

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											
Proposed 269 Loveland											
REFERENCE	CH#	269D	-	101.7 MHz,	Pwr= 0.01 kW,	HAAT=0.0 M,	COR=	2089 M	DISPLAY DATES		
40 29 36 N				Average Protected F(50-50)= 3.15 km					DATA 07-19-03		
105 10 52 W		Ave. F(50-10)	40	dBu= 10.2	54 dBu= 4.4	80 dBu= 1.6	100	dBu= .2	SEARCH 08-25-03		
CH CITY	CALL	TYPE STATE	AZI. <--	DI ST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)	
269D Loveland	AP269	APP DE CO	0.0 180.0	0.00 BNPFT20030312ADK	40 29 36 105 10 52	0.010 456	2078 16.7	12.2 Educational	-46.95*<	-28.92*<	
266C Denver	KOSI	LIC DC CO	183.1 3.1	84.97 BLH20020118AAJ	39 43 45 105 14 06	38.848 438	2262 0.2	72.5 Entercom Denver	63.85 License,	12.26 L	
266C Denver	ALLO	USE CO	183.1 3.1	84.97 BMLH850717Z1	39 43 45 105 14 06	100.000 -1824	0 0.2	31.0	69.80	53.78	
Coordinates updated from LIC record											
269D Boul der	K269AE	LIC DHN CO	182.7 2.7	59.23 BLFT221	39 57 38 105 12 52	0.103 154	1747 42.2	12.8 Infini ty	4.42	4.22	
TRANSLATOR FOR KVOD, DENVER, CO.											
271C3 Estes Park	KXDC	LIC C CO	234.7 54.7	38.53 BLH19991018ABT	40 17 34 105 33 05	25.000 303	2914 0.0	58.8 High Peak	30.14 Broadcasting,	-20.33*<	
271C3 Estes Park	ALLO	USE CO	234.7 54.7	38.53 RM9263	40 17 34 105 33 05	25.000 -2611	0 0.0	22.7	34.66	15.84	
271C3 Estes Park	KXDC. C	CP CO	231.9 51.9	40.95 BPH20020507AAH	40 15 56 105 33 37	10.000 326	3067 0.0	51.8 High Peak	34.22 Broadcasting,	-10.85*<	
268L1 Fort Collins	AP268	APP CO	39.4 219.4	13.24 BNPL20010122AI W	40 35 07 105 04 54	0.000 -1685	0 5.1	0.0 Public Radio For	10.45 The Front	8.15	
268L1 Fort Collins	AP268	APP CO	39.4 219.4	13.24 BNPL20010122AI V	40 35 07 105 04 54	0.000 -1685	0 5.1	0.0 Friends Of	10.45 Traditional	8.15	
268L1 Ft. Collins	AP268	APP CO	46.9 226.9	15.44 BNPL20010122ACX	40 35 17 105 02 52	0.000 -1650	0 4.2	0.0 Calvary Chapel	13.15 Of The Fron	11.21	
269D Pinecliffe	AP269	APP CO	198.8 18.8	68.92 BNPFT20030317KLP	39 54 21 105 26 32	0.000 245	2610 35.7	0.0 Timothy C.	58.62 Cutforth	33.23	
268C Strasburg	RADD	ADD CO	121.3 301.3	120.67	39 55 27 103 58 25	100.000 -1463	0 1.7	31.0	60.72	88.01	
268C Hudson	RADD	ADD CO	121.3 301.3	120.67	39 55 27 103 58 25	100.000 -1463	0 1.7	31.0	60.72	88.01	
268C Fort Morgan	KBRUFM	APP NCX CO	121.3 301.3	120.90 BPH20020813ABJ	39 55 22 103 58 18	92.000 642	2105 1.7	92.5 On-air	-17.22<	26.67	
270C2 Burns	KIGN	LIC CN WY	31.7 211.7	81.65 BMLH19950920KD	41 07 01 104 40 07	50.000 105	1963 5.7	45.6 Citicasters	7.72 Licenses,	30.29 L.p.	
269C1 Eagle	KTUN. A	APP CO	239.1 59.1	161.44 BPH20020813ABK	39 44 18 106 47 58	11.800 605	3171 3.8	69.7 Salisbury	5.10<	87.97	
268C Fort Morgan	ALLO	RSV CO	121.7 301.7	132.48	39 51 39 103 51 44	100.000 -1504	0 1.8	31.0	72.46	99.68	
268C Fort Morgan	ALLO	RSV CO	121.7 301.7	132.48	39 51 39 103 51 44	100.000 -1504	0 1.8	31.0	72.46	99.68	
270C2 Burns	ALLO	USE WY	40.6 220.6	91.79	41 07 05 104 28 08	50.000 -1751	0 5.0	26.5	43.75	60.30	
269A Fort Morgan	ALLO	USE CO	102.6 282.6	115.85 BLH3983	40 15 31 103 51 07	6.000 -1347	0 2.1	15.8	47.32	97.97	
Coordinates updated from LIC record											
269A Fort Morgan	RDEL	DEL CO	102.6 282.6	115.85	40 15 31 103 51 07	6.000 -1347	0 2.1	15.8	47.32	97.97	
269A Fort Morgan	KBRUFM	LIC CN CO	102.6 282.6	115.85 BLH3983	40 15 31 103 51 07	3.000 39	1386 2.1	14.9 On-air	56.95	98.86	
269A Fort Morgan	RDEL	DEL CO	102.6 282.6	115.85	40 15 31 103 51 07	6.000 -1347	0 2.1	15.8	47.32	97.97	
269D Evergreen	K269CL	LIC DHN CO	185.5 5.5	97.05 BLFT19950811TB	39 37 24 105 17 24	0.000 472	2646 41.4	0.0 Citicasters	85.20 Licenses,	55.62 L.p.	
Translator for KHIH, Denver, CO.											

