

Vermont Public Radio  
Manchester 295

REFERENCE CH# 295D - 106.9 MHz, Pwr= 0.01 kW, HAAT=286.7 M, COR= 586 M DISPLAY DATES  
43 14 11 N Average Protected F(50-50)= 9.91 km DATA 08-12-03  
73 01 38 W Ave. F(50-10) 40 dBu= 32.9 54 dBu= 13.9 80 dBu= 2.0 100 dBu= .2 SEARCH 08-13-03

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* (Overlap in km)
295D Manchester	970807	APP VT	CN 270.0 90.0	0.14 BPFT19970807TJ	43 14 11 73 01 44	0.010 97	651 22.6	5.7 Vermont Public Radio	-25.46*<	-28.23*<
295D Woodstock	AP295	APP VT	C 43.0 223.0	61.43 BNPFT20030317HJF	43 38 19 72 30 24	0.200 -180	227 10.2	6.7 Vermont Public Radio	35.86	44.56
298A West Rutland	DWRUT	CP VT	CN 2.4 182.4	36.85 BPH19891229JP	43 34 04 73 00 30	3.000 67	454 0.2	19.9 Wrut Inc.	31.73	16.70
295L1 Wilmington	AP295	APP VT		162.8 342.8	42 52 30 72 52 30	0.000 -727	0 10.2	0.0 Green Mountain Broadcastin	38.87	31.86
296A Bellows Falls	WZSH.C	CP VT	NCX 92.8 272.8	56.50 BPH20000308ACO	43 12 33 72 19 58	1.400 227	475 4.4	29.5 Great Northern Radio, L.I.	8.71	22.56
296A Bellows Falls	WZSH	LIC VT	CN 92.8 272.8	56.50 BMLH19920522KC	43 12 33 72 19 58	1.150 227	475 4.4	28.2 Great Northern Radio, L.I.	10.68	23.88
296A Corinth	ALLO	RSV NY		271.1 91.1	43 14 40 73 46 18	6.000 -101	0 9.2	15.8	30.47	35.53
296A Corinth	WFFGFM«	LIC NY	CX 271.1 91.1	60.47 BLH20020429ACO	43 14 40 73 46 18	2.850 254	355 9.2	36.7 Vox New York, L.I.c.	-0.79<	14.61
294L1 Wilmington	AP294	APP VT		156.6 336.6	42 51 15 72 48 08	0.000 -602	0 4.4	0.0 Vermont Agency Of Transpor	43.10	41.82
294L1 Halifax	AP294	APP VT		159.5 339.5	42 43 55 72 46 15	0.000 -510	0 4.4	0.0 Christian Hill Educational	56.66	55.38
294D Claremont	AP294	APP NH	C 80.7 260.7	62.32 BNPFT20030317IXK	43 19 27 72 16 08	0.010 406	634 5.4	11.6 Radio Assist Ministry Inc.	41.42	45.29
295B Hartford	WCCCFM	LIC CT	C 173.2 353.2	161.04 BLH20010911AAC	41 47 48 72 47 52	23.000 220	310 14.8	64.8 Marlin Broadcasting, LIC	28.66	81.45
293B Albany	WPYX	LIC NY	CN 230.2 50.2	103.80 BLH19870128KA	42 38 09 74 00 05	15.500 419	515 0.4	76.1 Capstar Tx Limited Partner	93.68	27.26
298D Claremont	W298AH	LIC NH	DCN 73.2 253.2	61.16 BLFT19980911TC	43 23 34 72 18 16	0.000 362	565 0.2	0.0 Great Northern Radio, L.I.	57.48	60.94
294C2 Vergennes	WIZN	LIC VT	CN 351.8 171.8	120.66 BLH19870424KA	44 18 40 73 14 34	50.000 133	204 4.4	49.8 Burlington Broadcasters, I	42.05	66.40
298D Keene	AP298	APP NH	C 118.7 298.7	66.75 BNPFT20030317AIO	42 56 47 72 18 33	0.210 -3	206 0.2	6.8 Saga Communications Of New	60.51	59.74
293D Keene	W293AB	LIC NH	DCN 121.9 301.9	67.03 BLFT19920715TA	42 54 57 72 19 48	0.003 217	424 0.2	6.2 Great Northern Radio, L.I.	61.46	60.64

\*\*\*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".