2	000.1200	0173.0	026.4	50.39	
064.0	000.0010	0202.1	004.3	292.1	000.1200	0173.1	026.3	50.45	
065.0	000.0010	0206.9	004.3	292.1	000.1200	0173.2	026.2	50.51	
066.0	000.0010	0211.4	004.4	292.0	000.1200	0173.3	026.1	50.57	
067.0	000.0010	0215.3	004.4	292.0	000.1200	0173.5	026.0	50.63	
068.0	000.0010	0218.5	004.4	291.9	000.1200	0173.6	026.0	50.68	
069.0	000.0010	0221.2	004.5	291.8	000.1200	0173.8	025.9	50.74	
070.0	000.0010	0224.0	004.5	291.7	000.1200	0174.1	025.8	50.80	
071.0	000.0010	0226.8	004.5	291.6	000.1200	0174.4	025.8	50.86	
072.0	000.0010	0228.5	004.5	291.5	000.1200	0174.7	025.7	50.92	
073.0	000.0010	0229.3	004.5	291.3	000.1200	0175.0	025.7	50.97	
074.0	000.0010	0228.8	004.5	291.2	000.1200	0175.5	025.6	51.03	
075.0	000.0010	0226.4	004.5	291.0	000.1200	0175.9	025.6	51.07	
076.0	000.0010	0223.3	004.5	290.9	000.1200	0176.5	025.6	51.12	
077.0	000.0010	0219.7	004.4	290.7	000.1200	0177.0	025.5	51.16	
078.0	000.0010	0216.4	004.4	290.5	000.1200	0177.6	025.5	51.20	
079.0	000.0010	0215.3	004.4	290.3	000.1200	0178.2	025.5	51.25	
080.0	000.0010	0214.7	004.4	290.2	000.1200	0178.8	025.4	51.31	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
081.0	000.0010	0215.1	004.4	290.0	000.1200	0179.4	025.4	51.37
082.0	000.0010	0215.5	004.4	289.9	000.1200	0180.1	025.4	51.43
083.0	000.0010	0215.0	004.4	289.7	000.1200	0181.0	025.3	51.49
084.0	000.0010	0213.9	004.4	289.6	000.1200	0181.8	025.3	51.55
085.0	000.0010	0214.0	004.4	289.4	000.1200	0182.8	025.3	51.61
086.0	000.0010	0214.7	004.4	289.3	000.1200	0183.7	025.2	51.68
087.0	000.0010	0215.9	004.4	289.1	000.1200	0184.6	025.2	51.75
088.0	000.0010	0214.0	004.4	288.9	000.1200	0185.7	025.2	51.80
089.0	000.0010	0206.8	004.3	288.7	000.1200	0186.9	025.2	51.84
090.0	000.0010	0199.5	004.3	288.5	000.1200	0188.2	025.2	51.87
091.0	000.0010	0192.3	004.2	288.3	000.1200	0189.4	025.3	51.90
092.0	000.0010	0187.1	004.2	288.1	000.1200	0190.6	025.3	51.94
093.0	000.0010	0183.3	004.1	287.9	000.1200	0191.7	025.3	51.98
094.0	000.0010	0179.7	004.1	287.8	000.1200	0192.9	025.3	52.02
095.0	000.0010	0178.2	004.1	287.6	000.1200	0194.0	025.3	52.07
096.0	000.0010	0178.9	004.1	287.4	000.1200	0195.1	025.3	52.13
