

EXHIBIT E-1
TECHNICAL STATEMENT
K270BN ESTES PARK, COLORADO, CH. 271D
MOUNTAIN COMMUNITY TRANSLATORS, LLC
FCC FORM 349
OCTOBER 2009

This technical statement is made on behalf of Mountain Community Translators, LLC, licensee of K270BN Estes Park, Colorado, facility ID 142146. This application seeks to move to a new tower site, ASR 1210621, at N. 40°-26'-15", W. 104°-43'-25", NAD 27. K270BN proposes to operate on channel 271 with an Effective Radiated Power of 41 Watts utilizing a Nicom, model BKG-77, one bay, circular polarized, directional antenna. The antenna will be mounted at the 101.6 meter level above ground, on a 104.5 meter overall tower, with a Center of Radiation at 1525 meters Above Mean Sea Level.

This site is the currently licensed tower site for KGRE(AM) Greeley, Colorado, facility ID 33821, operating with 1 KW unlimited time on 1450 khz, utilizing a non-directional antenna. It is also proposed to rebroadcast KGRE(AM) as the new primary station for K270BN once the translator is relocated to the KGRE tower site. This rebroadcast is now allowed for under 74.1201(j), as modified by the Report and Order in MB docket 07-172, RM 11338 dated June 29, 2009. The proposed operation of K270BN will be considered as a "fill-in" facility for KGRE(AM), and the new 60 dbμ for K270BN will be completely contained inside a 25 mile (40 km) radius from the KGRE tower site and well inside the predicted 2 mv/m daytime contour for KGRE.

Because the proposed antenna and transmission line for K270BN will be mounted on the series fed AM tower for KGRE, an "isocoupler" will be installed at the base of the tower. An impedance measurement will be made before and after the antenna and

transmission line for K270BN is added to the tower. A new license application will be filed for direct measurement of power for KGRE, after the installation.

Figure 1 shows a detailed channel interference study conducted from the proposed site for K270BN on channel 271D. The only pertinent stations for further study are:

- 1) KRKY-FM Estes Park, Colorado, facility ID 76780, channel 271A
- 2) KTNI-FM Strasburg, Colorado, facility ID 38629, channel 268C
- 3) KTRR Loveland, Colorado, facility ID 50375, channel 273C2

Figure 2 is a predicted coverage map showing the 40 dB μ interference contour F(50-10) of the proposed operation of K270BN on 271D and the 60 dB μ protected contour F(50-50) of KRKY-FM Estes Park, Colorado on channel 271A. There is no prohibited overlap between these two contours.

The proposed operation of K270BN on 271D is located within the protected 60 dB μ contour of 3rd adjacent station KTNI-FM Strasburg, Colorado on channel 268C. Figure 3 shows the predicted F(50-50) field strength of KTRR at the proposed K269FR transmitter site is 63.2 dB μ . Therefore, the respective predicted interfering contour F(50-10) generated by the proposed K270BN on channel 271D is an additional 40 dB μ or 103.2 dB μ in this case. Figure 5 shows the coverage area for the 103.2 dB μ 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 KGRE existing

tower site, which is an owned 10 acre square grass field, with the tower centered in the middle property, with private gated access. The transmitter building is uninhabited and does not have indoor plumbing. It should be noted, that the currently licensed facilities of KTNI-FM Strasburg, CO are not in operation, and have requested to remain silent for 180 days. Continued operation of KTNI-FM1 Commerce City, Colorado, facility ID 162588, have been requested. There is no prohibited overlap with the proposed operation of K270BN and the licensed operation of KTNI-FM1 Commerce City as documented with Figure 1. The above documented non-interference study towards the main facilities of KTNI-FM are currently mute, until such time that KTNI-FM returns to normal operations.

The proposed operation of K270BN on 271D is also located within the protected 60 dB μ contour of 2nd adjacent station KTRR Loveland, Colorado on channel 273C2. Figure 4 shows the predicted F(50-50) field strength of KTRR at the proposed K270BN transmitter site is 76.4 dB μ . Therefore, the respective predicted interfering contour F(50-10) generated by the proposed is an additional 40 dB μ or 116.4 dB μ in this case. As documented above, the area inside the proposed 103.2 dB μ is uninhabited, so it can also be assumed that the area inside the 116.4 dB μ contour is also uninhabited, since this is a smaller area around the base of the tower site. Also, it should be noted, since the COR for K270BN will be 101.6 meters above the ground, and the proposed interference contour produced by K270BN towards KTRR will only extend 67.8 meters, any potential interference will not reach the ground at any point.

Figure 6 shows the antenna polar plot and data of the proposed directional antenna. The proposed operation of K270BN on channel 271D will operate as a fill-in translator for KGRE(AM), 1450 kHz, in Greeley, Colorado.

Figure 7 shows that the 60 dB μ contour of the proposed operation of K270BN on channel 271D is entirely within the KGRE 2 mV/m daytime contour and within 25 miles (40 km) of the KGRE site as required by 74.1201(j). The proposed operation of K270BN is to be located on the existing licensed tower for KGRE. The maximum distance to the 60 dB μ contour on any of the twelve pertinent radials is 8.57 kilometers, or well within the required 40 kilometers from the KGRE tower site.

