

TECHNICAL STATEMENT  
K243BL PINE BLUFFS, WYOMING 242D  
MOUNTAIN COMMUNITY TRANSLATORS, LLC  
FCC FORM 349  
MARCH 2012

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 K243BL, facility ID 33475. It is proposing to relocate to an existing tower site located at N. 41°-15'-16", W. 103°-53'-28", NAD 27, with an Effective Radiated Power of 205 Watts (0.205KW) and utilizing a Nicom BKG77 one bay non-directional type antenna. The antenna will be mounted at the 54 meter level on a 67 meter overall, FCC registration number 1025427, existing tower, with a Center of Radiation at 1590 meters Above Mean Sea Level. It also seeks to one step channel change from 243D to 242D.

Figure 1 shows a detailed channel interference study conducted from the proposed site for K243BL. It shows that the proposed operation of K243BL on channel 242D will not cause any prohibited outgoing interference to any licensed or proposed FM services, with the exception of KCMI Terrytown, Nebraska operating on channel 245C1, facility ID 11069. The proposed operation of K243BL on 242D is located within the protected 60 dBμ contour of 3<sup>rd</sup> adjacent station KCMI.

Figure 2 shows the coverage area for the worse case 100 dBμ interference contour F(50-10) and shows that there is no population in the area of interference. The applicant, Mountain Community Translators, LLC, respectfully requests a waiver of C.F.R. 74.1204(d) of the Commission's rules based on the fact that there is no population within the area of predicted interference. There are no homes nearby the proposed existing tower

site, which also has private access. The transmitter building is uninhabited and does not have indoor plumbing.

Figure 3 shows the present and proposed 60 dB $\mu$  contour for K243BL.

Figure 4 is a tabulation of distance to contours for the pertinent contours proposed by K243BL.

It was concluded that the new proposed operation of K243BL 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.

REFERENCE 41 15 16.0 N. 103 53 28.0 W.											
CH# 242D - 96.3 MHz, Pwr= 0.205 kW, HAAT= 52.2 M, COR= 1590 M Average Protected F(50-50)= 8.82 km Omni-directional											
FIGURE 1, DETAILED CHANNEL STUDY K243BL PINE BLUFFS, WY, CH. 242D Average Protected F(50-50)= 8.82 km Omni-directional											
DISPLAY DATES DATA 03-17-12 SEARCH 03-20-12											
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* (km)	
296D Cheyenne	K296FZ«	LIC _C_ WY	261.6 81.1	70.47 BLFT20090415ADM	41 09 34.0 104 43 19.0	0.250 45	225.0 1882	12.2 Mitchell	10.0R A. Beranek	60.5M	
245C1 Terrytown	R12047 *	DEL ____ NE	19.1 199.2	52.70	41 42 08.0 103 41 00.0	100.000 299	9.6 1613	69.8 Appaloosa Broadcasting Com	33.9	-18.1 *	
243D Pine Bluffs	K243BL **	LIC _C_ WY	237.3 57.2	18.31 BLFT20110207ACD	41 09 55.0 104 04 31.0	0.205	20.0 1641	13.1 Mountain Community Transla	-11.1	-8.2 **	
245C1 Terrytown	KCMI *	LIC _CN NE	19.1 199.2	52.70 BLH19881221KC	41 42 08.0 103 41 00.0	100.000 211	7.7 1521	61.5 Christian Media Incorporat	35.8	-9.8 *	
241C1 Greeley	KSME	LIC _C_ CO	234.5 53.8	108.89 BLH20010411AAR	40 40 50.0 104 56 32.0	100.000 224	93.1 1819	62.7 Citicasters Licenses, Inc.	6.2	32.7	
239D Sidney	K239BE	LIC _C_ NE	94.7 275.3	67.70 BLFT20070921AEB	41 12 05.0 103 05 04.0	0.170 48	0.9 1360	8.2 My Bridge Radio	53.6	57.9	
295C3 Minatare	KHYY«	LIC NCX NE	12.8 192.9	69.43 BLH20080725ADA	41 51 50.0 103 42 20.0	25.000 28	23.8 1270	22.7 Legacy Communications, Llc	12.0R	57.4M	
245D Cheyenne	651553	APP _C_ WY	258.9 78.4	68.47 BNPFT20030317LZJ	41 08 00.0 104 41 37.0	0.050 42	0.5 1865	8.2 Mary Medicus	59.0	59.0	
245A Nunn	KIMX	CP NCX CO	238.1 57.5	98.78 BPH20070822AAL	40 46 51.0 104 53 15.0	6.000 100	2.7 1761	28.0 Appaloosa Broadcasting Com	86.4	68.5	
243C Evergreen	KXPK	LIC _CN CO	218.1 37.0	221.29 BLH19940701KC	39 40 35.0 105 29 09.0	100.000 530	142.1 3281	96.2 Entravision Holdings, Llc	69.8	111.1	
243C1 Julesburg	KJBL	CP _CX CO	101.7 282.8	139.59 BPH20100426ACB	40 59 18.0 102 15 44.0	55.000 -21	47.0 1090	27.1 Armada Media - Mccook, Inc	79.3	92.5	
244C2 Laramie	KIMX	LIC NCX WY	272.1 91.1	129.80 BLH20070130AIV	41 17 15.0 105 26 38.0	4.800 313	3.9 2730	45.2 Appaloosa Broadcasting Com	117.9	83.7	
240A Wheatland	KPAD	APP NCX WY	303.0 122.3	115.86 BMPH20111230ABO	41 49 00.0 105 03 48.0	0.530 333	1.6 2084	28.5 Brahmin Broadcasting Corpo	107.5	86.4	
240A Wheatland	KPAD	RSV-A ____ WY	309.4 128.7	118.69	41 55 38.0 104 59 58.0	6.000 100	2.6 1680	26.8 Brahmin Broadcasting Corpo	109.3	88.4	
245D Wellington	644795	APP _C_ CO	234.5 53.8	108.89 BNPFT20030317DAZ	40 40 50.1 104 56 32.1	0.028 228	0.4 1822	10.5 Radio Assist Ministry, Inc	98.9	97.2	
244D Hurley	K298AK	LIC _C_ CO	169.0 349.2	110.88 BLFT20070404ABN	40 16 30.0 103 38 33.0	0.250 63	1.1 1378	8.3 Community Radio For Northe	100.6	100.0	

