

EXHIBIT E-1
TECHNICAL STATEMENT
KCUV-FM1 BOULDER, COLORADO
CHANNEL 272D, 250 WATTS ERP
FCC FORM 349
NRC BROADCASTING, INC.
APRIL 2007

This Technical Statement is in support of a FCC form 349 application for a new FM booster station to be used in conjunction with KCUV(FM) Greenwood Village, Colorado, on channel 272A, facility ID 37028.

The new FM booster station is proposed for operation on channel 272 or 102.3 Mhz with a 0.25 kilowatt Effective Radiated Power (vertical polarization only) using a Nicom BLD1P, vertical dipole directional antenna. The main lobe of this antenna will be oriented at 180 degrees.

The antenna system is to be side mounted at the 37 meter level AGL, on an existing antenna support structure (ASRN 1024061). This antenna system will be mounted in place of the current antenna system used by KJAC-FM1 Boulder, Colorado on channel 288. KJAC-FM1 plans to discontinue the use of KJAC-FM1. The licensee of KJAC and KCUV are the same, NRC Broadcasting, Inc..

Figure 1 shows a channel study conducted at the proposed site for KCUV-FM1. It was conducted with normal class A FM spacing requirements to indicate if there is any I.F. channel spacing issues, or 1st adjacent channel stations that might need protection under commission rules for FM booster stations.

The study shows that there are no spacing issues with I.F. channel stations. Two first adjacent channel stations were studied closer for potential overlap with the proposed booster operation and the protected 60 dbu contour of these two stations. Figure 3 shows

a contour study which shows the proposed 54 dbu contour of the KCUV proposed booster and the 60 dbu protected contour for KTRR Loveland, Colorado operating on channel 273C2. Figure 4 shows a contour study which shows the proposed 54 dbu contour of the proposed KCUV booster and the 60 dbu protected contour for KRKY-FM Estes Park, Colorado operating on channel 271A. As can be seen with both of these stations, there will not be any prohibited overlap with the proposed booster and the protected contours.

Figure 2 shows that the proposed 60 dbu contour of the proposed booster, will be completely contained within the 60 dbu contour of KCUV.

Figure 5 shows a polar plot and antenna data for the Nicom antenna system proposed.

Figure 6 is a tabulation of the distances to the 60 dbu and 54 dbu contours for the new proposed booster.

Figure 7 is a tabulation of the distances to the 60 dbu of KCUV Greenwood Village, Colorado.