CH CITY	CALL	TYPE STATE	AZI. <--	DI ST FI LE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LI CENSEE	*IN* (Overl ap	*OUT* i n km)
269C1 Eagle	ALLO	RSV CO	241.3 61.3	168.21	39 45 15 106 54 13	100.000 -3017	0 3.1	31.0	36.90	134.10
269C1 Eagle	RADD	ADD CO	241.3 61.3	168.21	39 45 15 106 54 13	100.000 -3017	0 3.1	31.0	36.90	134.10
269C1 Eagle	RADD	ADD CO	241.3 61.3	168.21	39 45 15 106 54 13	100.000 -3017	0 3.1	31.0	36.90	134.10
271D Boulder	KXDCF1	LI C CO	197.4 17.4	49.00 BMLFTB20020703AB	40 04 20 105 21 12	0.177 439	2437 0.2	24.8 High Peak	37.50 Broadcasting, L.	23.97
270L1 Brighton	AP270	APP CO	151.7 331.7	65.63 BNPL20010122ALP	39 58 22 104 48 57	0.100 20	1541 14.0	5.6 Brighton	48.26 Christian Radio	45.95
270L1 Brighton	AP270	APP CO	151.9 331.9	67.38 BNPL20010118ABZ	39 57 28 104 48 32	0.100 41	1561 14.1	6.5 Al ianza	48.59 Ministerial Vi sion	46.75
268C Eagle	RDEL	DEL CO	239.1 59.1	161.44	39 44 18 106 47 58	100.000 -2566	0 1.6	31.0	101.56	128.86
268C Eagle	ALLO	USE CO	239.1 59.1	161.44	39 44 18 106 47 58	100.000 -2566	0 1.6	31.0	101.56	128.86
Coordinates updated from LIC record				BLH840427D0						
268C Eagle	KTUN	LI C CO	239.1 59.1	161.44 BLH19840427D0	39 44 18 106 47 58	37.000 605	3171 1.6	81.9 Salisbury	39.71 Broadcasting Col	77.89
WAIVER OF MINIMUM POWER GRANTED FOR CLASS C										
268C Eagle	RDEL	DEL CO	239.1 59.1	161.44	39 44 18 106 47 58	100.000 -2566	0 1.6	31.0	101.56	128.86
268C1 Fort Morgan	KBRUFM	APP CO	113.9 293.9	143.04 BPH20011009ABZ	39 57 47 103 38 58	100.000 294	1688 0.8	71.9 Arnold	38.15 Broadcasting Compan	70.34
272C3 Strasburg	KAGM. A	APP CO	148.8 328.8	103.18 BPH20030430ACS	39 41 50 104 33 25	2.592 160	1832 0.1	28.8 Kagm-fm	91.92 Joint Venture	74.25
270D Granby	AP270	APP CO	232.1 52.1	81.62 BNPFT20030313APF	40 02 24 105 56 11	0.027 -127	2530 2.5	4.0 Educational	74.28 Communi cations	75.07
270D Gol den	AP270	APP CO	183.1 3.1	84.95 BNPFT20030314BOM	39 43 46 105 14 08	0.005 419	2244 18.0	9.7 Mary Medi cus	58.89	57.20
272C3 Strasburg	ALLO	RSV CO	144.3 324.3	115.94	39 38 38 104 23 27	25.000 -1708	0 0.1	22.7	106.35	93.17

***Affixed to 'IN' or 'Out' values = site inside protected contour.

ERP and HAAT are on direct line to and from reference station.

"<" = Station meets FCC minimum distance spacing for its class. "<" = Contour Overlap

Terrain and Contour Study

N. Lat. = 40 29 36 W. Lng. = 105 10 52

HAAT and Distance to Contour - FCC Method - 03 Arc. Sec.

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5	40-F1	54-F1	100-F1
000	1735.6	353.4	0.0005	-32.69	0.232	4.14	17.10	6.84	0.05
030	1585.4	503.6	0.0003	-35.97	0.159	3.23	16.85	5.76	0.04
060	1552.0	537.0	0.0000	-45.71	0.052	1.15	8.47	2.20	0.01
090	1533.7	555.3	0.0000	-60.00	0.010	0.22	2.14	0.44	0.00
120	1562.2	526.8	0.0000	-48.45	0.038	0.84	6.67	1.58	0.01
150	1586.0	503.0	0.0037	-24.35	0.606	9.29	34.99	14.00	0.13
180	1621.6	467.4	0.0099	-20.05	0.994	12.27	43.35	18.58	0.22
210	1803.5	285.5	0.0031	-25.06	0.558	7.11	24.56	10.45	0.12
240	1963.2	125.8	0.0000	-51.06	0.028	0.62	3.26	1.24	0.01
270	2144.5	-55.5	0.0000	-60.00	0.010	0.22	1.61	0.44	0.00
300	1917.7	171.3	0.0000	-44.55	0.059	1.31	5.80	2.10	0.01
330	1878.6	210.4	0.0003	-35.65	0.165	2.84	10.89	4.48	0.04

Ave El= 1740.34 M HAAT= 348.66 M AMSL= 2089

EXHIBIT 12b

Demonstration of No Population in 100 dBu Interference Contour