097.0	000.0010	0180.5	004.1	287.3	000.1200	0196.1	025.3	52.20
098.0	000.0010	0181.9	004.1	287.1	000.1200	0197.2	025.2	52.26
099.0	000.0010	0183.0	004.1	287.0	000.1200	0198.2	025.2	52.32
100.0	000.0010	0185.6	004.2	286.8	000.1200	0199.2	025.2	52.39
101.0	000.0010	0186.8	004.2	286.7	000.1200	0200.3	025.2	52.44
102.0	000.0010	0189.5	004.2	286.5	000.1200	0201.3	025.1	52.51
103.0	000.0010	0194.3	004.2	286.3	000.1200	0202.3	025.1	52.58
104.0	000.0010	0200.0	004.3	286.2	000.1200	0203.4	025.1	52.66
105.0	000.0010	0205.9	004.3	286.0	000.1200	0204.4	025.0	52.74
106.0	000.0010	0210.6	004.4	285.8	000.1200	0205.4	025.0	52.81
107.0	000.0010	0215.9	004.4	285.6	000.1200	0206.5	024.9	52.89
108.0	000.0010	0220.8	004.5	285.5	000.1200	0207.7	024.9	52.96
109.0	000.0010	0225.6	004.5	285.3	000.1200	0209.0	024.9	53.03
110.0	000.0010	0229.2	004.5	285.1	000.1200	0210.3	024.8	53.10
111.0	000.0010	0231.7	004.5	284.9	000.1200	0211.7	024.8	53.17
112.0	000.0010	0234.0	004.5	284.7	000.1200	0213.0	024.8	53.23
113.0	000.0010	0236.4	004.6	284.5	000.1200	0214.3	024.8	53.28
114.0	000.0010	0238.7	004.6	284.3	000.1200	0215.7	024.8	53.34
115.0	000.0010	0240.4	004.6	284.2	000.1200	0217.0	024.8	53.39
116.0	000.0010	0241.7	004.6	284.0	000.1200	0218.5	024.8	53.44
117.0	000.0010	0242.6	004.6	283.8	000.1200	0219.9	024.8	53.49
118.0	000.0010	0242.7	004.6	283.6	000.1200	0221.4	024.9	53.53
119.0	000.0010	0242.2	004.6	283.4	000.1200	0222.8	024.9	53.57
120.0	000.0010	0240.9	004.6	283.3	000.1200	0224.2	024.9	53.60
121.0	000.0010	0239.8	004.6	283.1	000.1200	0225.6	024.9	53.63
122.0	000.0010	0241.1	004.6	282.9	000.1200	0227.0	025.0	53.67
123.0	000.0010	0245.5	004.6	282.7	000.1200	0228.4	025.0	53.73
124.0	000.0010	0252.5	004.7	282.5	000.1200	0229.9	024.9	53.79
125.0	000.0010	0259.4	004.7	282.3	000.1200	0231.3	024.9	53.85
126.0	000.0010	0264.8	004.8	282.1	000.1200	0232.6	024.9	53.89
127.0	000.0010	0268.0	004.8	281.9	000.1200	0233.6	025.0	53.92
128.0	000.0010	0268.2	004.8	281.7	000.1200	0234.4	025.0	53.92
129.0	000.0010	0265.6	004.8	281.6	000.1200	0235.0	025.0	53.91
130.0	000.0010	0261.5	004.7	281.4	000.1200	0235.5	025.1	53.88
131.0	000.0010	0257.8	004.7	281.3	000.1200	0236.0	025.2	53.85

