

TECHNICAL STATEMENT
K268BW PINECLIFFE, COLORADO
MOUNTAIN COMMUNITY TRANSLATORS, LLC
FCC FORM 349
NOVEMBER 2009

This Technical Statement is made in support of a modification of Construction Permit (BPFT-20090831AAD) application for FM translator station, K268BW licensed to Pinecliffe, Colorado. K268BW seeks to “one step” channel change from its present licensed operation on channel 268D to its third adjacent channel spaced channel of 271D. It also seeks to increase its Effective Radiated Power from 5 watts to 8 watts, and add the use of a directional antenna system. The following will show that the new proposed operation of K268BW will meet all of the Commission's technical requirements for an FM translator station.

The new proposed operation of K268BW specifies a maximum Effective Radiated Power of 8 watts. It will operate with a directional antenna with an “off the shelf” type antenna, or a Scala Model CA-5-CP, circular polarized yagi type antenna with its maximum lobe oriented at 100 degrees. The antenna will be mounted on an existing tower with an over height of 13 meters above the ground. The antenna will be mounted with a Center of Radiation of 12 meters above the ground, and 3343 meters Above Mean Sea Level. The coordinates of this tower are located at N 39° 52' 09”, W 105° 33' 09”. There are no other antennas mounted on this tower at this time, except for the current K268BW antenna, which will be exchanged with the new Scala antenna.

Figure 1 is a detailed interference study conducted on channel 271D with these new proposed facilities. It shows that the new operation of K268BW will not cause any

interference to any existing or proposed FM stations on any of the pertinent CO or adjacent channels to channel 271.

Figure 2 is a more detailed interference study conducted against KRKY-FM Estes Park, CO on channel 271A, facility ID 76780.

Figure 3 is a more detailed interference study conducted against KKHI Centennial, CO on channel 270C3, facility ID 70822.

Figure 4 is a more detailed interference study conducted against KCUV Greenwood Village, CO on channel 272A, facility ID 37028.

Figure 5 is the directional antenna data for the proposed Scala CA-5-CP antenna system proposed to be used.

Since no change in the transmitter location for K268BW is proposed, it can be assumed that the current and proposed operation's 60 dbμ will overlap with each other as required.

It was found that the new proposed operation of K268BW Pinecliffe, Colorado on channel 271D, will satisfy all of the required commission rules and regulations for an FM translator station.

FIGURE 1, CHANNEL INTERFERENCE STUDY

K268BW PINECLIFFE, CO, CHANNEL 271D

REFERENCE CH# 271D - 102.1 MHz, Pwr= 0.008 kW, HAAT= 461.3 M, COR= 3343 M DISPLAY DATES
39 52 09.0 N. Average Protected F(50-50)= 11.53 km DATA 11-24-09
105 33 09.0 W. Standard Directional SEARCH 11-24-09

