

TECHNICAL STATEMENT
NEW(FM) TRANSLATOR
FCC FORM 349
CHEYENNE, WYOMING, CH. 281D
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-20030317LJL, facility ID 157657, for a new FM translator for Cheyenne, WY on channel 281D. This application is listed in “Attachment A” of DA 13-1675, report No. AUC-03-83-E.

The applicant does seek to make a minor change to the current pending and originally filed “Tech Box” application. The applicant seeks to one step channel change from Channel 227D to channel 281D, and modify its ERP.. 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 281D (104.1 Mhz) from an existing registered tower, #1253416, located at the NAD 27 coordinates of N 41° 09’ 40”, W 104° 38’ 46”. The existing tower has an overall height of 60.0 meters. The proposed antenna will be a Nicom model BKG77, with vertical and horizontal polarization, mounted at the 50 meters above ground center of radiation, and 1871 meters height above mean sea level. An effective radiated power of 0.07 kilowatts (70 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, CHEYENNE, WY, CH 281D

CH# 281D - 104.1 MHz, Pwr= 0.07 kW, HAAT= 0.0 M, COR= 1871 M

Average Protected F(50-50)= 5.15 km

Omni-directional

DISPLAY DATES

DATA 08-27-13

SEARCH 08-27-13

REFERENCE
41 09 40.0 N.
104 38 46.0 W.

