

## Channel Study

REFERENCE		CH# 215C0- 90.9 MHz, Pwr= 100 kW, HAAT= 344.6 M, COR= 2749 M								DISPLAY DATES	
41 18 38.9 N.		Average Protected F(50-50)= 75.7 km								DATA 10-15-19	
105 27 13.9 W.		Omni-directional								SEARCH 10-15-19	
CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr (kW)	INT (km)	PRO (km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT (M)	COR (M)	LICENSEE	(Overlap in km)	
215C0	KLWV!	LIC		0.0	0.00	41 18 38.9	100.000			---	Reference---
Chugwater			WY	0.0	BLED20040621ABR	105 27 13.9	361	2765	Educational Media Foundati		
218C1	KUNC	LIC		172.2	77.72	40 37 02.9	36.000	9.0	73.0	11.0	-2.2<
Greeley			CO	352.2	BLED20070727ACF	105 19 40.9	384	2565	Community Radio For Northe		
214C3	KUWV	LIC		42.7	156.08	42 20 02.6	14.000	58.9	39.2	20.1	3.2
Lingle			WY	223.6	BLED20110316AAQ	104 09 58.0	96	1510	University Of Wyoming		
212C2	KWYC	LIC		96.8	84.88	41 13 00.9	20.500	3.7	36.3	6.6	38.0
Cheyenne			WY	277.4	BLED20100511ABH	104 26 54.9	130	1848	Calvary Chapel Of Twin Fal		
214A	KENC	LIC D		183.1	105.67	40 21 37.9	0.200	12.5	8.9	35.9	9.9
Estes Park			CO	3.0	BMLED20130109AGF	105 31 13.9	13	2730	Community Radio For Northe		
216C	KTNE-FM	LIC		72.8	208.48	41 50 23.8	100.000	122.1	82.2	10.3	14.6
Alliance			NE	254.4	BLED19900515KB	103 03 19.7	404	1669	Nebraska Educational Telec		
213C3	KCSU-FM	LIC		162.4	82.81	40 35 59.9	10.000	1.8	18.1	19.9	57.1
Fort Collins			CO	342.6	BLED19850124LR	105 09 22.9	-108	1613	Board Of Governors Of The		
216C0	KLDV	LIC		173.7	191.09	39 35 59.9	100.000	112.3	76.4	21.6	27.9
Morrison			CO	353.9	BMLED20160830ABQ	105 12 36.9	356	2448	Educational Media Foundati		
214A	KGUD	CP D		164.1	123.57	40 14 23.9	0.900	13.1	9.4	49.8	23.7
Longmont			CO	344.4	BPED20180619AAN	105 03 20.9	83	1619	Longmont Community Radio		
214A	KGUD	LIC		164.1	123.57	40 14 23.9	0.100	12.7	9.1	50.2	24.0
Longmont			CO	344.4	BLED19821018AU	105 03 20.9	82	1613	Longmont Community Radio		
215A	KVNC	LIC		204.4	206.28	39 36 57.9	0.100	18.6	5.6	113.5	25.8
Minturn			CO	23.8	BLED20130927ATU	106 27 00.1	-211	2726	Community Radio For Northe		
215C2	KUWW	LIC		298.8	304.79	42 34 58.8	4.700	126.5	51.7	92.1	62.9
Fort Washakie			WY	116.6	BLED20180402ACK	108 42 38.4	419	2776	University Of Wyoming		
269A	KZEW«	LIC		27.1	91.87	42 02 43.8	3.000	0.0	0.0	28.5R	63.4M
Wheatland			WY	207.4	BLH19850723KC	104 56 48.8	38	1503	Smith Broadcasting, Incorp		
215A	KTOL	LIC		197.6	241.50	39 14 05.0	0.450	27.7	8.3	143.5	63.7
Leadville			CO	17.0	BLED20080606AAR	106 18 01.1	-207	3083	Educational Communications		
214A	KMPB	CP		193.8	207.31	39 29 46.9	3.750	61.1	41.1	78.8	67.2
Breckenridge			CO	13.4	BPED20171114AAM	106 01 45.0	-94	3227	Community Radio For Northe		
06N--	KXDP-LP«	LI D N		174.9	155.78	39 54 48.0	3.000	39.2	40.6	79.8R	76.0M
Denver			CO	355.0	BLTVL-20100716ABT	105 17 32.9		2536			
06 --	KXDP-LP«	CP D N		174.9	155.78	39 54 48.0	3.000	32.6	40.6	73.2R	82.6M
Denver			CO	355.0	BDFCDVL-20141003AC	105 17 32.9		2536			

