

REFERENCE		CH# 242D - 96.3 MHz, Pwr= 0.01 kW, HAAT=1476.3 M, COR= 3350 M		K240BZ		Move to KCYQ Tower		Average Protected F(50-50)= 19.81 km		DISPLAY DATES	
38 32 30 N		Ave. F(50-10) 40 dBu= 74.2 54 dBu= 35.3 80 dBu= 2.2 100 dBu= .2								DATA 06-09-04	
112 03 31 W										SEARCH 06-10-04	
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)	
240D	K240BZ	LIC DVN	245.7	1.35	38 32 12	0.005	3431	10.5	-2.16*<	-9.21*<	
Rural	Garfield, Etc	UT	65.7	BLFT19941109TD	112 04 22	547	0.2	Garfield County			
242D	AP242	APP C	242.5	59.57	38 17 36	0.115	1873	5.8	36.56	26.22	
Beaver		UT	62.5	BNPFT20030317MRX	112 39 48	-194	19.3	Radio Assist Ministry, Inc			
244C	RADD	ADD	16.0	90.11	39 19 17	100.000	2097	70.5	76.93	19.62	
Richfield		UT	196.0		111 46 11	276	9.7	Micro Communications, Inc.			
239C1	KMGR	LIC CN	337.0	76.48	39 10 30	100.000	1494	31.0	70.05	45.48	
Delta		UT	157.0	BLH19891025KB	112 24 20	30	3.2	3 Point Media - Delta, Lic			
244C	RDEL	DEL	30.5	102.75	39 20 12	100.000	2782	31.0	96.91	71.75	
Levan		UT	210.5		111 27 06	-66	3.2	Micro Communications, Inc.			
244C	KCFM	LIC HX	30.5	102.75	39 20 12	67.000	3187	71.2	90.42	31.54	
Levan		UT	210.5	BLH20011105ABA	111 27 06	339	9.6	Micro Communications, Inc.			
244C1	AL244	RSV	11.8	115.44	39 33 32	100.000	2782	91.5	98.15	23.86	
Levan		UT	191.8	RM9789	111 46 55	593	13.6				
242D	AP242	APP C	269.1	107.11	38 31 14	0.010	2938	17.1	39.81	63.13	
Milford		UT	89.1	BNPFT20030314CEV	113 17 12	1021	64.0	Brigham Young University			
244D	K244DC	LIC DHN	203.7	87.21	37 49 19	0.048	2097	8.0	74.36	79.02	
Panguitch		UT	23.7	BLFT19880506TC	112 27 28	88	0.5	Panguitch City			
244D	K244CR	LIC DHN	169.5	88.71	37 45 21	0.017	3208	12.8	76.48	75.67	
Rural	Garfield Coun	UT	349.5	BLFT19880318TG	111 52 27	372	0.3	Garfield County			
243D	AP243	APP C	269.1	107.11	38 31 14	0.010	2938	17.1	75.26	83.66	
Milford		UT	89.1	BNPFT20030314CEY	113 17 12	1021	28.5	Brigham Young University			
241D	AP241	APP C	269.1	107.11	38 31 14	0.010	2938	17.1	75.26	83.66	
Milford		UT	89.1	BNPFT20030314CES	113 17 12	1021	28.5	Brigham Young University			
243D	K243AG	LIC DVN	225.9	111.33	37 50 32	0.007	2059	9.1	90.60	88.32	
Parowan		UT	45.9	BLFT19950324TA	112 58 10	290	12.8	Iron County			

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