

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

REFERENCE CH# 271D - 102.1 MHZ, Pwr= 0.041 kW, HAAT= 74.5 M, COR= 1525 M DISPLAY DATES
 40 26 15.0 N. Average Protected F(50-50)= 7.06 km DATA 10-10-09
 104 43 25.0 W. Standard Directional SEARCH 10-10-09

| 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 in km) | *OUT* (in km) |
|---------------------------|-----------|---------------|--------------|----------------|---------------------------|---------------------------|----------------------|---------------------|------------------------------------|-------------------------|------------------|
| 270D Estes Park | K270BN ** | LIC CO | DV_ | 276.7 96.6 | 17.1 BLFTB20090831AAE | 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

CALL

CITY

TYPE

ANT

STATE

AZI

<--

DIST

FILE #

LAT

LNG

PWR (kW)

HAAT (M)

INT (km)

COR (M)

PRO (km)

LICENSEE

Page # 2

IN

(Overlap

OUT

in km)

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

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.
 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

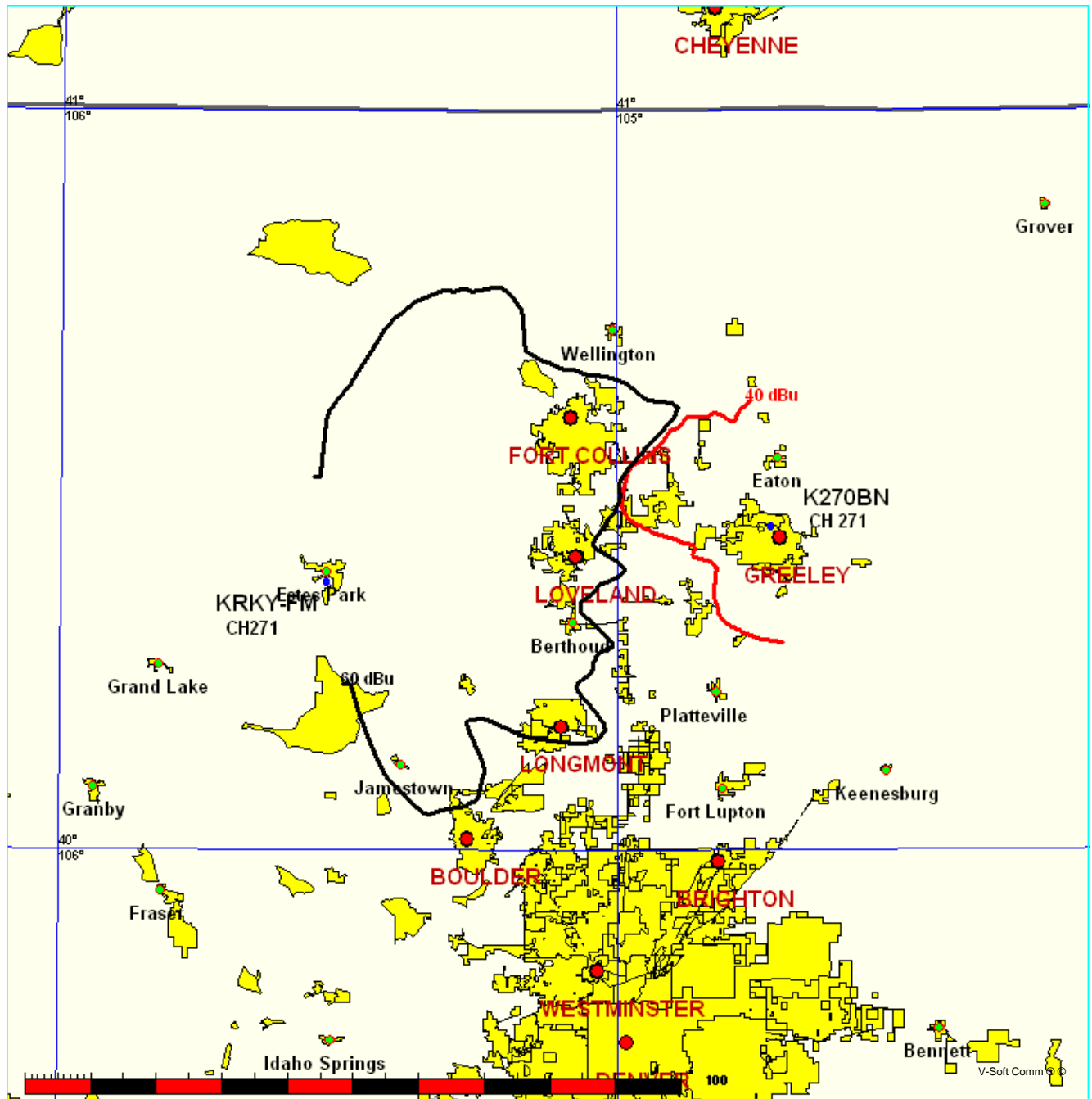


EXHIBIT E-1, FIGURE 3, KTNI 63.2 DBU CONTOUR
K270BN ESTES PARK, CO, CHANNEL 271D

Coverage Study - USGS 03 SEC
