

TECHNICAL STATEMENT
NEW(FM) TRANSLATOR
FCC FORM 349
BRECKENRIDGE, COLORADO, CH. 280D
MITCHELL A. BERANEK
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 Mitchell A. Beranek, BNPFT-20030317MPR, facility ID 158405 for a new FM translator for Breckenridge, CO on channel 280D. 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 changes to the current pending 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 280D (104.1 Mhz) from an existing non-registered tower, located at the NAD 27 coordinates of N 39° 29’ 47”, W 106° 01’ 44”. The existing tower has an overall height of 52 meters. The proposed antenna will be a Nicom model BKG77, with vertical and horizontal polarization, mounted at the 39 meters above ground center of radiation, and 3227 meters height above mean sea level. An effective radiated power of 0.023 kilowatts (23 watts).

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 the proposed operation will remain at its previously specified transmitter site, it can be assumed that the new operation will overlap the previous proposal.

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 CHANNEL INTERFERENCE STUDY
 NEW FM TRANSLATOR, BRECKENRIDGE, CO, CH. 280D
 Average Protected F(50-50)= 3.87 km
 Omni-directional

REFERENCE
 39 29 47.0 N.
 106 01 44.0 W.

CH# 280D - 103.9 MHz, Pwr= 0.023 kW, HAAT= -49.8 M, COR= 3227 M

DISPLAY DATES
 DATA 08-27-13
 SEARCH 08-27-13

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <-	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
280D Breckenridge	1556120 *	APP _C_	CO	0.0 0.0	0.00 BNPFT20030317MPR	39 29 47.0 106 01 44.0	0.023	43.2 3227	12.9 Mitchell A. Beranek	-56.1*	-56.1*
280A Snowmass Village	KSN0-FM	LIC _CN	CO	250.4 69.9	81.63 BMLH19960220KC	39 14 51.0 106 55 13.0	6.000 99	68.3 2798	15.8 Cool Radio, LLC	9.3	35.2
281C3 Buena Vista	KBVC	LIC NCN	CO	190.0 9.9	84.60 BLH19961127KB	38 44 45.0 106 11 55.0	0.600 362	68.4 3335	45.8 Three Eagles Communication	12.3	32.9
279D Vail	1569540	APP DC_	CO	293.4 113.2	30.62 BNPFT20130819AAR	39 36 18.0 106 21 23.0	0.010	4.1 3464	2.2 Cimarron Communications Co	17.7	22.4
279D Vail	1557271	APP DC_	CO	293.4 113.2	30.62 BNPFT20030314CKI	39 36 18.0 106 21 23.0	0.010	4.1 3464	2.2 Cimarron Communications Co	17.7	22.4
280C1 Severance	KYEN	LIC NCX	CO	25.4 205.8	138.11 BLH20080311AAU	40 37 03.0 105 19 40.0	16.500 372	106.4 2560	37.9 Cochise Media Licenses LLC	19.8	59.2
281D Vail	K281AM	LIC _C_	CO	290.4 110.1	38.48 BLFT201111003ASF	39 36 58.0 106 26 57.0	0.050	6.7 2727	4.7 Nrc Broadcasting Mountain	23.1	26.7