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM  
 Contour distances are on direct line to and from reference station. Reference Zone= - Zone 2, Co to 3rd adjacent.  
 All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected.  
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
 « = Station meets FCC minimum distance spacing for its class.  
 < = Contour Overlap

**Part 2**

Educational Media Foundation ("EMF") desires to modify its licensed antenna center of radiation for KLWV Chugwater, WY. The proposed modification of a licensed facility meets all contour protection requirements except one licensed station.

As seen in Exhibit 18 Part 1 of this channel study, this proposed modification of KLWV will continue to overlap the service contour of KNUC.

KNUC agreed to accept interference from KLWV as stated in their application for construction permit BPED-20060822AHM and as seen in the underlying station license BLED-20070727ACF, Special Operating Procedure Number 2: *"Further modifications to the facilities KLWV(FM), BLED-20040621ABR, FID #91514, Chugwater, WY, and KUWR(FM), BLED-19941031KW, FID #69131, Laramie, WY, will not be construed as per se modification of KUNC's license (BLED-20070727ACF). (See "Educational Information Corporation" 6 FCC Rcd 2207)."*

Therefore, EMF is in compliance with this proposed minor modification of a license.

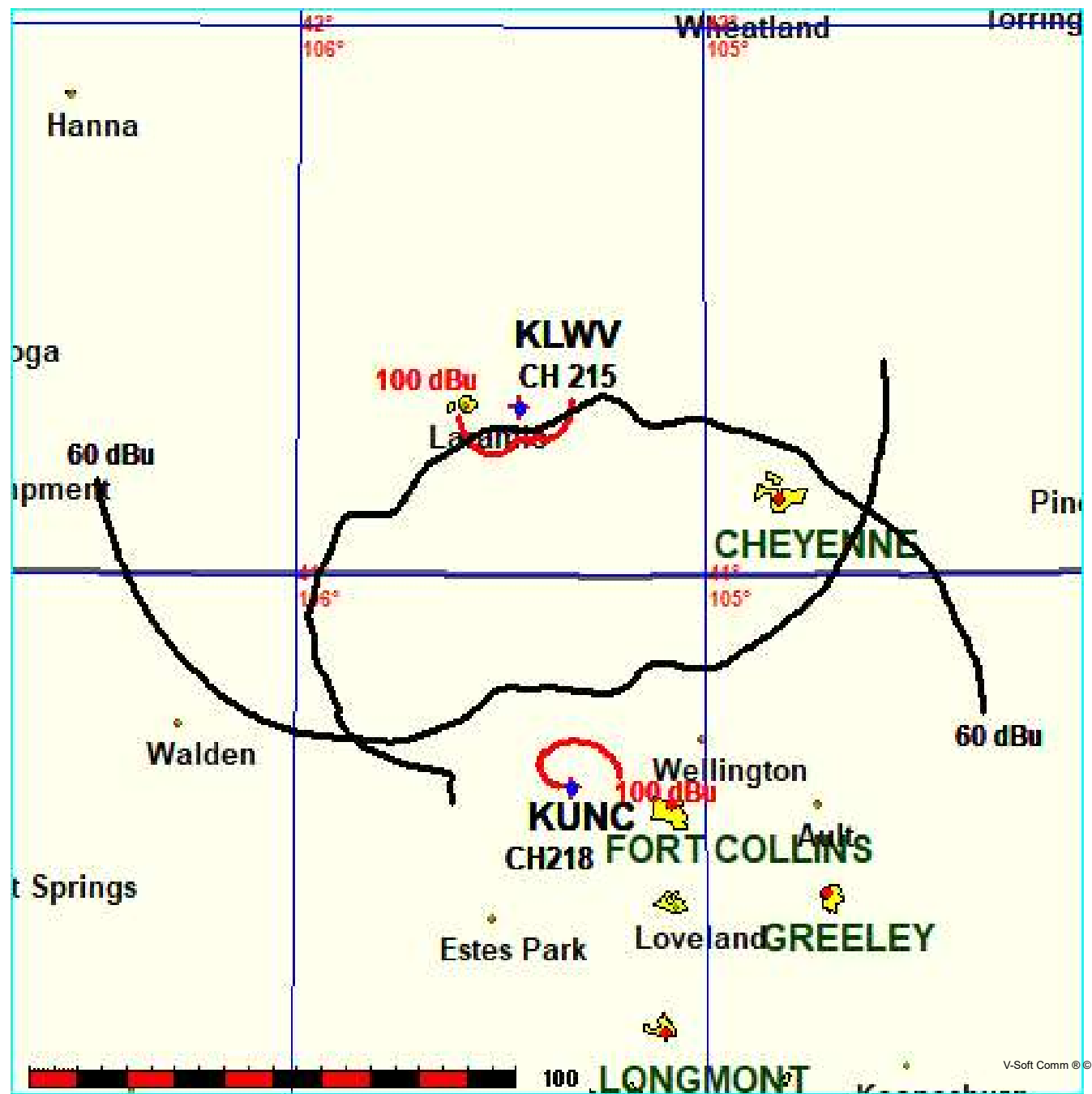
FMCommander Single Allocation Study - 10-15-2019 - FCC NGDC 30 Sec  
KLWV's Overlaps (In= 11.03 km, Out= -2.2 km)