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* (in km)
268D Pinecliffe	K268BW	LIC _C_	0.0 0.0	0.0 BLFT20090810ACH	39 52 09.0 105 33 09.0	0.005	0.2 3343	10.3 Mountain Community Transla	-3.4*	-10.3*
271A Estes Park	KRKY-FM	LIC _HX	2.9 182.9	54.6 BLH20070117AAE	40 21 38.0 105 31 12.0	6.000 25	68.3 2739	15.8 Nrc Broadcasting, Inc.	-17.8*<	2.0
270C3 Centennial	KKHI	LIC NC_	141.1 321.4	69.0 BLH20071207AAY	39 23 07.0 105 02 52.0	9.500 163	62.3 2226	42.2 Bustos Media Of Colorado L	-5.2<	1.3
272A Greenwood Village	KCUV	LIC DCX	119.1 299.3	31.0 BLH20070514AGO	39 43 59.0 105 14 10.0	1.000 238	10.2 2256	7.1 Nrc Broadcasting, Inc.	8.7	2.0
271A Breckenridge	KSMT	LIC ZCX	224.6 44.3	58.2 BLH20070504ABR	39 29 44.0 106 01 44.0	6.000 -64	39.7 3250	11.0 Nrc Broadcasting Mountain	7.5	25.8
270D Golden	640689	APP DV_	119.7 299.9	31.3 BNPFT20030314BOM	39 43 46.0 105 14 08.0	0.010	1.3 2244	0.7 Mary Medicus	17.8	7.6
271D Fort Collins	KRKY-FM2	LIC DC_	24.3 204.5	76.2 BLFTB20070404AAP	40 29 37.0 105 10 53.0	0.065	55.8 2090	17.1 Nrc Broadcasting, Inc.	9.7	40.3
272D Boulder	KCUV-FM2	LIC DV_	62.8 243.1	35.0 BLFTB20070725AEH	40 00 43.0 105 11 16.0	0.250	9.0 1661	6.3 Nrc Broadcasting, Inc.	15.3	12.2
269D Boulder	K269AE	LIC DHN	70.5 250.7	30.6 BLFT221	39 57 38.0 105 12 52.0	0.103 -58	0.7 1747	5.7 Wilks License Company-denv	19.5	24.8
269D Evergreen	K269CL	LIC DHN	140.5 320.7	35.4 BLFT19950811TB	39 37 24.0 105 17 24.0	0.035 354	0.3 2646	12.8 Citicasters Licenses, Inc.	26.5	22.4
274D Berthoud	K274BW	LIC DC_	62.8 243.1	35.0 BLFT20090623ACK	40 00 43.0 105 11 16.0	0.250	1.1 1673	7.0 Community Radio For North	24.6	27.8
270D Sedalia	KKHI-FM2	LIC _C_	141.1 321.4	69.1 BLFTB20031020AAB	39 23 06.0 105 02 51.0	0.099	27.7 2355	18.7 Bustos Media Of Colorado L	31.2	30.1
269C1 Eagle	KSKE-FM	LIC ZC_	262.6 81.8	107.8 BLH20050915ADE	39 44 18.0 106 47 58.0	12.000 667	6.7 3171	77.0 Nrc Broadcasting Mountain	99.4	30.8
270D Granby	K270AL	LIC DC_	300.3 120.0	37.9 BLFT20070329AOS	40 02 24.0 105 56 11.0	0.010	1.2 2530	0.6 Nrc Broadcasting Mountain	34.0	32.5
270L1 Brighton	KAMV-LP	LIC _	77.6 258.1	63.7 BLL20061207ABW	39 59 21.8 104 49 26.9	0.100	2.7 1538	2.0 Alianza Ministerial Vision	43.9	41.1
268C Strasburg	KTNI-FM	LIC NC_	87.0 268.0	135.3 BMLH20081028ABX	39 55 22.0 103 58 18.0	97.000 625	14.0 2109	92.8 Max Radio Of Denver Llc	109.9	42.4
274C Manitou Springs	KBIQ	LIC _C_	154.3 334.8	138.3 BMLH20030423AAT	38 44 43.0 104 51 39.0	72.000 695	13.6 2946	94.1 Bison Media, Inc.	118.3	44.0
274D Dillon	K274AG	LIC _CN	237.3 57.0	52.4 BLFT19950814TD	39 36 50.0 106 04 02.0	0.095 -345	0.7 2866	5.6 Nrc Broadcasting Mountain	50.0	46.8
268D Commerce City	KTNI-FM1	LIC DC_	110.1 290.6	62.1 BLFTB20050802ABY	39 40 31.0 104 52 22.0	20.000	0.5 1766	10.3 Max Radio Of Denver Llc	47.4	51.6
273C2 Loveland	KTRR	LIC NCX	35.7 216.2	106.2 BLH20051107AEI	40 38 31.0 104 49 03.0	17.000 234	5.6 1793	52.2 Regent Broadcasting Of Ft.	97.7	53.8
269C1 Eagle	KSKE-FM	CP _CX	265.1 84.3	112.7 BPH20061002BXC	39 46 32.0 106 51 48.0	10.500 696	5.6 3178	57.6 Nrc Broadcasting Mountain	105.4	55.1
271D Estes Park	K271BN	LIC DC_	47.8 228.4	94.7 BLFT20091103ABR	40 26 15.0 104 43 25.0	0.041	11.2 1525	3.5 Mountain Community Transla	73.3	60.4
273C2 Gypsum	KQSE	LIC _C_	262.6 81.8	107.8 BLH20080222ABW	39 44 18.0 106 47 58.0	0.480 660	1.5 3161	44.3 Wildcat Communications, L.	104.6	63.5
272D Westcreek	631679	APP _C_	149.9 330.2	88.9 BNPFT20030310BGJ	39 10 33.0 105 02 03.1	0.010	10.7 2823	7.5 Way-fm Media Group, Inc.	67.3	66.0
270C2 Burns	KIGN	LIC _CN WY	28.0 208.6	157.5 BMLH19950920KD	41 07 01.0 104 40 07.0	50.000 150	71.3 1963	46.2 Gap Broadcasting Cheyenne	78.1	105.8