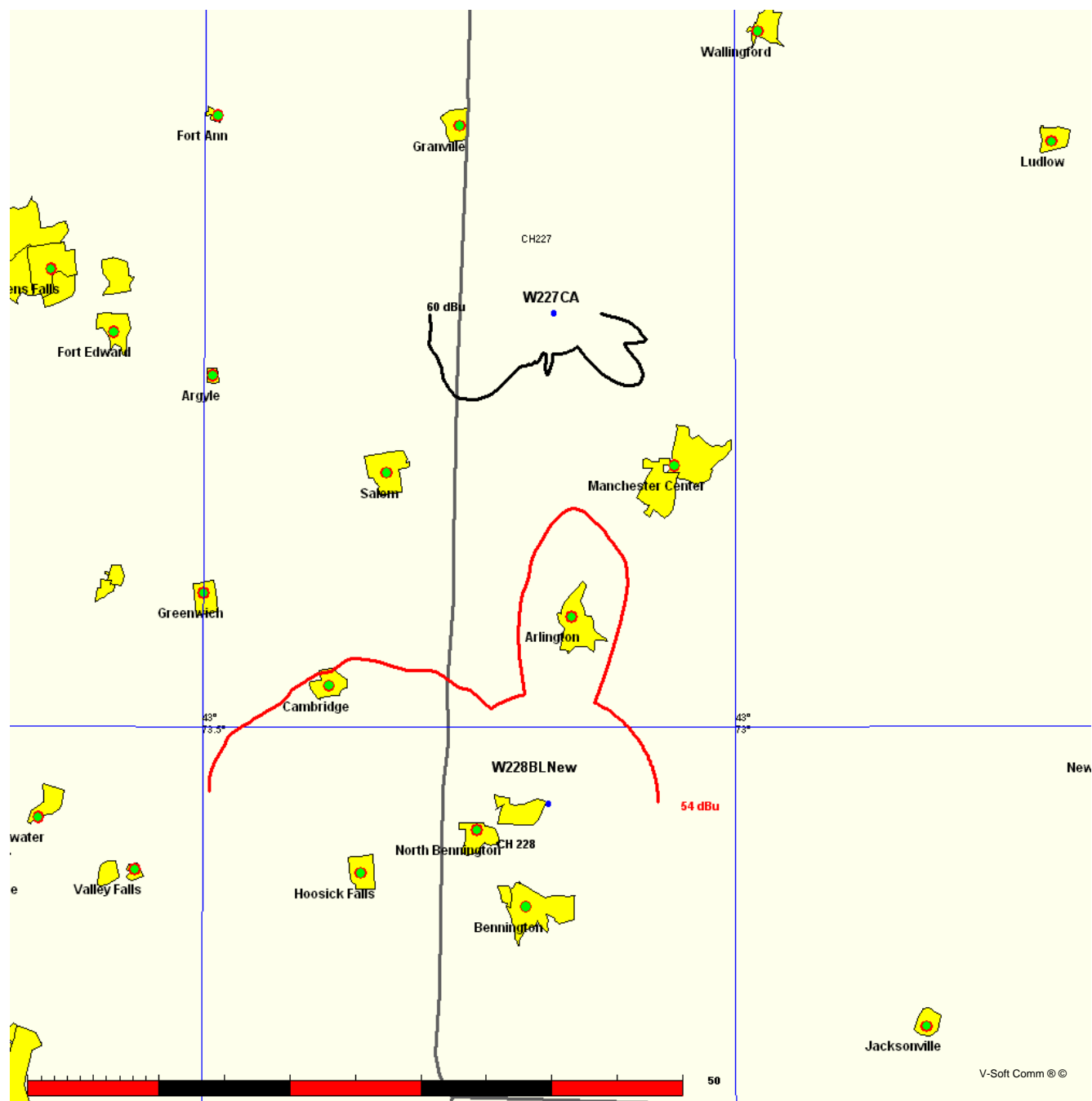
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
132.0	000.0010	0256.3	004.7	281.1	000.1200	0236.6	025.2	53.84
133.0	000.0010	0255.2	004.7	281.0	000.1200	0237.0	025.3	53.82
134.0	000.0010	0253.2	004.7	280.9	000.1200	0237.5	025.3	53.79
135.0	000.0010	0250.6	004.7	280.7	000.1200	0237.8	025.4	53.76
136.0	000.0010	0248.8	004.6	280.6	000.1200	0238.2	025.4	53.74
137.0	000.0010	0248.5	004.6	280.4	000.1200	0238.6	025.5	53.72
138.0	000.0010	0249.8	004.7	280.3	000.1200	0239.0	025.5	53.70
139.0	000.0010	0252.3	004.7	280.1	000.1200	0239.5	025.6	53.69
140.0	000.0010	0255.4	004.7	279.9	000.1200	0240.0	025.6	53.68
141.0	000.0010	0258.4	004.7	279.8	000.1200	0240.5	025.6	53.67
142.0	000.0010	0260.5	004.7	279.6	000.1200	0240.9	025.7	53.65
143.0	000.0010	0261.2	004.7	279.5	000.1200	0241.3	025.7	53.63
144.0	000.0010	0260.7	004.7	279.4	000.1200	0241.7	025.8	53.60
145.0	000.0010	0261.0	004.7	279.2	000.1200	0242.1	025.9	53.57
146.0	000.0010	0262.9	004.7	279.1	000.1200	0242.6	025.9	53.55
147.0	000.0010	0265.9	004.8	278.9	000.1200	0243.2	026.0	53.54
148.0	000.0010	0268.4	004.8	278.8	000.1200	0243.8	026.0	53.52