Exhibit E-1, Figure 1, Channel Study
KCUV-FM1 Boulder, Colorado Channel 272D

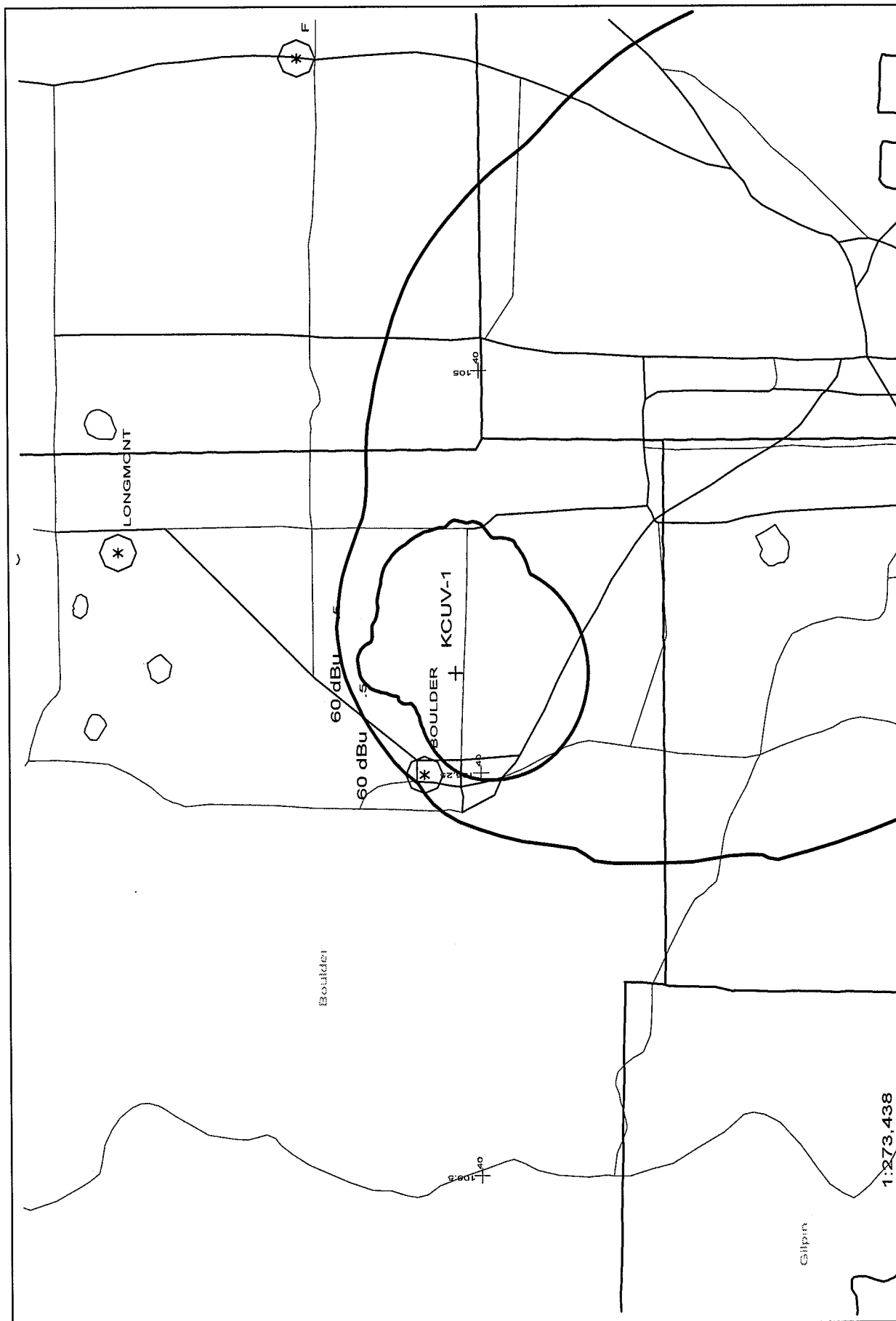
REFERENCE
40 00 43.0 N.
105 11 16.0 W.

