

Discussion

The firm of Munn-Reese has been retained to prepare this Gain/Loss study for the instant KCHF-DT minor change application. The present location of the station is at a mountain site that is often inaccessible during winter months. In the event of transmitter trouble or commercial power failure it is not always possible for maintenance personnel to safely reach the transmitter site. In the event of a commercial power failure the station can only operate until the standby generator depletes its fuel supply because the fuel trucks are also unable to reach the site in bad weather. The proposed site is shared with numerous other radio services including other broadcasters. And although it is also a mountain site it does remain accessible during winter weather.

The attached KCHF-DT Gain and Loss Areas map shows the present licensed contour and the contour proposed in the instant application. The respective gain and loss areas are labeled in this exhibit.

Other services entering the KCHF-DT licensed and proposed contours are shown in the other attached map which was prepared with the V-Soft Probe 4 software using a currently updated database of stations. The software was used to color code the number of services available.


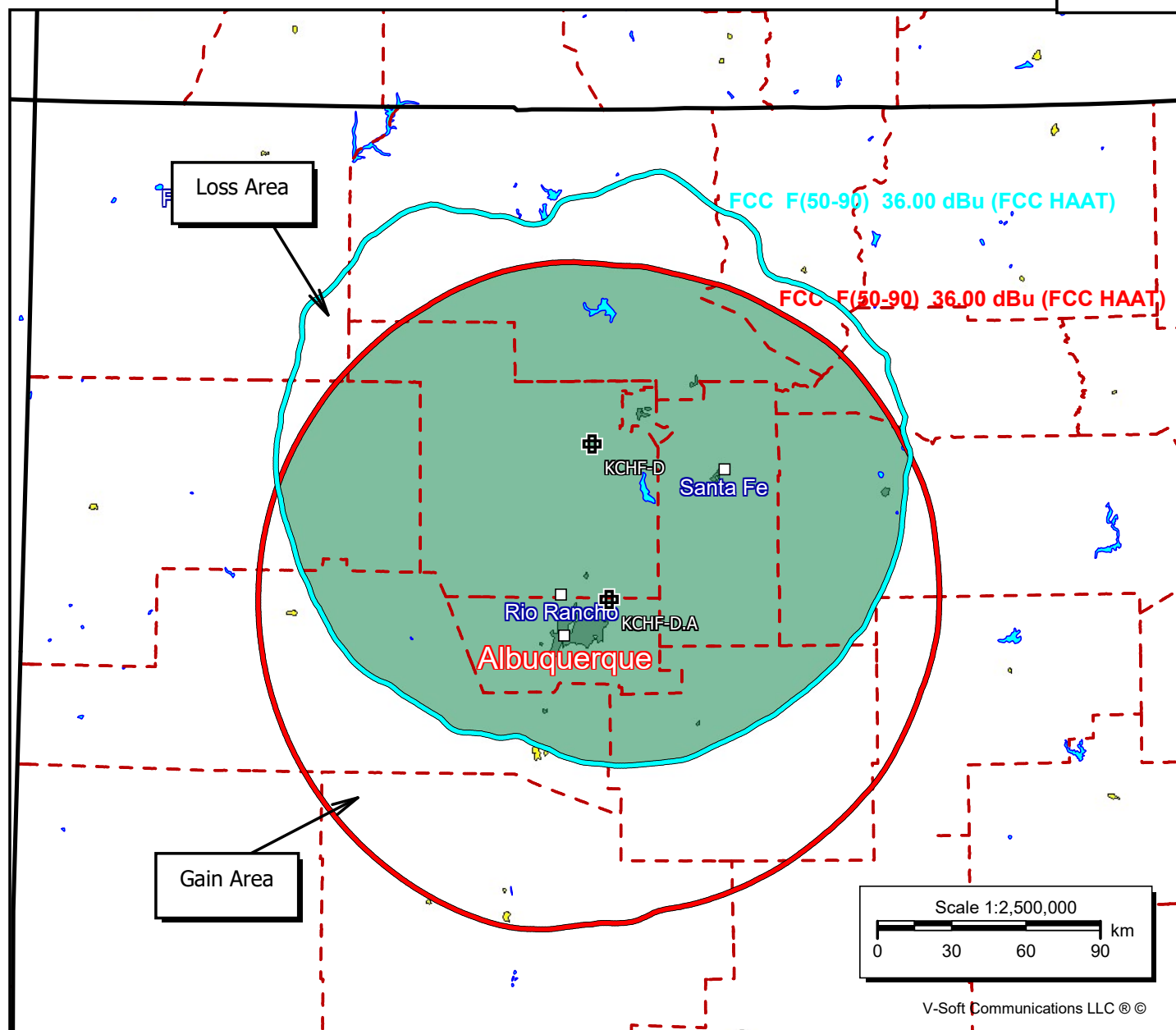
The attached Gain/Loss Population Report tabulates the population that will have five or fewer services available in the gain and loss areas. Further details are provided in the Tabulation of Services within the Licensed KCHF-DT Contour and the Tabulation of Services within the Proposed KCHF-DT Contour. In each case only 0.2% of the population within each contour will receive less than five services. This population is de minimis, especially in view of the increased reliability of service from the proposed site.

