

TECHNICAL STATEMENT  
K242CG PINE BLUFFS, WYOMING 296D  
MOUNTAIN COMMUNITY TRANSLATORS, LLC  
FCC FORM 349  
OCTOBER 2013

This Technical Statement is in support of FCC form 349 filed by Mountain Community Translators, LLC for a minor change in the licensed facility of K242CG, facility ID 33475. It is proposing to relocate to an existing tower site located at N. 41°-15'-42", W. 103°-40'-06", NAD 27, with an Effective Radiated Power of 250 Watts (0.25KW) and utilizing a Nicom BKG77 two bay, directional type antenna. The antenna will be mounted at the 42 meter level on a 46 meter overall, existing tower, with a Center of Radiation at 1474 meters Above Mean Sea Level. It also seeks to one step channel change from 242D to 296D (I.F. channel).

Figure 1 shows a detailed channel interference study conducted from the proposed site for K242CG. It shows that the proposed operation of K242CG on channel 296D will not cause any prohibited outgoing interference to any licensed or proposed FM services.

Figure 2 shows the present and proposed 60 dBμ contour for K242CG.

Figure 3 shows the directional antenna data.

Figure 4 is a "fill-in" map showing that the proposed 60 dBμ will not extend beyond either the 2 mv/m daytime contour or a 25 mile (40 km) radius from the proposed station to be rebroadcast, KIMB(AM) Kimball, Nebraska, facility ID 33475.

It was concluded that the new proposed operation of K242CG Pine Bluffs, Wyoming on channel 242D will not cause any harmful interference to any existing stations, and will be in full compliance with the commission's rules.

FIGURE 1 - DETAILED CHANNEL INTERFERENCE STUDY

K242CG PINE BLUFFS, WY, CH. 296D

Average Protected F(50-50)= 7.09 km

Standard Directional

REFERENCE  
41 15 42.0 N.  
103 40 06.0 W.

