

Doug Vernier, Telecommunications Consultants  
P.O. Box 1033, Cedar Falls, IA 50613

Contour-to-Contour Study Shows No Contour overlap  
Katahdin Communications, Inc.

REFERENCE  
45 37 23.0 N.  
68 30 47.0 W.

CH# 273D - 102.5 MHz, Pwr= 0.25 kW DA, HAAT= 136.2 M, COR= 265 M  
Average Protected F(50-50)= 15.02 km  
Standard Directional

DISPLAY DATES  
DATA 11-09-17  
SEARCH 11-09-17

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
273D Millinocket	1760584	APP DC_ ME		0.0 0.0	0.00 BNPFT20170726ADJ	45 37 23.0 68 30 47.0	0.250	49.9 265	15.0 Katahdin Communications, I	-64.9*	-64.9*
271C2 Dexter	WKVZ	LIC NCX ME		222.1 41.6	86.36 BLED20130312AAT	45 02 40.0 69 15 01.0	27.000 205	5.5 337	50.6 Educational Media Foundati	67.3	34.7
273B Camden	WQSS	LIC _CX ME		196.7 16.3	173.53 BLH20160205AAF	44 07 35.0 69 08 18.0	20.500 235	122.2 274	60.3 Blueberry Broadcasting, L	35.8	46.3
276A Dover-foxcroft	WZLO	LIC ZCX ME		217.3 36.9	73.81 BLH20110517ACT	45 05 37.4 69 05 00.0	1.500 204	2.2 327	27.4 The Zone Corporation	57.5	44.8
273B1 Beauceville	CION1	USE ____ QC		289.8 108.2	183.35	46 09 32.0 70 44 52.0	25.000 100	118.0 382	51.0	50.5	67.4
272C Saint John	CBAF14	OPE _CN NB		94.4 276.0	178.67	45 28 39.0 66 14 02.0	100.000 372	115.6 487	82.7	53.5	61.5
270C2 Presque Isle	WOZI	LIC DCN ME		27.6 208.1	116.21 BLH19990115KA	46 32 51.0 67 48 35.0	7.900 368	5.0 553	54.1 Townsquare Media Presque I	96.8	61.2
275C1 Dennysville	WCRQ	LIC _CX ME		125.0 305.8	114.05 BMLH20121218ABB	45 01 44.0 67 19 25.0	51.000 139	5.6 207	49.5 wqdy, Inc.	95.5	62.3
220B1 Orono	WMEB-FM	LIC _CX ME		188.8 8.7	79.18 BLED20100112ACB	44 55 08.0 68 40 00.0	10.000 52	174.3 93	67.1 University Of Maine System	11.5R	67.7M
275D Bangor	1762232	APP _C_ ME		188.7 8.6	87.24 BNPFT20170731AAC	44 50 50.0 68 40 48.0	0.250	1.1 94	9.9 Port Broadcasting, Llc	70.4	76.1

Terrain database is FCC 30 meter , 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.  
All separation margins (if shown) include rounding.  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
"\*"affixed to 'IN' or 'OUT' values = site inside restricted contour.

## 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. 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.

The column listed "IN " is the difference in kilometers between of the reference station's protected contour and the data file station's interference contour at the closest point between the contours. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, "IN" column is a measure of incoming interference. Negative distances in this column indicate the presence of contour overlap. Listed antenna heights and power are those given in the FCC database. The column labeled "OUT " shows the greatest distance in kilometers of overlap or smallest 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.

Under the "AZI" column, the first row of numbers indicate the True North bearings 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.

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, some channel-six TV relationships and relationships with commercial channel stations providing clearance the minimum spacings values the "IN" and "OUT" columns can 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** (or lack of it) 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 call letters of stations meeting the minimum separation distances under the rules will be flagged by the characters "<<" appended to the right-hand side of the call sign. The "^" character appended to the call sign means the station has been "max-classed" according to the provisions of section 73.525 of the Rules.

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.

Translator relationships with LPTV/Translators are calculated using the 62 dBu protected and the F(50-10) interference contour, as defined in section 74.1205 of the Rules.