KCHF-D

0000004531
Latitude: 35-46-49 N
Longitude: 106-31-36 W
ERP: 30.00 kW
Channel: 10
Frequency: 195.0 MHz
AMSL Height: 3085.5 m
Elevation: 3000.5 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 0.5
Prop Model: None

KCHF-D.A

0000159381
Latitude: 35-12-53.51 N
Longitude: 106-27-03.94 W
ERP: 22.00 kW
Channel: 10
Frequency: 195.0 MHz
AMSL Height: 3261.43 m
Elevation: 3234.0 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 2.0
Prop Model: None

 KCHF-D (10) KCHF-D.A (10)**KCHF-DT**
Gain and Loss
Areas

KCHF-D

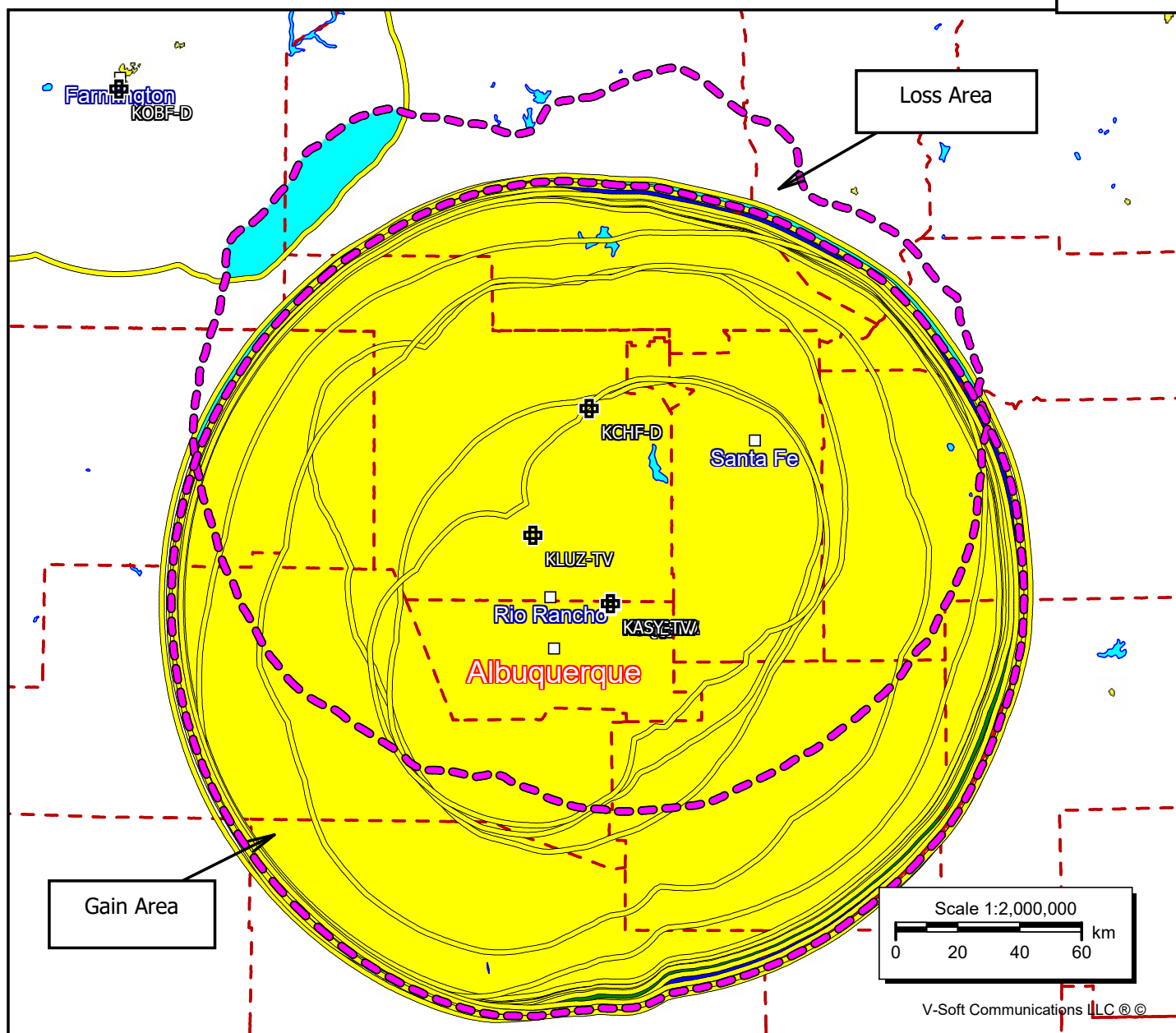
0000004531
 Latitude: 35-46-49 N
 Longitude: 106-31-36 W
 ERP: 30.00 kW
 Channel: 10
 Frequency: 195.0 MHz
 AMSL Height: 3085.5 m
 Elevation: 3000.5 m
 Horiz. Pattern: Omni
 Vert. Pattern: Yes
 Elec Tilt: 0.5
 Prop Model: None