Figure 8 is a tabulation of the distances to the pertinent contours used in this study.

Figure 9 shows the overlap between the 60 dB μ contours of the proposed facility and the current licensed facility for K270BN seeking to be modified by this application.

It was concluded that the new proposed operation of K270BN Estes Park, Colorado on 271D will not cause any harmful interference to any existing stations and will be in full compliance with the Commission's rules. Let it be noted that should any actual real world interference occur, the applicant acknowledges that it will promptly suspend operation of this translator in accordance with 47 C.F.R. § 74.1203.

EXHIBIT E-1, FIGURE 1, CHANNEL INTERFERENCE STUDY
 K270BN ESTES PARK, CO, CHANNEL 271D
 CH# 271D - 102.1 MHz, Pwr= 0.041 kW, HAAT= 74.5 M, COR= 1525 M
 Average Protected F(50-50)= 7.06 km
 Standard Directional

REFERENCE
 40 26 15.0 N.
 104 43 25.0 W.

DISPLAY DATES
 DATA 10-10-09
 SEARCH 10-10-09

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*
270D Estes Park	K270BN **	LIC CO	DV_	276.7 96.6	17.1 BLFT20090831AAE	40 27 19.0 104 55 25.0	0.250	25.6 1624	17.2 Mountain Community Transla	-15.4*	-9.7**
271A Estes Park	KRKY-FM	LIC CO	_HX	263.0 82.5	68.1 BLH20070117AAE	40 21 38.0 105 31 12.0	6.000 25	103.9 2739	40.8 Nrc Broadcasting, Inc.	-44.6*<	0.1
273C2 Loveland	KTRR	LIC CO	NCX	340.8 160.7	24.1 BLH20051107AEI	40 38 31.0 104 49 03.0	17.000 234	5.8 1793	53.4 Regent Broadcasting Of Ft.	12.8	-29.8*<
271D Fort Collins	KRKY-FM2	LIC CO	DC_	279.3 99.0	39.3 BLFTB20070404AAP	40 29 37.0 105 10 53.0	0.065	53.4 2090	14.9 Nrc Broadcasting, Inc.	-21.1*<	1.4
268C Strasburg	KTNI-FM	LIC CO	NC_	131.6 312.1	85.8 BMLH20081028ABX	39 55 22.0 103 58 18.0	97.000 625	14.1 2109	93.3 Max Radio Of Denver Llc	64.9	-7.8*<
270C2 Burns	KIGN	LIC WY	_CN	3.5 183.5	75.6 BMLH19950920KD	41 07 01.0 104 40 07.0	50.000 150	76.6 1963	50.8 Gap Broadcasting Cheyenne	-7.3*<	16.0
272A Greenwood Village	KCUV	LIC CO	DCX	209.3 28.9	89.6 BLH20070514AGO	39 43 59.0 105 14 10.0	1.000 238	61.6 2256	40.2 Nrc Broadcasting, Inc.	22.7	41.5
270C3 Centennial	KKHI	LIC CO	NC_	193.4 13.2	120.1 BLH20071207AAY	39 23 07.0 105 02 52.0	9.500 163	85.8 2226	57.6 Bustos Media Of Colorado L	29.0	55.3
270L1 Brighton	KAMV-LP	LIC CO	___	189.8 9.7	50.5 BLL20061207ABW	39 59 21.8 104 49 26.9	0.100	4.7 1538	3.3 Alianza Ministerial Vision	36.4	36.4
268D Commerce City	KTNI-FM1	LIC CO	DC_	188.6 8.5	85.6 BLFTB20050802ABY	39 40 31.0 104 52 22.0	20.000	4.4 1766	42.0 Max Radio Of Denver Llc	76.0	43.3
272D Boulder	KCUV-FM2	LIC CO	DV_	219.9 39.6	61.6 BLFTB20070725AEH	40 00 43.0 105 11 16.0	0.250	7.4 1661	5.3 Nrc Broadcasting, Inc.	49.2	48.8
274D Berthoud	K274BW	LIC CO	DC_	219.9 39.6	61.6 BLFT20090623ACK	40 00 43.0 105 11 16.0	0.250	0.6 1673	10.6 Community Radio For North	56.6	50.7
269D Boulder	K269AE	LIC CO	DHN	218.3 38.0	67.5 BLFT221	39 57 38.0 105 12 52.0	0.103 -58	0.7 1747	13.1 Wilks License Company-denv	62.3	54.1
270D Golden	640689	APP CO	DV_	209.1 28.8	89.9 BNPFT20030314BOM	39 43 46.0 105 14 08.0	0.010	18.8 2244	12.3 Mary Medicus	66.0	70.4
271C1 Alliance	KPNY	LIC NE	_CX	35.2 216.2	229.9 BMLED20061219ACM	42 07 01.0 103 07 09.0	100.000 159	156.3 1427	59.6 Mission Nebraska, Inc.	66.6	148.6
268D Cheyenne	K268BX	LIC WY	_C_	1.2 181.2	80.3 BLFT20090925ACB	41 09 37.0 104 42 13.0	0.099	0.7 1909	8.6 Brahmin Broadcasting Corp.	73.5	71.3
271C2 Hanna	KBDY	LIC WY	NC_	311.9 130.8	201.5 BLH20090109AHF	41 38 00.9 106 31 32.1	0.630 1050	122.4 3409	50.8 Toga Radio Llc	72.7	130.1
270D Sedalia	KKHI-FM2	LIC CO	_C_	193.4 13.2	120.1 BLFTB20031020AAB	39 23 06.0 105 02 51.0	0.099	38.2 2355	24.8 Bustos Media Of Colorado L	76.7	88.1
268D Pinecliffe	K268BW	LIC CO	_C_	228.4 47.8	94.7 BLFT20090810ACH	39 52 09.0 105 33 09.0	0.005	0.2 3343	11.9 Mountain Community Transla	91.0	82.6
274C Manitou Springs	KBIQ	LIC CO	_C_	183.6 3.5	188.2 BMLH20030423AAT	38 44 43.0 104 51 39.0	72.000 695	15.9 2946	102.6 Bison Media, Inc.	167.0	85.4
271A Breckenridge	KSMT	LIC CO	ZCX	227.1 46.3	152.9 BLH20070504ABR	39 29 44.0 106 01 44.0	6.000 -64	41.0 3250	11.2 Nrc Broadcasting Mountain	106.8	113.1
272A Limon	R11735	ADD CO	___	145.5 326.1	157.4	39 16 00.0 103 41 15.0	6.000 100	33.0 1780	22.1 White Park Broadcasting	117.9	124.6
269C1 Eagle	KSKE-FM	LIC CO	ZC_	246.9 65.6	193.3 BLH20050915ADE	39 44 18.0 106 47 58.0	12.000 667	6.5 3171	70.4 Nrc Broadcasting Mountain	182.9	122.6
269C1 Eagle	KSKE-FM	CP CO	_CX	248.7 67.3	196.7 BPH20061002BXC	39 46 32.0 106 51 48.0	10.500 696	4.9 3178	48.4 Nrc Broadcasting Mountain	187.0	148.0
273C2 Gypsum	KQSE	LIC CO	_C_	246.9 65.6	193.3 BLH20080222ABW	39 44 18.0 106 47 58.0	0.480 660	1.5 3161	38.2 Wildcat Communications, L.	187.9	154.8

