

EXHIBIT E-1
TECHNICAL STATEMENT
K232EF ESTES PARK, COLORADO 229D
CEDAR COVE BROADCASTING, INC.
FCC FORM 349
JUNE 2010

This Technical Statement is in support of FCC form 349 filed by Cedar Cove Broadcasting, Inc. for a minor change in the licensed facility of K232EF, facility ID 142150. It is proposing to relocate its current licensed tower site to an existing tower site known as "Lee Hill" located at N. 40°-04'-20", W. 105°-21'-12", NAD 27, with an Effective Radiated Power of 90Watts (0.090 KW) and utilizing a Scala model H5FMH-2 custom offset mounted, two yagi, directional horizontal only, type antenna. The antenna will be mounted at the 26 meter level on a 50 meter overall, unregistered, existing tower, with a Center of Radiation at 2425 meters Above Mean Sea Level. Its also seeks to "one step" change channels from 232D to 229D, or its third adjacent channel.

Figure 1 shows a channel interference study conducted from the proposed site for K232EF. It shows that the proposed operation of K232EF on channel 229D, will not cause any prohibited outgoing interference to any licensed or proposed FM services, with the exception of KTCL Wheat Ridge, Colorado operating on channel 227C1, facility ID 68684. The proposed operation of K232EF on 232D is located within the protected 60 dB μ contour of 2nd adjacent station KTCL. Figure 2 shows the predicted F(50-50) field strength of KTCL at the proposed K232EF transmitter site is 68.9 dB μ . Therefore, the respective predicted interfering contour F(50-10) generated by the proposed K232EF on channel 229D is an additional 40 dB μ or 108.9 dB μ . Figure 3 shows the coverage area for the 108.9 dB μ interference contour F(50-10) and shows that there is no population in

the area of interference. The applicant, Cedar Cove Broadcasting, Inc., 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 is a privately owned 40 acre wooded area, with private access. The transmitter building is uninhabited and does not have indoor plumbing.

Figure 4 shows a more detailed interference study with K288EX Lakewood, Colorado, facility ID 140231 on channel 229D. There will be no overlap of the proposed K232EF 40 dB μ interference contour and the protected 60 dB μ of K288EX on channel 229D.

Figure 5 shows the proposed 60 dB μ of K232EF will be completely contained inside of the current 60 dB μ predicted coverage contour of the station being rebroadcast, KLDV Morrison, Colorado on channel 216C0, facility ID 12354. The proposed operation of K232EF will be considered a "fill-in" translator for KLDV, thus some of the maximum allowable ERP limits on some of the pertinent radials will be exceeded. However, the maximum ERP on any radial will not exceed 90 watts, thus this proposed operation is in compliance with 74.1235(a).

Figure 6 shows that the proposed operation of K232EF will 60 dB μ overlap with the currently licensed operation of K232EF as required.

Figure 7 shows the antenna polar plot of the proposed directional composite antenna system.

Figure 8 is a tabulation of distance to contours for the pertinent contours proposed by K232EF on channel 229D.

It was concluded that the new proposed operation of K232EF Estes Park, Colorado on channel 229D will not cause any harmful interference to any existing stations, and will be in full compliance with the commission's rules.

FIGURE 1, DETAILED INTERFERENCE STUDY
 K232EF ESTES PARK, COLORADO, CHANNEL 229D
 REFERENCE CH# 229D - 93.7 MHz, Pwr= 0.09 kW DA, HAAT= 288.3 M, COR= 2425 M
 40 04 20.0 N. DISPLAY DATES
 105 21 12.0 W. DATA 06-23-10
 Standard Directional SEARCH 06-23-10