149.0	000.0010	0269.7	004.8	278.6	000.1200	0244.3	026.1	53.50
150.0	000.0010	0268.7	004.8	278.5	000.1200	0244.7	026.1	53.46
151.0	000.0010	0265.8	004.8	278.5	000.1200	0245.0	026.2	53.42
152.0	000.0010	0262.3	004.7	278.4	000.1200	0245.2	026.3	53.38
153.0	000.0010	0259.9	004.7	278.3	000.1200	0245.5	026.4	53.33
154.0	000.0010	0258.9	004.7	278.2	000.1200	0245.9	026.4	53.30
155.0	000.0010	0259.0	004.7	278.1	000.1200	0246.3	026.5	53.26
156.0	000.0010	0259.3	004.7	278.0	000.1200	0246.7	026.6	53.23
157.0	000.0010	0259.8	004.7	277.9	000.1200	0247.0	026.6	53.19
158.0	000.0010	0260.8	004.7	277.8	000.1200	0247.4	026.7	53.16
159.0	000.0010	0261.5	004.7	277.7	000.1200	0247.8	026.8	53.12
160.0	000.0010	0261.6	004.7	277.7	000.1200	0248.1	026.8	53.09
161.0	000.0010	0261.5	004.7	277.6	000.1200	0248.4	026.9	53.05
162.0	000.0010	0262.0	004.7	277.5	000.1200	0248.7	027.0	53.01
163.0	000.0010	0262.7	004.7	277.4	000.1200	0249.0	027.1	52.97
164.0	000.0010	0263.8	004.7	277.3	000.1200	0249.3	027.1	52.93
165.0	000.0010	0265.4	004.8	277.2	000.1200	0249.6	027.2	52.89
166.0	000.0010	0267.3	004.8	277.1	000.1200	0249.9	027.3	52.86

