

Vermont Public Radio
Woodstock 295

REFERENCE CH# 295D - 106.9 MHz, Pwr= 0.1 kW, HAAT=15.7 M, COR= 226 M DISPLAY DATES
43 38 25 N Average Protected F(50-50)= 5.64 km DATA 08-05-03
72 29 31 W Ave. F(50-10) 40 dBu= 18.6 54 dBu= 8.0 80 dBu= 1.8 100 dBu= .7 SEARCH 08-05-03

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
295D Woodstock	AP295	APP VT C	261.1 81.1	1.20 BNPFT20030317HJF	43 38 19 72 30 24	0.200 20	227 18.6	6.7 Vermont Public Radio	-26.86*<	-24.08*<
295D Manchester	970807	APP VT CN	224.2 44.2	62.48 BPFT19970807TJ	43 14 11 73 01 44	0.010 -84	651 18.6	3.2 Vermont Public Radio	46.68	40.75
294D Hanover	W294AB	LIC NH C	84.2 264.2	15.99 BLFT19991220ACS	43 39 17 72 17 41	0.014 130	365 8.0	7.2 Great Northern Radio,	0.21	0.81
242D Quechee	W242AG	LIC VT C	81.7 261.7	10.85 BLFT19990111TF	43 39 15 72 21 32	0.004 152	390 5.6	5.7 Christian Ministries, Inc.	3.2R	7.7M
298D Sharon	AP298	APP VT C	26.7 206.7	16.70 BNPFT20030317HGC	43 46 28 72 23 55	0.007 161	480 0.7	6.7 Vermont Public Radio	10.88	9.28
295A Moultonborough	WSCY	LIC NH NCN	81.0 261.0	95.99 BLH19961129KA	43 46 09 71 18 52	0.130 632	900 18.6	28.1 Northeast Communications C	5.17	49.27
296A Bellows Falls	WZSH	LIC VT CN	164.9 344.9	49.60 BMLH19920522KC	43 12 33 72 19 58	1.150 232	475 8.0	28.5 Great Northern Radio,	0.81	13.12
296A Bellows Falls	WZSH.C«	CP VT NCX	164.9 344.9	49.60 BPH20000308ACO	43 12 33 72 19 58	1.400 232	475 8.0	29.8 Great Northern Radio,	-1.17<	11.78
298A West Rutland	DWRUT	CP VT CN	259.2 79.2	42.46 BPH19891229JP	43 34 04 73 00 30	3.000 -163	454 0.7	13.2 Wrut Inc.	35.21	28.54
296A Barre	WORK	LIC VT CN	1.0 181.0	57.57 BMLH19881223KB	44 09 30 72 28 46	1.500 50	549 8.0	14.3 Vox Vermont, L.I.c	30.52	35.25
296A Barre	WORK.C	CP VT NCX	1.0 181.0	57.57 BPH20000308ACW	44 09 30 72 28 46	3.900 50	549 8.0	18.5 Vox Vermont, L.I.c	24.77	31.06
298D Claremont	W298AH	LIC NH DCN	151.2 331.2	31.40 BLFT19980911TC	43 23 34 72 18 16	0.000 359	565 0.7	0.0 Great Northern Radio,	25.76	30.70
294D Claremont	AP294	APP NH C	152.8 332.8	39.49 BNPFT20030317IXK	43 19 27 72 16 08	0.010 388	634 8.0	11.4 Radio Assist Ministry Inc.	17.31	20.09
294C2 Vergennes	WIZN.C	CP VT CX	329.0 149.0	94.89 BPH20020402AAJ	44 22 12 73 06 24	20.000 36	401 8.0	23.2 Burlington Broadcasters, I	53.02	63.74
294C2 Vergennes	WIZN	LIC VT CN	321.4 141.4	95.84 BLH19870424KA	44 18 40 73 14 34	50.000 36	204 8.0	28.7 Burlington Broadcasters, I	40.12	59.12
242A Walpole	WCFRFM	LIC NH NC	175.1 355.1	56.09 BLH20001219AAS	43 08 14 72 25 59	0.320 224	366 5.6	20.8 Vox Vermont, Lic	10.0R	46.1M
293D Newbury	AP293	APP VT C	31.3 211.3	53.89 BNPFT20030317HGS	44 03 13 72 08 29	0.010 116	430 0.7	6.3 Vermont Public Radio	48.03	46.89

***Affixed to 'IN' or 'Out' values = site inside protected contour.
ERP and HAAT are on direct line to and from reference station.
"«" = Station meets FCC minimum distance spacing for its class. "<" = Contour Overlap