CH	CALL CITY	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap	*OUT* in km)
232D	K232EF * Estes Park	LIC CO	DV_	325.6 145.5	29.7 BLFT20100510ABX	40 17 34.0 105 33 05.0	0.250	0.9 2917	21.3 Cedar Cove Broadcasting, I	20.7	7.8 *
229D	K229AC Ward	LIC CO	E_	232.2 52.1	18.0 BLFT20061218ACR	39 58 22.0 105 31 13.0	0.028	49.1 2655	14.5 Boulder Community Broadcas	-30.7*<	1.6
229C1	KIIQ Limon	RSV CO	—	118.1 299.2	161.8	39 22 34.0 103 41 43.0	100.000 299	170.4 1996	72.3 Percheron Associates, Llc	-18.5*<	48.0
227C1	KTCL ** Wheat Ridge	LIC CO	DCX	165.1 345.2	39.0 BLH20070621AQR	39 43 59.0 105 14 10.0	71.000 346	6.7 2256	57.0 Citicasters Licenses, Inc.	25.5	-18.0*< **
229D	K288EX Lakewood	APP CO	DC_	165.2 345.3	39.4 BPFT20100405AAH	39 43 46.0 105 14 08.0	0.099	48.8 2246	16.7 Mountain Community Transla	-14.6*<	0.5
230A	KRKU Loveland	CP CO	ZCX	17.2 197.3	49.0 BPH20100302ACE	40 29 37.0 105 10 53.0	0.580 319	49.0 2098	31.9 Laramie Mountain Broadcast	-10.4<	3.8
229C1	KIIQ Limon	APP CO	NCX	118.1 299.2	161.8 BPH20070313ABN	39 22 34.0 103 41 43.0	100.000 205	160.6 1901	64.6 Percheron Associates, Llc	-8.7<	56.0
230A	KRKU Loveland	LIC CO	NCX	17.2 197.3	49.0 BLH20100302ABS	40 29 37.0 105 10 53.0	0.300 319	41.8 2098	27.1 Laramie Mountain Broadcast	-3.2<	8.9
229D	637466 Fort Collins	APP CO	C_	14.0 194.1	54.3 BNPFT20030317CVW	40 32 46.8 105 11 50.0	0.010	41.5 2188	10.7 Radio Assist Ministry, Inc	2.2	10.9
229C1	KIIQ Limon	CP CO	_CX	118.1 299.1	161.9 BPH20070313ABN	39 22 34.0 103 41 41.0	100.000 117	148.3 1823	56.1 Percheron Associates, Llc	3.6	64.7
229D	631534 Berthoud	APP CO	DE_	53.4 233.6	31.4 BNPFT20030312ADC	40 14 24.0 105 03 23.0	0.100	12.0 1637	5.5 Educational Communications	13.6	5.5
231D	K231AA Boulder	LIC CO	CN	139.7 319.8	15.6 BLFT19960111TK	39 57 54.0 105 14 05.0	0.205 -133	1.0 1719	6.7 Citicasters Licenses, Inc.	7.8	8.8
229C1	KRAI-FM Craig	LIC CO	CN	287.1 105.6	199.6 BLH6997	40 34 35.0 107 36 29.0	100.000 299	177.8 2315	76.0 Wild West Radio, Inc.	14.9	114.7
229C3	KAZY Cheyenne	LIC WY	CX	25.1 205.5	130.6 BLH20060615AAH	41 08 04.0 104 41 32.0	25.000 35	99.8 1859	22.7 Freisland Broadcasting Cor	20.5	86.2
230D	630344 Fort Lupton	APP CO	C_	90.3 270.7	51.3 BNPFT20030317AZW	40 04 05.0 104 45 08.0	0.170	16.1 1611	11.5 Horizon Christian Fellowsh	25.7	24.8
230A	KYSL Frisco	LIC CO	CN	228.8 48.3	86.8 BLH19940808KA	39 33 22.0 106 06 53.0	0.560 324	60.5 3549	41.9 Krystal Broadcasting, Inc	25.1	44.1
230D	644477 Fort Collins	APP CO	C_	14.0 194.1	54.3 BNPFT20030317GEQ	40 32 46.8 105 11 50.0	0.010	17.8 2188	12.2 Radio Assist Ministry, Inc	25.9	29.1
230D	644473 Fort Lupton	APP CO	C_	83.4 263.8	52.3 BNPFT20030317GEL	40 07 28.1 104 44 36.1	0.115	16.9 1630	11.8 Radio Assist Ministry, Inc	26.3	27.4
230D	631544 Windsor	APP CO	DE_	17.3 197.4	49.0 BNPFT20030312ADM	40 29 36.0 105 10 52.0	0.010	0.9 2078	7.7 Educational Communications	37.6	34.0
230D	650170 Timnath	APP CO	C_	27.1 207.4	64.2 BNPFT20030317IUB	40 35 08.0 105 00 23.0	0.250	10.1 1520	7.1 Educational Media Foundati	44.1	50.4
232C3	KMAX-FM Wellington	LIC CO	_CX	10.5 190.6	96.7 BLH20021101AAV	40 55 41.0 105 08 36.0	8.700 168	4.7 2131	49.3 Regent Trust	82.0	46.9
229C2	KSBV Salida	LIC CO	CX	197.6 17.2	189.2 BLH20020828AAQ	38 26 47.0 106 00 37.0	1.000 830	135.0 3572	59.4 Arkansas Valley Broadcasti	50.6	126.3
232C	KILO Colorado Springs	LIC CO	C_	163.9 344.2	153.3 BLH20070426AAL	38 44 44.0 104 51 42.0	79.000 670	16.1 2922	98.0 Colorado Springs Radio Bro	134.9	55.2
226C3	1170083 Walden	APP CO	HX	304.0 123.2	121.9 BNPH20070125ACD	40 40 42.0 106 33 00.0	25.000 14	6.3 2727	54.2 Laramie Mountain Broadcast	111.3	67.1
228D	K228EZ Buford	APP WY	DC_	6.4 186.5	112.2 BPFT20100511ACZ	41 04 35.0 105 12 15.0	0.250	27.9 2432	22.9 Mitchell A. Beranek	73.0	75.8