CH# 296D - 107.1 MHz, Pwr= 0.25 kW DA, HAAT= 1.0 M, COR= 1474 M

DISPLAY DATES  
DATA 10-27-13  
SEARCH 10-27-13

CH CITY	CALL	TYPE STATE	ANT AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
296C Bennett	KDHT-FM	LIC NC_ CO	189.9 9.7	150.87 BMLH20081028ABZ	39 55 22.0 103 58 18.0	97.000 624	199.7 2109	93.0 Max Radio Of Denver Llc	-55.8	34.6
297C3 Albin	KKWY	LIC NC_ WY	306.5 126.2	43.25 BLH20001201ABA	41 29 31.0 104 05 07.0	9.300 162	52.5 1719	34.5 Laramie Mountain Broadcast	-15.0	0.6
242D Pine Bluffs	K242CG *	LIC _C_ WY	267.6 87.5	18.68 BLFT20121105ANK	41 15 16.0 103 53 28.0	0.205	0.0 1590	0.0 Mountain Community Transla	10.0R	9.2M *
295C3 Minatare	KHYY	LIC NCX NE	357.4 177.3	66.95 BLH20080725ADA	41 51 50.0 103 42 20.0	25.000 28	35.6 1270	22.7 Legacy Communications, Llc	26.4	35.8
296D Cheyenne	K296FZ	LIC _C_ WY	263.0 82.3	89.09 BLFT20090415ADM	41 09 34.0 104 43 19.0	0.250 45	41.6 1882	12.1 Mitchell A. Beranek	40.5	53.6
299D Sterling	K299AO	LIC _C_ CO	150.3 330.7	93.11 BLFT20090514AAF	40 31 57.0 103 07 22.0	0.075 110	0.6 1416	12.8 Way Media , Inc.	85.5	79.3
296D Aurora	KDHT-FM3	LIC DC_ CO	210.4 29.6	203.62 BLFTB20050729DSZ	39 40 31.0 104 52 22.0	20.000 299	107.2 1766	38.4 Max Radio Of Denver Llc	89.5	140.9
296D Alliance	K296DS	LIC DHN NE	34.7 215.2	116.12 BLFT19880627TD	42 07 02.0 102 52 00.0	0.074 42	15.3 1257	4.5 International Church Of Th	96.1	94.3
294C1 Ogallala	AL6539	RSV-A _ NE	94.3 275.6	166.14 RM11246*	41 08 02.0 101 41 42.0	100.000 299	9.6 1311	69.6 Livingstone Broadcasting,	146.0	94.8
243C1 Julesburg	KJBL	CP _CX CO	104.0 284.9	122.09 BPH20130503ABD	40 59 19.0 102 15 36.0	65.000 -17	0.0 1090	0.0 Armada Media - Mccook, Inc	22.0R	100.6M
298A Wheatland	KLLM	LIC _CX WY	298.5 117.5	131.72 BLH20090507ABX	41 49 00.0 105 03 48.0	0.530 333	1.6 2084	28.6 Michael Radio Group	123.9	102.2
243A Julesburg	KJBL	LIC _CX CO	104.0 284.9	121.92 BLH20060825ABR	40 59 18.0 102 15 44.0	0.265 -32	0.0 1074	0.0 Armada Media - Mccook, Inc	10.0R	112.4M