KLWV CH 215 C0

Lat= 41 18 38.9, Lng= 105 27 13.9  
100.0 kW 344.6 m HAAT, 2749 m COR  
Prot.= 60 dBu, Intef.= 100 dBu

KUNC CH 218 C1 BLED20070727ACF

Lat= 40 37 02.9, Lng= 105 19 40.9  
36.0 kW 384 m HAAT, 2565 m COR  
Prot.= 60 dBu, Intef.= 100 dBu



Educational Media Foundation

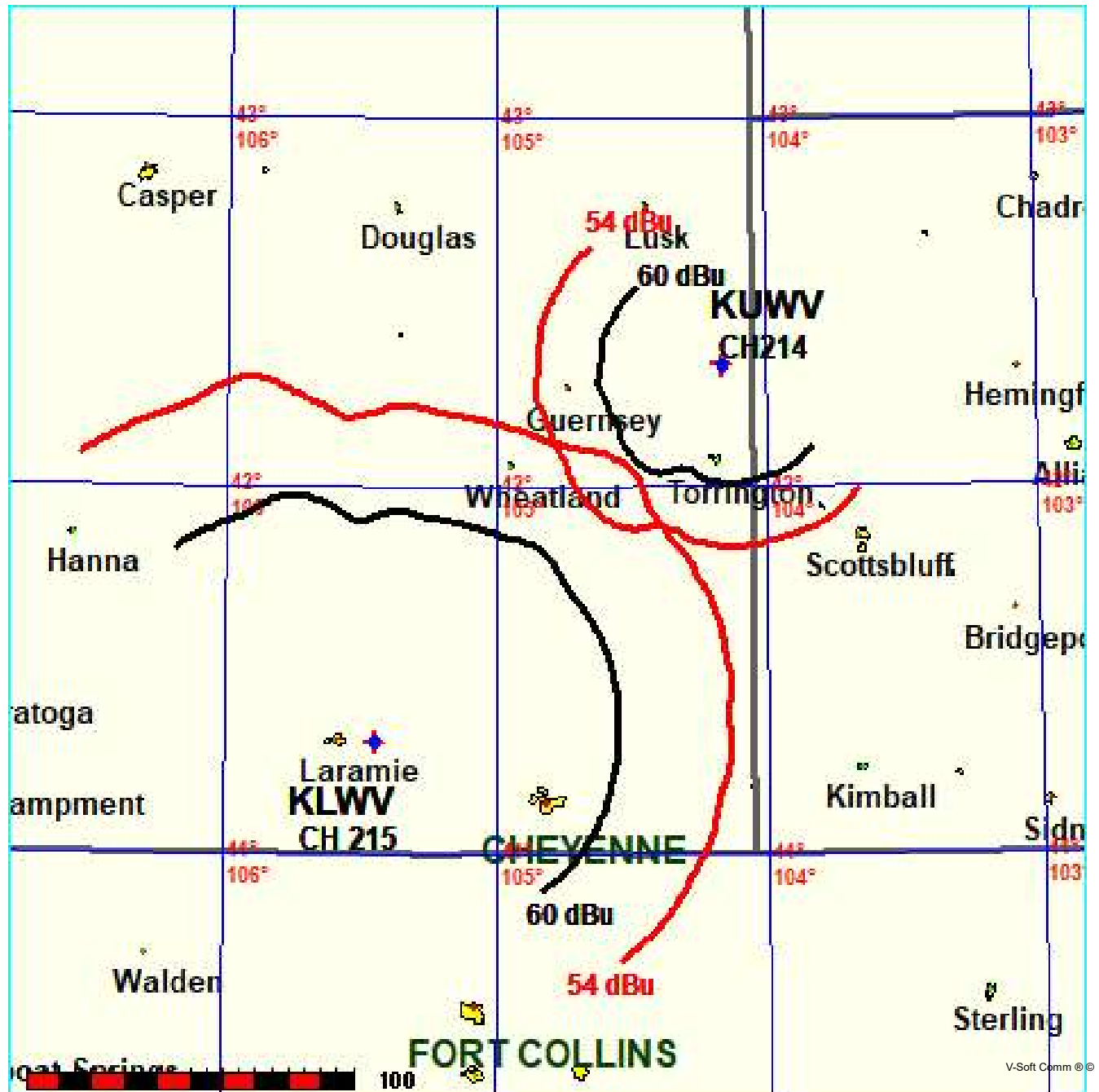
FMCommander Single Allocation Study - 10-15-2019 - FCC NGDC 30 Sec  
KLWV's Overlaps (In= 20.13 km, Out= 3.18 km)

KLWV CH 215 C0

Lat= 41 18 38.9, Lng= 105 27 13.9  
100.0 kW 344.6 m HAAT, 2749 m COR  
Prot.= 60 dBu, Intef.= 54 dBu

KUWV CH 214 C3 BLED20110316AAQ

Lat= 42 20 02.6, Lng= 104 09 58.0  
14.0 kW 96.1 m HAAT, 1510 m COR  
Prot.= 60 dBu, Intef.= 54 dBu