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.  
 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.  
 « = Station meets FCC minimum distance spacing for its class.

\* No actual interference will be caused to KCMI Terrytown since the predicted 100 dbu interference contour  
 will not cover any population. See the Technical Statement for more details.  
 \*\* Translator being modified by this application.

FIGURE 2, PREDICTED 100 DBU CONTOUR  
K243BL PINE BLUFFS, WY, CH. 242D

Coverage Study - NGDC 30 SEC  
03-20-2012

K243BL CH242 D , 0.205 kW, 52.2M HAAT, 1590.0M COR AMSL  
Interference Contour = 100 dBu. Population = 0

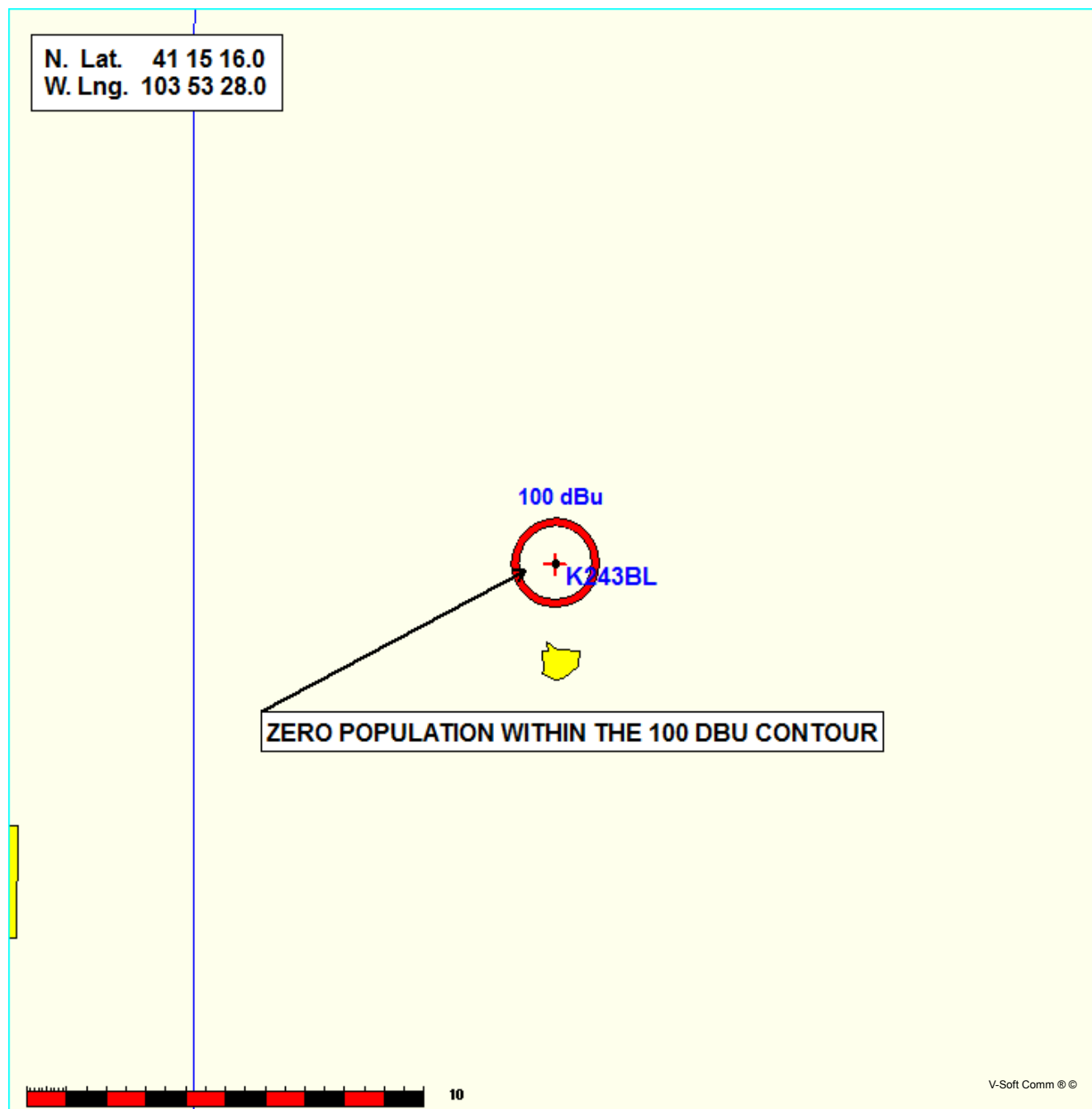
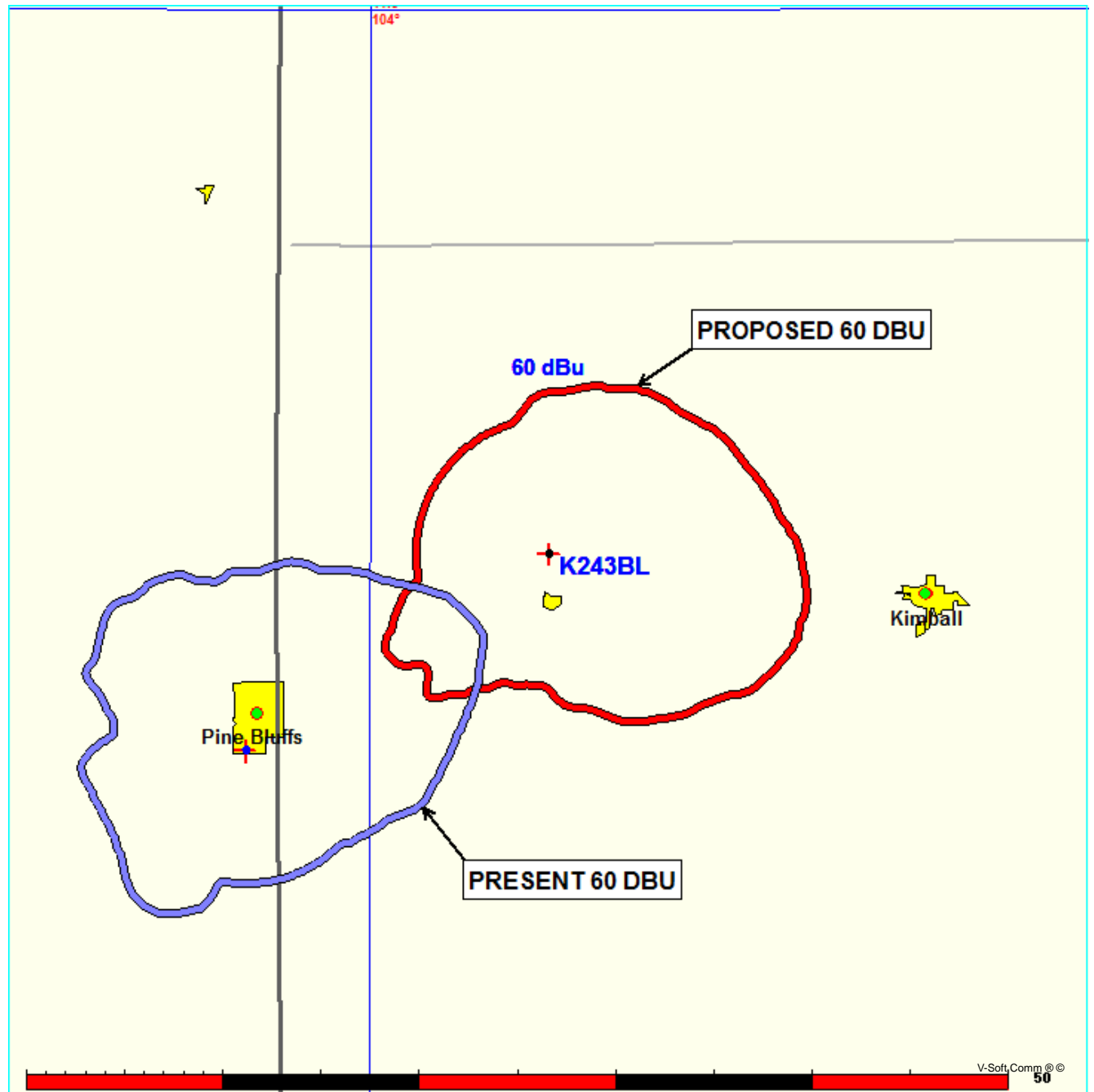