CH CITY	CALL	TYPE STATE	ANT <--	DIST FILE #	LAT LNG	PWR (kW) HAAT (M)	INT (km) COR (M)	Page # 2 PRO (km) LICENSEE (*IN* (Overlap in km))	*OUT*
227D Breckenridge	652035	APP CO	_C_	218.5 38.1	86.2 BNPFT20030317MPR	39 27 48.0 105 58 41.0	0.008	0.2	10.9 Mitchell A. Beranek 85.4 75.2
231C2 KEZZ Phippsburg	KEZZ	LIC CO	NCX	286.6 105.7	118.5 BLH20090522ACV	40 22 03.0 106 41 28.0	1.750 380	2.7	42.5 Youngers 113.1 Colorado 75.4 Broadcast
227D Breckenridge	634531	APP CO	DH_	218.4 38.0	86.6 BNPFT20030311AOY	39 27 35.0 105 58 46.0	0.070	0.5	10.8 Krystal Broadcasting 85.5 75.8
230D Westcreek	631674	APP CO	_C_	164.6 344.8	103.2 BNPFT20030310BGE	39 10 33.0 105 02 03.1	0.010	13.7	13.6 Way-fm Media Group, Inc. 82.9 86.4
228D Buford	K228EZ	LIC WY	_C_	6.6 186.7	112.5 BLFT20090415ADF	41 04 42.0 105 11 59.0	0.034	15.8	13.1 Mitchell A. Beranek 85.4 85.0
231D Byers	649226	APP CO	_C_	112.2 293.0	106.3 BNPFT20030312ARO	39 42 19.0 104 12 18.0	0.200	1.0	11.0 Frank G. Mccoy 95.4 95.2
226D Frisco	K226AH	LIC CO	DVN	242.8 62.1	105.4 BLFT19980717TD	39 38 05.0 106 26 47.0	0.150 72	0.8	5.5 Krystal Broadcasting, Inc. 103.9 99.7
228D Leadville	K228AG	LIC CO	DHN	218.6 38.0	114.4 BLFT19790511IC	39 15 54.0 106 10 54.0	0.107 546	8.2	7.5 Lake County 104.4 Tv-fm, Inc 106.6
226C3 Walden	AL7155	VAC CO	___	305.6 124.8	121.3 RM11387	40 42 01.0 106 31 21.0	25.000 100	6.7	0.0 Laramie 110.0 Mountain Broadcast 120.7
229A Limon	KIIQ	LIC CO	_CX	121.6 302.7	168.6 BLH20041025AEJ	39 16 00.0 103 41 15.0	1.000 -32	35.6	10.2 Percheron Associates, Llc 123.2 117.9
228L1 Laramie	KOCA-LP	LIC WY	___	352.1 171.9	139.2 BLL20021223AAQ	41 18 48.0 105 35 00.0	0.100	8.0	5.6 La Radio Montanesa: Voz De 119.7 119.2
228C3 Aspen	KTND	CP CO	_CX	239.0 58.0	161.3 BNPH20070501AAQ	39 18 56.0 106 57 32.0	21.000 109	34.2	24.4 Bs&t Wireless, Inc. 125.2 135.7
228A Aspen	AU7052710	VAC CO	___	232.4 51.5	159.4 RM9994	39 11 24.0 106 49 06.0	6.000 100	23.5	35.5 Roaring Forks Broadcasting 134.3 138.9
231C1 Scottsbluff	KNEB-FM	LIC NE	_CN	37.3 218.4	229.4 BLH19810904AB	41 42 04.0 103 40 49.0	100.000 207	7.3	57.3 Nebraska Rural Radio Assoc 221.2 171.7
227C0 Gering	KMOR	LIC NE	NCX	32.6 213.6	234.6 BLH20070827AED	41 50 23.0 103 49 36.0	100.000 311	9.1	61.6 Legacy Communications, Llc 224.6 172.7

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.

* Translator being modified by this application

** Protection will be afforded to KRKS since there is no population located inside of the proposed interference contour for K232EF. See the attached Technical Statement for further details.

FIGURE 2, KTCL 68.9 DBU CONTOUR AT THE K232EF SITE
K232EF ESTES PARK, COLORADO, CHANNEL 229D

Coverage Study - USGS 03 SEC
06-24-2010

K232EF CH229 D , 0.09 kW, 288.3M HAAT, 2425.0M COR AMSL
Service Contour = 68.9 dBu.