10-10-2009

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

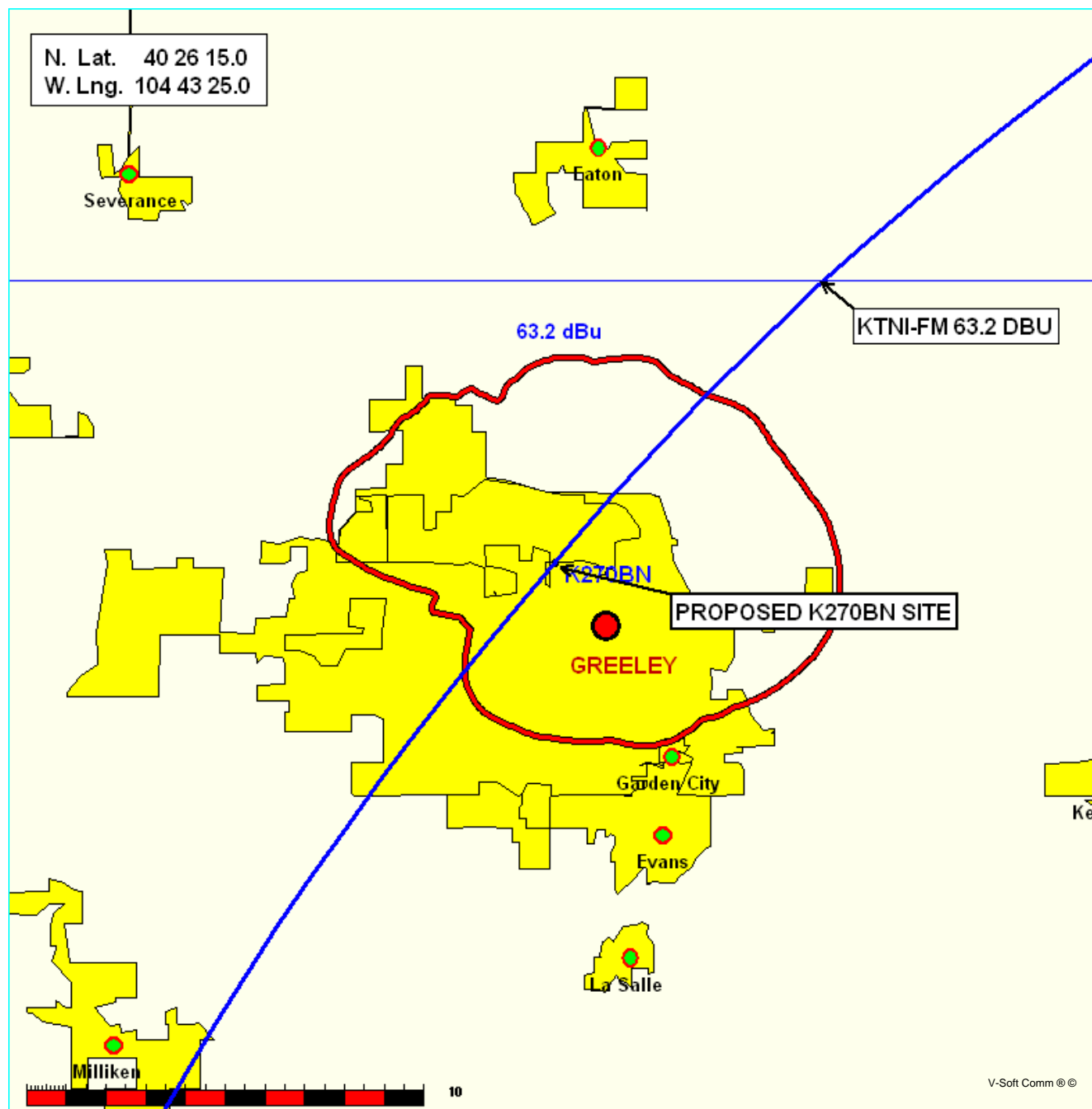


EXHIBIT E-1, FIGURE 4, KTRR 76.4 DBU CONTOUR
K270BN ESTES PARK, CO, CHANNEL 271D

Coverage Study - USGS 03 SEC
10-10-2009

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

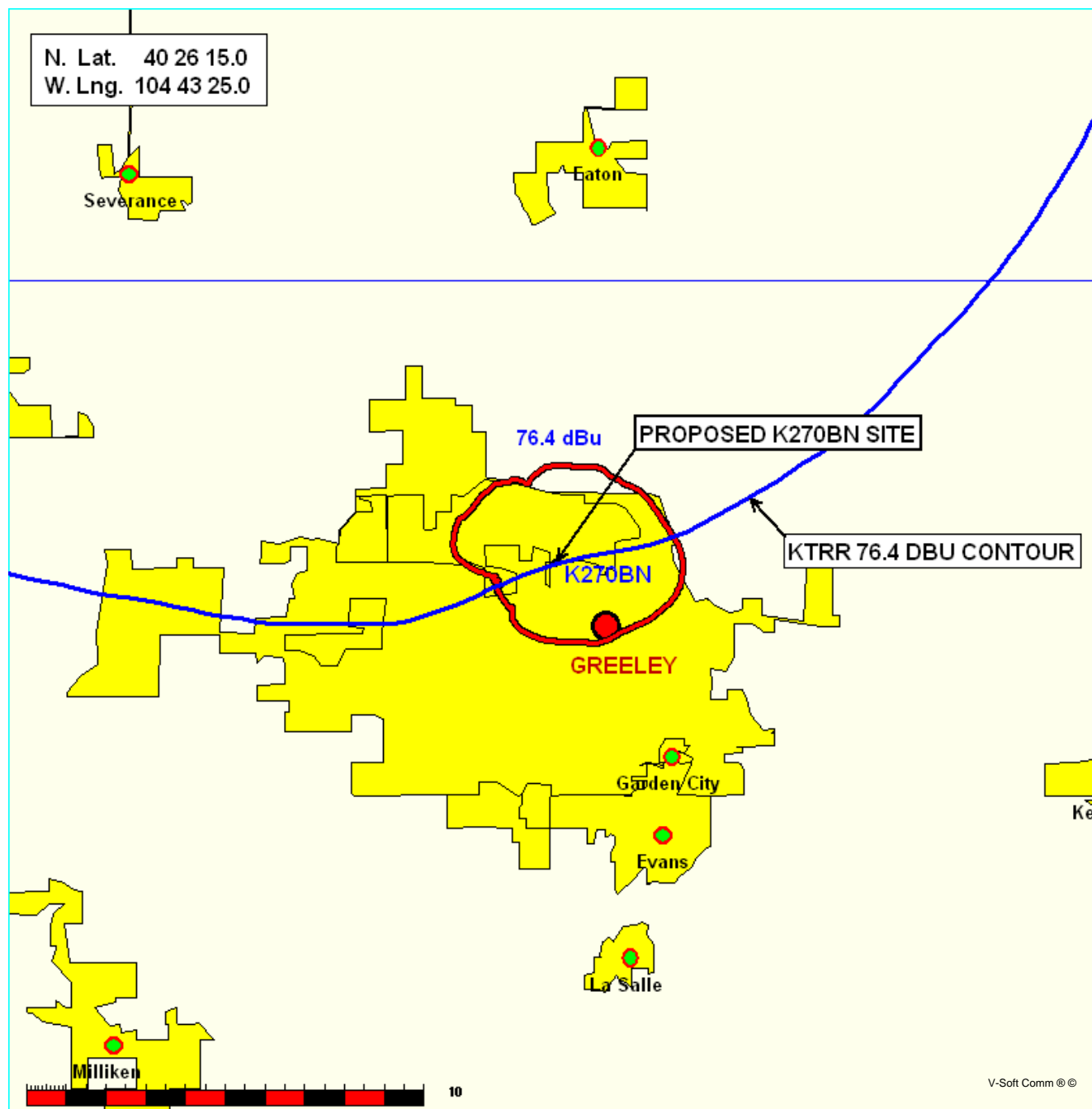
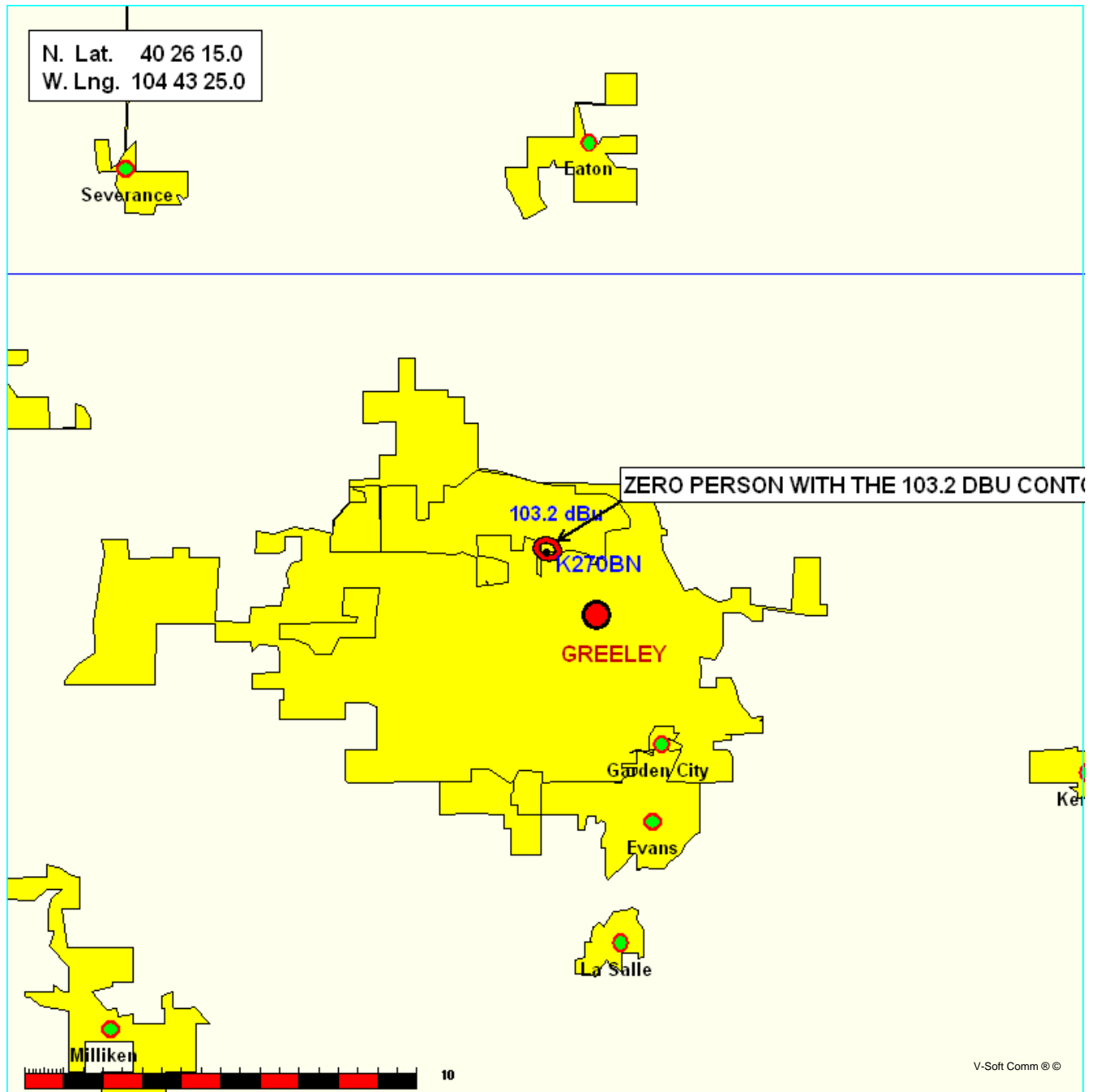
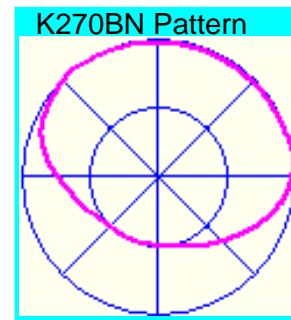


