

Brattleboro, VT
 Vermont Public Radio

REFERENCE CH# 233D - 94.5 MHz, Pwr= 0.01 kW, HAAT=32.6 M, COR= 304 M DISPLAY DATES
 42 49 44 N Average Protected F(50-50)= 3.28 km DATA 07-23-03
 72 35 52 W Ave. F(50-10) 40 dBu= 10.5 54 dBu= 4.6 80 dBu= 1.6 100 dBu= .2 SEARCH 07-24-03

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*
233D Brattleboro	AP233	APP VT	260.3 80.3	0.18 BNPFT20030317HKW	42 49 43 72 36 00	0.010 119	347 10.2	6.4 Vermont Public Radio	-24.17*<	-16.36*<
230A Turners Falls	WRSI	LIC MA	179.3 359.3	32.80 BLH19951018KB	42 32 01 72 35 34	2.500 159	284 0.2	28.5 Great Northern Radio,	27.05	4.12
233A Rutland	WJEN	LIC VT	338.5 158.5	93.86 BLH19890504KA	43 36 49 73 01 33	3.000 34	261 10.2	13.9 Pamal Broadcasting, Ltd.	34.90	69.80
231D Brattleboro	AP231	APP VT	358.4 178.4	16.18 BNPFT20030317HKS	42 58 28 72 36 12	0.010 329	514 0.2	10.6 Vermont Public Radio	10.64	5.38
233B Boston	WJMN.C<	CP MA	116.8 296.8	126.79 BPH20030116ABJ	42 18 27 71 13 27	9.200 336	394 34.6	64.9 Amfm Radio Licenses, L.I.C	-4.64<	27.31
233B Boston	WJMN<	LIC MA	116.8 296.8	126.79 BLH19850408KT	42 18 27 71 13 27	11.500 307	365 34.6	65.0 Amfm Radio Licenses, L.I.C	-4.84<	27.18
232A Bennington	WBTNFM	LIC VT	285.9 105.9	49.10 BLH19780821AA	42 56 52 73 10 36	3.000 -210	475 4.4	13.2 Vermont Public Radio	26.42	31.44
233A Rutland	WJEN.C	CP VT	336.1 156.1	101.03 BPH19970908ID	43 39 31 73 06 25	0.140 324	657 10.2	20.4 Pamal Broadcasting, Ltd.	34.58	70.52
231D Keene	AP231	APP NH	66.0 246.0	23.92 BNPFT20030317BLE	42 54 57 72 19 48	0.010 155	437 0.2	7.2 Educational Media Foundati	18.93	16.49
234B Springfield	WMASF	LIC MA	180.9 0.9	79.99 BLH19801010AD	42 06 32 72 36 44	50.000 79	121 6.3	52.5 Lappin Communications, Inc	11.60	21.11
233A Ravena	WRCZ	LIC NY	254.2 74.2	108.41 BLH19911212KD	42 33 23 73 52 05	3.000 180	237 10.2	31.5 Dot Communications, Inc.	17.25	66.73
232D Athol	970827	APP MA	128.6 308.6	41.64 BPFT19970827TE	42 35 42 72 12 02	0.003 79	339 11.7	3.8 Deane Brothers Broadcastin	27.98	26.18
236A Sunderland	WJAN	LIC VT	311.8 131.8	56.55 BLH19940705KD	43 09 58 73 07 02	0.096 546	1185 0.2	24.3 Pamal Broadcasting, Ltd.	52.71	32.07
234D North Adams	AP234	APP MA	251.9 71.9	44.81 BNPFT20030714AAE	42 42 10 73 07 04	0.050 -363	224 4.4	4.7 Northeast Gospel Broadcast	34.96	35.67
234D North Adams	AP234	APP MA	251.9 71.9	44.81 BNPFT20030312BBS	42 42 10 73 07 04	0.050 -363	224 4.4	4.7 Northeast Gospel Network,	34.96	35.67
234L1 Springfield	AP234	APP VT	10.2 190.2	49.43 BNPL20010615ATV	43 16 00 72 29 21	0.000 -209	0 8.4	0.0 New England Educational Fe	43.41	40.99

 "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".