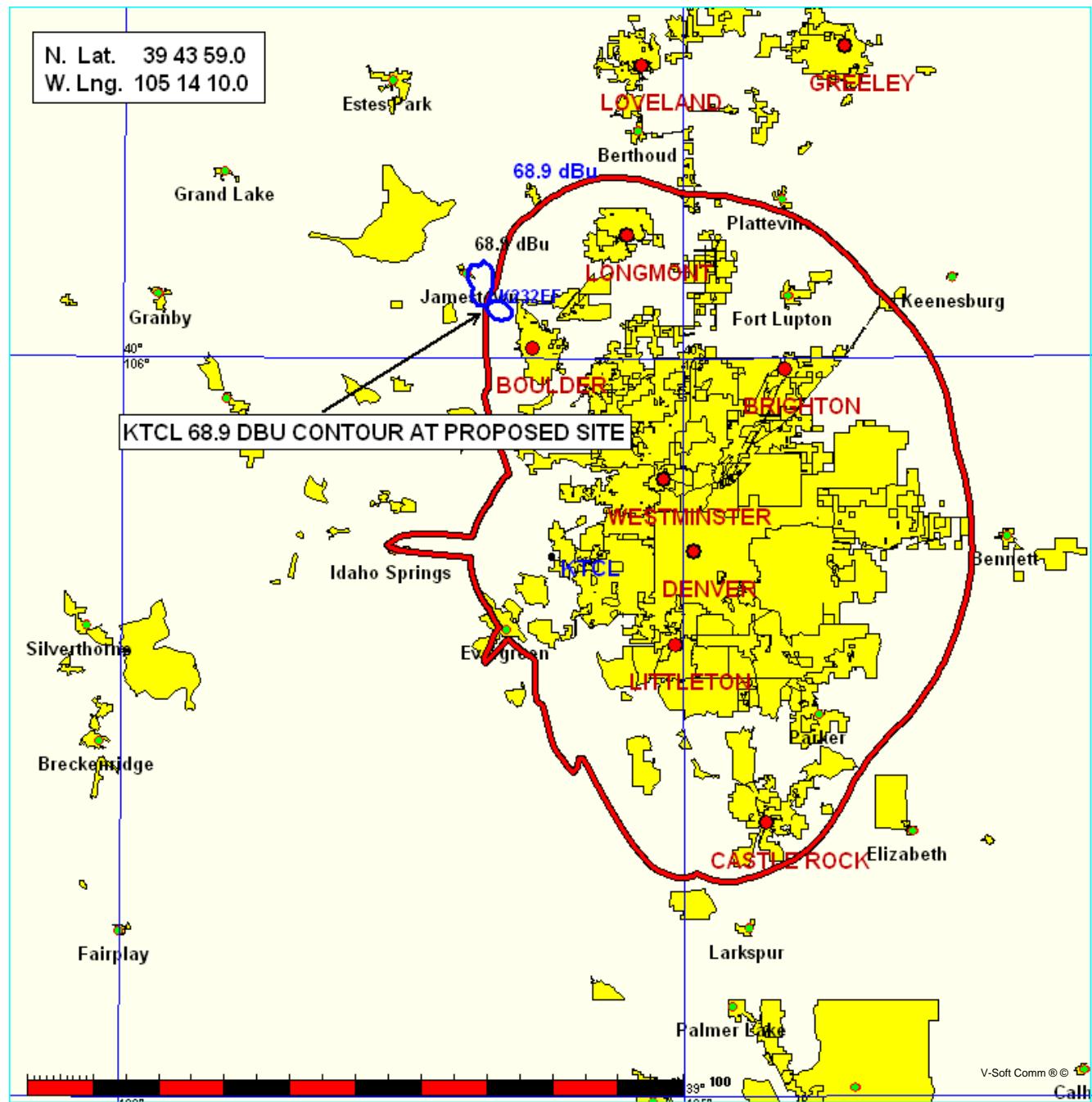


FIGURE 3, PREDICTED 108.9 DBU INTERFERENCE CONTOUR
K232EF ESTES PARK, COLORADO, CHANNEL 229D

Coverage Study - USGS 03 SEC
06-24-2010

K232EF CH229 D , 0.09 kW, 288.3M HAAT, 2425.0M COR AMSL
Interference Contour = 108.9 dBu. Population = 0