280D Black Hawk	1564808	APP DC_	CO	54.0 234.3	51.28 BNPFT20030317HJN	39 45 59.0 105 32 39.0	0.024	12.5 2960	3.9 Kevin Nelson	29.1	29.1
278C0 Denver	KRFX	LIC DCX	CO	68.6 249.1	72.97 BLH20070927AIC	39 43 59.0 105 14 10.0	100.000 346	2.3 2256	22.7 Citicasters Licenses, Inc.	62.8	40.2
282C1 Longmont	KKFN	LIC NC_	CO	73.0 253.6	77.43 BLH19991214ABH	39 41 45.0 105 09 54.0	100.000 206	3.2 2081	31.0 Lincoln Financial Media Co	67.0	46.2
280D Pleasant View	1564438	APP _C_	CO	57.1 237.7	80.65 BNPFT20030317BTF	39 53 12.0 105 14 09.0	0.250	23.8 1920	7.1 Mary V. Guthrie	47.4	61.2
280C2 Pueblo West	KRXP	LIC NCX	CO	129.3 310.0	130.90 BLH20070326AGF	38 44 44.0 104 51 42.0	1.750 657	73.5 2912	24.1 Colorado Springs Radio Bro	53.7	72.7
281C3 Oak Creek	KFMU-FM	LIC NCN	CO	319.0 138.4	109.48 BLH19940111KC	40 14 10.0 106 52 30.0	1.400 327	27.8 2831	11.0 Nrc Broadcasting Mountain	69.0	63.9
280D Pleasant View	1570737	APP DC_	CO	60.4 241.0	87.03 BNPFT20130826ABA	39 52 43.0 105 08 35.0	0.099	7.7 1733	2.4 Mary V. Guthrie	70.3	72.2
280D Pleasant View	1570976	APP DC_	CO	60.4 241.0	87.03 BNPFT20130826ABA	39 52 43.0 105 08 35.0	0.099	7.7 1733	2.4 Mary V. Guthrie	70.3	72.2
280D Glenwood Springs	KSN0-FM1	LIC DC_	CO	273.6 92.8	112.05 BLFTB20100518AEC	39 33 10.0 107 19 48.0	0.300	24.2 1820	7.3 Cool Radio, LLC	81.2	91.3
278D Basalt	K278AG	LIC DH_	CO	260.4 79.8	92.98 BLFT20060321ACE	39 21 11.0 107 05 34.0	0.010 129	0.1 2542	5.9 Pitkin County Translator D	88.6	84.8
283C3 Canon City	KSTY	LIC _CX	CO	151.4 331.9	149.10 BLH20071003ABD	38 18 54.0 105 12 40.0	8.600 14	4.3 2138	44.1 Royal Gorge Broadcasting,	140.9	97.9
278D Glenwood Springs	K278BV	CP DC_	CO	272.5 91.6	112.96 BNPFT20130328AKY	39 31 57.0 107 20 30.0	0.099	0.4 2286	4.1 Cool Radio, LLC	106.1	100.1
282D Carbondale	627689	APP DH_	CO	266.4 85.5	116.17 BNPFT20030311AFT	39 25 23.5 107 22 31.6	0.010 782	0.1 3239	10.0 Pitkin County Translator D	110.6	101.2
278D Redstone	K278BD	CP DC_	CO	254.7 74.0	106.32 BPFT20130205ACF	39 14 20.0 107 13 02.0	0.008	0.2 2652	2.6 Pitkin County Translator D	102.0	101.8
278D Redstone	K278BD	LIC DH_	CO	254.7 74.0	106.32 BLFT20050607ACL	39 14 20.0 107 13 02.0	0.019 -186	0.0 2637	0.6 Pitkin County Translator D	102.2	104.9
279C2 Ridgway	KSNN	LIC _CX	CO	229.6 48.6	188.49 BLH20030521ABD	38 23 15.0 107 40 31.0	4.100 480	71.2 2860	47.3 Ccr-montrose Iv, LLC	113.4	130.5
283D Colorado Springs	KSTY-FM1	LIC _C_	CO	129.3 310.0	130.98 BLFTB20050815ABU	38 44 43.0 104 51 39.0	0.003	0.1 2957	5.6 Royal Gorge Broadcasting L	127.0	122.1
283C2 Centennial	KYAP	RSV-A ____ WY		358.0 178.0	198.60	41 17 02.0 106 06 36.0	50.000 150	7.9 2778	62.9 White Park Broadcasting, I	175.8	132.1