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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	*OUT* in km)	
273D Vail	633930	APP CO	DC_	251.4 70.9	80.9 BNPFT20030313AQS	39 38 05.0 106 26 47.0	0.010	0.1 2963	2.0 Educational	79.1	78.9 Communications	
271C2 Hanna	KBDY	LIC WY	NC_	337.6 157.0	212.5 BLH20090109AHF	41 38 00.9 106 31 32.1	0.630 1050	122.1 3409	50.5 Toga Radio Llc	87.2	147.9	
272A Limon	R11735	ADD CO	___	112.1 293.3	173.7	39 16 00.0 103 41 15.0	6.000 100	40.9 1780	26.5 White Park Broadcasting	120.2	126.3	
269C2 Westcliffe	KXCL	CP CO	ZHX	171.7 351.9	182.9 BPH20080606AES	38 14 18.0 105 14 58.0	17.500 258	5.3 2724	49.2 United States Cp, Llc	173.7	133.6	
269D Glenwood Springs	KSKE-FM1	LIC CO	DV_	257.8 76.6	155.1 BLFTB20080529AEJ	39 33 40.0 107 19 00.0	0.600	1.4 2216	10.2 Nrc Broadcasting Mountain	152.0	144.8	
272C1 Walsenburg	KSPK	LIC CO	_CX	165.5 346.0	256.8 BMLH20030103ABF	37 37 39.0 104 49 17.0	100.000 131	94.9 2085	64.0 Mainstreet Broadcasting Co	153.2	186.6	
272A Gunnison	KVLE-FM	LIC CO	_CN	219.7 38.8	187.3 BLH19800425AB	38 33 53.0 106 55 38.0	3.000 -140	19.5 2418	13.2 Pilgrim Communications, In	164.4	168.8	
270C2 Olathe	AL9051	VAC CO	_N	236.9 55.3	252.4 RM9438	38 36 18.0 107 58 54.0	50.000 150	74.2 1866	48.7 Mountain West Broadcasting	174.7	198.5	

Terrain database is USGS 03 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 = 2, 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.

FIGURE 2, KRKY-FM DETAILED STUDY
K268BW PINECLIFFE, CO, CHANNEL 271D

FMCommander Single Allocation Study - 11-24-2009 - USGS 03 SEC
K268BW's Overlaps (In= -17.83 km, Out= 1.95 km)

K268BW CH 271 D DA
Lat= 39 52 09.0, Lng= 105 33 09.0
0.008 kW 461.3 M HAAT, 3343 M COR
Prot.= 60 dBu, Intef.= 40 dBu

KRKY-FM CH 271 A BLH20070117AAE
Lat= 40 21 38.0, Lng= 105 31 12.0
6.0 kW 25 M HAAT, 2739 M COR
Prot.= 60 dBu, Intef.= 40 dBu