CLASS = A
Current Spacings

DISPLAY DATES
DATA 04-07-07
SEARCH 04-08-07

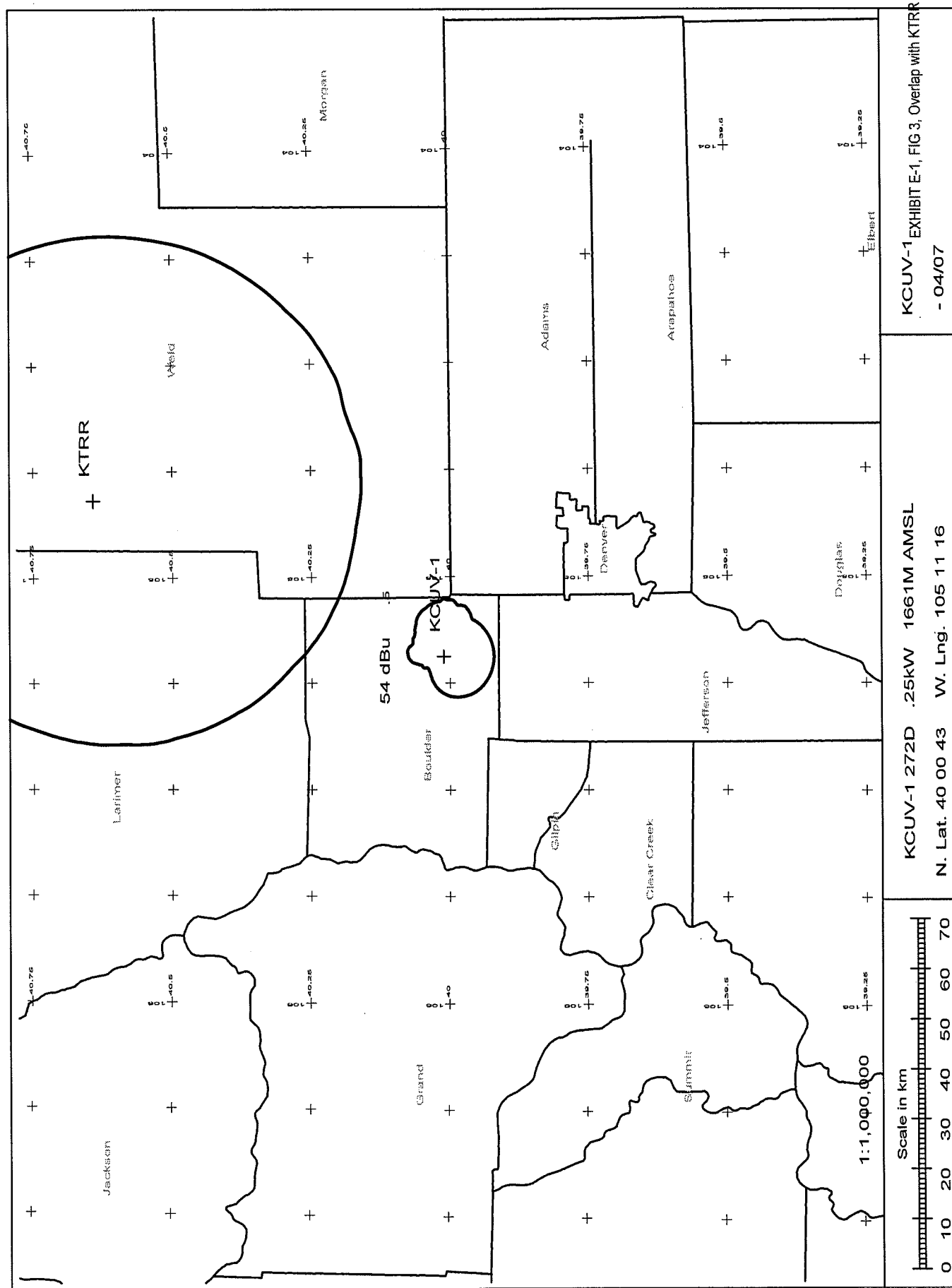
----- Channel 272 - 102.3 MHz -----

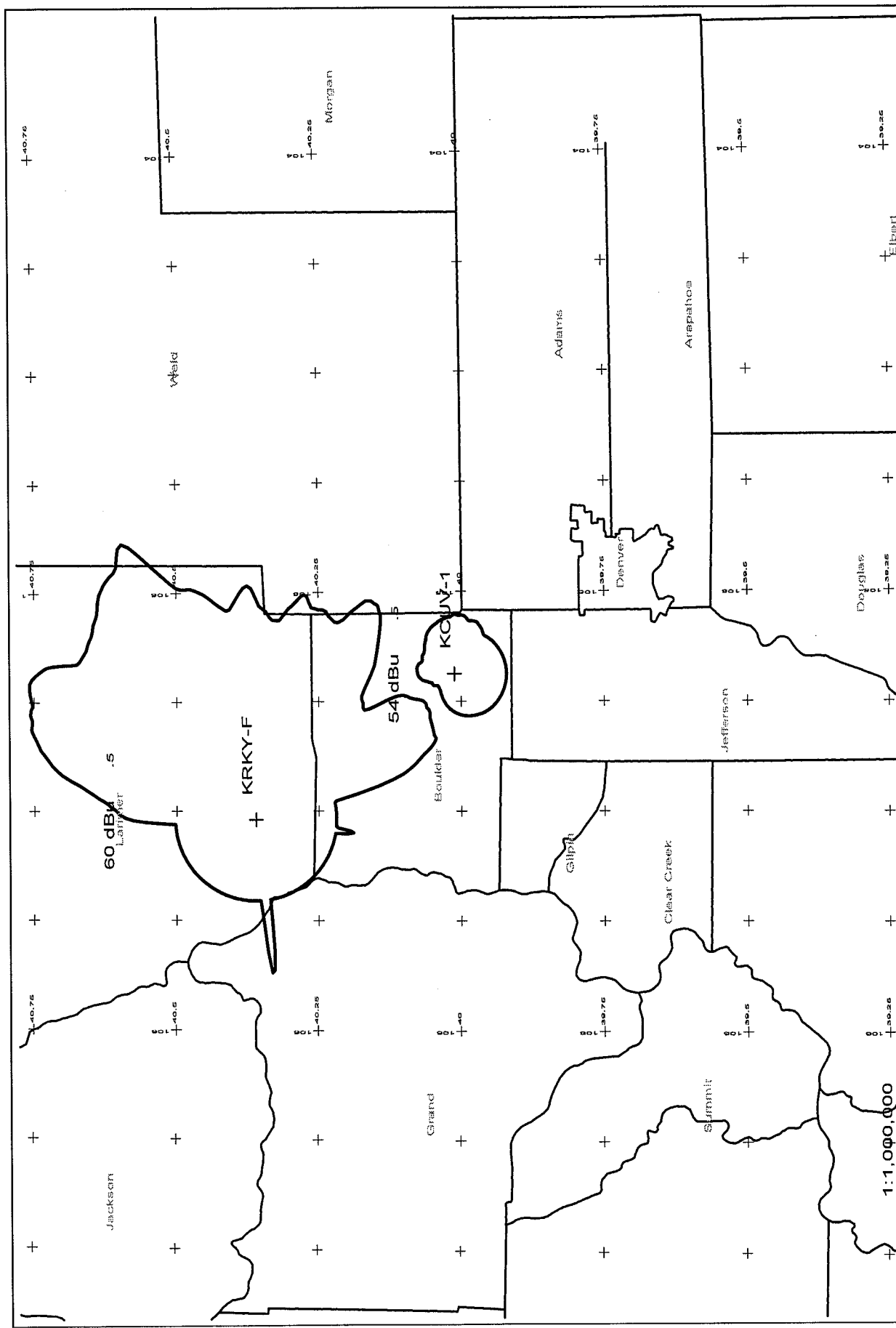
Call	Channel	Location		Azi	Dist	FCC	Margin
KCUV.C	CP -D 272A	Greenwood Village	CO	187.6	31.24	115.0	-83.76
KCUV	LIC-N 272A	Greenwood Village	CO	144.0	47.60	115.0	-67.40
AL660414	RSV 272A	Greenwood Village	CO	142.0	54.43	115.0	-60.57
KTRR	LIC-N 273C2	Loveland	CO	24.0	76.70	106.0	-29.30
KRKY-FM	LIC 271A	Estes Park	CO	324.1	47.94	72.0	-24.06
KSMT	LIC-Z 272A	Breckenridge	CO	231.7	92.10	115.0	-22.90
KSMT.C	CP -Z 271A	Breckenridge	CO	231.7	92.10	72.0	20.10
KGDQ	RSV 270C3	Centennial	CO	158.6	66.66	42.0	24.66
KGDQ.A	APP-N 270C3	Centennial	CO	170.2	70.60	42.0	28.60