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)
269A Wheatland	KZEW	LIC WY	_CN	354.1 174.0	179.6 BLH19850723KC	42 02 44.0 104 56 47.0	3.000 38	1.6 1503	13.2 Smith Broadcasting, Incorp	172.0	165.9

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), Beamtlt(Y,N,X)
""affixed to 'IN' or 'OUT' values = site inside protected contour.
Reference station has protected zone issue: AM tower

** STATION BEING MODIFIED BY THIS APPLICATION

EXHIBIT E-1, FIGURE 2, INTERFERENCE STUDY, KRKY-FM 271A
K270BN ESTES PARK, CO, CHANNEL 271D

FMCommander Single Allocation Study - 10-10-2009 - USGS 03 SEC
K270BN's Overlaps (In= -44.56 km, Out= 0.07 km)

K270BN CH 271 D DA
Lat= 40 26 15.0, Lng= 104 43 25.0
0.041 kW 74.5 M HAAT, 1525 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

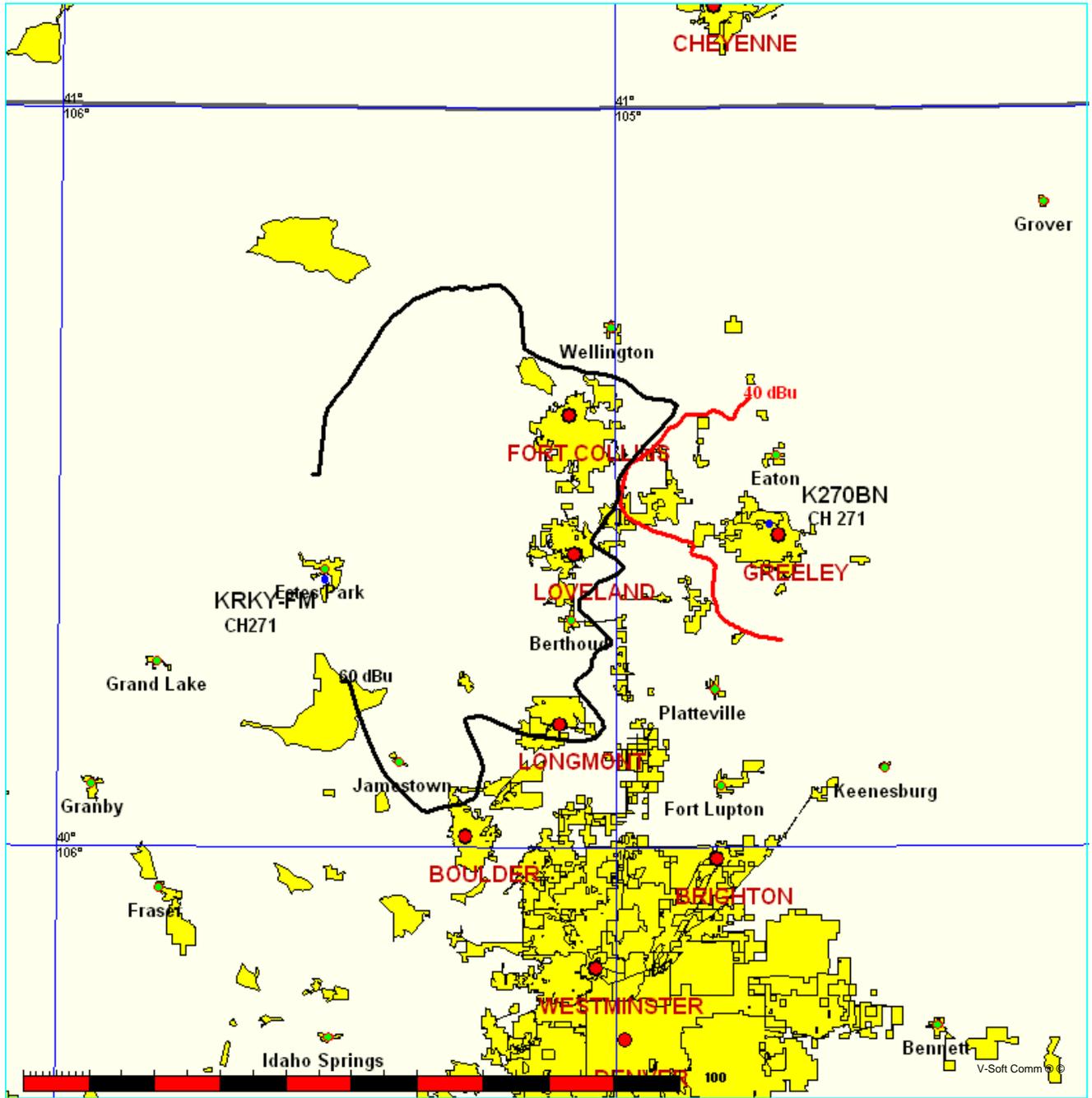


EXHIBIT E-1, FIGURE 3, KTNI 63.2 DBU CONTOUR
K270BN ESTES PARK, CO, CHANNEL 271D