HOW TO READ THE FM COMPUTER PRINT-OUT

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, while the 40, 54, 80 and 100 dBu contours are interference contours derived from the Commission's F(50-10) table. Contour distances are in kilometers and are predicted using spline interpolation from data points identical to those published in Report No. RS 76-01 by Gary C. Kalagian. Critical contour distances are determined 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 sum of the reference station's 60 dBu protected contour and the data file station's interference contour subtracted from the distance between the stations. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, the column is a measure of incoming interference. Negative distances in this column indicate the presence of interference. Listed antenna heights are the average heights of eight standard radials as found in the Commission's records unless otherwise noted, in which case the specific antenna heights and the DA power, if applicable, along the straight line azimuths between the reference station and the database station are used and visa versa. The column labeled "*** OUT ***" shows the distance in kilometers of overlap or clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing overlap interference.

Under the "AZIMUTH" column, the first row of numbers indicate the bearings from True North of the data base stations in relationship with the reference station, while the numbers in the second row indicate the reverse bearings from the database station to the reference station.

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

For I.F. relationships 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 omni. 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".

Woodstock v. W294AB

AP295

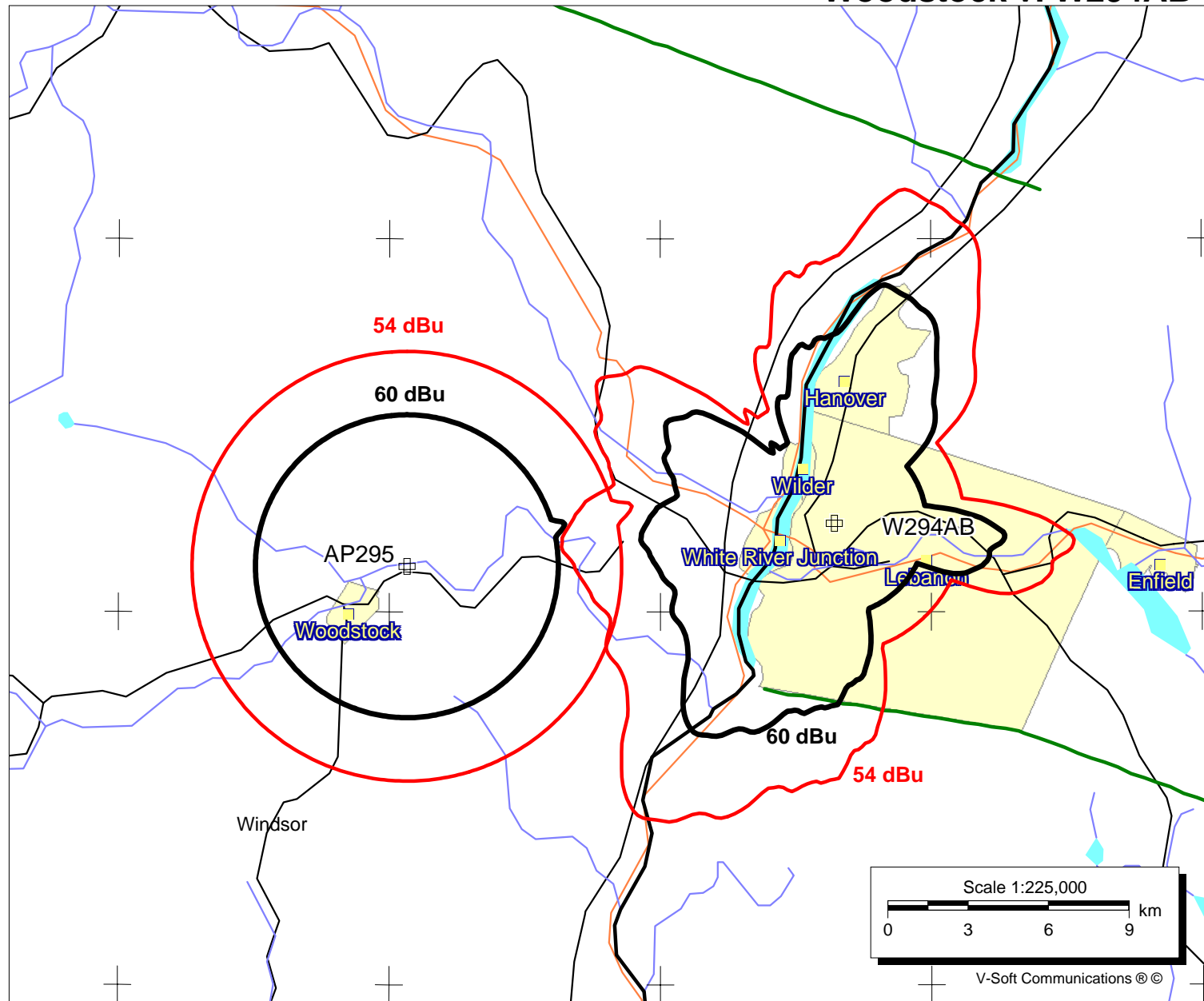
BNPFT20030317HJF
Latitude: 43-38-25 N
Longitude: 072-29-31 W
ERP: 0.10 kW
Channel: 295
Frequency: 106.9 MHz
AMSL Height: 226.0 m
Elevation: 211.0 m
Horiz. Pattern: Omni
Vert. Pattern: No