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*
280C1 KYEN Severance		LIC NCX CO	223.7 43.2	83.33 BLH20080311AAU	40 37 03.0 105 19 40.0	16.500 372	109.4 2560	72.6 Cochise Media Licenses Llc	-31.6	0.5
281C2 KANT Guernsey		LIC _CX WY	346.4 166.1	135.53 BLH20080304AAR	42 20 46.6 105 02 03.9	36.000 172	136.4 1675	54.0 Peak Radio Llc	-8.6	56.7
281C2 KANT Guernsey		CP _CX WY	346.4 166.1	135.53 BPH20110211ACB	42 20 46.6 105 02 03.9	18.000 172	121.0 1675	47.8 Peak Radio Llc	6.7	63.0
283C2 KYAP Centennial		APP NCX WY	281.9 101.4	68.36 BPH20130124ACV	41 17 06.0 105 26 41.0	13.500 284	5.5 2702	52.3 White Park Broadcasting, I	57.7	15.4
282C1 KKFN Longmont		LIC NC_ CO	195.3 14.9	168.55 BLH19991214ABH	39 41 45.0 105 09 54.0	100.000 206	117.6 2081	79.1 Lincoln Financial Media Co	43.0	79.2
280D K280BM Laramie		LIC _CN WY	277.4 96.8	69.07 BLFT19840723MU	41 14 16.0 105 27 48.0	0.080 393	18.9 2661	12.7 Laramie Plains Antenna Tv	45.0	48.8
283C2 KYAP Centennial		RSV-A _ WY	276.8 95.9	123.50	41 17 02.0 106 06 36.0	50.000 150	9.8 2778	74.4 White Park Broadcasting, I	108.4	47.9
284D 641070 Masonville		APP DV_ CO	223.7 43.2	83.33 BNPFT20030314BSM	40 37 03.0 105 19 40.0	0.010 387	0.1 2549	5.0 Mary Medicus	77.3	72.5
284C1 KNNG Sterling		LIC _CN CO	114.8 295.9	150.46 BLH19810402AB	40 34 57.0 103 01 56.0	100.000 198	9.4 1508	69.0 Arnold Broadcasting, Inc.	131.0	80.6
278C0 KRFX Denver		LIC DCX CO	197.6 17.3	166.28 BLH20070927AIC	39 43 59.0 105 14 10.0	100.000 346	12.2 2256	83.5 Citicasters Licenses, Inc.	146.3	81.9
283A KYAP Centennial		LIC _CX WY	277.4 96.4	126.13 BLH20121126ACD	41 17 49.0 106 08 23.0	0.500 33	1.6 2455	16.2 White Park Broadcasting, I	119.3	108.8
279C1 AL8413 Akron		VAC _ CO	130.2 311.3	188.09 RM10630	40 03 28.0 102 57 35.0	100.000 299	9.8 1637	70.8 Akron B/c Co.	168.2	116.3
281C3 KFMU-FM Oak Creek		LIC NCN CO	242.0 60.6	214.56 BLH19940111KC	40 14 10.0 106 52 30.0	1.400 327	78.9 2831	27.1 Nrc Broadcasting Mountain	129.4	154.4
279C KQLT Casper		LIC _CY WY	322.6 141.4	223.37 BLH19980114KB	42 44 37.0 106 18 31.0	100.000 567	9.6 2525	69.3 Mt. Rushmore Broadcasting,	207.1	146.1
281C1 KNAB-FM Burlington		LIC _CN CO	134.9 316.5	290.14 BLH19900222KD	39 17 41.0 102 15 37.0	51.000 110	131.5 1367	45.4 Knab, Inc.	148.7	210.8
284C1 KTRS-FM Casper		LIC _CX WY	322.6 141.5	223.27 BLH20060927ANT	42 44 37.0 106 18 24.0	18.000 554	5.8 2524	53.2 Townsquare Media Casper Li	210.7	160.7
280C2 KRXP Pueblo West		LIC NCX CO	184.0 3.8	268.83 BLH20070326AGF	38 44 44.0 104 51 42.0	1.750 657	90.9 2912	61.1 Colorado Springs Radio Bro	169.6	196.7
281C3 KBVC Buena Vista		LIC NCN CO	206.7 25.7	299.19 BLH19961127KB	38 44 45.0 106 11 55.0	0.600 362	116.7 3335	47.0 Three Eagles Communication	175.3	232.2
284C1 KKVM Vail		LIC _C_ CO	222.5 41.4	228.22 BMLH20031119AII	39 38 05.0 106 26 47.0	100.000 102	3.2 3015	31.0 Vail Radio Partners, Llc	219.1	179.0
281C1 KIQK Rapid City		LIC _CN SD	19.2 200.1	337.56 BLH19940826KA	44 01 19.0 103 15 33.0	100.000 164	141.2 1292	43.6 Haugo Broadcasting, Inc.	187.3	252.9
284D KKVM-FM3 Dillon		LIC DV_ CO	215.3 34.4	207.38 BLFTB20090115AFD	39 37 51.0 106 02 47.0	0.175 102	0.7 2786	5.5 Vail Radio Partners, Llc	200.2	201.2
284A KKCS Calhan		LIC NCX CO	173.2 353.4	241.72 BMLH20121019AAH	38 59 57.0 104 18 47.0	1.550 198	2.3 2192	29.2 Educational Media Foundati	230.6	210.9
278C 1144256 Baggs		RSV-A _ WY	268.6 86.3	301.42	41 02 25.0 108 13 50.0	100.000 600	12.5 2660	86.1 Austin Jr, Ted w	283.2	211.5
278C 1142857 Baggs		APP _CX WY	268.6 86.3	301.42 BNPH20060224ACG	41 02 25.0 108 13 50.0	100.000 452	10.8 2511	75.4 Austin Jr, Ted w	284.9	220.2
280A KSNO-FM Snowmass Village		LIC _CN CO	223.0 41.5	287.46 BMLH19960220KC	39 14 51.0 106 55 13.0	6.000 99	49.5 2798	32.2 Cool Radio, Llc	232.1	238.4

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CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)
283D	KSTY-FM1	LIC _C_		184.0	268.86	38 44 43.0	0.003	0.1	10.2	260.3	258.1
Colorado Springs		CO		3.8	BLFTB20050815ABU	104 51 39.0		2957	Royal Gorge Broadcasting L		
283C3	KSTY	LIC _CX		188.9	319.68	38 18 54.0	8.600	5.3	56.9	306.2	262.2
Canon City		CO		8.5	BLH20071003ABD	105 12 40.0	14	2138	Royal Gorge Broadcasting,		
278C1	KXNP	LIC _CN		87.7	328.60	41 12 49.0	100.000	7.5	60.7	310.9	267.2
North Platte		NE		270.3	BLH19820701AQ	100 43 48.0	146	1038	Armada Media - Mccook, Inc		

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.