Coverage Study - USGS 03 SEC
10-10-2009

KTNI-FM CH268 C 97.0 kW 2109M COR
Prot. = 60 dBu. Population = 855,846

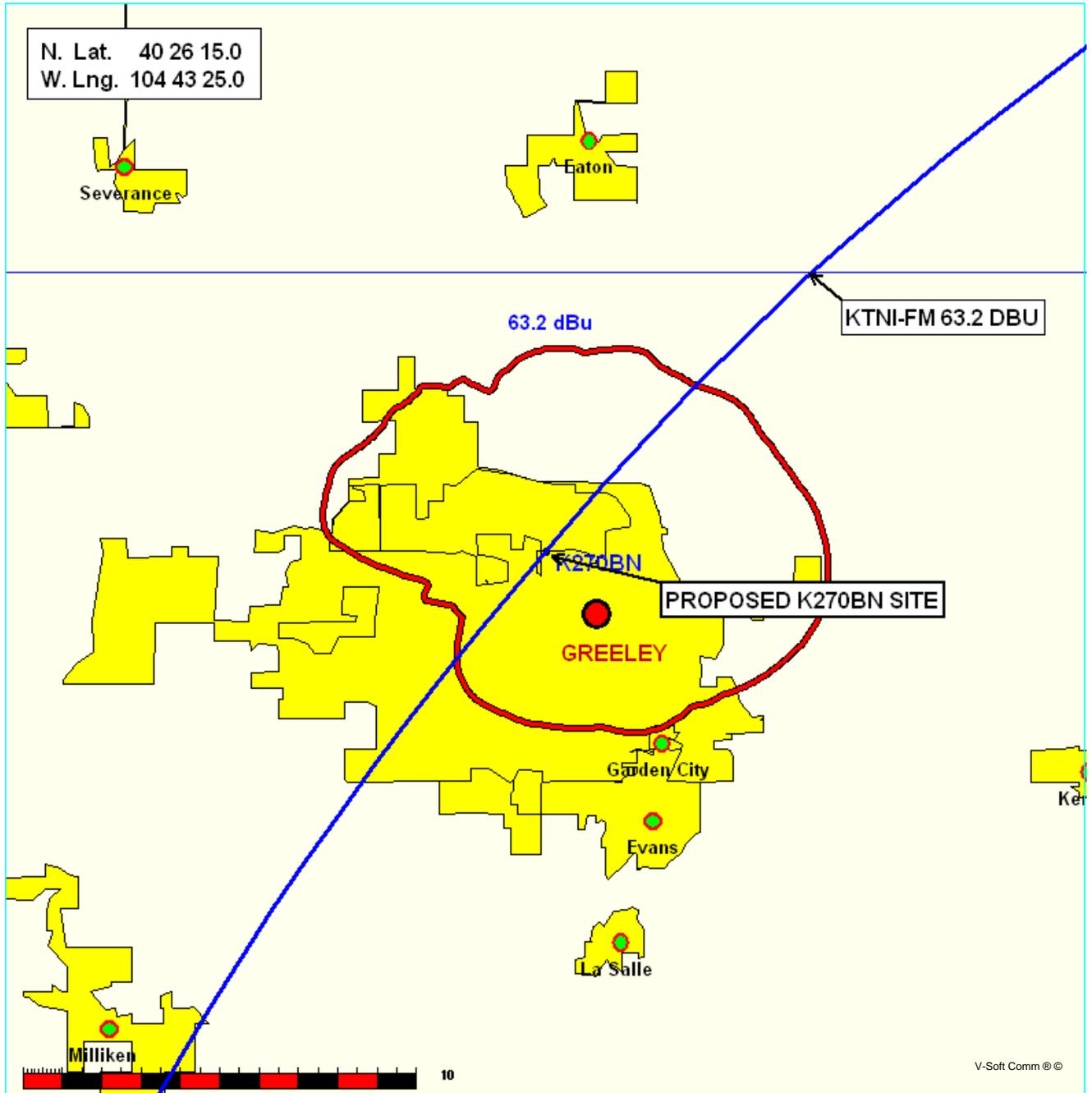


EXHIBIT E-1, FIGURE 4, KTRR 76.4 DBU CONTOUR
K270BN ESTES PARK, CO, CHANNEL 271D

Coverage Study - USGS 03 SEC
10-10-2009

KTRR CH273 C2 17.0 kW 1793M COR
Prot. = 60 dBu. Population = 66,504

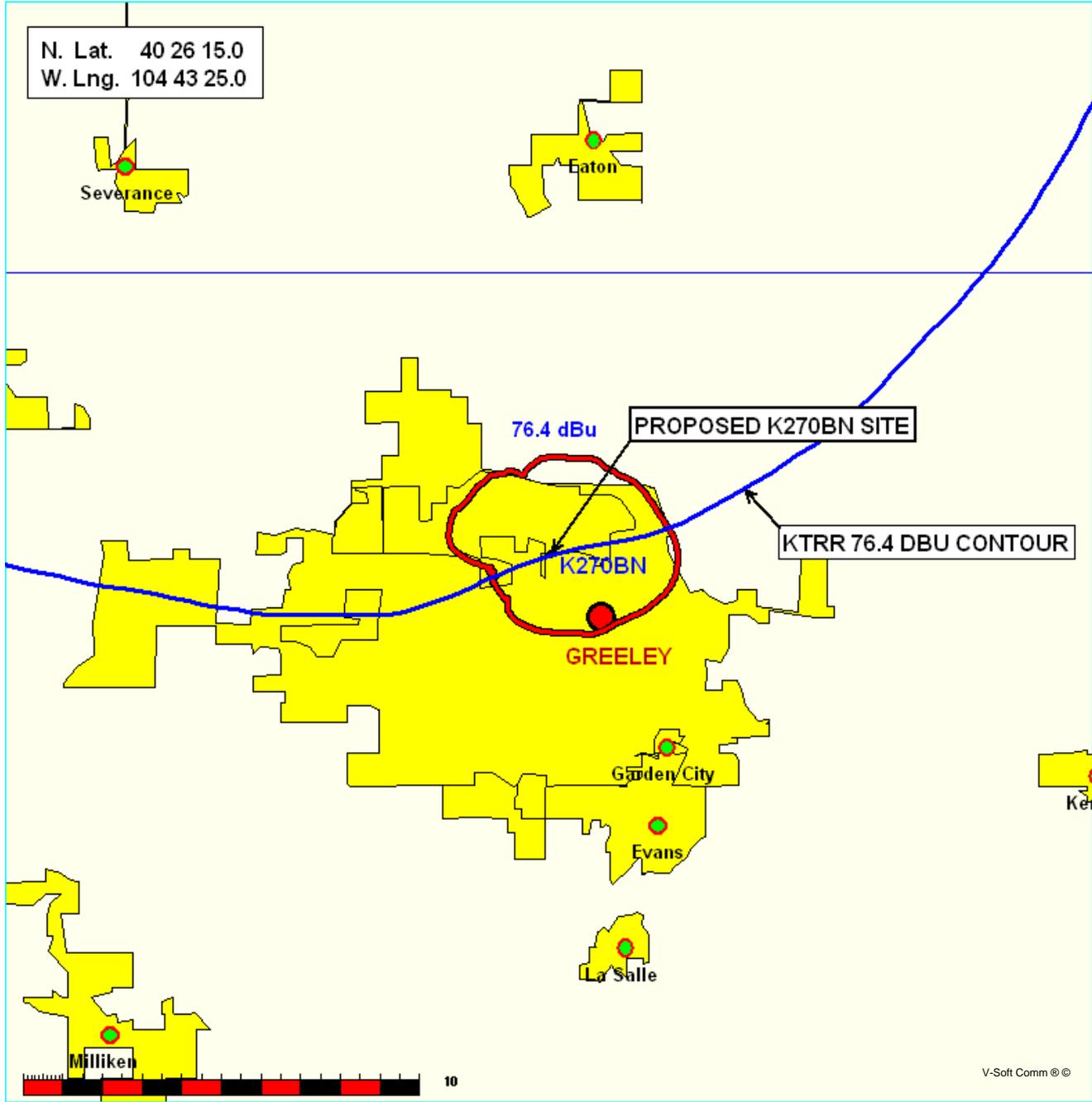
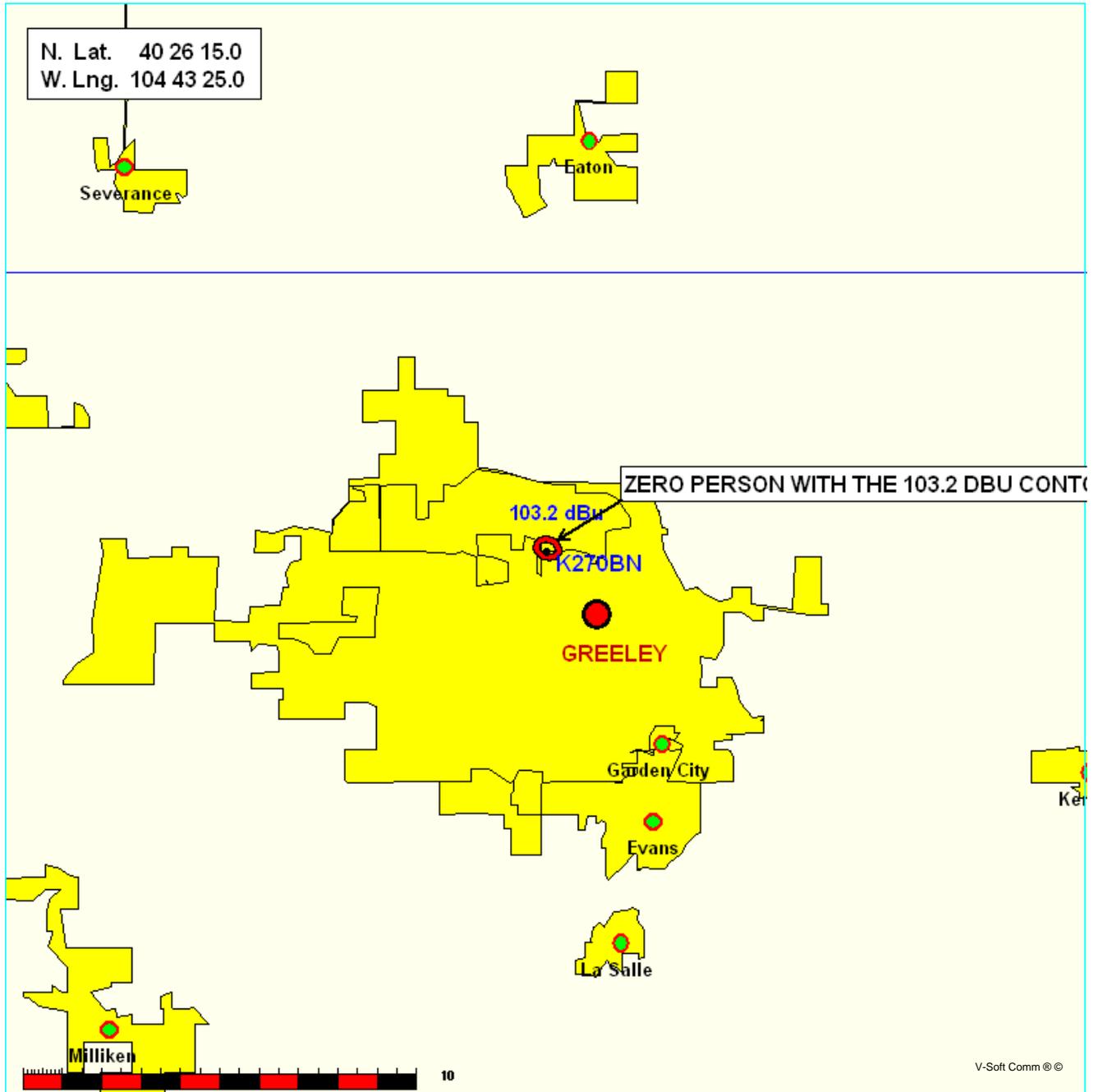
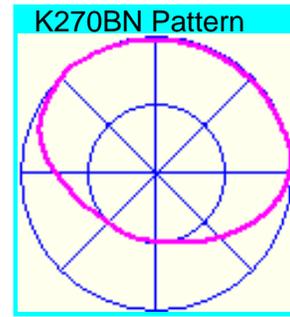


