

TECHNICAL STATEMENT  
K272EW LARAMIE, WYOMING  
MITCHELL A BERANEK  
FCC FORM 349  
JULY 2011

This Technical Statement is in support of FCC form 349 filed by Mitchell A Beranek for a minor change in the licensed facility of K272EW, facility ID 158251. It is proposing to reduce its Effective Radiated Power from 24 watts to 13 watts. Replace its directional antenna with a non-directional antenna, relocate to an existing 31 meter overall height tower site near Laramie, and one step channel change from 272D to 269D.

Figure 1 shows a channel interference study conducted from the proposed site for K272EW. It shows that the proposed operation of K272EW on channel 269D, will not cause any prohibited outgoing interference to any licensed or proposed FM services.

Figure 2 shows that the proposed K272EW will 60 dBμ overlap with the currently licensed operation of K272EW.

Figure 3 is a tabulation of distance to contours for the proposed operation of K272EW.

It was concluded that the new proposed operation of K272EW Laramie, Wyoming on channel 269D 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  
K272EW LARAMIE, WY, CH. 269D  
Average Protected F(50-50)= 10.73 km  
Omni-directional

REFERENCE  
41 13 58.0 N.  
105 26 40.0 W.

CH# 269D - 101.7 MHz, Pwr= 0.013 kW, HAAT= 294.6 M, COR= 2720 M  
Average Protected F(50-50)= 10.73 km  
Omni-directional

DISPLAY DATES  
DATA 07-16-11  
SEARCH 07-16-11

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* (Overlap in km)
272D Laramie	K272EW	LIC DC_ WY	355.1 175.1	8.7 BLFT20110103ACU	41 18 39.0 105 27 12.0	0.024 338	0.3 2744	7.5 Mitchell A. Beranek	0.9	0.9 *
270C2 Burns	KIGN	LIC _CN WY	101.0 281.5	66.4 BMLH19950920KD	41 07 01.0 104 40 07.0	50.000 150	73.8 1963	48.4 Townsquare Media	-17.6	3.7 Cheyenne
268D Cheyenne	K268BX	CP _C_ WY	101.1 281.5	55.0 BFPT20100224ABW	41 08 09.0 104 48 07.0	0.250 5	10.1 1879	7.1 Brahmin Broadcasting Corp.	34.6	33.6
269A Wheatland	KZEW	LIC _CN WY	24.4 204.8	99.4 BLH19850723KC	42 02 44.0 104 56 47.0	3.000 38	53.3 1503	13.2 Smith Broadcasting, Incorp	36.5	56.6
268D Cheyenne	K268BX	LIC _C_ WY	97.2 277.7	62.7 BLFT20090925ACB	41 09 37.0 104 42 13.0	0.099 82	8.8 1909	6.1 Brahmin Broadcasting Corp.	43.7	41.8
268C Strasburg	KJHM	LIC NCY CO	139.0 320.0	191.6 BMLH20081028ABX	39 55 22.0 103 58 18.0	97.000 625	138.6 2109	93.5 Max Radio Of Denver LLC	43.2	84.3
269C1 Eagle	KSKE-FM	LIC ZC_ CO	215.0 34.2	201.8 BLH20050915ADE	39 44 18.0 106 47 58.0	12.000 667	145.1 3171	62.0 Nrc Broadcasting Mountain	45.2	100.3
269D Loveland	K269EQ	LIC _C_ CO	164.9 345.0	85.0 BLFT20110103AAQ	40 29 37.0 105 10 53.0	0.010 338	25.0 2085	6.2 Mountain Community Transla	53.7	45.4
271C2 Hanna	KBDY	LIC NC_ WY	296.7 116.0	100.7 BLH20090109AHF	41 38 00.9 106 31 32.1	0.630 1050	1.7 3409	51.0 Toga Radio LLC	86.1	49.4
268D Loveland	K269EQ	CP DH_ CO	164.9 345.0	85.0 BFPT20110222AAS	40 29 37.0 105 10 53.0	0.250 338	7.6 2085	4.6 Mountain Community Transla	69.1	62.4
271A Estes Park	KRKY-FM	LIC _HX CO	183.8 3.7	97.1 BLH20070117AAE	40 21 38.0 105 31 12.0	6.000 25	4.2 2739	28.7 United States Cp, LLC	83.9	68.1
271D Fort Collins	KRKY-FM2	LIC DC_ CO	164.9 345.0	85.0 BLFTB20070404AAP	40 29 37.0 105 10 53.0	0.065	0.6 2090	9.9 United States Cp, LLC	75.6	74.8
267C0 Bridgeport	KOZY-FM	LIC _C_ NE	62.8 243.9	150.9 BLH20010827AAD	41 50 23.0 103 49 36.0	100.000 339	10.2 1630	71.9 Legacy Communications, LLC	130.1	78.8
271D Estes Park	K271BN	LIC DC_ CO	145.3 325.8	107.2 BLFT20100922ABN	40 26 15.0 104 43 25.0	0.250 69	1.1 1517	6.7 Mountain Community Transla	96.8	100.2
271D Estes Park	K271BN	CP D_ CO	145.3 325.8	107.2	40 26 15.0 104 43 25.0	0.240 67	1.1 1517	6.7 User	96.8	100.3
266C Denver	KOSI	LIC DC_ CO	173.9 354.0	167.9 BLH20020118AAJ	39 43 45.0 105 14 06.0	100.000 495	9.7 2262	64.1 Entercom Denver License, L	149.5	103.6
268D Commerce City	KJHM-FM1	LIC DC_ CO	164.2 344.6	179.6 BLFTB20050802ABY	39 40 31.0 104 52 22.0	20.000	60.1 1766	40.0 Max Radio Of Denver LLC	110.5	125.6
270C3 Centennial	KXWA	LIC NC_ CO	170.6 350.8	207.9 BLH20071207AAY	39 23 07.0 105 02 52.0	9.500 163	87.2 2226	58.5 Way-fm Media Group, Inc.	111.5	136.6
272D Boulder	KDSP-FM2	LIC DV_ CO	170.8 351.0	137.3 BLFTB20070725AEH	40 00 43.0 105 11 16.0	0.250	0.2 1661	4.6 Front Range Sports Network	128.0	132.5
270L1 Brighton	KAMV-LP	LIC ____ CO	159.1 339.5	147.7 BLL20061207ABW	39 59 21.8 104 49 26.9	0.100	8.0 1538	5.6 Alianza Ministerial Vision	130.6	128.8
267C Sinclair	AU7010615	VAC ____ WY	292.6 111.4	160.5 RMrf113	41 46 19.0 107 13 40.0	100.000 600	15.4 2753	95.1 Fcc	132.3	160.2
272A Greenwood Village	KDSP	LIC DCX CO	173.9 354.0	167.5 BLH20070514AGO	39 43 59.0 105 14 10.0	1.000 238	2.1 2256	31.6 Front Range Sports Network	156.3	135.6
271C1 Alliance	KPNY	LIC _CX NE	62.3 243.8	217.1 BMLD20061219ACM	42 07 01.0 103 07 09.0	100.000 159	7.3 1427	59.3 My Bridge Radio	199.2	157.5
271A Breckenridge	KSMT	LIC ZCX CO	194.6 14.2	199.2 BLH20070504ABR	39 29 44.0 106 01 44.0	6.000 -64	4.0 3250	34.5 Nrc Broadcasting Mountain	186.4	164.5
268C0 Wright	KDDV-FM	LIC _CX WY	2.8 183.0	307.7 BLH20081002AEA	43 59 57.0 105 15 15.0	100.000 335	105.1 1761	72.4 Legend Communications Of W	192.9	225.0