293C1 Ogallala	KMCX-FM	LIC _CN NE	94.3 275.6	166.14 BLH19820520AC	41 08 02.0 101 41 42.0	100.000 96	5.1 1121	45.9 Capstar Tx Llc	150.4	113.9
294C0 Denver	KBPI	LIC _CX CO	218.4 37.4	215.57 BLH20080602ADJ	39 43 58.0 105 14 08.0	100.000 408	13.6 2318	91.5 Citicasters Licenses, Inc.	195.0	122.9
293A Wheatland	KRKU	LIC _CX WY	309.9 129.0	138.44 BLH20091228AFC	42 03 07.0 104 57 13.0	0.100 6	0.7 1462	5.6 Lorenz E. Proietti	131.9	132.1
299C2 Hay Springs	KBPY	LIC NCX NE	25.9 206.5	183.08 BLH20110322ABA	42 44 23.0 102 41 25.0	50.000 144	5.6 1324	49.6 Chadrad Communications, In	172.5	132.5
298C Lakewood	KQKS	LIC _C_ CO	216.5 35.5	215.26 BLH19991214ABI	39 41 45.0 105 09 54.0	100.000 365	11.7 2081	80.6 Lincoln Financial Media Co	196.6	133.5
296C Spearfish	KSLT	LIC _CX SD	357.8 177.7	340.93 BLH20111026AEX	44 19 42.0 103 50 03.0	100.000 579	182.4 2290	79.4 Bethesda Christian Broadca	153.6	245.4
296D Commerce City	KDHT-FM5	CP DV_ CO	210.6 29.9	186.66 BNPFTB20130430ACV	39 48 39.0 104 46 52.0	8.000	8.5 1635	2.7 Max Radio Of Denver Llc	171.3	158.8
295C Casper	KASS	LIC _C_ WY	307.9 126.2	273.75 BLH19980220KD	42 44 37.0 106 18 31.0	100.000 538	109.6 2496	74.8 Mt. Rushmore Broadcasting,	159.1	180.3
296D Greenwood Village	KDHT-FM7	CP DV_ CO	207.5 26.9	191.85 BNPFTB20130430ACZ	39 43 35.0 104 42 23.0	6.500	13.6 1762	4.3 Max Radio Of Denver Llc	171.3	164.0
296D Denver	KDHT-FM4	CP DV_ CO	212.0 31.2	198.68 BNPFTB20130430ABD	39 44 24.0 104 54 05.0	0.750	5.5 1644	1.8 Max Radio Of Denver Llc	186.2	173.1
297C3 Hershey	KNPQ	LIC _CX NE	91.9 273.8	243.14 BLH20080229AAZ	41 09 14.0 100 46 22.4	25.000 69	57.4 954	36.6 Eagle Communications, Inc.	175.2	193.5
296D Glendale	KDHT-FM6	CP DV_ CO	212.4 31.5	203.21 BNPFTB20130430ACX	39 42 38.0 104 56 25.0	0.100	4.2 1675	1.6 Max Radio Of Denver Llc	192.1	178.1
243D Boulder	KXPK-FM1	LIC DCN CO	222.5 41.5	194.79 BLFTB19950119TD	39 57 38.0 105 12 44.0	0.500 -52	0.0 1753	0.0 Entravision Holdings, Llc	10.0R	185.3M