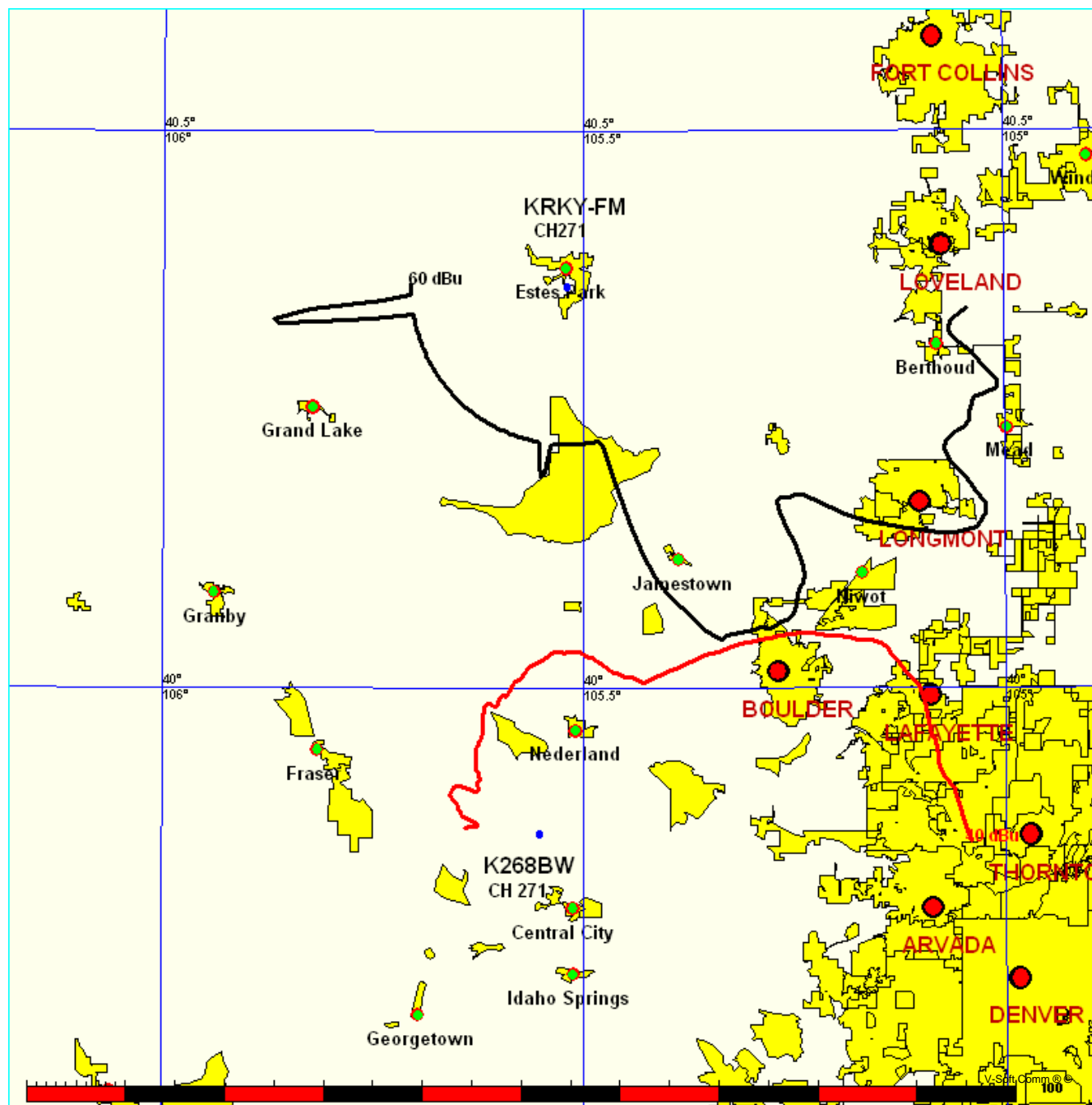


FIGURE 3, KKHI DETAILED STUDY
K268BW PINECLIFFE, CO, CHANNEL 271D

FMCommander Single Allocation Study - 11-24-2009 - USGS 03 SEC
K268BW's Overlaps (In= -5.15 km, Out= 1.28 km)

K268BW CH 271 D DA
Lat= 39 52 09.0, Lng= 105 33 09.0
0.008 kW 461.3 M HAAT, 3343 M COR
Prot.= 60 dBu, Intef.= 54 dBu

KKHI CH 270 C3 73.215 N BLH20071207AAY
Lat= 39 23 07.0, Lng= 105 02 52.0
9.5 kW 163 M HAAT, 2226 M COR
Prot.= 60 dBu, Intef.= 54 dBu

