

TECHNICAL STATEMENT
NEW(FM) TRANSLATOR
FCC FORM 349
VAIL, COLORADO, CH. 262D
MARY MEDICUS
AUGUST 2013

This FCC “Long Form” 349 application is being submitted in response to DA 13-1675 released July 31st, 2013 regarding Non-Mutually exclusive Tech Box proposals, or “Singleton” applications for new Auction 83 FM translator stations. This application is response to an original application filed by Mary Medicus, BNPFT-20030317MUP, facility ID 158522, for a new FM translator for Vail, CO on channel 262D. This application is listed in “Attachment A” of DA 13-1675, report No. AUC-03-83-E.

The applicant does not seek to make any technical changes to the current pending and originally filed “Tech Box” application. The application is not located with any LPFM spectrum protected markets or grids. It is also not located within a 39 kilometer buffer area around any LPFM market grid area. Thus, no LPFM non-preclusion study is required to be filed.

This application proposes service on channel 262D (100.3 Mhz) from an existing registered tower, # 1222134, located at the NAD 27 coordinates of N 39° 36’ 17”, W 106° 21’ 33”. The existing tower has an overall height of 25 meters. The proposed antenna will be a Nicom model BKG77, with vertical and horizontal polarization, mounted at the 15 meters above ground center of radiation, and 3447 meters height above mean sea level. An effective radiated power of 0.001 kilowatts (1 watt).

Figure 1 is a detailed channel interference study conducted at the proposed site. As can be seen, there will not be any outgoing prohibited overlap with any other stations on Co-channel or pertinent adjacent channels.

Since no changes are proposed from the original application, it can be assumed that the current application will 60 dBμ overlap with the original application.

This application will not overlap with any other proposed FM translator applications submitted in “Auction 83”.

It was determined that this form 349 FM translator application will comply with all of the technical requirements under part C.F.R. 74 of the Commission’s rules and regulation.

FIGURE 1 - DETAILED INTERFERENCE STUDY
NEW FM TRANSLATOR, VAIL, CO, CH 262D
Average Protected F(50-50)= 1.82 km
omni-directional

REFERENCE
39 36 17.0 N.
106 21 33.0 W.