FIGURE 3, PRESENT AND PROPOSED 60 DBU CONTOURS  
K243BL PINE BLUFFS, WY, CH. 242D

Coverage Study - NGDC 30 SEC  
03-20-2012



Contour.out

N. Lat. = 411516.0 W. Lng. = 1035328.0  
 HAAT and Distance to Contour,  
 FCC, FM 2-10 Mi, 51 pts Method - NGDC 30 SEC

FIGURE 4, TABULATION OF DISTANCE TO CONTOURS, K243BL

Azi.	AV EL	HAAT	dBk	60-F5	100-F1
000	1546.9	43.1	-6.88	8.06	1.00
010	1544.2	45.8	-6.88	8.36	1.00
020	1540.5	49.5	-6.88	8.75	1.00
030	1533.5	56.5	-6.88	9.40	1.00
040	1529.9	60.1	-6.88	9.69	1.00
050	1523.7	66.3	-6.88	10.13	1.00
060	1514.1	75.9	-6.88	10.77	1.00
070	1507.1	82.9	-6.88	11.22	1.00
080	1496.8	93.2	-6.88	11.86	1.00
090	1481.2	108.8	-6.88	12.77	1.00
100	1470.7	119.3	-6.88	13.34	1.00
110	1471.7	118.3	-6.88	13.29	1.00
120	1482.7	107.3	-6.88	12.68	1.00
130	1505.1	84.9	-6.88	11.35	1.00
140	1516.2	73.8	-6.88	10.64	1.00
150	1528.2	61.8	-6.88	9.81	1.00
160	1540.5	49.5	-6.88	8.75	1.00
170	1547.9	42.1	-6.88	7.96	1.00
180	1558.4	31.6	-6.88	6.90	1.00
190	1559.7	30.3	-6.88	6.77	1.00
200	1557.9	32.1	-6.88	6.95	1.00
210	1547.1	42.9	-6.88	8.04	1.00
220	1532.5	57.5	-6.88	9.49	1.00
230	1540.1	49.9	-6.88	8.78	1.00
240	1530.8	59.2	-6.88	9.62	1.00
250	1545.5	44.5	-6.88	8.22	1.00
260	1564.0	26.0	-6.88	6.75	1.00
270	1583.6	6.4	-6.88	6.75	1.00
280	1585.7	4.3	-6.88	6.75	1.00
290	1581.6	8.4	-6.88	6.75	1.00
300	1580.5	9.5	-6.88	6.75	1.00
310	1570.0	20.0	-6.88	6.75	1.00
320	1571.0	19.0	-6.88	6.75	1.00
330	1567.1	22.9	-6.88	6.75	1.00
340	1562.2	27.8	-6.88	6.75	1.00
350	1554.1	35.9	-6.88	7.32	1.00

Ave EI = 1538.12 M HAAT= 51.88 M AMSL= 1590