Brattleboro, VT
Vermont Public Radio

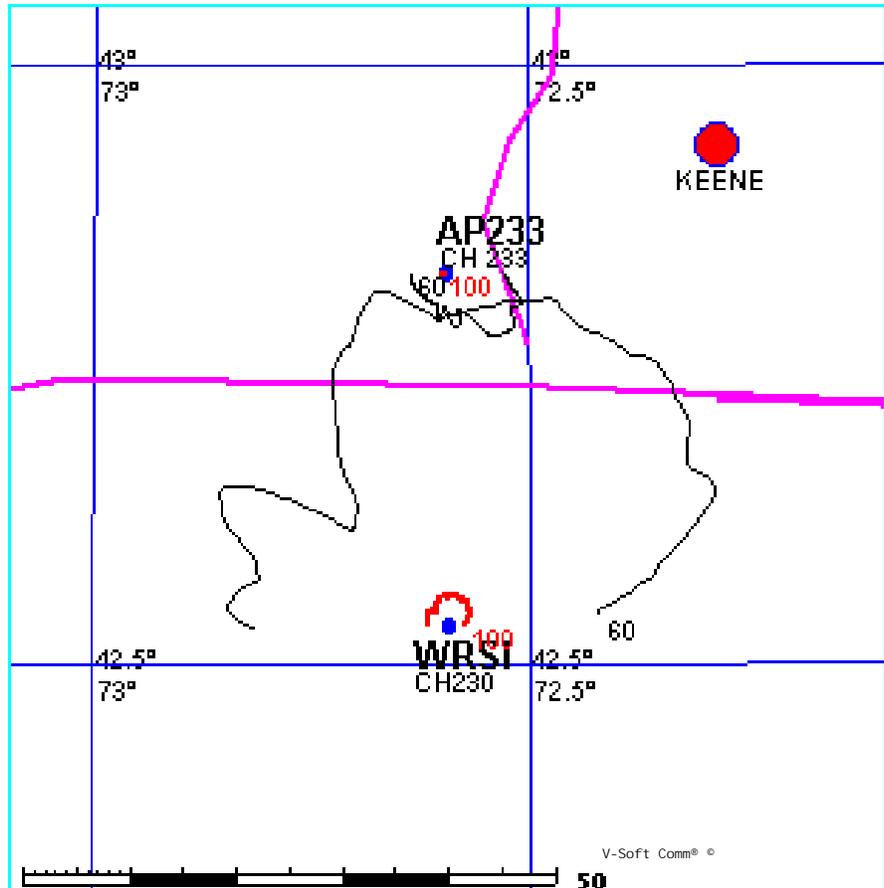
FMCONT Allocation Study

08-01-2003

AP233 CH 233 D
.01 kW 304M COR
Prot. = 60 dBu
Intef. = 100 dBu

WRSI CH 230 A
2.5kW, 284 M COR
Prot. = 60 dBu
Intef. = 100 dBu
File # BLH19951018KB

1: 750, 000



WRSI BLH19951018KB
 Channel = 230A
 Max ERP = 2.5 kW
 RCAMSL = 284 M
 N. Lat = 42 32 01
 W. Lng = 72 35 34

AP233
 Channel = 233D
 Max ERP = 0.01 kW
 RCAMSL = 304 M
 N. Lat = 424944
 W. Lng = 723552

Protected
 60 dBu

Interfering
 100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
342.0	002.5000	0162.5	028.8	237.1	000.0100	-0089.1	010.1	40.2
343.0	002.5000	0171.6	029.5	240.7	000.0100	-0097.4	009.4	41.3
344.0	002.5000	0178.1	030.0	243.3	000.0100	-0097.7	008.8	42.4
345.0	002.5000	0183.8	030.5	245.6	000.0100	-0100.6	008.2	43.6
346.0	002.5000	0190.2	030.9	248.6	000.0100	-0104.2	007.6	44.8
347.0	002.5000	0196.3	031.4	252.0	000.0100	-0109.5	007.0	46.2
348.0	002.5000	0197.9	031.6	252.7	000.0100	-0111.2	006.4	47.7
349.0	002.5000	0195.2	031.4	250.0	000.0100	-0105.6	005.9	49.1
350.0	002.5000	0190.1	030.9	244.8	000.0100	-0099.4	005.5	50.5
351.0	002.5000	0186.3	030.6	240.0	000.0100	-0096.6	005.1	51.8
352.0	002.5000	0182.9	030.4	234.5	000.0100	-0076.1	004.7	53.1
353.0	002.5000	0178.8	030.1	227.6	000.0100	-0039.9	004.4	54.1
354.0	002.5000	0175.3	029.8	220.4	000.0100	-0016.6	004.2	55.0
355.0	002.5000	0171.5	029.5	212.1	000.0100	0032.0	004.1	56.1
356.0	002.5000	0166.6	029.1	203.1	000.0100	0023.4	004.1	55.3
357.0	002.5000	0161.1	028.6	194.5	000.0100	0010.4	004.3	54.3
358.0	002.5000	0157.1	028.3	187.3	000.0100	0066.7	004.5	60.7
359.0	002.5000	0158.9	028.5	181.2	000.0100	0029.8	004.4	54.3
000.0	002.5000	0160.8	028.6	174.4	000.0100	0053.8	004.2	60.3
001.0	002.5000	0161.8	028.7	167.5	000.0100	0085.6	004.2	64.1
002.0	002.5000	0163.8	028.9	160.4	000.0100	0043.7	004.2	58.3
003.0	002.5000	0165.8	029.0	153.3	000.0100	0061.6	004.3	61.1
004.0	002.5000	0168.3	029.2	146.2	000.0100	0136.2	004.4	67.1
005.0	002.5000	0171.3	029.5	139.3	000.0100	0179.5	004.6	68.5
006.0	002.5000	0173.3	029.6	133.6	000.0100	0195.9	004.8	68.2
007.0	002.5000	0174.2	029.7	129.5	000.0100	0201.6	005.2	67.3
008.0	002.5000	0175.4	029.8	125.9	000.0100	0191.1	005.6	65.8
009.0	002.5000	0180.0	030.2	120.5	000.0100	0156.5	005.9	63.4
010.0	002.5000	0184.1	030.5	116.1	000.0100	0162.6	006.3	62.6
011.0	002.5000	0186.4	030.7	113.5	000.0100	0176.4	006.8	62.1
012.0	002.5000	0187.4	030.7	112.0	000.0100	0178.7	007.3	60.9
013.0	002.5000	0188.7	030.8	110.6	000.0100	0177.3	007.8	59.8
014.0	002.5000	0189.9	030.9	109.5	000.0100	0172.3	008.4	58.5
015.0	002.5000	0191.9	031.1	108.2	000.0100	0156.4	008.9	56.5
016.0	002.5000	0195.2	031.4	106.4	000.0100	0140.1	009.4	54.5