Vermont Public Radio  
W228BL New v. W227CA

FMCommander Single Allocation Study - 02-24-2009 - FCC NGDC 30 Sec  
W228BLNew's Overlaps (In= 17.9 km, Out= 10.5 km)

W228BLNew CH 228 D  
Lat= 42 56 52.9, Lng= 73 10 33.9  
0.12 kW 1.5 M HAAT, 466 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

W227CA CH 227 D BLFT20070409ACW  
Lat= 43 16 52.0, Lng= 73 10 15.0  
0.01 kW 0 M HAAT, 529 M COR  
Prot.= 60 dBu, Intef.= 54 dBu



## 02-24-2009 FCC NGDC 30 Sec Terrain Data

W227CA BLFT20070409ACW

Channel = 227D

Max ERP = 0.01 kW

RCAMSL = 529 M

N. Lat. 43 16 52.0

W. Lng. 73 10 15.0

Protected

60 dBu

W228BLNew

Channel = 228D

Max ERP = 0.12 kW

RCAMSL = 466 M

N. Lat. 42 56 52.9

W. Lng. 73 10 33.9

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
121.0	000.0100	0173.2	007.6	011.8	000.1200	0166.6	033.8	45.64	
122.0	000.0100	0183.1	007.9	012.1	000.1200	0165.5	033.6	45.69	
123.0	000.0100	0192.1	008.0	012.3	000.1200	0164.5	033.4	45.74	
124.0	000.0100	0199.5	008.2	012.5	000.1200	0163.7	033.2	45.79	
125.0	000.0100	0204.0	008.3	012.6	000.1200	0163.4	033.1	45.87	
126.0	000.0100	0206.4	008.4	012.6	000.1200	0163.5	032.9	45.95	
127.0	000.0100	0208.3	008.4	012.5	000.1200	0163.7	032.8	46.04	
128.0	000.0100	0209.4	008.4	012.5	000.1200	0164.0	032.6	46.13	
129.0	000.0100	0208.9	008.4	012.3	000.1200	0164.6	032.5	46.23	
130.0	000.0100	0206.4	008.4	012.1	000.1200	0165.5	032.4	46.33	
131.0	000.0100	0202.6	008.3	011.9	000.1200	0166.5	032.3	46.43	
132.0	000.0100	0198.2	008.2	011.6	000.1200	0167.6	032.2	46.53	
133.0	000.0100	0192.3	008.1	011.3	000.1200	0168.9	032.2	46.63	
134.0	000.0100	0185.0	007.9	010.9	000.1200	0170.3	032.1	46.72	
135.0	000.0100	0176.9	007.7	010.5	000.1200	0171.8	032.1	46.81	
136.0	000.0100	0168.3	007.5	010.1	000.1200	0173.1	032.1	46.87	
137.0	000.0100	0158.9	007.3	009.6	000.1200	0174.0	032.1	46.90	
138.0	000.0100	0148.5	007.1	009.2	000.1200	0175.4	032.2	46.94	
139.0	000.0100	0136.6	006.8	008.6	000.1200	0177.6	032.3	47.00	
140.0	000.0100	0122.6	006.5	008.1	000.1200	0180.7	032.4	47.08	
141.0	000.0100	0106.0	006.0	007.4	000.1200	0183.5	032.6	47.09	
142.0	000.0100	0087.1	005.4	006.5	000.1200	0186.0	033.0	47.02	
143.0	000.0100	0067.0	004.8	005.6	000.1200	0187.0	033.4	46.84	
144.0	000.0100	0046.4	003.9	004.6	000.1200	0187.1	033.9	46.55	
145.0	000.0100	0026.1	003.2	003.7	000.1200	0184.5	034.5	46.14	
146.0	000.0100	0005.0	003.2	003.6	000.1200	0184.2	034.5	46.14	
147.0	000.0100	-0017.8	003.2	003.5	000.1200	0183.9	034.5	46.15	
148.0	000.0100	-0042.6	003.2	003.5	000.1200	0183.6	034.4	46.15	
149.0	000.0100	-0068.8	003.2	003.4	000.1200	0183.3	034.4	46.15	
150.0	000.0100	-0094.3	003.2	003.3	000.1200	0182.9	034.4	46.15	
151.0	000.0100	-0116.6	003.2	003.2	000.1200	0182.6	034.3	46.15	
152.0	000.0100	-0135.6	003.2	003.2	000.1200	0182.1	034.3	46.15	
153.0	000.0100	-0150.6	003.2	003.1	000.1200	0181.6	034.3	46.14	
154.0	000.0100	-0162.2	003.2	003.0	000.1200	0181.1	034.2	46.13	
155.0	000.0100	-0170.1	003.2	002.9	000.1200	0180.5	034.2	46.12	



Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
156.0	000.0100	-0174.6	003.2	002.9	000.1200	0179.9	034.2	46.10
157.0	000.0100	-0176.8	003.2	002.8	000.1200	0179.4	034.2	46.09
158.0	000.0100	-0177.1	003.2	002.7	000.1200	0178.9	034.1	46.08
159.0	000.0100	-0176.3	003.2	002.6	000.1200	0178.4	034.1	46.07
160.0	000.0100	-0173.2	003.2	002.5	000.1200	0177.9	034.1	46.06
161.0	000.0100	-0164.5	003.2	002.4	000.1200	0177.4	034.1	46.04
162.0	000.0100	-0150.6	003.2	002.3	000.1200	0177.0	034.1	46.03
163.0	000.0100	-0139.7	003.2	002.3	000.1200	0176.5	034.0	46.02
164.0	000.0100	-0136.9	003.2	002.2	000.1200	0176.0	034.0	46.00
165.0	000.0100	-0134.7	003.2	002.1	000.1200	0175.5	034.0	45.99
166.0	000.0100	-0124.2	003.2	002.0	000.1200	0175.0	034.0	45.97
167.0	000.0100	-0109.3	003.2	001.9	000.1200	0174.5	034.0	45.96
168.0	000.0100	-0099.1	003.2	001.8	000.1200	0174.0	034.0	45.94
169.0	000.0100	-0090.6	003.2	001.7	000.1200	0173.5	034.0	45.92
170.0	000.0100	-0083.0	003.2	001.6	000.1200	0173.0	033.9	45.90
171.0	000.0100	-0079.7	003.2	001.5	000.1200	0172.5	033.9	45.88
172.0	000.0100	-0076.3	003.2	001.5	000.1200	0172.0	033.9	45.86
173.0	000.0100	-0067.7	003.2	001.4	000.1200	0171.5	033.9	45.84
174.0	000.0100	-0062.0	003.2	001.3	000.1200	0171.0	033.9	45.82
175.0	000.0100	-0057.3	003.2	001.2	000.1200	0170.5	033.9	45.80
176.0	000.0100	-0052.7	003.2	001.1	000.1200	0170.0	033.9	45.78
177.0	000.0100	-0043.3	003.2	001.0	000.1200	0169.5	033.9	45.75
178.0	000.0100	-0031.9	003.2	000.9	000.1200	0168.9	033.9	45.73
179.0	000.0100	-0012.3	003.2	000.8	000.1200	0168.3	033.9	45.70
180.0	000.0100	0007.2	003.2	000.7	000.1200	0167.8	033.9	45.67
181.0	000.0100	0026.6	003.2	000.6	000.1200	0167.1	033.9	45.63
182.0	000.0100	0040.3	003.7	000.5	000.1200	0166.3	033.4	45.85
183.0	000.0100	0050.5	004.1	000.4	000.1200	0165.2	032.9	46.05
184.0	000.0100	0057.6	004.4	000.2	000.1200	0163.9	032.6	46.13
185.0	000.0100	0064.6	004.7	000.0	000.1200	0162.7	032.4	46.19
186.0	000.0100	0065.0	004.7	359.9	000.1200	0161.7	032.4	46.13
187.0	000.0100	0062.5	004.6	359.8	000.1200	0160.8	032.5	46.04
188.0	000.0100	0058.7	004.5	359.7	000.1200	0160.1	032.6	45.92
189.0	000.0100	0051.7	004.2	359.6	000.1200	0159.7	032.9	45.75
190.0	000.0100	0038.8	003.6	359.7	000.1200	0160.1	033.5	45.45
191.0	000.0100	0030.2	003.2	359.7	000.1200	0160.4	033.9	45.25
192.0	000.0100	0022.1	003.2	359.6	000.1200	0159.8	033.9	45.20
193.0	000.0100	0016.0	003.2	359.5	000.1200	0159.1	034.0	45.16
194.0	000.0100	0018.7	003.2	359.4	000.1200	0158.5	034.0	45.12
195.0	000.0100	0028.2	003.2	359.4	000.1200	0157.9	034.0	45.08
196.0	000.0100	0037.4	003.5	359.1	000.1200	0156.1	033.7	45.14
197.0	000.0100	0043.9	003.8	358.8	000.1200	0154.2	033.4	45.19
198.0	000.0100	0046.6	004.0	358.6	000.1200	0153.0	033.3	45.17
199.0	000.0100	0047.4	004.0	358.5	000.1200	0152.1	033.3	45.12
200.0	000.0100	0047.0	004.0	358.4	000.1200	0151.4	033.3	45.06
201.0	000.0100	0046.9	004.0	358.3	000.1200	0150.7	033.3	45.00
202.0	000.0100	0049.5	004.1	358.1	000.1200	0149.3	033.3	44.96
203.0	000.0100	0053.8	004.3	357.9	000.1200	0147.6	033.1	44.93
204.0	000.0100	0055.1	004.3	357.7	000.1200	0146.4	033.1	44.87
205.0	000.0100	0054.2	004.3	357.6	000.1200	0145.8	033.2	44.80
206.0	000.0100	0054.5	004.3	357.5	000.1200	0145.1	033.2	44.75