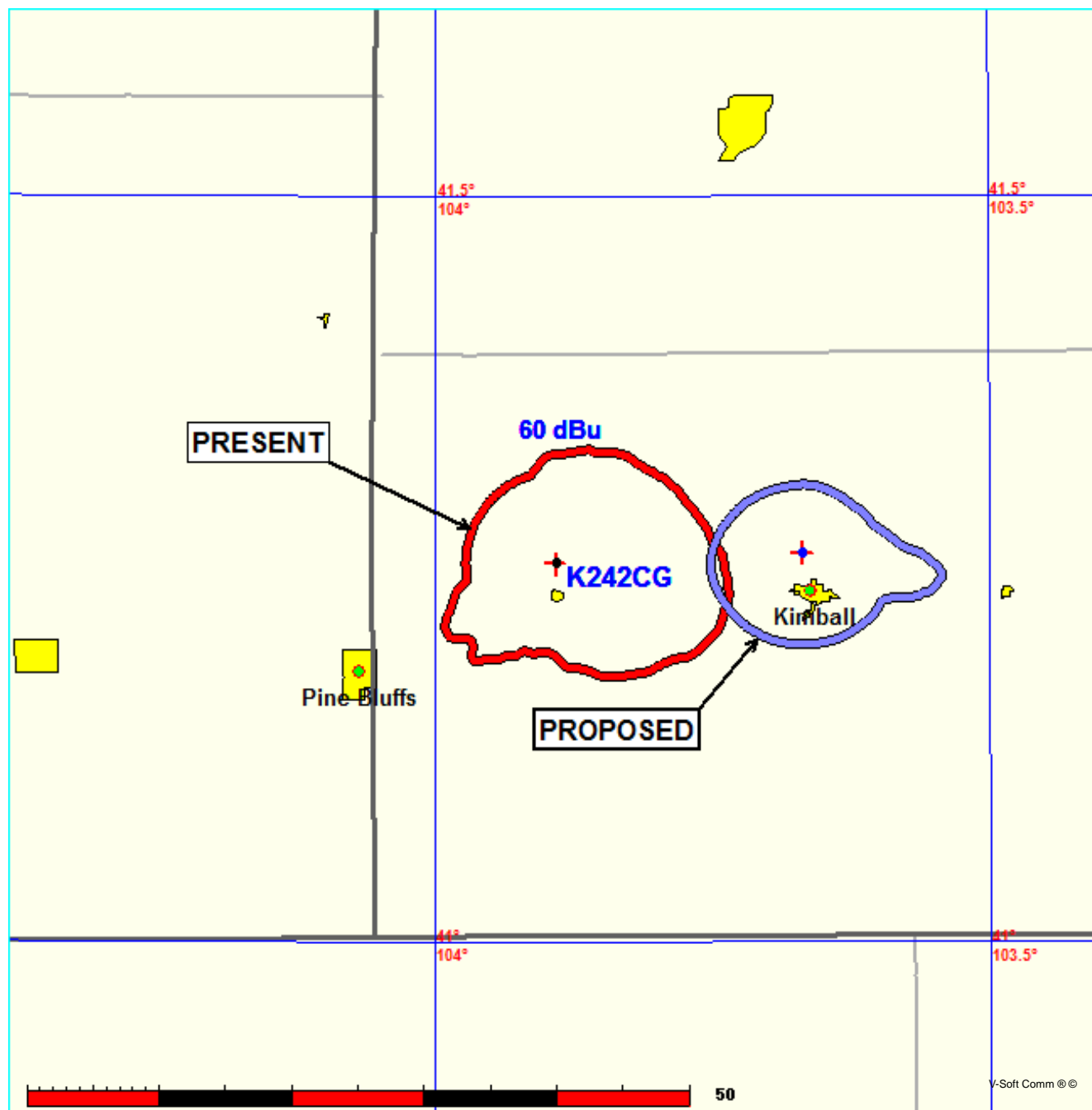
CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 2 *IN* (Overlap in km)	*OUT*
243C Evergreen	KXPK	LIC _CN CO		221.7 40.5	233.97 BLH19940701KC	39 40 35.0 105 29 09.0	100.000 530	0.0 3281	0.0 Entravision Holdings, LLC	29.0R	205.5M
299C1 Goodland	KGCR	LIC _C_ KS		137.5 318.9	282.75 BMLD20121220AAQ	39 22 02.0 101 26 44.0	100.000 136	6.4 1191	54.4 The Praise Network, Inc.	267.7	227.1
296L1 Colorado Springs	KWIR-LP	LIC _ CO		200.2 19.4	279.01 BLL20130604ACT	38 53 54.0 104 46 48.0	0.100 -83	1949	253.5 Calvary Community Church	250.0	
296C3 Aspen	KPVW	LIC _C_ CO		233.3 51.2	353.54 BMLH20121107AEE	39 18 56.0 106 57 32.0	20.500 110	95.5 2682	21.6 Entravision Holdings, LLC	251.0	308.1
296D Rapid City	KSLT-FM1	LIC DC_ SD		6.1 186.4	316.34 BLFTB20111026AEZ	44 05 33.0 103 14 53.0	2.400	59.0 1198	17.2 Bethesda Christian Broadca	252.4	280.4
297C2 Hayden	KQZR	LIC _C_ CO		256.1 73.7	316.59 BLH20000731ACV	40 31 16.0 107 17 46.0	29.000 198	57.8 2252	35.0 Nrc Broadcasting Mountain	252.5	256.0
298C1 Wall	KXZS	CP NHX SD		15.2 195.9	327.00 BPH20111117AXW	44 05 50.0 102 35 48.0	100.000 152	7.1 996	58.4 Jer Licenses, LLC	315.0	267.6
295C2 Pueblo	KIQN	LIC _CX CO		191.6 11.0	357.34 BLH20050107AAQ	38 06 22.0 104 29 18.0	27.500 203	82.7 1710	56.2 United States Cp, LLC	267.7	291.2

