

Contour to contour channel study  
Connecticut Public Broadcasting, Inc.  
REFERENCE CH# 249D - 97.7 MHz, Pwr= 0.01 kw, HAAT= 66.1 M, COR= 395.2 M DISPLAY DATES  
41 50 26.0 N. DATA 04-13-13  
73 09 46.0 W. Average Protected F(50-50)= 4.73 km SEARCH 04-13-13  
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)
249D Torrington	639950	APP _C_	CT	90.0 270.0	0.04 BNPFT20030317LBM	41 50 26.0 73 09 44.0	0.010 66	12.2 395	3.9 Connecticut Public Broadca	-26.6*
247A Litchfield	WZBG	LIC _CN	CT	181.2 1.2	4.26 BLH19920813KA	41 48 08.0 73 09 50.0	3.000 100	2.0 411	20.2 Local Girls And Boys Broad	-16.2*
252D Torrington	652114	APP _C_	CT	141.8 321.8	5.54 BNPFT20030317MUH	41 48 05.0 73 07 17.0	0.250 -108	1.1 191	7.1 Nutmeg Conservatory For Th	-1.8*
250A Windsor Locks	WUCS	LIC ZCX	CT	101.4 281.7	41.07 BLH20120123AEO	41 46 00.0 72 40 38.0	3.400 135	38.6 183	24.4 Capstar Tx Llc	6.1
251A Salisbury	WKZE-FM	LIC ZCN	CT	284.5 104.3	35.03 BLH19920911KD	41 55 08.0 73 34 22.0	1.800 184	2.0 437	25.9 Willpower Radio, L.L.c.	8.6
249L1 Great Barrington	WBCR-LP«	LIC _	MA	336.2 156.0	42.72 BLL20041025AAY	42 11 31.0 73 22 21.0	0.100	2.4 100	10.5 Berkshire Community Radio	26.0R 16.7M
250D Naugatuck, Etc.	W250AA	LIC _HN	CT	169.6 349.7	37.92 BLFT19920729TA	41 30 18.0 73 04 50.0	0.055 21	6.9 181	4.8 Danbury Community Radio, I	23.8
252A Danbury	WDAQ	LIC _CX	CT	204.5 24.4	56.96 BMLH20060420ACO	41 22 27.0 73 26 47.0	1.300 140	2.1 301	27.0 The Berkshire Broadcasting	29.6
249A Hyde Park	WCZX	LIC _CN	NY	259.3 78.7	70.36 BLH19870803KB	41 43 11.0 73 59 45.0	0.300 314	74.5 424	25.2 Cumulus Licensing LLC	35.0
248B Patchogue	WALK-FM	LIC DCN	NY	174.4 354.5	111.24 BLH19910524KA	40 50 41.0 73 02 01.0	39.000 169	75.5 192	63.2 Aloha Station Trust, LLC	36.3
252D Meriden	W252AV	CP _C_	CT	137.4 317.7	44.83 BPFT20110815AAJ	41 32 34.7 72 47 54.2	0.250	1.1 60	7.1 Revival Christian Ministri	37.5
252D Meriden	W252AV	LIC _C_	CT	138.3 318.5	44.24 BLFT20040525ACA	41 32 35.0 72 48 32.0	0.120 -24	0.8 62	5.9 Revival Christian Ministri	38.1
246D Bolton	W246CC	LIC _C_	CT	93.8 274.3	59.89 BLFT20110125ABH	41 48 10.0 72 26 30.0	0.100 187	0.7 328	17.4 Red Wolf Broadcasting Corp	42.3
252D Lee	W252BG	LIC _C_	MA	354.9 174.9	50.63 BLFT20070427AAT	42 17 39.0 73 13 03.0	0.013 9	0.3 441	4.0 University Of Massachusett	46.0
251D Hamden	WQAQ	LIC _CX	CT	155.4 335.6	51.42 BLED20080714ABZ	41 25 10.6 72 54 22.6	0.018 -24	0.3 59	3.6 Quinnipiac University	47.6
250D Pittsfield	632945	APP _C_	MA	348.8 168.7	62.67 BNPFT20030312ATU	42 23 36.0 73 18 42.0	0.010 245	14.2 630	10.2 University Of Massachusett	48.0
247D Westfield	637213	APP _C_	MA	58.2 238.6	55.56 BNPFT20030317AHB	42 06 09.0 72 35 25.0	0.100 -13	0.7 51	5.6 Capstar Tx Limited Partner	49.7

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= 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.  
« = Station meets FCC minimum distance spacing for its class.

## 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.