

KDUT FM5 Modification of License
Proposed KDUT FM5 Booster Antenna Site

REFERENCE	CH#	272D	-	102.3 MHz,	Pwr= 0.099	kw,	HAAT=-232.8	M,	COR= 1638	M	DISPLAY DATES
40 18 00 N				Average Protected	F(50-50)= 5.62	km					DATA 10-20-04
111 38 38 W				Ave. F(50-10)	40 dBu= 18.5	54 dBu= 8.0	80 dBu= 1.8	100 dBu= .7			SEARCH 10-21-04

CH CITY	CALL	TYPE STATE		AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kw) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
272C Randolph	KDUT [^]	LIC UT	HX	40.6 220.6	83.89 BLH20030729AEW	40 52 16 110 59 43	100.000 671	3283 202.4	94.5 Millcreek Broadcasting, L.	-120.00	-15.50*
272D American Fork	KDUTF4 [^]	LIC UT	DC	318.9 138.9	3.36 BLFTB20010725AFF	40 19 22 111 40 12	0.000 -703	1557 0.0	0.0 Millcreek Broadcasting, L.	-9.47*	-39.30
272D Provo	KDUTF5 [^]	LIC UT	DC	318.9 138.9	3.36 BLFTB20010725AFH	40 19 22 111 40 12	0.000 -703	1557 0.0	0.0 Millcreek Broadcasting, L.	-9.47*	-39.30
270C Ogden	KPQP.C [^]	CP UT	CX	310.5 130.5	61.87 BPH20011210AAL	40 39 34 112 12 05	100.000 444	2263 12.1	83.0 Citadel Broadcasting Compa	35.25	-21.78*
274C Midvale	KQMB [^]	LIC UT	CX	310.5 130.5	61.87 BLH20021113AAL	40 39 34 112 12 05	100.000 444	2263 12.1	83.0 Bonneville Holding Company	35.25	-21.78*
270C Ogden	KPQP [^]	LIC UT	CN	310.5 130.5	61.89 BLH19830912AH	40 39 35 112 12 05	100.000 272	2091 9.7	70.1 Citadel Broadcasting Compa	37.70	-8.92*
272D Salt Lake City	KDUTF2 [^]	LIC UT	DC	339.8 159.8	60.10 BLFTB20030729AEY	40 48 27 111 53 26	0.000 478	1829 0.0	0.0 Millcreek Broadcasting, L	54.85	42.98
272D Tooele	K272DP	LIC UT	VN	310.5 130.5	61.89 BLFT19950601TH	40 39 35 112 12 05	0.010 951	2770 62.0	16.6 Family Stations, Inc.	-14.68	-2.59
272D Bountiful	KDUTF1 [^]	LIC UT	DC	342.4 162.4	62.32 BLFTB20031103ACC	40 50 05 111 52 03	0.000 328	1828 0.0	0.0 Millcreek Broadcasting, L	57.16	45.53
272D Ogden	KDUTF3 [^]	LIC UT	DV	342.2 162.2	101.12 BLFTB20001108ABW	41 09 57 112 00 52	0.000 47	1419 0.0	0.0 Millcreek Broadcasting, L	95.94	84.29
269D Nephi	AP269	APP UT	C	200.8 20.8	68.50 BNPFT20030317CSC	39 43 24 111 55 44	0.030 223	1763 0.4	11.5 Broadcast Towers Inc.	56.50	56.69

ERP and HAAT are on direct line to and from reference station.
 "*"Affixed to 'IN' or 'Out' values = site inside protected contour.
 ^ = Power and antenna height 'Max classed' as per Sec 73.215 protection requirements

Spacings Study Key for Use

The computer printout on the preceding page 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".