KARS-FM	LIC 275C1	Laramie	WY	336.1	105.26	75.0	30.26
RADD	ADD 272A	Limon	CO	122.3	153.07	115.0	38.07
KGDQ	LIC 270C2	Colorado Springs	CO	166.9	99.77	55.0	44.77
KUNC.C	CP 218C1	Greeley	CO	350.1	68.28	22.0	46.28
KBIQ	LIC 274C	Manitou Springs	CO	168.6	143.42	95.0	48.42
KUNC	LIC 218C1	Greeley	CO	24.0	76.70	22.0	54.70
KQZR.A	APP-Z 273C3	Gypsum	CO	260.0	144.23	89.0	55.23
KTUN	LIC-Z 269C1	Eagle	CO	258.0	141.18	75.0	66.18
KSPK	LIC 272C1	Walsenburg	CO	173.1	266.60	200.0	66.60
KQZR	LIC 273C	Craig	CO	275.9	234.99	165.0	69.99
KTUN.C	CP 269C1	Eagle	CO	260.1	145.69	75.0	70.69
KQZR	RSV 273C3	Gypsum	CO	256.7	164.07	89.0	75.07
KIGN	LIC 270C2	Burns	WY	19.5	130.34	55.0	75.34
KVLE-FM	LIC 272A	Gunnison	CO	223.5	219.85	115.0	104.85
KRCC	LIC-D 218C1	Colorado Springs	CO	168.6	143.40	22.0	121.40