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
207.0	000.0100	0056.8	004.4	357.3	000.1200	0144.2	033.1	44.71
208.0	000.0100	0059.8	004.5	357.1	000.1200	0143.1	033.1	44.67
209.0	000.0100	0062.7	004.6	356.9	000.1200	0141.8	033.0	44.61
210.0	000.0100	0063.7	004.7	356.7	000.1200	0140.6	033.1	44.54
211.0	000.0100	0064.2	004.7	356.6	000.1200	0139.4	033.1	44.45
212.0	000.0100	0067.7	004.8	356.4	000.1200	0137.1	033.0	44.33
213.0	000.0100	0077.3	005.1	355.9	000.1200	0131.8	032.8	44.11
214.0	000.0100	0094.1	005.7	355.2	000.1200	0122.7	032.4	43.71
215.0	000.0100	0116.5	006.3	354.3	000.1200	0112.3	032.0	43.20
216.0	000.0100	0140.3	006.9	353.5	000.1200	0108.2	031.7	43.04
217.0	000.0100	0161.5	007.4	352.7	000.1200	0103.9	031.4	42.82
218.0	000.0100	0179.4	007.8	352.0	000.1200	0097.2	031.2	42.31
219.0	000.0100	0193.2	008.1	351.4	000.1200	0091.1	031.1	41.76
220.0	000.0100	0205.3	008.3	350.9	000.1200	0085.6	031.0	41.23
221.0	000.0100	0216.8	008.6	350.4	000.1200	0079.5	031.0	40.58
222.0	000.0100	0226.7	008.8	349.9	000.1200	0072.5	031.0	39.78
223.0	000.0100	0235.0	009.0	349.5	000.1200	0065.1	031.0	38.87
224.0	000.0100	0242.3	009.1	349.1	000.1200	0057.3	031.0	37.82
225.0	000.0100	0249.9	009.2	348.7	000.1200	0048.5	031.1	36.38
226.0	000.0100	0257.7	009.4	348.4	000.1200	0039.2	031.2	34.53
227.0	000.0100	0265.1	009.5	348.0	000.1200	0030.1	031.2	32.50
228.0	000.0100	0271.5	009.6	347.6	000.1200	0022.8	031.3	32.44
229.0	000.0100	0275.8	009.7	347.4	000.1200	0017.4	031.4	32.40
230.0	000.0100	0278.5	009.8	347.2	000.1200	0013.4	031.5	32.34
231.0	000.0100	0280.4	009.8	347.0	000.1200	0009.9	031.7	32.28
232.0	000.0100	0281.6	009.8	346.8	000.1200	0007.0	031.8	32.22
233.0	000.0100	0282.1	009.8	346.7	000.1200	0004.4	032.0	32.16
234.0	000.0100	0282.4	009.8	346.5	000.1200	0002.0	032.1	32.10
235.0	000.0100	0282.2	009.8	346.4	000.1200	0000.0	032.3	32.04
236.0	000.0100	0282.3	009.8	346.3	000.1200	-0002.0	032.5	31.98
237.0	000.0100	0282.6	009.8	346.2	000.1200	-0004.1	032.6	31.92
238.0	000.0100	0282.5	009.8	346.1	000.1200	-0005.9	032.8	31.85
239.0	000.0100	0281.4	009.8	346.0	000.1200	-0006.9	032.9	31.79
240.0	000.0100	0279.0	009.8	346.0	000.1200	-0007.2	033.1	31.72
241.0	000.0100	0276.2	009.7	346.0	000.1200	-0007.1	033.3	31.66