

### **Application Purpose**

This proposed minor modification of KLMK FIN 84852 Marvell, AR is to specify a change in the directional antenna make and model resulting in a change in the Center of Radiation Above Ground Level. No change in the currently licensed location or directional pattern is proposed. The supporting exhibits included in this application show no overlap to any existing or proposed facilities will be created by this proposed modification.

## Channel Study

REFERENCE		CH# 214C2- 90.7 MHz, Pwr= 50 kW DA, HAAT= 142.9 M, COR= 193.4 M								DISPLAY DATES	
34 37 20.4 N.		Average Protected F(50-50)= 51.2 km								DATA 04-18-24	
90 58 44.4 W.		Standard Directional								SEARCH 04-24-24	
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*
214C2 Marvell	KLMK!	LIC AR	DCN	0.0 0.0	0.00 BLED20100305AAT	34 37 20.40 90 58 44.40	50.000 148	201	---Reference---		
214C2 Marvell	KLMK!	STA AR	DCN	0.0 0.0	0.00 0000211506	34 37 20.40 90 58 44.40	50.000 148	201	---Reference---		
214D Oxford	W214BL!	LIC MS	CN	102.5 283.3	135.26 BLFT20011005ABP	34 21 00.40 89 32 25.30	0.038 66	24.2 186	7.2 Educational Media Foundati	59.9	-8.7*
214C1 Dyersburg	WZKV	LIC TN	EN	39.0 219.9	212.89 BMLED20181115AAB	36 06 02.30 89 29 11.30	100.000 171	159.5 259	62.0 Educational Media Foundati	2.1	14.1
215C1 Greenwood	WMAO-FM	LIC MS	CN	163.7 343.9	144.27 BMLED20090522AAS	33 22 34.40 90 32 32.30	100.000 268	102.3 302	70.1 Mississippi Authority For	2.6	16.5
213C2 Little Rock	KLRE-FM	LIC AR	CN	273.2 92.4	122.69 BLED20111117AMZ	34 40 34.00 92 19 08.00	40.000 75	64.3 170	41.0 Board Of Trustees Of The U	7.1	4.6
213C2 Jonesboro	KAOG	LIC AR	DCN	6.5 186.6	132.91 BLED20000127AAM	35 48 36.30 90 48 45.40	40.000 121	69.3 200	44.9 American Family Associatio	13.1	10.1
213D West Memphis	K213CN!	LIC AR	CN	54.6 235.1	98.71 BLFT20060530AKB	35 08 00.30 90 05 38.30	0.080 40	9.6 107	6.7 Community Broadcasting, In	38.1	15.0
