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Contour-to-Contour Channel Study - W300BM
 Board Of Regents Of The University Of Wisconsin System

REFERENCE CH# 300D - 107.9 MHz, Pwr= 0.25 kW, HAAT= 43.2 M, COR= 331.1 M DISPLAY DATES
 43 02 30.5 N. Average Protected F(50-50)= 8.53 km DATA 01-23-16
 89 24 33.6 W. Omni-directional SEARCH 01-23-16

CH CITY	CALL	TYPE STATE	ANT AZI <--	DIST FILE #	LAT LNG	PWR (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*OUT* (Overlap in km)
300D Madison	W300BM	LIC_C_ WI_	102.6 282.6	0.07 BLFT20060724ADA	43 02 30.0 89 24 30.6	0.038 45	14.0 331	4.4 Board Of Regents Of The Un	-39.6*
297B Fort Atkinson	WSJY	LIC_CN WI_	132.7 313.0	39.42 BLH19900817KC	42 48 02.0 89 03 16.0	26.000 206	5.8 474	65.0 Nrg License Sub, Llc	-27.1*<<*
299B Milwaukee	WVCY-FM	LIC_DC_ WI_	94.2 275.1	109.00 BMLED20050623AAF	42 57 46.0 88 04 23.0	43.000 161	73.5 403	61.3 Vcy America, Inc.	25.3
300B Aurora	WLEY-FM	LIC_DCN IL	137.9 318.8	164.86 BLH19910827KB	41 56 01.0 88 04 23.0	21.000 232	105.3 455	53.5 Wley Licensing, Inc.	60.2
298A Galena	WDBQ-FM	LIC_CN IL_	228.9 48.2	107.75 BMLH19970117KB	42 24 02.0 90 23 55.0	6.000 100	2.5 346	25.1 Townsquare Media Dubuque L	80.6
299A Polo	WLLT	LIC_NCX IL	187.3 7.1	128.20 BLH20070806ACL	41 53 51.9 89 36 19.6	3.000 145	38.9 371	25.6 Sauk Valley Broadcasting C	92.2
300C Waterloo	KFMW	LIC_C_ IA_	251.1 69.4	211.19 BLH20031113AIR	42 24 02.0 91 50 36.0	100.000 550	192.8 834	88.5 Nrg License Sub, Llc	99.0
247B Milwaukee	WRNW	LIC_CN WI_	85.8 266.8	120.95 BLH19840925DP	43 06 41.0 87 55 38.0	15.500 278	5.5 491	64.7 Capstar Tx, Llc	14.5R 106.5M
297D Wautoma	W297AH	LIC_C_ WI_	7.7 187.8	117.55 BLFT20081105AAA	44 05 22.1 89 12 45.5	0.080 32	0.6 306	6.9 Wrvn, Inc.	109.4

Terrain database is GLOBE 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.
 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)
 Incoming contour overlap is ignored.
 "*"affixed to 'IN' or 'OUT' values = site inside restricted contour.
 Reference station has protected zone issue: AM tower
 <*& Protected using U/D - See satellite exhibit

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.