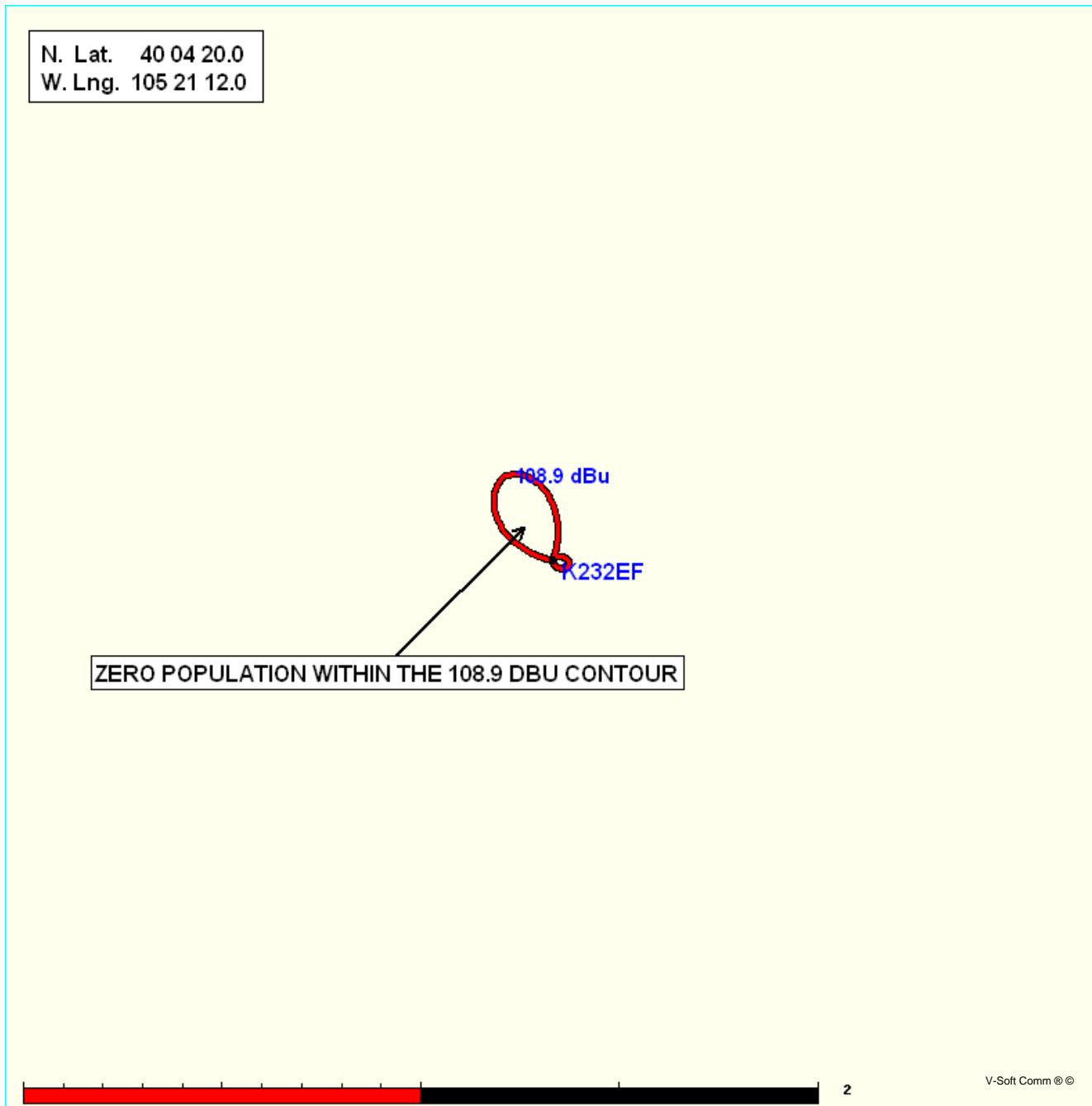


FIGURE 4, DETAILED STUDY WITH K288EX LAKWOOD, CO
K232EF ESTES PARK, COLORADO, CHANNEL 229D

FMCommander Single Allocation Study - 06-23-2010 - USGS 03 SEC
K232EF's Overlaps (In= 2.32 km, Out= 17.73 km)

K232EF CH 229 D DA
Lat= 40 04 20.0, Lng= 105 21 12.0
0.09 kW 288.3 M HAAT, 2425 M COR
Prot.= 60 dBu, Intef.= 40 dBu

K288EX.A CH 229 D DA BPFT20100405AAH
Lat= 39 43 46.0, Lng= 105 14 08.0
0.099 kW 0 M HAAT, 2246 M COR
Prot.= 60 dBu, Intef.= 40 dBu

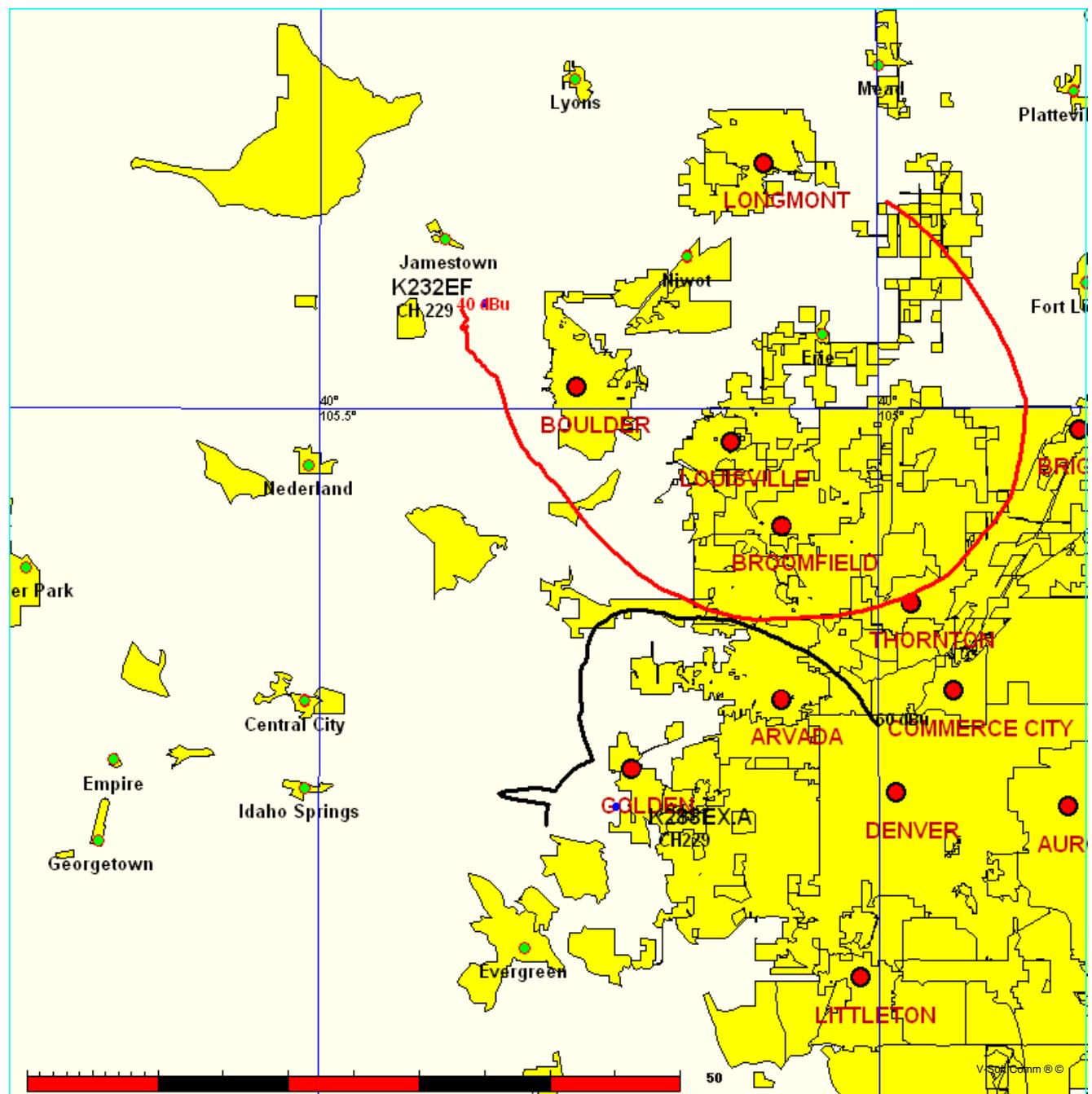


FIGURE 5, FILL IN STUDY WITH KLDV MORRISON, CH. 216C0
K232EF ESTES PARK, COLORADO, CHANNEL 229D

Coverage Study - USGS 03 SEC
06-23-2010

K232EF CH229 D , 0.09 kW, 288.3M HAAT, 2425.0M COR AMSL
Service Contour = 60 dBu.