KCHF-D.A

0000159381
 Latitude: 35-12-53.51 N
 Longitude: 106-27-03.94 W
 ERP: 22.00 kW
 Channel: 10
 Frequency: 195.0 MHz
 AMSL Height: 3261.43 m
 Elevation: 3234.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: Yes
 Elec Tilt: 2.0
 Prop Model: None

Service Count

- 1
- 2
- 3
- 4
- 5 or more



Gain/Loss Population Report

Population Database: 2010 US Census (PL)

Proposed: Service Count: REF->KCHF-D.A (10): FCC F(50-90) 36.00 dBu
(FCC HAAT)

Existing: Service Count: REF->KCHF-D (10): FCC F(50-90) 36.00 dBu (FCC
HAAT)

Gain Area Total Population: 55,312

Loss Area Total Population: 7,806

Common Area Total Population: 1,104,178

Net Gain in Total Population: 47,506

Number of Services -----	Gain ----	Loss ----	Net Gain -----
1	21	6,306	-6,285
2	128	1,464	-1,336
3	285	36	249
4	466	0	466
5 or more	54,412	0	54,412

Munn-Reese

Broadcast Engineering Consultants
Coldwater, MI 49036

Tabulation of Services within the Licensed KCHF-DT Contour

Service Count Population Report - Service Count: REF->KCHF-D (10): FCC
F(50-90) 36.00 dBu (FCC HAAT)

Reference Area: REF->KCHF-D (10): FCC F(50-90) 36.00 dBu (FCC HAAT)

Counting Grid Cell Size: 0.5 sq. km

Population Database: 2010 US Census (PL)

Services Included in Count:

KOAT-TV (7): FCC F(50-90) 36.00 dBu (FCC HAAT)
KNMD-TV (8): FCC F(50-90) 36.00 dBu (FCC HAAT)
KOB-F-D (12): FCC F(50-90) 36.00 dBu (FCC HAAT)
KRQE-D (13): FCC F(50-90) 36.00 dBu (FCC HAAT)
KTEL-CD (15): FCC F(50-90) 51.00 dBu (FCC HAAT)
KTFQ-TV (16): FCC F(50-90) 41.00 dBu (FCC HAAT)
KAZQ-D (17): FCC F(50-90) 41.00 dBu (FCC HAAT)
KYNM-CD (21): FCC F(50-90) 51.00 dBu (FCC HAAT)
KLUZ-TV (22): FCC F(50-90) 41.00 dBu (FCC HAAT)
KNAT-TV (24): FCC F(50-90) 41.00 dBu (FCC HAAT)
KOB-D (26): FCC F(50-90) 41.00 dBu (FCC HAAT)
KASA-TV (27): FCC F(50-90) 41.00 dBu (FCC HAAT)
KWBQ-D (29): FCC F(50-90) 41.00 dBu (FCC HAAT)
KNME-TV (35): FCC F(50-90) 41.00 dBu (FCC HAAT)
KASY-TV (36): FCC F(50-90) 41.00 dBu (FCC HAAT)