268C3 Friar's Point	WWUN-FM«	LIC MS	NCN	100.6 280.8	32.85 BMLED20090629AAE	34 34 02.40 90 37 37.40	14.000 120	30.5 180	20.7 CSN International	16.5R	16.4M
215C3 Newark	KLLN	LIC AR	CN	341.1 160.8	129.54 BLED19860116KD	35 43 25.20 91 26 40.40	4.000 139	49.2 236	32.8 Cedar Ridge School Distric	29.1	19.6
217C3 Clarksdale	WCQC	LIC MS	DHN	156.9 337.1	63.58 BLED20151113AHQ	34 05 45.40 90 42 29.40	15.000 109	3.6 151	36.0 Quitman County Development	19.9	23.6
215A Gravel Ridge	KNFR	LIC AR	DEN	293.4 112.8	108.67 BLED20110224ACO	35 00 21.30 92 04 26.50	1.500 125	13.7 226	9.8 Fellowship Christian Churc	43.7	21.1
214C3 Melbourne	KLRM	LIC AR	DVN	324.9 144.2	200.62 BLED20080505AEG	36 05 31.30 92 15 46.60	7.000 188	96.8 421	33.4 Educational Media Foundati	53.8	27.0
06+-- Memphis	WPGF-LD	STA TN	CN	58.0 238.7	124.43 0000153527	33 25 45.40 94 07 11.70	3.000 331	34.1 331	63.3	97.4R	27.1M
06+-- Memphis	WPGF-LD	LI TN	CN	58.0 238.7	124.43 0000093309	33 25 45.40 94 07 11.70	3.000 331	34.1 331	63.3	97.4R	27.1M
06+-- Memphis	WPGF-LD	STA TN	CN	58.0 238.7	124.43 0000181457	33 25 45.40 94 07 11.70	3.000 331	31.0 331	63.3	94.3R	30.1M
06+-- Memphis	WPGF-LD	LI TN	CN	58.0 238.7	124.43 0000181449	33 25 45.40 94 07 11.70	3.000 331	31.0 331	63.3	94.3R	30.1M
211C3 Cherry Valley	KVCV	LIC AR	CN	15.5 195.6	86.91 BLED20071218ABJ	35 22 31.30 90 43 22.40	9.000 115	3.0 192	30.2 Community Broadcasting, In	32.7	50.1
211C3 Cherry Valley	KVCV	STA AR	CN	15.5 195.6	86.91 0000193196	35 22 31.30 90 43 22.40	9.000 115	3.0 192	30.2 Community Broadcasting, In	32.7	50.1
211C3 Cherry Valley	KVCV	STA AR	CN	15.5 195.6	86.91 0000197988	35 22 31.30 90 43 22.40	9.000 115	3.0 192	30.2 Community Broadcasting, In	32.7	50.1
212C Oxford	WMAV-FM	LIC MS	VN	107.1 287.9	122.37 BMLED20090522AAU	34 17 28.40 89 42 21.30	100.000 378	11.4 487	78.9 Mississippi Authority For	59.7	37.6
212C3 765721		APP DCN		312.8 100.84		35 14 08.00	9.000	2.5	26.6	47.0	66.4