KCUV-1 - 04/07	KCUV-1 272D .25kW 1661M AMSL N. Lat. 40 00 43 W. Lng. 105 11 16	<div data-bbox="1485 1470 1567 2016"> <p>Scale in km</p> <p>0 10 20</p> </div>
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Exhibit E-1, Fig 2, KCUV-FM1 and KCUV contours





<p>Scale in km</p> <p>0 10 20 30 40 50 60 70</p>		<p>KCUV-1 272D .25kW 1661M AMSL</p> <p>N. Lat. 40 00 43 W. Lng. 105 11 16</p>	<p>KCUV-1 EXHIBIT E-1, FIG 4, Overlap with KRKY</p> <p>- 04/07</p>
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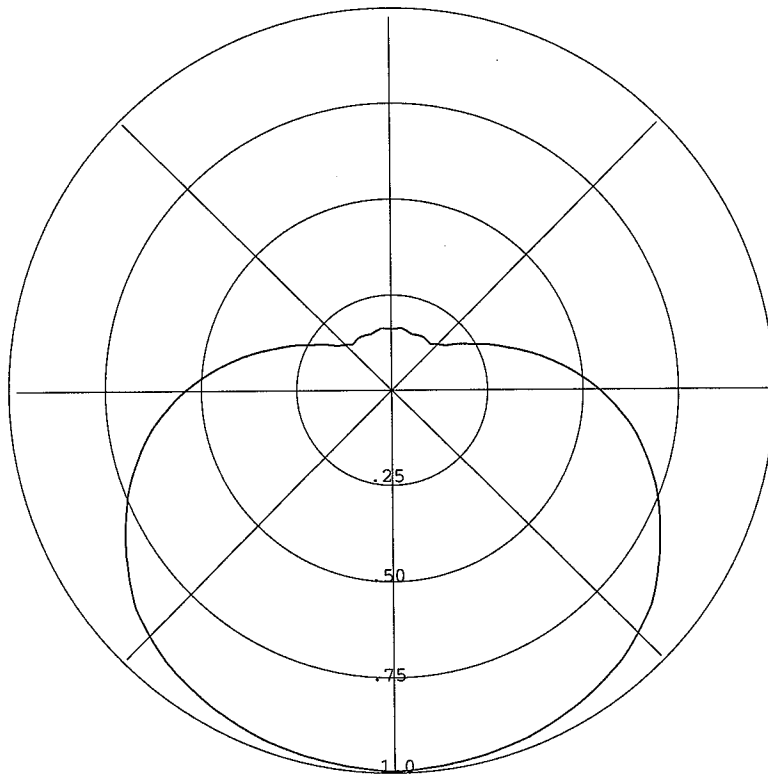
C:\V-SOFTDATA\DA PATTERNS\KCUVBOULDERPAT.PAT
 EXHIBIT E-1, FIGURE 5, Antenna Data
Bearing Field % Voltage

04-07-2007

RMS(V) = .64

Graph is Percent Relative Field Voltage

000	=	.161
010	=	.165
020	=	.157
030	=	.163
040	=	.158
050	=	.183
060	=	.24
070	=	.324
080	=	.43
090	=	.543
100	=	.646
110	=	.733
120	=	.808
130	=	.882
140	=	.927
150	=	.956
160	=	.978
170	=	.99
180	=	1
190	=	.99
200	=	.978
210	=	.956
220	=	.927
230	=	.882
240	=	.808
250	=	.733
260	=	.646
270	=	.543
280	=	.43
290	=	.324
300	=	.24
310	=	.183
320	=	.158
330	=	.163
340	=	.157
350	=	.165



NICOM MODEL BLD1P ANTENNA POLAR PLOT

N. Lat. = 400043.0 W. Lng. = 1051116.0
 HAAT and Distance to Contour - FCC Method - USGS 03 SEC
 EXHIBIT E1, FIGURE 6, DISTANCE TO CONTOURS, KCUV-FM1
 Azi. AV EL HAAT dBk 60-F5 54-F5