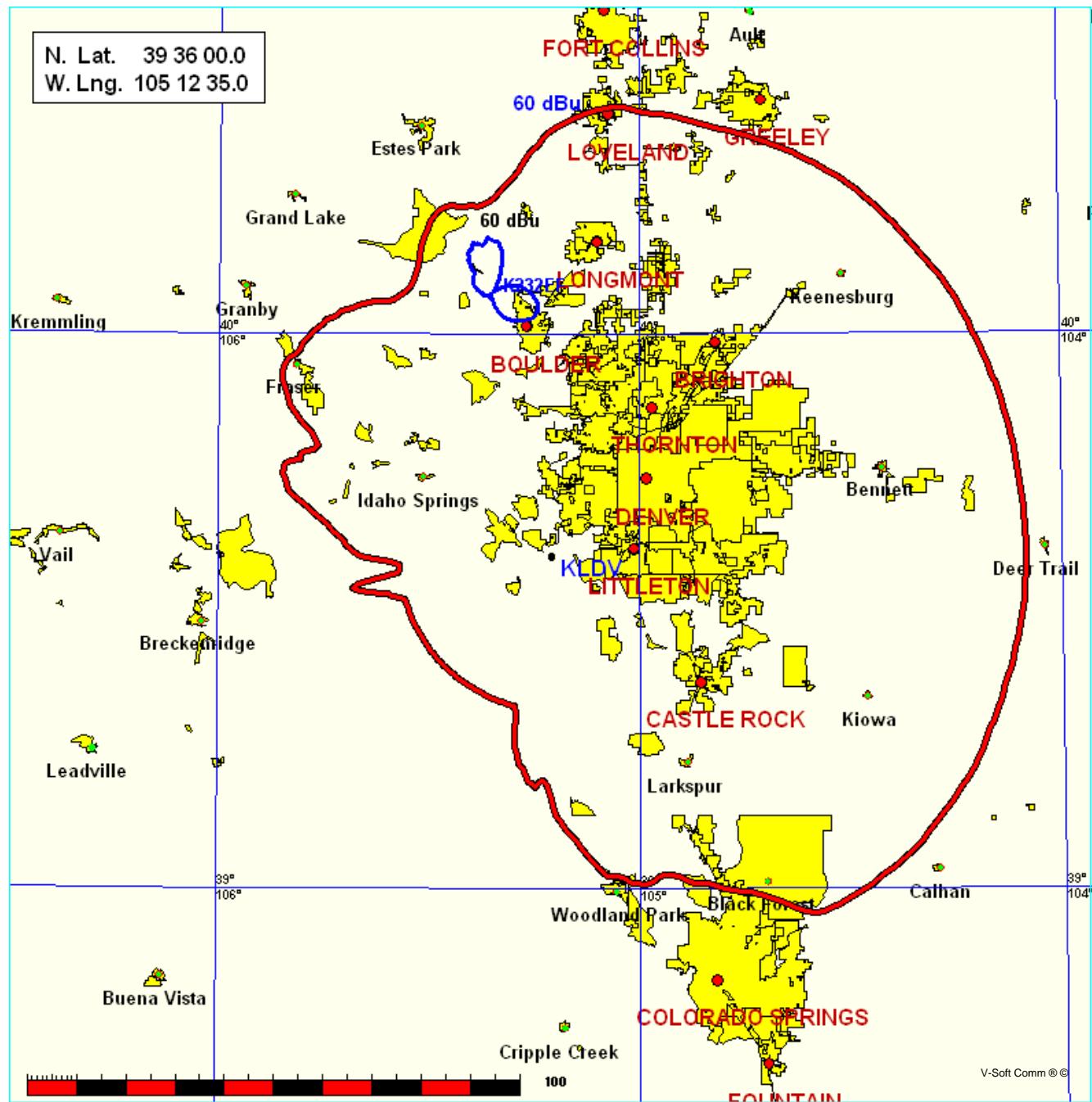


FIGURE 6, 60 DBU OVERLAP WITH CURRENT K232EF
K232EF ESTES PARK, COLORADO, CHANNEL 229D

Coverage Study - USGS 03 SEC
06-23-2010

K232EF CH229 D , 0.09 kW, 288.3M HAAT, 2425.0M COR AMSL
Service Contour = 60 dBu.