CH# 262D - 100.3 MHz, Pwr= 0.001 kw, HAAT= 0.0 M, COR= 3447 M

DISPLAY DATES
DATA 08-24-13
SEARCH 08-26-13

CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
262C Denver	KIMN	LIC DCY CO	85.3 266.0	98.07 BLH19960205KA	39 40 18.0 105 13 12.0	100.000 345	144.4 2379	43.1 Wilks License Company-denv	-47.8	25.0
262D Vail	1556530 *	APP _C_ CO	0.0 0.0	0.00 BNPFT20030317MUP	39 36 17.0 106 21 33.0	0.001	19.7 3447	5.1 Mary Medicus	-24.8	-24.8*
259D Gypsum, Etc.	K259AC	LIC _CN CO	291.8 111.5	40.75 BLFT19950329TB	39 44 23.0 106 48 03.0	0.249 719	1.1 3202	39.9 Community Radio For Northe	33.3	0.8
260D Vail	641718	APP DV_ CO	294.1 114.0	8.19 BNPFT20030314CJZ	39 38 05.0 106 26 47.0	0.100 32	0.7 2958	5.4 Cimarron Communications Co	1.3	2.5
265A Dotsero	NEW	CP NCX CO	277.0 96.6	55.87 BNPH20120529ALR	39 39 50.0 107 00 20.0	1.550 199	2.6 2484	42.8 Jer Licenses, Llc	46.9	12.8
264D Dillon	K264AG	LIC _C_ CO	83.7 263.9	27.01 BLFT20060314AAU	39 37 51.0 106 02 47.0	0.240 -356	1.1 2790	7.0 The Lake Hill Translator G	21.1	19.9
265D Eagle	K265DS	LIC DC_ CO	291.8 111.5	40.75 BLFT20061023ACP	39 44 23.0 106 48 03.0	0.010 722	0.1 3199	4.6 Rod Sanders	34.4	30.8
263A El Jebel	KGHT	LIC NC_ CO	238.2 57.8	60.78 BMLH20100816AAX	39 18 56.0 106 57 32.0	6.000 90	23.5 2682	15.8 Bs&t Wireless, Inc.	31.5	35.6
261D Aspen	1556819	APP DH_ CO	220.2 40.0	59.32 BNPFT20030317IGZ	39 11 48.0 106 48 14.0	0.006	1.3 2661	0.7 Randy M Hudson	52.0	48.5
261D Basalt	K261AK	LIC _C_ CO	246.2 65.8	69.01 BLFT20110419AAB	39 21 10.0 107 05 33.0	0.006 129	11.4 2542	7.3 Pitkin County Translator D	52.1	50.6
264D Granby	K264BO	CP _C_ CO	39.4 219.7	62.65 BNPFT20130328AKT	40 02 20.0 105 53 30.0	0.028	0.4 2795	4.1 Educational Communications	57.7	56.0
260D Aspen	1569042	APP DV_ CO	227.9 47.6	63.86 BNPFT20130815AAC	39 13 08.0 106 54 33.0	0.023	0.1 2656	1.9 Cimarron Communications Co	57.8	57.9
260D Aspen	1557348	APP DV_ CO	227.9 47.6	63.86 BNPFT20030314CKV	39 13 08.0 106 54 33.0	0.023	0.1 2656	1.9 Cimarron Communications Co	57.8	57.9
261D Glenwood Springs	K261AI	LIC _HN CO	267.1 86.5	82.36 BLFT278	39 33 48.0 107 18 59.0	0.008 -221	4.2 2220	3.0 Marc A Adler & Marvin L Sc	71.9	68.6
265D Carbondale	K265CS	LIC DH_ CO	257.3 76.7	89.69 BLFT20050607ADB	39 25 24.0 107 22 32.0	0.015 807	0.1 3247	6.3 Pitkin County Translator D	83.6	74.0
263D Canyon Valley	K263AC	LIC _HN CO	336.5 156.2	104.02 BLFT19941027TA	40 27 44.0 106 51 00.0	0.008 190	14.0 2523	9.8 Don J. Tlapak	84.0	83.0
262D Boulder	KIMN-FM1	LIC DC_ CO	67.7 248.4	105.84 BLFTB20030502AAZ	39 57 37.0 105 12 46.0	0.580	14.6 1762	4.4 Wilks License Company-denv	87.1	86.3
260C Pueblo	KVUU	LIC _CY CO	126.0 307.0	160.75 BLH19990311KF	38 44 44.0 104 51 42.0	79.000 670	6.1 2922	51.7 Capstar Tx Llc	150.5	86.3
264C Pueblo	KGFT	LIC ZCY CO	126.0 307.0	160.83 BMLH20010216AAB	38 44 43.0 104 51 39.0	78.000 676	6.4 2930	53.1 Bison Media, Inc	150.4	88.9
260D Arvada	K260AL	CP DV_ CO	69.0 249.7	97.61 BPFT20121129BMU	39 54 48.0 105 17 33.0	0.040	0.0 2542	1.6 Mountain Community Transla	92.8	95.9
259D Steamboat Springs	K259CC	CP DC_ CO	336.5 156.2	103.97 BNPFT20130318ABD	40 27 43.0 106 50 58.0	0.250	0.2 2535	9.2 Cimarron Communications Co	97.8	94.4
260D Arvada	K260AL	LIC DC_ CO	65.3 246.0	110.03 BLFT20101126AAW	40 00 43.0 105 11 16.0	0.250 -34	1.1 1655	7.0 Mountain Community Transla	104.2	103.0
260C Fruita	R15452	DEL ____ CO	254.5 73.0	214.46	39 03 56.0 108 44 52.0	100.000 600	17.5 2392	104.3 valleydale Broadcasting, L	191.0	109.7
260C Fruita	KEKB	LIC _CX CO	254.5 73.0	214.46 BLH20110209ADH	39 03 56.0 108 44 52.0	79.000 471	15.1 2270	97.4 Townsquare Media Grand Jun	193.4	116.6
260C0 Fruita	KEKB	CP NCX CO	254.5 73.0	214.46 BPH20130508AIZ	39 03 56.0 108 44 52.0	79.000 471	15.1 2270	97.4 Townsquare Media Grand Jun	193.4	116.6