000	1567.1	94.0	-21.88	5.07	7.11
010	1563.6	97.4	-21.67	5.24	7.33
020	1574.1	86.9	-22.10	4.80	6.75
030	1567.9	93.1	-21.78	5.08	7.12
040	1555.9	105.1	-22.05	5.33	7.46
050	1540.8	120.2	-20.77	6.13	8.59
060	1542.7	118.3	-18.42	6.94	9.76
070	1561.6	99.4	-15.81	7.35	10.39
080	1578.2	82.8	-13.35	7.68	10.93
090	1588.1	72.9	-11.32	8.12	11.53
100	1601.9	59.1	-9.82	8.01	11.42
110	1613.4	47.6	-8.72	7.62	10.91
120	1621.6	39.4	-7.87	7.24	10.37
130	1632.9	28.1	-7.11	6.66	9.53
140	1645.5	15.5	-6.68	6.83	9.77
150	1667.8	-6.8	-6.41	6.93	9.92
160	1696.8	-35.8	-6.21	7.01	10.04
170	1712.0	-51.0	-6.11	7.05	10.10
180	1736.9	-75.9	-6.02	7.09	10.15
190	1762.7	-101.7	-6.11	7.05	10.10
200	1780.6	-119.6	-6.21	7.01	10.04
210	1800.5	-139.5	-6.41	6.93	9.92
220	1881.0	-220.0	-6.68	6.83	9.77
230	1871.0	-210.0	-7.11	6.66	9.53
240	1937.2	-276.2	-7.87	6.37	9.11
250	1997.5	-336.5	-8.72	6.07	8.66
260	1885.7	-224.7	-9.82	5.70	8.08
270	1775.7	-114.7	-11.32	5.22	7.38
280	1775.7	-114.7	-13.35	4.61	6.56
290	1822.0	-161.0	-15.81	3.99	5.70
300	1795.3	-134.3	-18.42	3.45	4.88
310	1755.5	-94.5	-20.77	3.01	4.24
320	1671.8	-10.8	-22.05	2.82	3.94
330	1623.0	38.0	-21.78	3.20	4.50
340	1615.4	45.6	-22.10	3.46	4.90
350	1585.7	75.3	-21.67	4.57	6.42

Ave EL= 1691.81 M HAAT= -30.81 M AMSL= 1661M

N. Lat. = 394359.0 W. Lng. = 1051410.0
 HAAT and Distance to Contour - FCC Method - USGS 03 SEC
 EXHIBIT E-1, FIG 7, DISTANCE TO CONTOURS FOR KCUV
 Azi. AV EL HAAT dBk 60-F5

000	1843.7	412.3	-1.00	34.67
010	1812.2	443.8	0.00	37.82
020	1808.0	448.0	0.00	38.00
030	1754.0	502.0	0.00	40.39
040	1719.2	536.8	0.00	42.02
050	1718.3	537.7	0.00	42.06
060	1695.5	560.5	0.00	43.07
070	1705.4	550.6	0.00	42.64
080	1712.3	543.7	0.00	42.33
090	1712.8	543.2	0.00	42.31
100	1733.8	522.2	0.00	41.32
110	1766.8	489.2	0.00	39.81
120	1817.6	438.4	0.00	37.59
130	1811.3	444.7	0.00	37.86
140	1795.4	460.6	0.00	38.54
150	1835.9	420.1	0.00	36.83
160	1930.9	325.1	0.00	32.56
170	2147.9	108.1	0.00	19.39
180	2168.7	87.3	-1.00	16.14
190	2235.6	20.4	-2.00	9.04
200	2280.7	-24.7	-3.00	8.51
210	2215.5	40.5	-4.00	9.31
220	2247.5	8.5	-5.01	7.52
230	2297.9	-41.9	-6.00	7.10
240	2389.4	-133.4	-6.00	7.10
250	2371.8	-115.8	-6.00	7.10
260	2279.2	-23.2	-6.00	7.10
270	2212.8	43.2	-6.00	8.54
280	2182.1	73.9	-6.00	11.17
290	2286.4	-30.4	-6.00	7.10
300	2416.7	-160.7	-6.00	7.10
310	2420.2	-164.2	-6.00	7.10
320	2349.9	-93.9	-5.01	7.52
330	2249.3	6.7	-4.00	7.99
340	2145.0	111.0	-3.00	16.32
350	1959.1	296.9	-2.00	27.87

Ave El= 2028.58 M HAAT= 227.42 M AMSL= 2256 M