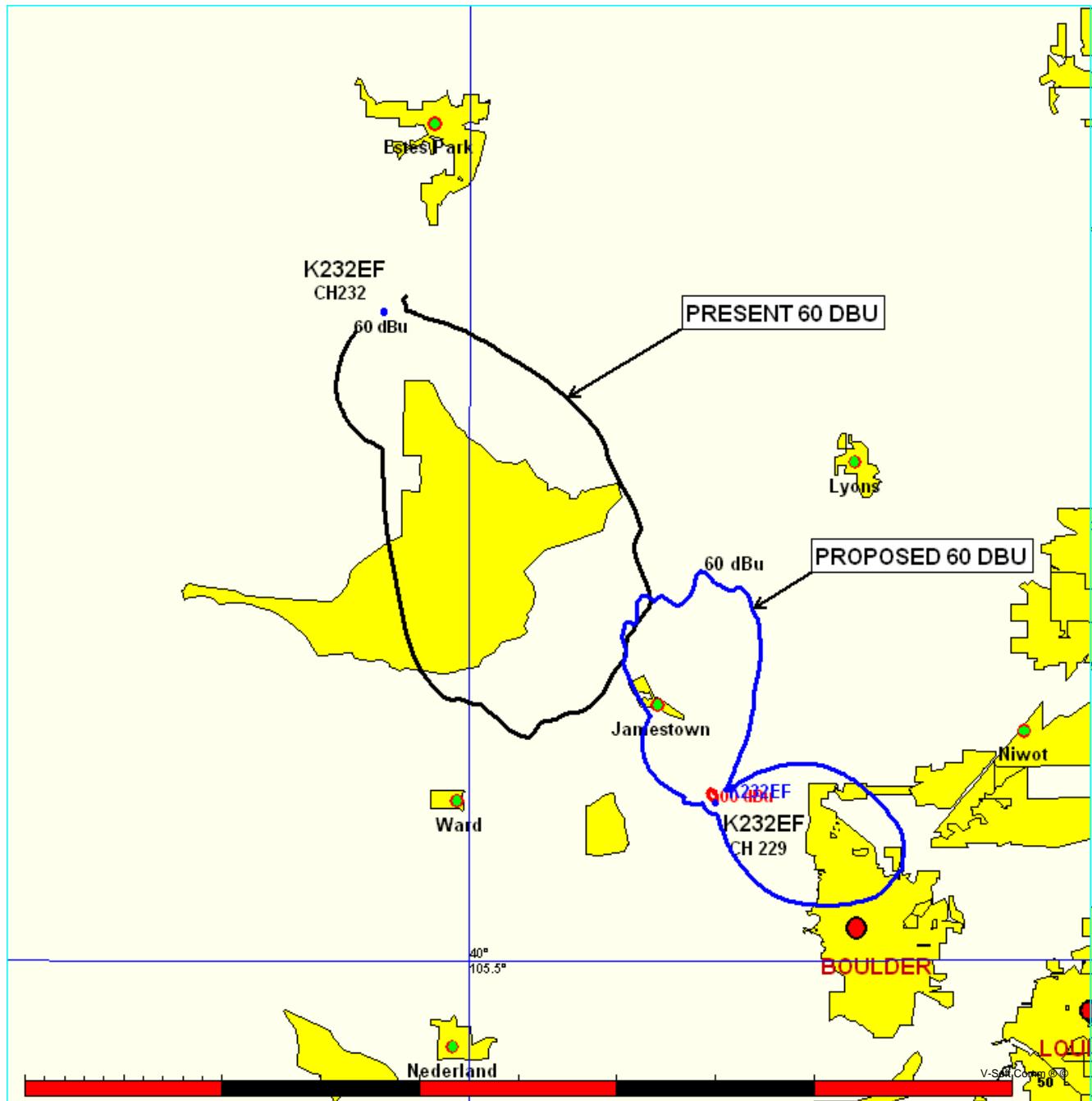


FIGURE 7 - DIRECTIONAL ANTENNA DATA

K232EF ESTES PARK, COLORADO

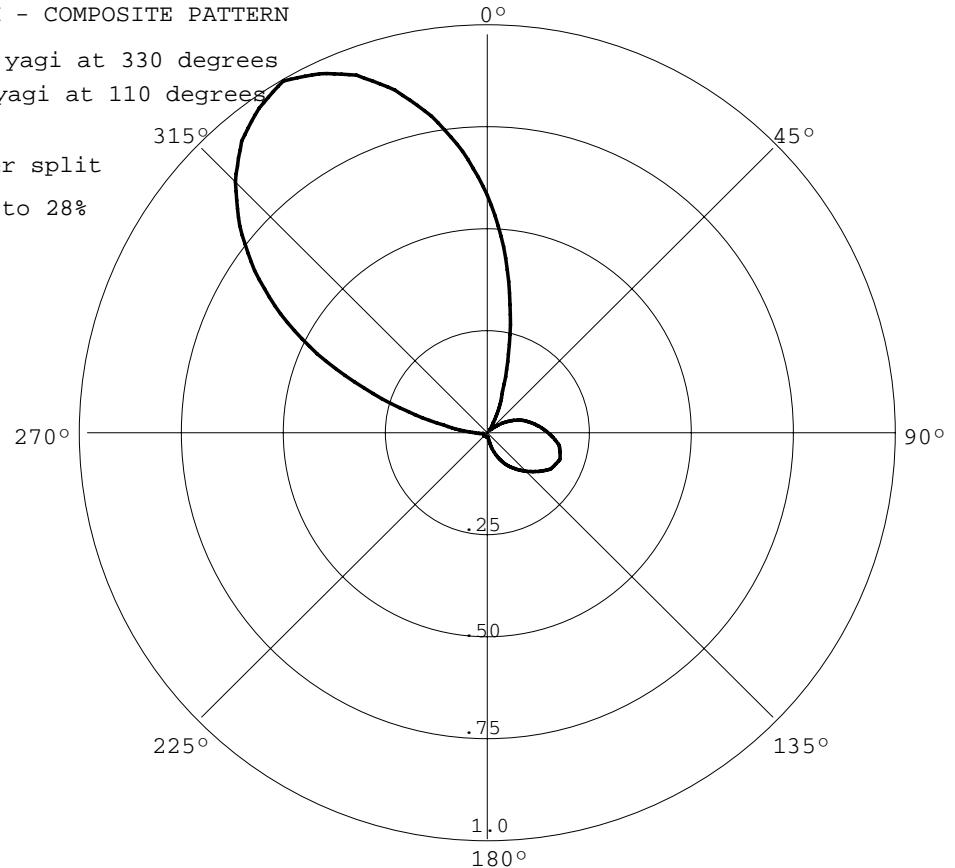
06-23-2010

RMS (V) = .376

SCALA CUSTOM H5FMH-2 DUAL HORIZONTAL YAGI

Graph is Relative Field

Azi	Field	dBk	kW
DIRECTIONAL ANTENNA SYSTEM - COMPOSITE PATTERN			
000	0.585	-15.114	0.031
010	0.320	-20.355	0.009
020	0.108	-29.789	0.001
030	0.030	-40.915	0.000
040	0.010	-50.458	0.000
050	0.012	-48.874	0.000
060	0.054	-35.810	0.000
070	0.090	-31.373	0.001
080	0.119	-28.947	0.001
090	0.149	-26.994	0.002
100	0.179	-25.401	0.003
110	0.190	-24.883	0.003
120	0.179	-25.401	0.003
130	0.149	-26.994	0.002
140	0.119	-28.947	0.001
150	0.090	-31.373	0.001
160	0.054	-35.810	0.000
170	0.012	-48.874	0.000
180	0.010	-50.458	0.000
190	0.010	-50.458	0.000
200	0.010	-50.458	0.000
210	0.010	-50.458	0.000
220	0.010	-50.458	0.000
230	0.010	-50.458	0.000
240	0.010	-50.458	0.000
250	0.010	-50.458	0.000
260	0.010	-50.458	0.000
270	0.030	-40.915	0.000
280	0.108	-29.789	0.001
290	0.320	-20.355	0.009
300	0.585	-15.114	0.031
310	0.792	-12.483	0.056
320	0.937	-11.023	0.079
330	1.000	-10.458	0.090
340	0.937	-11.023	0.079
350	0.792	-12.483	0.056



Contour.out

N. Lat. = 400420.0 W. Lng. = 1052112.0

HAAT and Distance to Contour,

FCC, FM 2-10 Mi, 51 pts Method - USGS 03 SEC

FIGURE 8, TABULATION OF DISTANCE TO CONTOURS, K232EF

Azi. AV EL HAAT dBk 60-F5 54-F1 40-F1 108.9-F1

Azi.	AV	EL	HAAT	dBk	60-F5	54-F1	40-F1	108.9-F1
000	2224.0	201.0	-15.11	10.97	15.75	36.46	0.14	
010	2113.1	311.9	-20.35	10.09	14.19	33.71	0.08	
020	1963.1	461.9	-29.79	5.72	9.49	24.08	0.03	