EXHIBIT E-1, FIGURE 5, 103.2 DBU INTERFERENCE CONTOUR
K270BN ESTES PARK, CO, CHANNEL 271D

Coverage Study - USGS 03 SEC
10-10-2009

K270BN CH271 D 0.041 kW 1525M COR
103.2 dBu Interference contour. Population = 0



Bearing Field % Voltage DATA, NICOM BKG 77 Graph is Percent Relative Field Voltage

000	=	0.966
010	=	0.966
020	=	0.966
030	=	0.966
040	=	0.966
050	=	0.976
060	=	0.976
070	=	0.984
080	=	1.000
090	=	0.982
100	=	0.927
110	=	0.852
120	=	0.762
130	=	0.692
140	=	0.627
150	=	0.581
160	=	0.536
170	=	0.504
180	=	0.493
190	=	0.493
200	=	0.493
210	=	0.493
220	=	0.493
230	=	0.507
240	=	0.536
250	=	0.596
260	=	0.643
270	=	0.728
280	=	0.826
290	=	0.908
300	=	0.947
310	=	0.966
320	=	1.000
330	=	0.984
340	=	0.976
350	=	0.976

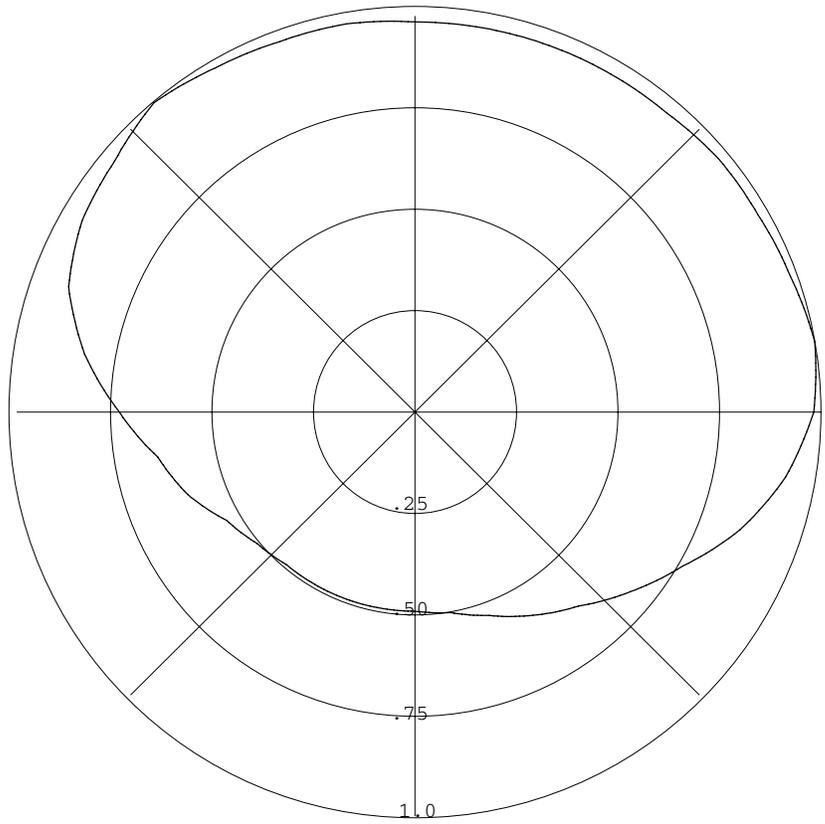
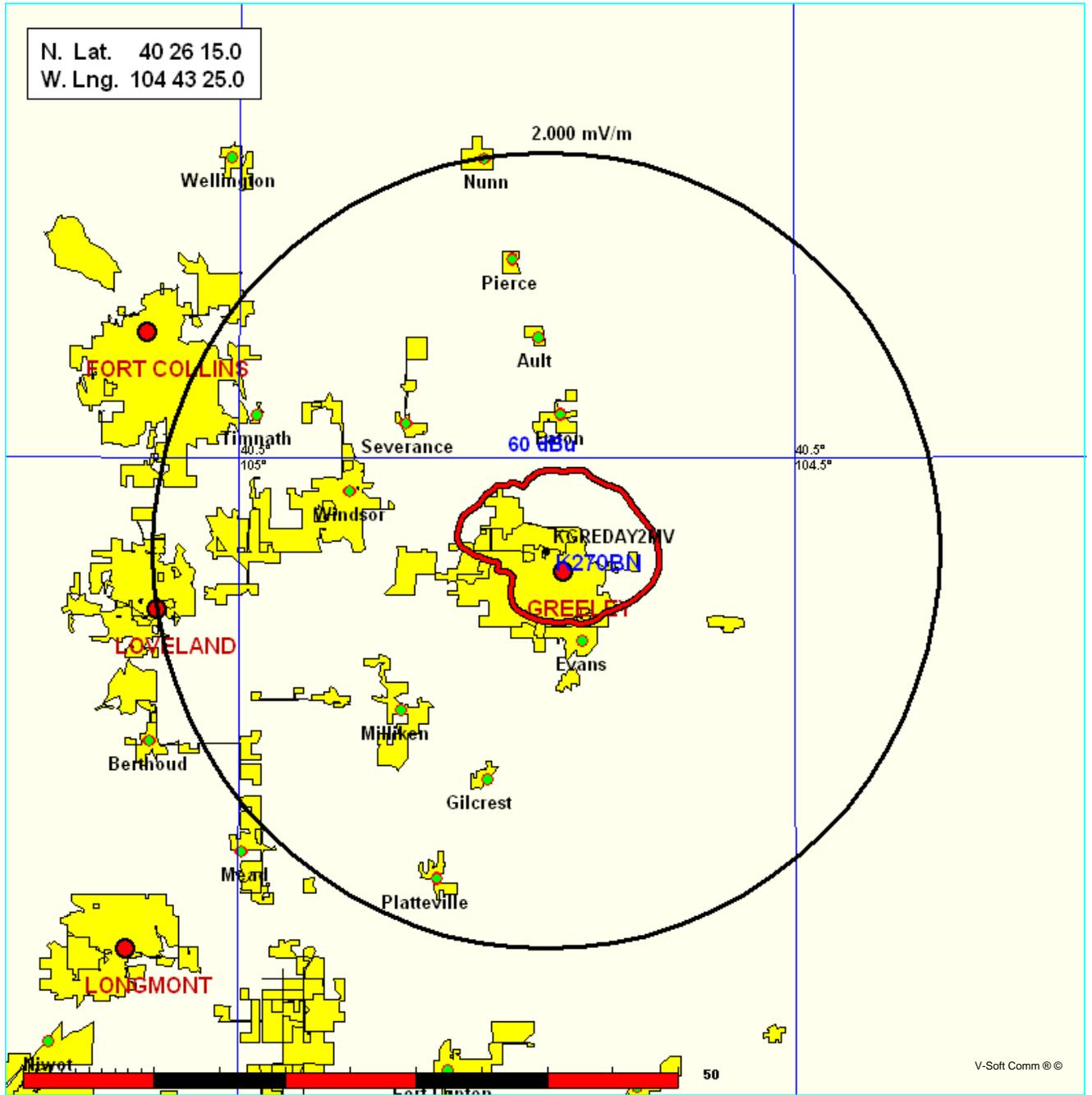
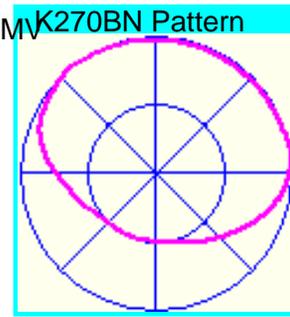