Count Area	Population	Housing Units	Area (sq. km)
1 Service	1,464	666	1767.71
2 Service	110	81	250.13
3 Service	478	290	500.23
4 Service	382	250	311.90
5 or more	1,103,244	479,981	37923.92
Reference Area	1,111,984	485,068	46343.30

	Service Pop	Running Total	Percent
1 Service	1,464	1,464	0.1 %
2 Service	110	1,574	0.1 %
3 Service	478	2,052	0.2 %
4 Service	382	2,434	0.2 %
5 or more	1,103,244	1,105,678	100.0 %

	Housing Units	Population
New Mexico		
Bernalillo County		
Total	284,234	662,564
5 or more	284,234	662,564
Reference Area	284,234	662,564
Cibola County		
Total	11,101	27,213
5 or more	2,636	7,963
Reference Area	2,636	7,963

Tabulation of Services within the Licensed KCHF-DT Contour

Guadalupe County		
Total	2,393	4,687
5 or more	3	4
Reference Area	3	4
Los Alamos County		
Total	8,354	17,950
5 or more	8,354	17,950
Reference Area	8,354	17,950
McKinley County		
Total	25,813	71,492
1 Service	8	18
2 Service	0	0
3 Service	0	0
4 Service	3	10
5 or more	785	1,737
Reference Area	799	1,771
Mora County		
Total	3,232	4,881
1 Service	137	206
2 Service	53	50
3 Service	190	337
4 Service	139	231
5 or more	1,179	2,001
Reference Area	2,172	3,545
Rio Arriba County		
Total	19,638	40,246
1 Service	151	325
2 Service	6	3
3 Service	39	40
4 Service	32	34
5 or more	15,168	32,958
Reference Area	16,205	34,354
San Juan County		
Total	49,341	130,044
1 Service	269	801
2 Service	0	0
4 Service	0	0
5 or more	0	0
Reference Area	317	930
San Miguel County		
Total	15,595	29,393
1 Service	0	0
2 Service	0	0
3 Service	0	0
4 Service	7	17
5 or more	14,480	28,541
Reference Area	14,487	28,558

Tabulation of Services within the Licensed KCHF-DT Contour

Sandoval County		
Total	52,287	131,561
1 Service	24	60
2 Service	22	57
3 Service	9	24
4 Service	11	24
5 or more	52,167	131,258
Reference Area	52,287	131,561
Santa Fe County		
Total	71,267	144,170
5 or more	71,267	144,170
Reference Area	71,267	144,170
Taos County		
Total	20,265	32,937
1 Service	77	54
2 Service	0	0
3 Service	52	77
4 Service	58	66
5 or more	1,852	3,218
Reference Area	4,451	7,734
Torrance County		
Total	7,798	16,383
5 or more	6,383	14,057
Reference Area	6,383	14,057
Valencia County		
Total	30,085	76,569
5 or more	21,473	56,823
Reference Area	21,473	56,823

Tabulation of Services within the Proposed KCHF-DT Contour

Service Count Population Report - Service Count: REF->KCHF-D.A (10): FCC
F(50-90) 36.00 dBu (FCC HAAT)

Reference Area: REF->KCHF-D.A (10): FCC F(50-90) 36.00 dBu (FCC HAAT)

Counting Grid Cell Size: 0.5 sq. km

Population Database: 2010 US Census (PL)

Services Included in Count:

KOAT-TV (7): FCC F(50-90) 36.00 dBu (FCC HAAT)
KNMD-TV (8): FCC F(50-90) 36.00 dBu (FCC HAAT)
KOB-F-D (12): FCC F(50-90) 36.00 dBu (FCC HAAT)
KRQE-D (13): FCC F(50-90) 36.00 dBu (FCC HAAT)
KTEL-CD (15): FCC F(50-90) 51.00 dBu (FCC HAAT)
KTFQ-TV (16): FCC F(50-90) 41.00 dBu (FCC HAAT)
KAZQ-D (17): FCC F(50-90) 41.00 dBu (FCC HAAT)
KYNM-CD (21): FCC F(50-90) 51.00 dBu (FCC HAAT)
KLUZ-TV (22): FCC F(50-90) 41.00 dBu (FCC HAAT)
KNAT-TV (24): FCC F(50-90) 41.00 dBu (FCC HAAT)
KOB-D (26): FCC F(50-90) 41.00 dBu (FCC HAAT)
KASA-TV (27): FCC F(50-90) 41.00 dBu (FCC HAAT)
KWBQ-D (29): FCC F(50-90) 41.00 dBu (FCC HAAT)
KNME-TV (35): FCC F(50-90) 41.00 dBu (FCC HAAT)
KASY-TV (36): FCC F(50-90) 41.00 dBu (FCC HAAT)

Count Area	Population	Housing Units	Area (sq. km)
1 Service	21	10	46.45
2 Service	202	112	559.19
3 Service	763	430	1030.93
4 Service	848	449	1032.07
5 or more	1,157,656	503,733	55321.78
Reference Area	1,159,490	504,734	57990.42

	Service Pop	Running Total	Percent
1 Service	21	21	0.0 %
2 Service	202	223	0.0 %
3 Service	763	986	0.1 %
4 Service	848	1,834	0.2 %
5 or more	1,157,656	1,159,490	100.0 %

	Housing Units	Population
New Mexico		
Bernalillo County		
Total	284,234	662,564
5 or more	284,234	662,564
Reference Area	284,234	662,564
Catron County		
Total	3,289	3,725
5 or more	0	0
Reference Area	0	0

Tabulation of Services within the Proposed KCHF-DT Contour

Cibola County		
Total	11,101	27,213
3 Service	0	0
4 Service	62	174
5 or more	9,165	24,149
Reference Area	9,227	24,323
Guadalupe County		
Total	2,393	4,687
2 Service	6	3
3 Service	2	5
4 Service	13	12
5 or more	373	614
Reference Area	394	634
Lincoln County		
Total	17,519	20,497
2 Service	2	0
3 Service	2	3
4 Service	7	7
5 or more	0	0
Reference Area	11	10
Los Alamos County		
Total	8,354	17,950
5 or more	8,354	17,950
Reference Area	8,354	17,950
McKinley County		
Total	25,813	71,492
2 Service	5	12
3 Service	14	18
4 Service	3	10
5 or more	1,012	2,288
Reference Area	1,034	2,328
Mora County		
Total	3,232	4,881
2 Service	50	39
3 Service	190	337
4 Service	139	231
5 or more	1,179	2,001
Reference Area	1,558	2,608
Rio Arriba County		
Total	19,638	40,246
1 Service	1	0
2 Service	3	0
3 Service	39	40
4 Service	32	34
5 or more	15,168	32,958
Reference Area	15,243	33,032
San Juan County		
Total	49,341	130,044
4 Service	0	0
5 or more	0	0
Reference Area	0	0

Tabulation of Services within the Proposed KCHF-DT Contour

San Miguel County		
Total	15,595	29,393
2 Service	1	2
3 Service	1	4
4 Service	10	19
5 or more	14,634	28,878
Reference Area	14,646	28,903
Sandoval County		
Total	52,287	131,561
2 Service	14	35
3 Service	9	24
4 Service	11	24
5 or more	52,167	131,258
Reference Area	52,201	131,341
Santa Fe County		
Total	71,267	144,170
5 or more	71,267	144,170
Reference Area	71,267	144,170
Socorro County		
Total	8,059	17,866
1 Service	9	21
2 Service	10	77
3 Service	97	232
4 Service	105	254
5 or more	6,511	14,740
Reference Area	6,732	15,324
Taos County		
Total	20,265	32,937
1 Service	0	0
3 Service	52	77
4 Service	58	66
5 or more	1,852	3,218
Reference Area	1,962	3,361
Torrance County		
Total	7,798	16,383
2 Service	21	34
3 Service	24	23
4 Service	9	17
5 or more	7,732	16,299
Reference Area	7,786	16,373
Valencia County		
Total	30,085	76,569
5 or more	30,085	76,569
Reference Area	30,085	76,569