W294AB

BLFT19991220ACS
Latitude: 43-39-17 N
Longitude: 072-17-41 W
ERP: 0.014 kW
Channel: 294
Frequency: 106.7 MHz
AMSL Height: 365.0 m
Elevation: 326.0 m
Horiz. Pattern: Omni
Vert. Pattern: No

August 5, 2003

V Doug Vernier
721 West 1st Street, Suite A
Cedar Falls, Iowa 50613
Telecommunications Consultants



AP295
Channel = 295D
Max ERP = 0.1 kW
RCAMSL = 226 M
N. Lat = 433825
W. Lng = 722931

W294AB BLFT19991220ACS
Channel = 294D
Max ERP = 0.014 kW
RCAMSL = 365 M
N. Lat = 43 39 17
W. Lng = 72 17 41

Protected
60 dBu

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
067.0	000.1000	0004.6	005.6	273.2	000.0140	0113.4	010.7	51.8
068.0	000.1000	0008.0	005.6	272.8	000.0140	0113.4	010.7	51.9
069.0	000.1000	0011.8	005.6	272.3	000.0140	0116.8	010.7	52.2
070.0	000.1000	0016.9	005.6	271.8	000.0140	0116.8	010.6	52.3
071.0	000.1000	0022.5	005.6	271.3	000.0140	0118.8	010.6	52.5
072.0	000.1000	0027.9	005.6	270.8	000.0140	0118.8	010.6	52.5
073.0	000.1000	0031.9	005.8	270.5	000.0140	0118.8	010.4	52.8
074.0	000.1000	0034.7	006.0	270.3	000.0140	0121.6	010.1	53.4
075.0	000.1000	0035.4	006.1	269.9	000.0140	0121.6	010.0	53.6
076.0	000.1000	0034.5	006.0	269.2	000.0140	0124.4	010.1	53.7
077.0	000.1000	0033.0	005.9	268.4	000.0140	0127.5	010.2	53.7
078.0	000.1000	0031.2	005.7	267.7	000.0140	0127.5	010.3	53.5
079.0	000.1000	0030.0	005.6	267.1	000.0140	0130.1	010.4	53.6
080.0	000.1000	0028.5	005.6	266.6	000.0140	0130.1	010.4	53.6
081.0	000.1000	0024.9	005.6	266.0	000.0140	0130.6	010.4	53.6
082.0	000.1000	0018.6	005.6	265.5	000.0140	0131.7	010.4	53.7
083.0	000.1000	0012.7	005.6	264.9	000.0140	0131.7	010.4	53.7
084.0	000.1000	0008.8	005.6	264.4	000.0140	0130.2	010.4	53.6
085.0	000.1000	0008.0	005.6	263.8	000.0140	0130.2	010.4	53.6
086.0	000.1000	0009.5	005.6	263.3	000.0140	0126.8	010.4	53.4
087.0	000.1000	0011.8	005.6	262.8	000.0140	0126.8	010.4	53.4
088.0	000.1000	0014.0	005.6	262.2	000.0140	0123.6	010.4	53.1
089.0	000.1000	0016.2	005.6	261.7	000.0140	0123.6	010.4	53.1
090.0	000.1000	0015.7	005.6	261.1	000.0140	0121.6	010.4	53.0
091.0	000.1000	0014.7	005.6	260.6	000.0140	0121.6	010.4	52.9
092.0	000.1000	0013.6	005.6	260.1	000.0140	0121.0	010.4	52.9
093.0	000.1000	0012.2	005.6	259.5	000.0140	0121.0	010.5	52.8
094.0	000.1000	0009.6	005.6	259.0	000.0140	0119.2	010.5	52.7
095.0	000.1000	0008.1	005.6	258.5	000.0140	0117.7	010.5	52.5
096.0	000.1000	0007.4	005.6	258.0	000.0140	0117.7	010.5	52.5
097.0	000.1000	0007.1	005.6	257.5	000.0140	0115.7	010.6	52.3
098.0	000.1000	0005.1	005.6	257.0	000.0140	0115.7	010.6	52.2
099.0	000.1000	0003.4	005.6	256.5	000.0140	0114.4	010.6	52.0
100.0	000.1000	0001.8	005.6	256.0	000.0140	0114.4	010.7	52.0
101.0	000.1000	0002.9	005.6	255.5	000.0140	0114.4	010.7	51.9