Page # 2											
CH CITY	CALL	TYPE STATE	ANT	AZI ---	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
260D Hayden	640918	APP _C_ CO		322.3 141.7	129.39 BNPFT20030314BLP	40 31 16.0 107 17 46.0	0.250	1.1 2074	11.0 Conundrum Communications I	122.2	117.6
260D Hayden	1548321	APP _C_ CO		322.3 141.7	129.39 BNPFT20130328ARO	40 31 16.0 107 17 46.0	0.250	1.1 2074	11.0 Conundrum Communications I	122.2	117.6
260C2 Cheyenne	KKPL	LIC _C_ WY		35.1 215.9	189.17 BMLH20010426AAK	40 59 22.0 105 03 47.0	50.000 150	7.5 2129	60.6 Townsquare Media Of Ft. Co	177.2	127.0
264C1 Grand Junction	KKVT	LIC _CX CO		254.5 73.0	214.18 BLH20061025ADV	39 03 59.4 108 44 40.9	30.000 475	9.9 2252	86.7 Mbc Grand Broadcasting, In	198.3	127.1
262C2 Blanca	1565956	RSV-A _ CO		161.4 341.9	253.38	37 26 20.0 105 26 29.0	50.000 150	115.0 2703	26.5 Alex Media, Inc.	133.0	181.8
262C2 Blanca	R15677	ADD _ CO		161.4 341.9	253.38	37 26 20.0 105 26 29.0	50.000 150	115.0 2703	26.5 Alex Media, Inc	133.0	181.8
262C2 Blanca	1565733	APP _CX CO		161.6 342.2	254.62 BNPH20130726AEF	37 25 32.0 105 26 51.0	50.000 -13	115.0 2509	26.5 Alex Media, Inc.	134.2	195.6
264C1 Cheyenne	KOLZ	LIC NC_ WY		37.3 218.3	203.15 BLH20080625AAB	41 02 55.0 104 53 28.0	100.000 202	8.9 2103	66.9 Citicasters Licenses, Inc.	189.7	135.8
262C1 Dinosaur	NEW	CP ZCX CO		290.2 108.4	252.30 BNPH20120524AAD	40 21 14.6 109 08 51.5	2.500 667	90.0 2520	30.6 Moats Ii, Gary L	156.0	184.9
263C1 Durango	KRSJ	LIC _CX CO		207.7 26.7	292.52 BLH20120913AAB	37 15 47.0 107 53 46.0	100.000 110	95.4 2385	63.7 Four Corners Broadcasting,	191.4	212.1
261C2 Fleming	KSJK	LIC _CX CO		67.9 250.1	303.78 BLH20121115AAW	40 34 57.0 103 01 56.0	50.000 150	80.2 1460	54.1 Fireside Radio, Llc	218.7	243.5
259C2 Durango	KPTE	LIC _CN CO		207.3 26.4	282.09 BLH19950711KC	37 20 21.0 107 49 25.0	9.200 344	3.1 2757	30.6 winton Road Broadcasting C	273.2	219.2
259C Rock Springs	AL0275	RSV-A _ WY		312.0 130.2	309.61 RM10773	41 26 00.0 109 07 02.0	100.000 600	12.8 2763	88.4	290.9	221.7
259C Rock Springs	KSIT	LIC _CX WY		312.0 130.2	309.61 BLH20050907ABB	41 26 00.0 109 07 02.0	100.000 493	11.9 2660	81.7 Big Thicket Broadcasting C	291.8	228.3
261C1 Glendo	KKTY-FM	LIC _CX WY		14.7 195.5	364.25 BLH20090424ABG	42 46 13.0 105 13 21.0	100.000 139	93.0 1677	62.6 Douglas Broadcasting, Inc.	266.2	296.9

Terrain database is NGDC 30 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= West Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.

* TRANSLATOR RECORD ASSOCIATED WITH THIS LONG FORM 349 APPLICATION.