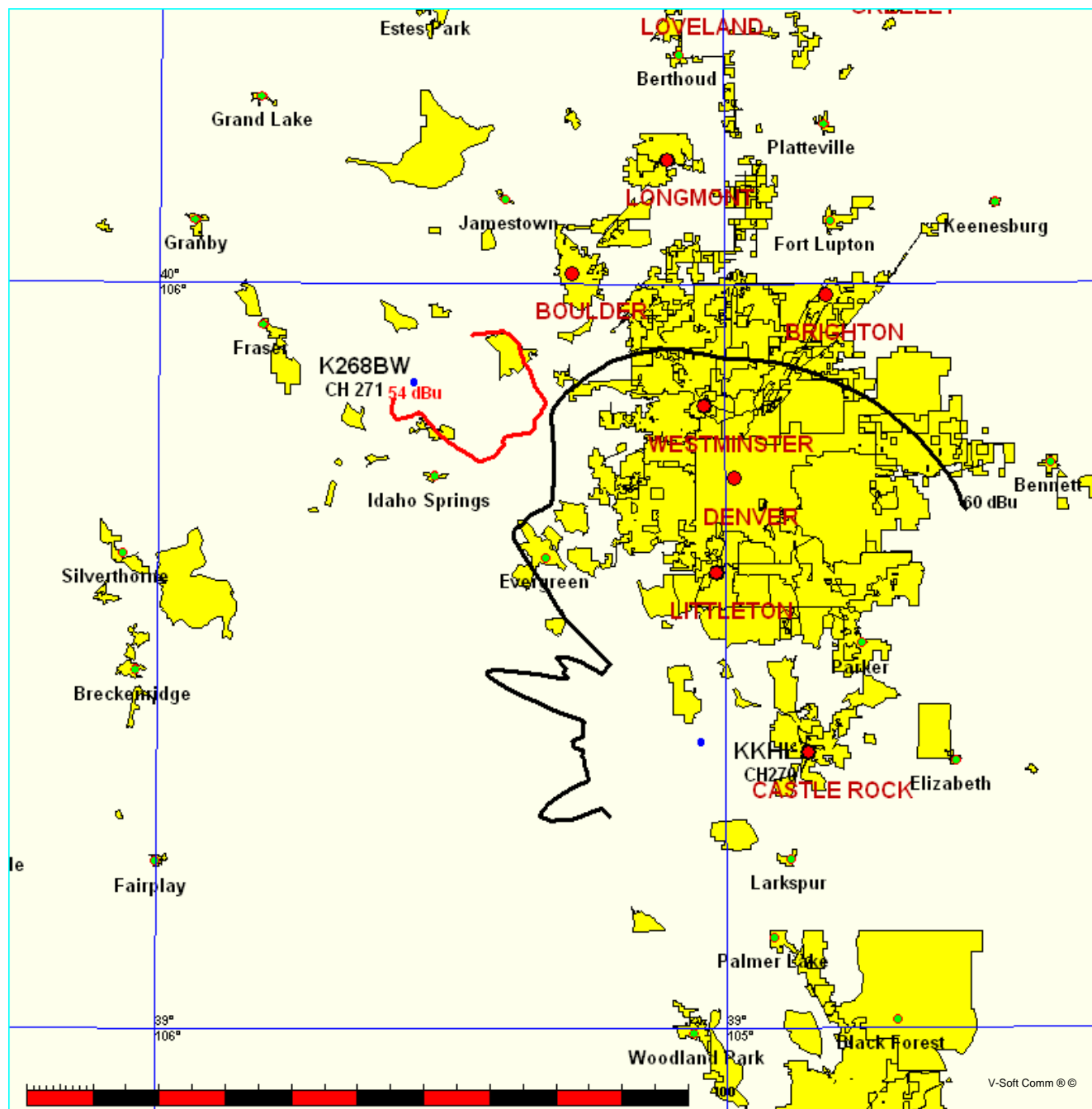


FIGURE 3, KCUV DETAILED STUDY
K268BW PINECLIFFE, CO, CHANNEL 271D

FMCommander Single Allocation Study - 11-24-2009 - USGS 03 SEC
K268BW's Overlaps (In= 8.7 km, Out= 1.98 km)

K268BW CH 271 D DA
Lat= 39 52 09.0, Lng= 105 33 09.0
0.008 kW 461.3 M HAAT, 3343 M COR
Prot.= 60 dBu, Intef.= 54 dBu

KCUV CH 272 A DA BLH20070514AGO
Lat= 39 43 59.0, Lng= 105 14 10.0
1.0 kW 238 M HAAT, 2256 M COR
Prot.= 60 dBu, Intef.= 54 dBu