Educational Media Foundation  
5700 West Oaks Boulevard  
Rocklin, CA 95765

Exhibit 1  
Marvell, AR

Searcy	AR	132.3	0000167153	91	47	39.00	85	177	Hispanic AMerican Christia
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Terrain database is FCC NGDC 30 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= - ZN2, 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)

"\*"affixed to 'IN' or 'OUT' values = site inside restricted contour.

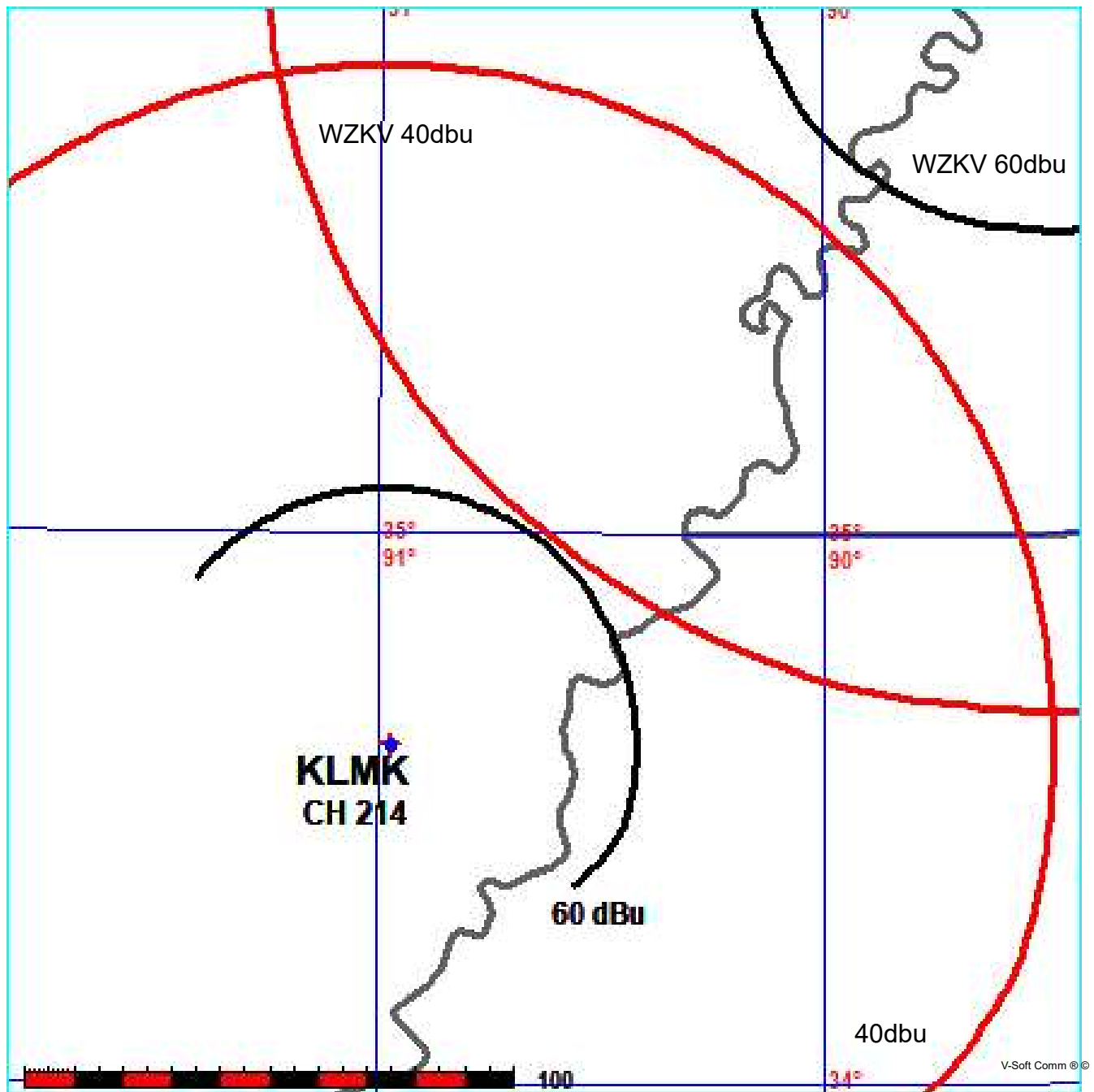
« = Station meets FCC minimum distance spacing for its class.

Educational Media Foundation

FMCommander Single Allocation Study - 04-24-2024 - FCC NGDC 30 Sec  
KLMK's Overlaps (In= 2.11 km, Out= 14.15 km)