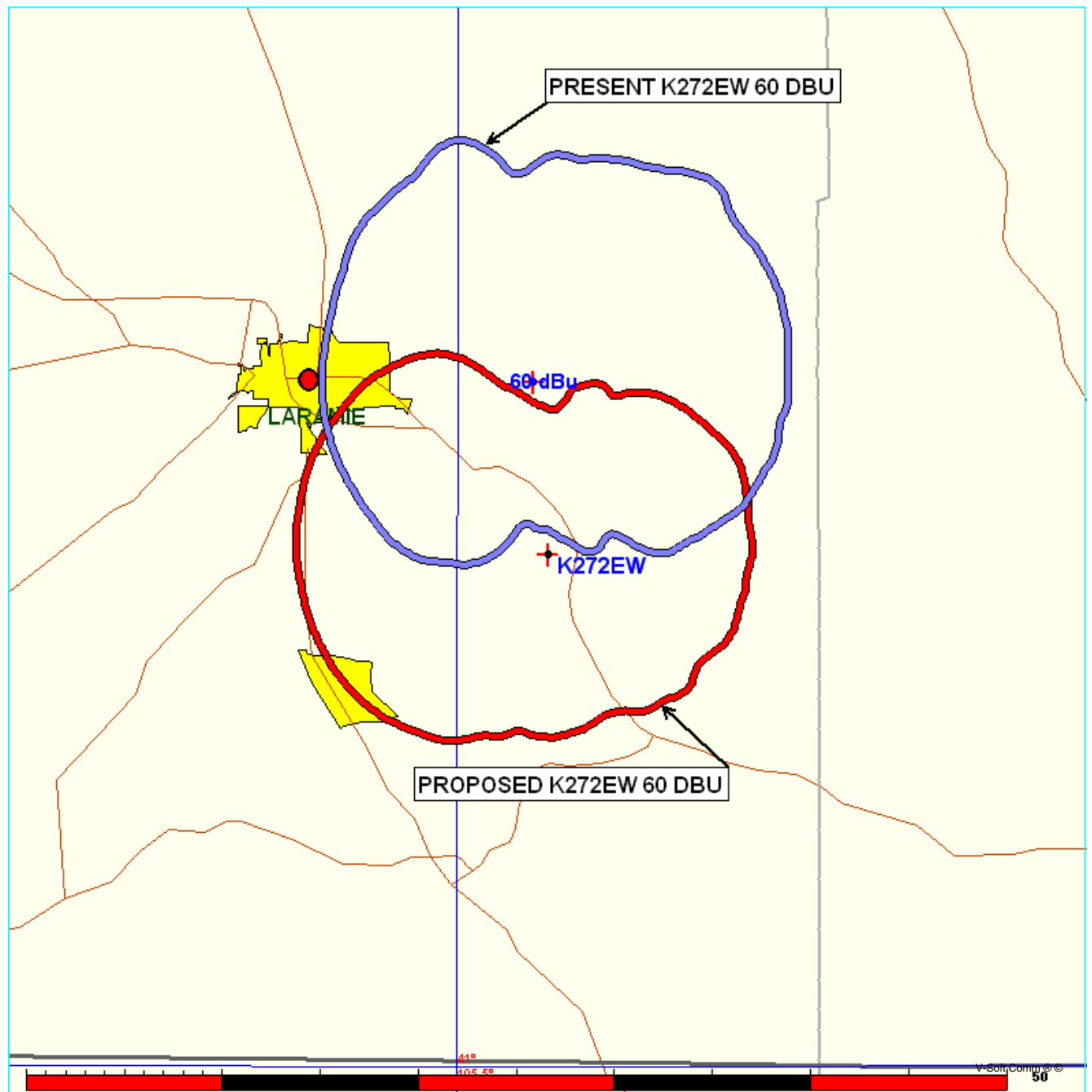
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CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap	*OUT* in km)
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269D Glenwood Springs	KSKE-FM1	LIC DV_		221.1 39.9	244.4 BLFTB20080529AEJ	39 33 40.0 107 19 00.0	0.600	23.4 2216	7.0 Nrc Broadcasting	209.2	198.7 Mountain
269A Rock Creek Park	KXCL	APP ZCX		169.6 350.0	280.7 BMPH20110303ABW	38 44 40.0 104 51 41.0	0.125 655	63.2 2905	17.6 United States	208.3 Cp, Llc	231.5
269A Rock Creek Park	KXCL	RSV-A ____		169.8 350.2	296.4	38 36 14.0 104 50 30.0	6.000 100	68.3 2033	15.8 United States	218.9 Cp, Llc	233.1