EXHIBIT E-1, FIGURE 7, PROPOSED 60 DBU, AND KGRE AM 2.0 MV
K270BN ESTES PARK, CO, CHANNEL 271D

Coverage Study - USGS 03 SEC
10-10-2009

K270BN CH271 D 0.041 kW 1525M COR
Prot. = 60 dBu. Population = 70,523



Contour.out

N. Lat. = 402615.0 W. Lng. = 1044325.0
 HAAT and Distance to Contour,
 FCC, FM 2-10 Mi, 51 pts Method - USGS 03 SEC

EXHIBIT E-1, FIGURE 8, DISTANCE TO CONTOURS
 Azi. AV EL HAAT dBk 60-F5 40-F1 103.2-F1

Azi.	AV EL	HAAT	dBk	60-F5	40-F1	103.2-F1
000	1470.2	54.8	-14.17	6.00	20.01	0.30
030	1459.0	66.0	-14.17	6.54	21.90	0.30
060	1442.2	82.8	-14.08	7.37	24.65	0.30
090	1415.6	109.4	-14.03	8.57	28.66	0.31
120	1414.8	110.2	-16.23	7.56	25.38	0.24
150	1426.3	98.7	-18.59	6.29	20.83	0.18
180	1441.9	83.1	-20.02	5.30	17.18	0.15
210	1454.1	70.9	-20.02	4.89	15.61	0.15
240	1495.7	29.3	-19.29	3.28	10.58	0.17
270	1452.6	72.4	-16.63	5.97	19.79	0.23
300	1461.8	63.2	-14.35	6.35	21.24	0.29
330	1476.9	48.1	-14.01	5.67	18.75	0.31

Ave EI = 1450.92 M HAAT= 74.08 M AMSL= 1525

EXHIBIT E-1, FIGURE 9, OVERLAP WITH CURRENT K270BN
K270BN ESTES PARK, CHANNEL 271D

Coverage Study - USGS 03 SEC
10-11-2009

K270BN CH270 D 0.25 kW 1624M COR
Prot. = 60 dBu. Population = 36,558

