

1400 INC, Hinkley - WSCD

REFERENCE		CH# 226D - 93.1 MHz, Pwr= 0.027 kW, MAX HAAT=82.9 M, COR= 365 M							DISPLAY DATES	
45 58 36 N		Average Protected F(50-50)= 6.74 km							DATA	08-23-03
92 53 47 W		Ave. F(50-10) 40 dBu= 22.5 54 dBu= 9.6 80 dBu= 2.1 100 dBu= .4							SEARCH	08-24-03
CH	CALL	TYPE	AZI.	DIST	LAT.	Pwr(kW)	COR(M)	PRO(km)	*IN*	*OUT*
CITY		STATE	<--	FILE #	LNG.	HAAT(M)	INT(km)	LICENSEE	(Overlap in km)	
226D	AP226	APP	209.4	9.54	45 54 07	0.250	367	10.7	-32.92	-21.57
Hinkley		MN	29.4	BNPFT20030312APM	92 57 25	68	20.4	1400 Inc.	<	<
229C	KXXR	LIC	189.9	103.60	45 03 30	100.000	593	73.8	86.95	29.46
Minneapolis		MN	9.9	BLH19910814KF	93 07 27	319	0.4	Kqrs, Inc.		
223C	KQRSFM	LIC	189.9	103.60	45 03 30	100.000	593	73.8	86.95	29.46
Golden Valley		MN	9.9	BLH19910814KB	93 07 27	319	0.4	Kqrs, Inc.		
225C1	WSCDFM	LIC	33.2	108.35	46 47 20	70.000	492	68.4	3.22	32.20
Duluth		MN	213.2	BMLED19940823KA	92 07 04	295	7.7	Minnesota Public Radio		
227C1	KBLB	LIC	294.9	125.81	46 26 34	100.000	554	62.8	27.88	56.43
Nisswa		MN	114.9	BLH20020125AAX	94 22 55	189	6.6	Bl Broadcasting, Inc.		
226A	WJBL	LIC	111.8	149.25	45 27 59	4.900	459	29.1	56.03	97.65
Ladysmith		WI	291.8	BLH19941118KD	91 07 23	118	22.5	Flambeau Broadcasting Co.,		

***Affixed to 'IN' or 'Out' values = site inside protected contour.
ERP and HAAT are on direct line to and from reference station. "<" = 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".