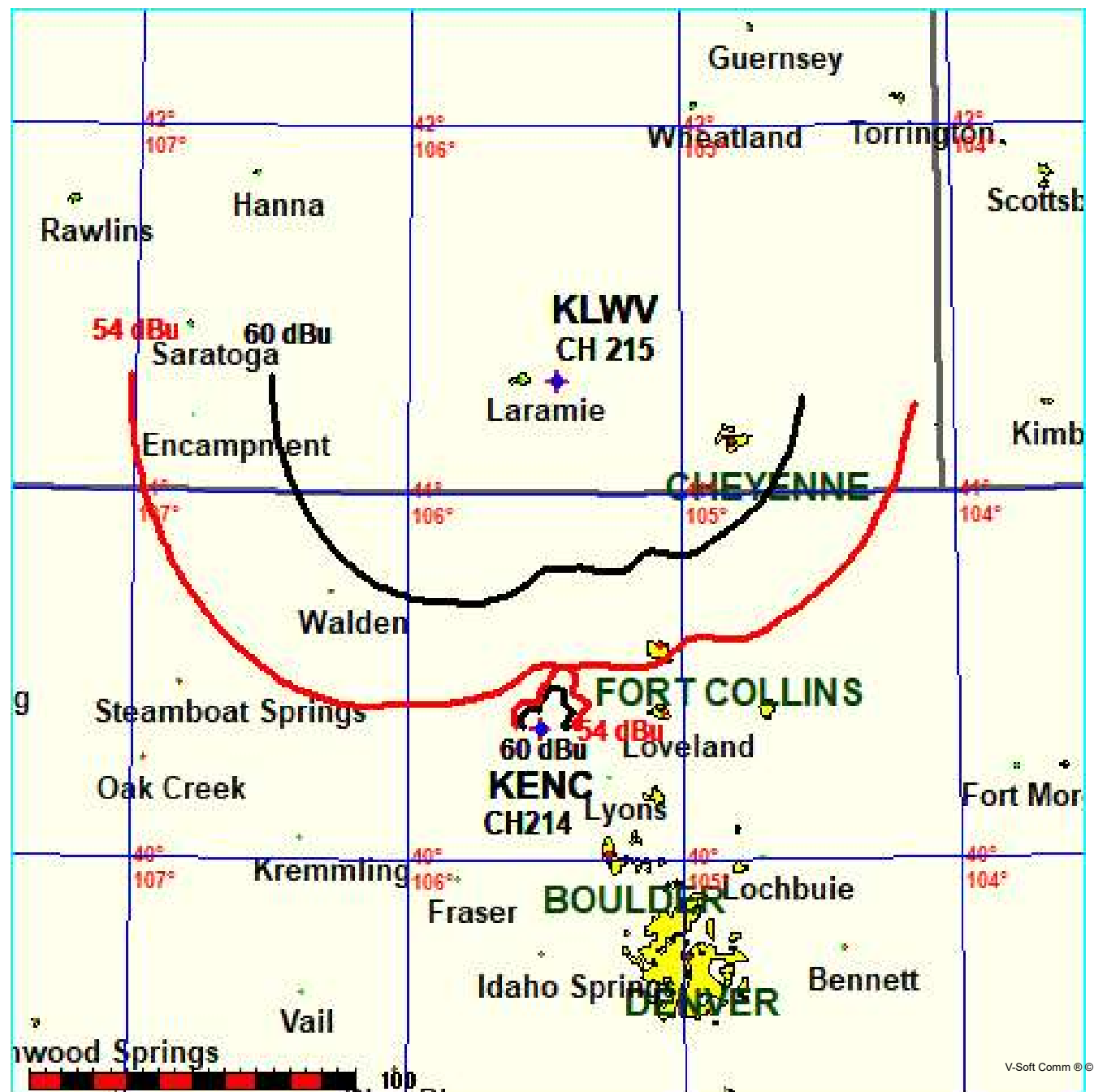
FMCommander Single Allocation Study - 10-15-2019 - FCC NGDC 30 Sec  
KLWV's Overlaps (In= 35.91 km, Out= 9.93 km)

KLWV CH 215 C0

Lat= 41 18 38.9, Lng= 105 27 13.9  
100.0 kW 344.6 m HAAT, 2749 m COR  
Prot.= 60 dBu, Intef.= 54 dBu

KENC CH 214 A DA BMLED20130109AGF

Lat= 40 21 37.9, Lng= 105 31 13.9  
0.2 kW 13 m HAAT, 2730 m COR  
Prot.= 60 dBu, Intef.= 54 dBu