030	1886.2	538.8	-40.92	1.92	3.61	12.15	0.01	
040	1763.3	661.7	-50.46	0.67	1.33	5.81	0.00	
050	1738.9	686.1	-48.87	0.80	1.52	6.77	0.00	
060	1711.7	713.3	-35.81	3.36	6.25	21.08	0.01	
070	1679.7	745.3	-31.37	5.41	9.56	28.65	0.02	
080	1662.0	763.0	-28.95	6.87	11.95	33.90	0.03	
090	1662.0	763.0	-26.99	8.25	14.13	38.20	0.04	
100	1652.2	772.8	-25.40	9.62	16.86	42.16	0.04	
110	1667.5	757.5	-24.88	10.04	17.40	42.99	0.05	
120	1687.7	737.3	-25.40	9.51	16.45	41.18	0.04	
130	1722.6	702.4	-26.99	8.09	13.68	36.60	0.04	
140	1761.7	663.3	-28.95	6.69	11.41	31.24	0.03	
150	1881.3	543.7	-31.37	5.16	8.74	23.74	0.02	
160	2084.2	340.8	-35.81	3.07	5.26	13.67	0.01	
170	2072.4	352.6	-48.87	0.80	1.59	5.74	0.00	
180	2135.0	290.0	-50.46	0.67	1.33	4.73	0.00	
190	2239.1	185.9	-50.46	0.67	1.33	4.03	0.00	
200	2278.9	146.1	-50.46	0.67	1.33	3.62	0.00	
210	2359.7	65.3	-50.46	0.67	1.33	2.57	0.00	
220	2362.8	62.2	-50.46	0.67	1.33	2.52	0.00	
230	2419.9	5.1	-50.46	0.67	1.33	1.77	0.00	
240	2517.3	-92.3	-50.46	0.67	1.33	1.77	0.00	
250	2568.8	-143.8	-50.46	0.67	1.33	1.77	0.00	
260	2674.8	-249.8	-50.46	0.67	1.33	1.77	0.00	
270	2638.1	-213.1	-40.92	1.61	1.61	2.99	0.01	
280	2656.8	-231.8	-29.79	1.84	2.57	5.71	0.03	
290	2652.3	-227.3	-20.35	3.09	4.35	9.96	0.08	
300	2607.0	-182.0	-15.11	4.16	5.93	13.31	0.14	
310	2517.6	-92.6	-12.48	4.86	6.90	15.62	0.19	
320	2422.6	2.4	-11.02	5.31	7.51	17.34	0.22	
330	2335.2	89.8	-10.46	9.54	13.32	31.88	0.24	
340	2294.3	130.7	-11.02	11.05	15.93	37.43	0.22	
350	2294.5	130.5	-12.48	10.19	14.27	34.35	0.19	

Ave El = 2136.33 M HAAT= 288.67 M AMSL= 2425