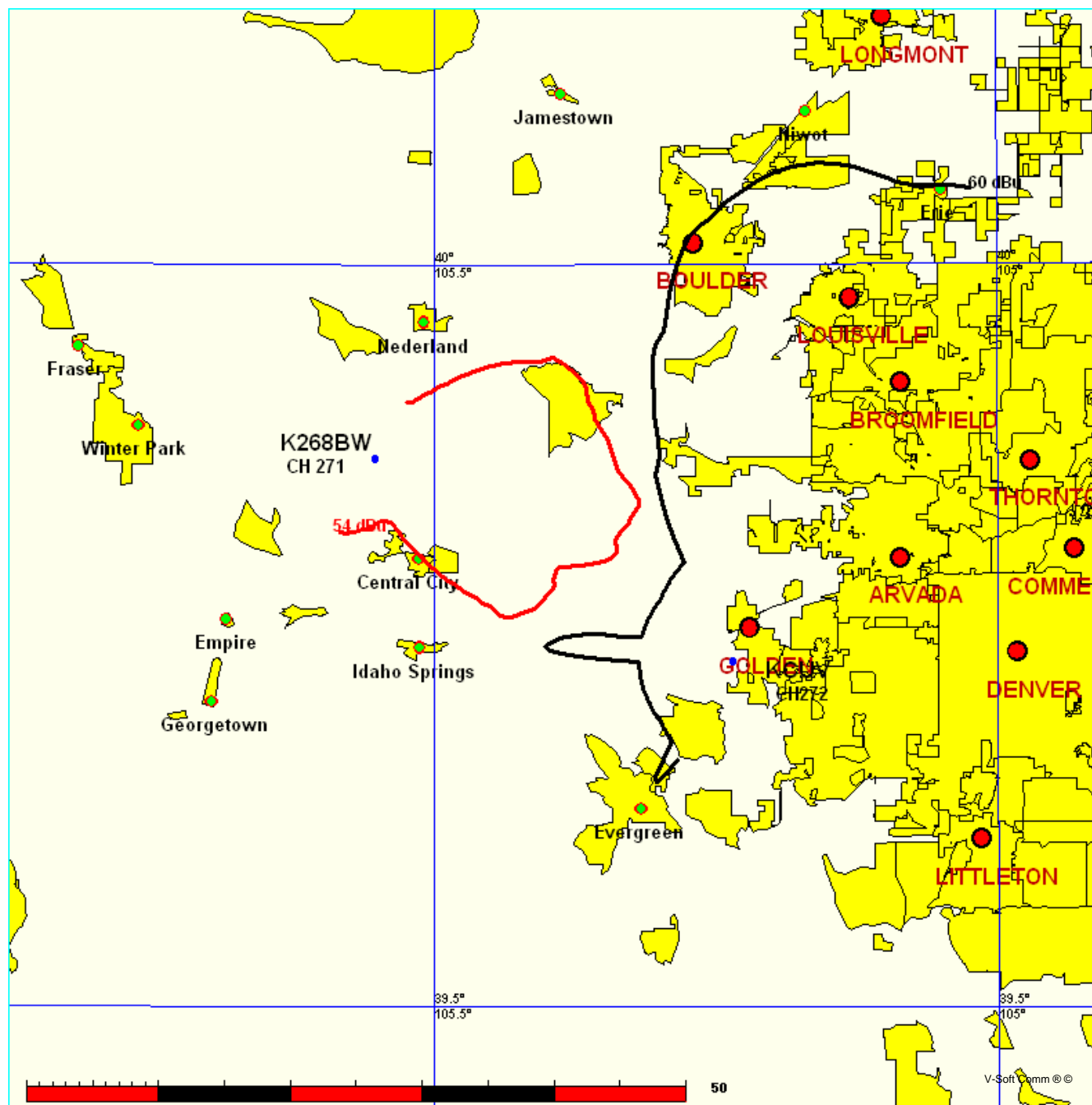


FIGURE 5, DIRECTIONAL ANTENNA DATA.

11-24-2009

RMS(V) = .433

SCALA MODEL CA-5-CP
Bearing Field % Voltage

Graph is Percent Relative Field Voltage

000	=	0.181
010	=	0.157
020	=	0.142
030	=	0.134
040	=	0.190
050	=	0.329
060	=	0.528
070	=	0.718
080	=	0.866
090	=	0.952
100	=	1.000
110	=	0.952
120	=	0.866
130	=	0.718
140	=	0.528
150	=	0.329
160	=	0.190
170	=	0.134
180	=	0.142
190	=	0.157
200	=	0.181
210	=	0.187
220	=	0.171
230	=	0.140
240	=	0.123
250	=	0.135
260	=	0.160
270	=	0.182
280	=	0.193
290	=	0.182
300	=	0.160
310	=	0.135
320	=	0.123
330	=	0.140
340	=	0.171
350	=	0.187