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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.  
Reference station has protected zone issue:

\* Translator being modified by this application.

FIGURE 2 - PRESENT AND PROPOSED 60 DBU CONTOURS  
K242CG PINE BLUFFS, WY, CH. 296D

Coverage Study - NGDC 30 SEC  
10-27-2013



# FIGURE 3 DIRECTIONAL ANTENNA DATA

K242CG

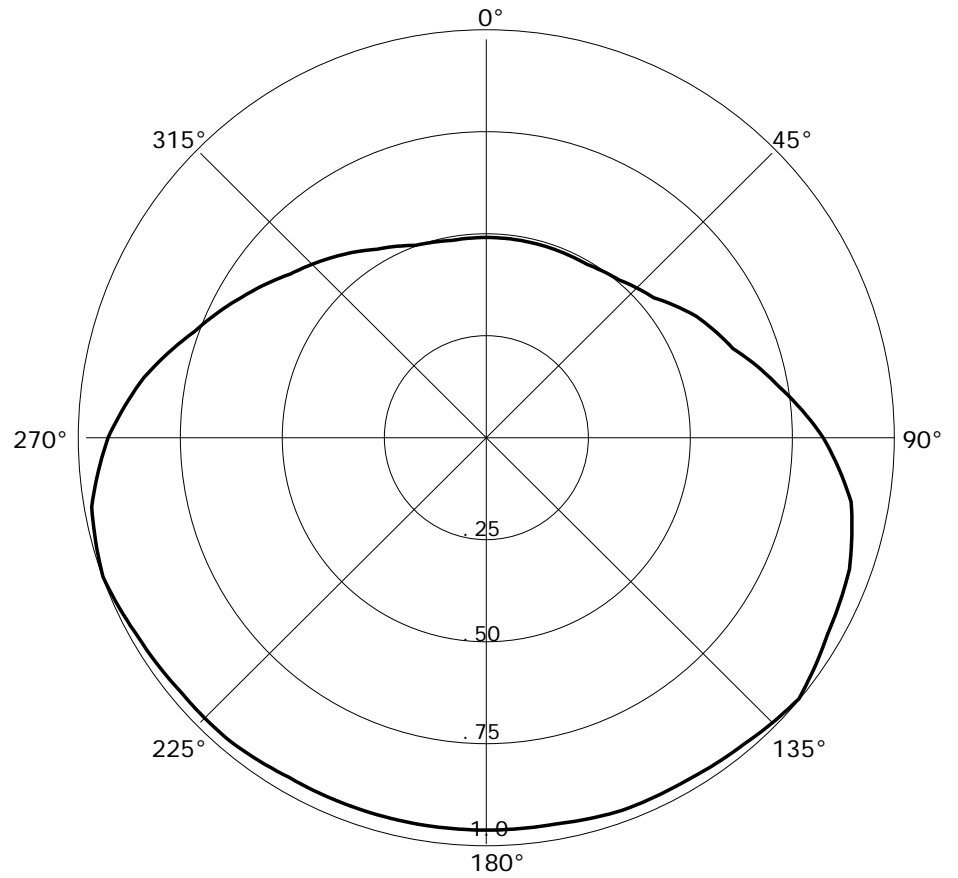
10-27-2013

RMS(V) = .811

NICOM BKG77

Graph is Relative Field

Azi	Field	dBk	kW
000	0.493	-12.164	0.061
010	0.493	-12.164	0.061
020	0.493	-12.164	0.061
030	0.493	-12.164	0.061
040	0.507	-11.920	0.064
050	0.536	-11.437	0.072
060	0.596	-10.516	0.089
070	0.643	-09.856	0.103
080	0.728	-08.778	0.132
090	0.826	-07.681	0.171
100	0.908	-06.859	0.206
110	0.947	-06.494	0.224
120	0.966	-06.321	0.233
130	1.000	-06.021	0.250
140	0.984	-06.161	0.242
150	0.976	-06.232	0.238
160	0.976	-06.232	0.238
170	0.966	-06.321	0.233
180	0.966	-06.321	0.233
190	0.966	-06.321	0.233
200	0.966	-06.321	0.233
210	0.966	-06.321	0.233
220	0.976	-06.232	0.238
230	0.976	-06.232	0.238
240	0.984	-06.161	0.242
250	1.000	-06.021	0.250
260	0.982	-06.178	0.241
270	0.927	-06.679	0.215
280	0.852	-07.412	0.181
290	0.762	-08.382	0.145
300	0.692	-09.218	0.120
310	0.627	-10.075	0.098
320	0.581	-10.737	0.084
330	0.536	-11.437	0.072
340	0.504	-11.972	0.064
350	0.493	-12.164	0.061



**K242CG**

BLFT20121105ANK

Latitude: 41-15-42 N

Longitude: 103-40-06 W

ERP: 0.25 kW

Channel: 296

Frequency: 107.1 MHz

AMSL Height: 1474.0 m

Elevation: 1434.0 m

Horiz. Pattern: Directional

Vert. Pattern: No

Prop Model: None

**FIGURE 4**  
**KIMB(AM) WITH K242CG FILL IN MAP**