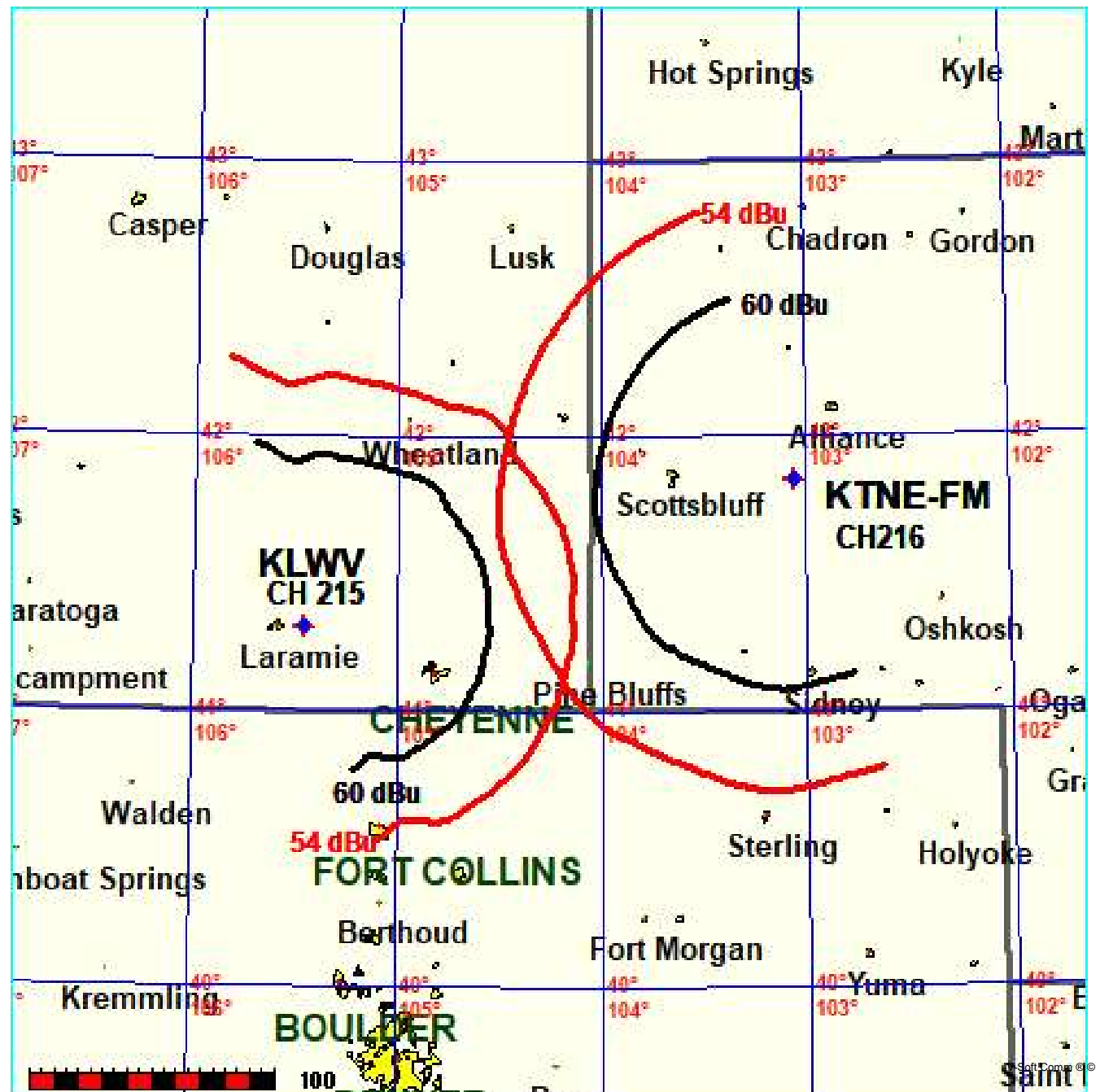
FMCommander Single Allocation Study - 10-15-2019 - FCC NGDC 30 Sec  
KLWV's Overlaps (In= 10.25 km, Out= 14.61 km)

KLWV CH 215 C0

Lat= 41 18 38.9, Lng= 105 27 13.9  
100.0 kW 344.6 m HAAT, 2749 m COR  
Prot.= 60 dBu, Intef.= 54 dBu

KTNE-FM CH 216 C BLED19900515KB

Lat= 41 50 23.8, Lng= 103 03 19.7  
100.0 kW 404 m HAAT, 1669 m COR  
Prot.= 60 dBu, Intef.= 54 dBu



FMCommander Single Allocation Study - 10-15-2019 - FCC NGDC 30 Sec  
KLWV's Overlaps (In= 21.56 km, Out= 27.93 km)

KLWV CH 215 C0

Lat= 41 18 38.9, Lng= 105 27 13.9  
100.0 kW 344.6 m HAAT, 2749 m COR  
Prot.= 60 dBu, Intef.= 54 dBu

KLDV CH 216 C0 BMLED20160830ABQ

Lat= 39 35 59.9, Lng= 105 12 36.9  
100.0 kW 356 m HAAT, 2448 m COR  
Prot.= 60 dBu, Intef.= 54 dBu