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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.  
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 BEING MODIFIED BY THIS APPLICATION.

FIGURE 2, PRESENT AND PROPOSED 60 DBU CONTOUR  
K272EW LARAMIE, WY, CH. 269D

Coverage Study - NGDC 30 SEC  
07-16-2011



Contour.out

N. Lat. = 411358.0 W. Lng. = 1052640.0  
 HAAT and Distance to Contour,  
 FCC, FM 2-10 Mi, 51 pts Method - NGDC 30 SEC

FIGURE 3, TABULATION OF DISTANCE TO CONTOURS, K272EW

Azi.	AV EL	HAAT	ERP kW	dB	60-F5	54-F1
000	2579.2	140.8	0.0130	-18.86	7.33	10.37
030	2495.4	224.6	0.0130	-18.86	9.37	13.09
060	2425.8	294.2	0.0130	-18.86	10.73	15.10
090	2437.4	282.6	0.0130	-18.86	10.51	14.69
120	2470.5	249.5	0.0130	-18.86	9.87	13.77
150	2499.4	220.6	0.0130	-18.86	9.28	12.98
180	2497.8	222.2	0.0130	-18.86	9.32	13.02
210	2414.1	305.9	0.0130	-18.86	10.92	15.46
240	2319.2	400.8	0.0130	-18.86	12.38	18.32
270	2281.8	438.2	0.0130	-18.86	12.87	19.41
300	2277.8	442.2*	0.0130	-18.86	12.92	19.51
330	2369.0	351.0	0.0130	-18.86	11.68	16.83

Ave EI = 2422.28 M HAAT= 297.72 M AMSL= 2720

\* HIGHEST RADIAL, MERP LIMITED TO 0.013 KW