EXHIBIT E-1, FIGURE 5, 103.2 DBU INTERFERENCE CONTOUR
K270BN ESTES PARK, CO, CHANNEL 271D

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 |

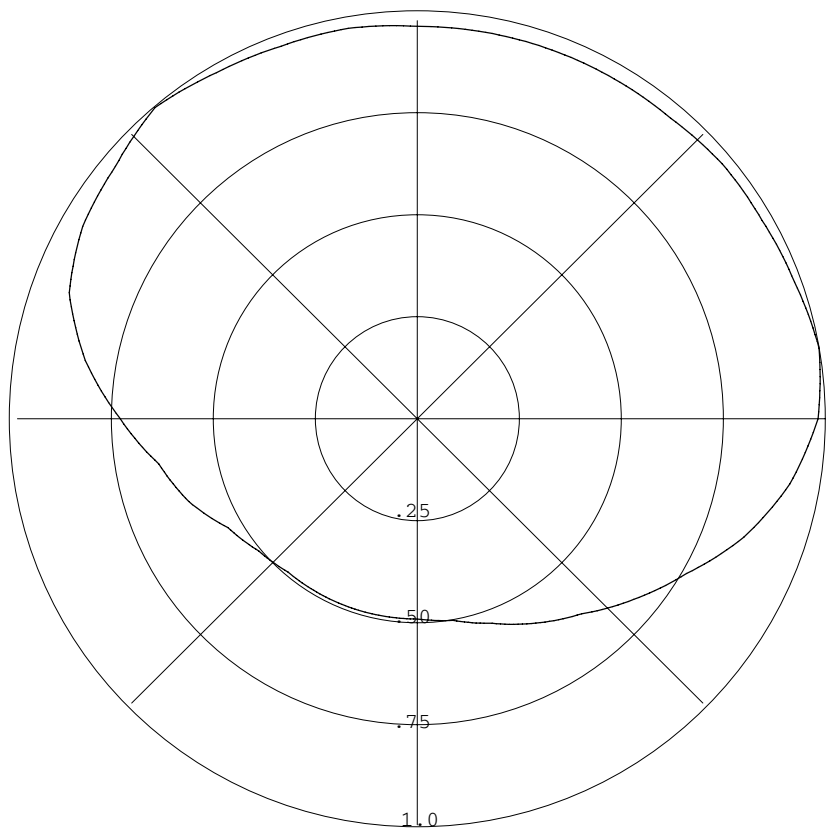
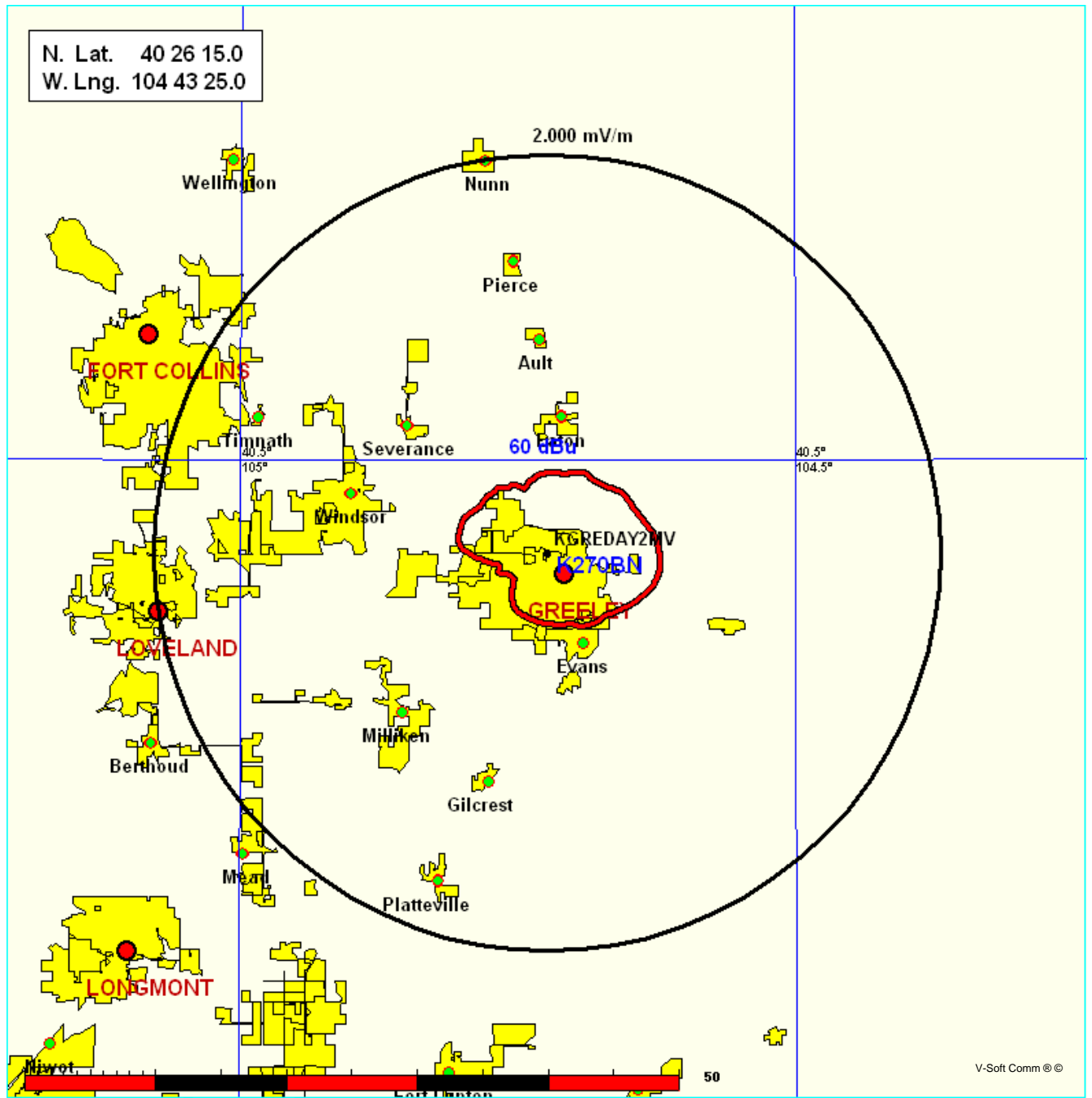
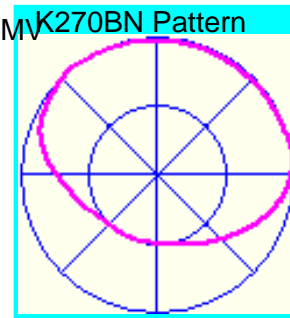


EXHIBIT E-1, FIGURE 7, PROPOSED 60 DBU, AND KGRE AM 2.0 MV
K270BN ESTES PARK, CO, CHANNEL 271D

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 |
|------|--------|-------|--------|-------|-------|----------|
| 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

