

Engineering Statement Regarding Second &/or Third Adjacent Channel Interference

This application proposes an FM translator that will, according to the FCC Rules cause interference to facilities on either or both of the second or third adjacent channels in the area immediately surrounding the proposed FMT site.

It either or both cases, the applicant will demonstrate with map diagrams and/or text descriptions that demonstrate that the interference, while predicted, will not cause actual interference.

The applicant hereby requests a waiver of section 73.1204 of the rules based on paragraph 73.1204(d) of the rules, in that the proposed area of interference is uninhabited and/or unpopulated and thus will there not cause any actual interference.

Further, the applicant hereby requests that the Commission allow the applicant to calculate and demonstrate the area of interference using the well established principles of Undesirable/Desirable signal ratio of 40 dBu, as outlined in section 73.215(2) of the rules.

In making these requests, the applicant submits that by granting them, the Commission would allow additional service that would otherwise not be permitted, and that are in conformity with the Commission's rules. The public interest would thus be served.

Channel Study											
K229AH Minor Change											
REFERENCE		CH# 229D - 93.7 MHz, Pwr= 0.01 kW, HAAT=0.0 M, COR= 2215 M								DISPLAY DATES	
39 04 00 N		Average Protected F(50-50)= 3.15 km								DATA 11-30-04	
108 44 45 W		Ave. F(50-10) 40 dBu= 10.2 54 dBu= 4.4 80 dBu= 1.6 100 dBu= .2								SEARCH 11-30-04	
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*	
226CO	KMGJ	LIC CX	107.8	0.10	39 03 59	100.000	2214	68.2	-22.72*<	-68.31*<	
Grand Junction		CO	287.8	BLH20021115AAD	108 44 41	249	9.2	M.b.c. Grand Broadcasting,			
226CO	ALLO	USE	107.8	0.10	39 03 59	100.000	2239	70.3	-23.18*<	-70.41*<	
Grand Junction		CO	287.8		108 44 41	274	9.7				
229D	K229AH	CP C	90.0	0.10	39 04 00	0.010	2228	9.0	-44.83*<	-63.56*<	
Grand Junction		CO	270.0	BNPFT20030808ADQ	108 44 41	238	30.0	Educational Communications			
226C1	ALLO	USE	114.9	49.68	38 52 40	100.000	2293	93.4	23.02	-43.98*<	
Grand Junction		CO	294.9		108 13 34	643	14.2				
Coordinates updated from LIC record BLH860818KA											
231C	KKXK	LIC CY	129.8	125.72	38 20 16	100.000	3094	99.4	98.82	26.06	
Montrose		CO	309.8	BLH19961009KC	107 38 23	796	16.3	Ccr-montrose Iv, Lic			
231C	ALLO	USE	129.8	125.72	38 20 16	100.000	3142	101.3	98.38	24.25	
Montrose		CO	309.8		107 38 23	844	16.7				
Coordinates updated from LIC record BLH7238											
229D	AP229	APP C	128.0	98.66	38 31 02	0.041	1931	12.8	44.95	49.53	
Montrose		CO	308.0	BNPFT20030317CYP	107 51 12	242	42.9	Radio Assist Ministry, Inc			
229D	AP229	APP DV	129.9	99.30	38 29 26	0.127	1792	9.8	56.07	53.91	
Olath		CO	309.9	BNPFT20030310BJS	107 52 18	79	32.6	Calvary Chapel Of Twin Fal			
232D	AP232	APP DH	52.3	66.94	39 25 57	0.009	2666	15.0	51.28	51.73	
Debeque		CO	232.3	BNPFT20030314CJW	108 07 46	792	0.2	Cimarron Communications Co			
229C1	ALLO	USE	29.7	193.87	40 34 35	100.000	2320	75.1	1.91	61.86	
Craig		CO	209.7		107 36 29	337	176.5				
Coordinates updated from LIC record BLH6997											
229C1	KRAI FM	LIC CN	29.7	193.87	40 34 35	100.000	2315	74.8	2.55	62.23	
Craig		CO	209.7	BLH6997	107 36 29	332	175.8	Wild West Radio, Inc.			
230D	AP230	APP V	58.1	78.83	39 26 17	0.250	1838	12.4	45.01	41.58	
Battlement Mesa		CO	238.1	BNPFT20030314AUV	107 58 03	92	18.3	Professional Antenna, Towe			
229D	AP229	APP C	149.9	136.81	37 59 57	0.010	3384	15.4	72.70	95.57	
Telluride		CO	329.9	BNPFT20030317DAH	107 57 42	770	56.4	Radio Assist Ministry, Inc			

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

Terrain and Contour Study

N. Lat. = 39 04 00 W. Lng. = 108 44 45

HAAT and Distance to Contour - FCC Method - 30 Arc. Sec.

Minor Change to K229AH

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	1471.1	743.9	0.0100	-20.00	1.000	15.19
030	1432.6	782.4	0.0100	-20.00	1.000	15.50
060	1430.8	784.2	0.0100	-20.00	1.000	15.51
090	1498.2	716.9	0.0100	-20.00	1.000	14.95
120	1780.0	435.0	0.0100	-20.00	1.000	11.98
150	2041.1	173.9	0.0100	-20.00	1.000	7.66
180	2153.3	61.7	0.0100	-20.00	1.000	4.58
210	2108.9	106.1	0.0100	-20.00	1.000	6.03
240	2044.2	170.8	0.0100	-20.00	1.000	7.58
270	1987.2	227.8	0.0100	-20.00	1.000	8.81
300	1936.4	278.6	0.0100	-20.00	1.000	9.76
330	1582.0	633.0	0.0100	-20.00	1.000	14.09

Ave El= 1788.82 M HAAT= 426.18 M AMSL= 2215

Exhibit Demonstrating Non-Interference with AP229 vs KMGJ

KMGJ has a signal strength in excess of 150 dBu at the proposed FMT Site.

Using a U/D ratio of 40 dBu, the interference contour of the proposed FMT is in excess of 190 dBu, which extends less than 1 meter from the proposed FMT antenna. The proposed FMT is on a remote hilltop, with no persons living nearby.

Therefore, there is no anticipated interference to any persons listening to KMGJ as the result of the operation of the proposed FMT.