W294AB BLFT19991220ACS
Channel = 294D
Max ERP = 0.014 kW
RCAMSL = 365 M
N. Lat = 43 39 17
W. Lng = 72 17 41

AP295
Channel = 295D
Max ERP = 0.1 kW
RCAMSL = 226 M
N. Lat = 433825
W. Lng = 722931

Protected
60 dBu

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
247.0	000.0140	0103.0	006.4	095.2	000.1000	0008.1	010.0	50.2
248.0	000.0140	0103.2	006.5	094.7	000.1000	0008.1	010.0	50.3
249.0	000.0140	0104.7	006.5	094.2	000.1000	0009.6	009.9	50.5
250.0	000.0140	0106.9	006.6	093.7	000.1000	0009.6	009.8	50.7
251.0	000.0140	0108.9	006.6	093.3	000.1000	0012.2	009.7	50.9
252.0	000.0140	0110.6	006.7	092.7	000.1000	0012.2	009.6	51.0
253.0	000.0140	0111.6	006.7	092.1	000.1000	0013.6	009.5	51.2
254.0	000.0140	0112.0	006.7	091.5	000.1000	0014.7	009.5	51.2
255.0	000.0140	0113.0	006.7	090.8	000.1000	0014.7	009.4	51.4
256.0	000.0140	0114.4	006.8	090.2	000.1000	0015.7	009.3	51.5
257.0	000.0140	0115.7	006.8	089.5	000.1000	0015.7	009.3	51.6
258.0	000.0140	0117.7	006.9	088.9	000.1000	0016.2	009.2	51.7
259.0	000.0140	0119.2	006.9	088.2	000.1000	0014.0	009.1	51.8
260.0	000.0140	0121.0	007.0	087.4	000.1000	0011.8	009.1	51.9
261.0	000.0140	0121.6	007.0	086.7	000.1000	0011.8	009.0	52.0
262.0	000.0140	0123.6	007.0	085.9	000.1000	0009.5	009.0	52.1
263.0	000.0140	0126.8	007.1	085.2	000.1000	0008.0	008.9	52.3
264.0	000.0140	0130.2	007.2	084.4	000.1000	0008.8	008.8	52.4
265.0	000.0140	0131.7	007.2	083.6	000.1000	0008.8	008.8	52.5
266.0	000.0140	0130.6	007.2	082.7	000.1000	0012.7	008.8	52.4
267.0	000.0140	0130.1	007.2	081.9	000.1000	0018.6	008.8	52.4
268.0	000.0140	0127.5	007.1	081.2	000.1000	0024.9	008.9	52.3
269.0	000.0140	0124.4	007.0	080.4	000.1000	0028.5	009.0	52.1
270.0	000.0140	0121.6	007.0	079.7	000.1000	0028.5	009.1	51.9
271.0	000.0140	0118.8	006.9	079.1	000.1000	0030.0	009.2	51.8
272.0	000.0140	0116.8	006.9	078.4	000.1000	0031.2	009.3	51.9
273.0	000.0140	0113.4	006.8	077.9	000.1000	0031.2	009.4	51.7
274.0	000.0140	0110.5	006.7	077.3	000.1000	0033.0	009.5	51.9
275.0	000.0140	0108.4	006.6	076.7	000.1000	0033.0	009.6	51.8
276.0	000.0140	0103.5	006.5	076.4	000.1000	0034.5	009.8	51.8
277.0	000.0140	0098.9	006.3	076.1	000.1000	0034.5	009.9	51.5
278.0	000.0140	0094.3	006.2	075.8	000.1000	0034.5	010.1	51.2
279.0	000.0140	0090.0	006.0	075.6	000.1000	0034.5	010.3	50.9
280.0	000.0140	0087.6	005.9	075.3	000.1000	0035.4	010.4	50.9
281.0	000.0140	0088.8	006.0	074.6	000.1000	0035.4	010.4	50.9