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 2 *IN* (Overlap in km)	*OUT*
282C0	KMXY Grand Junction	LIC _CX CO		259.3 77.6	239.42 BLH20110209ADG	39 03 56.0 108 44 52.0	100.000 446	16.2 2245	98.8 Townsquare Media	218.8	139.9 Grand Jun
280L1	KSBP-LP Parachute	CP ____ CO		268.6 87.3	171.52 BPL20080124ADL	39 26 31.0 108 01 15.0	0.100 -210	18.6 1709	5.6 Ksun Community Radio	147.0	152.2
283C2	KYAP Centennial	APP NCX WY		13.8 194.2	204.70 BPH20130124ACV	41 17 06.0 105 26 41.0	13.500 284	4.4 2702	41.7 White Park Broadcasting, I	186.7	156.1
278C	1144256 Baggs	RSV-A ____ WY		313.3 131.9	253.89	41 02 25.0 108 13 50.0	100.000 600	15.1 2660	95.5 Austin Jr, Ted W	225.9	158.6
279C1	AL8413 Akron	VAC ____ CO		75.6 257.6	270.23 RM10630	40 03 28.0 102 57 35.0	100.000 299	101.6 1637	69.4 Akron B/c Co.	161.4	195.6
278C3	KPAU Center	CP _CX CO		194.1 13.7	202.07 BPH20130524ADT	37 43 47.0 106 35 18.0	0.880 504	1.9 3365	33.3 Cochise Media Licenses Llc	196.3	162.8
277C2	KPRU Delta	LIC _C_ CO		250.7 69.3	201.83 BLED20010411AAF	38 52 40.0 108 13 32.0	12.000 301	1.9 2316	19.0 Public Broadcasting Of Col	195.9	164.5
278C	1142857 Baggs	APP _CX WY		313.3 131.9	253.89 BNPH20060224ACG	41 02 25.0 108 13 50.0	100.000 452	13.0 2511	89.5 Austin Jr, Ted W	228.0	164.6
277C1	KJQY Colorado City	LIC _CX CO		145.3 326.2	230.63 BLH20110418ABT	37 46 52.0 104 32 03.0	100.000 165	8.4 1958	64.8 Pueblo Broadcasting Group	218.3	165.0
277D	KJQY-FM1 Pueblo West	CP DH_ CO		138.6 319.4	170.52 BNPFTB20130308AAB	38 20 22.4 104 44 07.3	7.000	0.1 1569	1.6 Pueblo Broadcasting Group	166.6	165.8
278A	KPAU Center	LIC _HX CO		182.2 2.1	189.68 BLH20090507AB0	37 47 20.0 106 06 43.0	0.460 8	1.5 2332	8.3 Cochise Media Licenses Llc	184.3	181.0
277C2	KRAN Warren Afb	LIC ZCX WY		30.5 211.4	215.49 BLH20090624AEP	41 09 34.0 104 43 19.0	37.000 78	3.3 1912	31.4 Freisland Broadcasting Cor	200.0	182.6
283A	KYAP Centennial	LIC _CX WY		357.4 177.3	200.15 BLH20121126ACD	41 17 49.0 106 08 23.0	0.500 33	1.6 2455	8.5 White Park Broadcasting, I	183.6	191.3
277A	1113349 Baggs	APP ____ WY		321.6 140.6	220.05 BSFH20050812AXH	41 02 12.0 107 39 24.0	6.000 100	2.8 2088	28.7 Austin Jr, Ted W	203.4	191.1
277A	AU9429895 Baggs	VAC __N WY		321.6 140.6	220.05 RM9279	41 02 12.0 107 39 24.0	6.000 100	2.8 2088	28.7 Mountain Tower Broadcastin	203.4	191.1
281C3	NEW Silverton	CP _CX CO		217.6 36.6	235.95 BNPH20110630AEB	37 48 12.0 107 40 04.0	25.000 -604	35.6 2859	22.7 Mt Communications	196.5	207.7
281C2	KANT Guernsey	LIC _CX WY		14.4 195.1	327.38 BLH20080304AAR	42 20 46.6 105 02 03.9	36.000 172	77.3 1675	52.4 Peak Radio Llc	236.6	256.0
279C1	KLNN Questa	LIC _HX NM		173.6 353.9	317.14 BLH20100713AAS	36 39 23.0 105 37 57.0	51.000 -64	71.1 2452	45.9 West Waves, Inc.	242.1	262.7
281C2	KANT Guernsey	CP _CX WY		14.4 195.1	327.38 BPH20110211ACB	42 20 46.6 105 02 03.9	18.000 172	68.1 1675	46.3 Peak Radio Llc	245.7	262.1
279C	KQLT Casper	LIC _CY WY		356.4 176.2	361.38 BLH19980114KB	42 44 37.0 106 18 31.0	100.000 567	98.1 2525	66.5 Mt. Rushmore Broadcasting,	248.3	268.8
281C1	KNAB-FM Burlington	LIC _CN CO		92.8 275.2	325.41 BLH19900222KD	39 17 41.0 102 15 37.0	51.000 110	66.9 1367	41.9 Knab, Inc.	253.7	277.7

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.