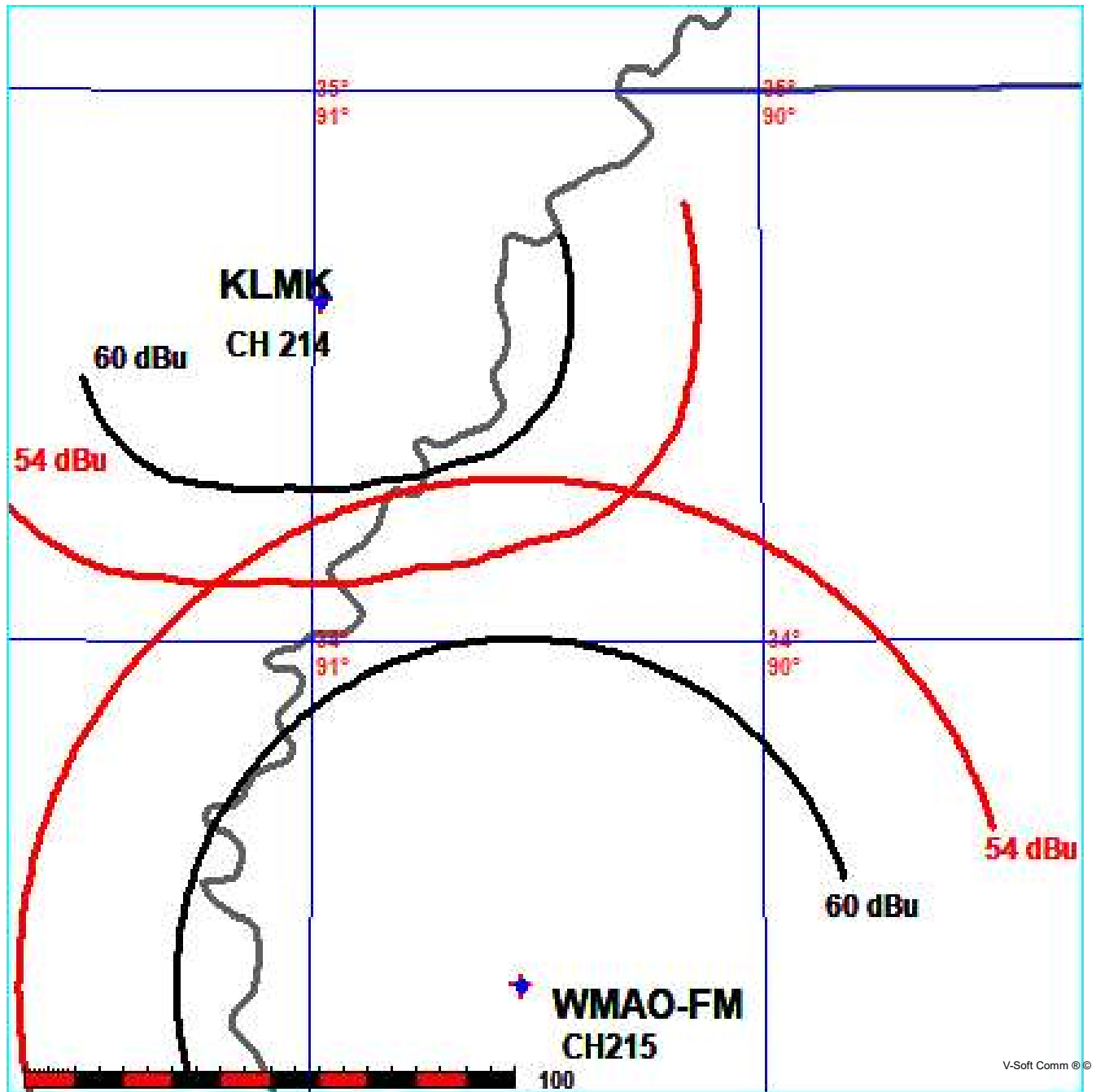
KLMK CH 214 C2 DA  
Lat= 34 37 20.40, Lng= 90 58 44.40  
50.0 kW 142.9 m HAAT, 193.4 m COR  
Prot.= 60 dBu, Intef.= 40 dBu

WZKV CH 214 C1 BMLED20181115AAB  
Lat= 36 06 02.30, Lng= 89 29 11.30  
100.0 kW 171 m HAAT, 259 m COR  
Prot.= 60 dBu, Intef.= 40 dBu



KLMK CH 214 C2 DA  
Lat= 34 37 20.40, Lng= 90 58 44.40  
50.0 kW 142.9 m HAAT, 193.4 m COR  
Prot.= 60 dBu, Intef.= 54 dBu

WMAO-FM CH 215 C1 BMLED20090522AAS  
Lat= 33 22 34.40, Lng= 90 32 32.30  
100.0 kW 268 m HAAT, 302 m COR  
Prot.= 60 dBu, Intef.= 54 dBu



FMCommander Single Allocation Study - 04-24-2024 - FCC NGDC 30 Sec  
KLMK's Overlaps (In= 7.05 km, Out= 4.59 km)

KLMK CH 214 C2 DA  
Lat= 34 37 20.40, Lng= 90 58 44.40  
50.0 kW 142.9 m HAAT, 193.4 m COR  
Prot.= 60 dBu, Intef.= 54 dBu

KLRE-FM CH 213 C2 BLED20111117AMZ  
Lat= 34 40 34.00, Lng= 92 19 08.00  
40.0 kW 75 m HAAT, 170 m COR  
Prot.= 60 dBu, Intef.= 54 dBu

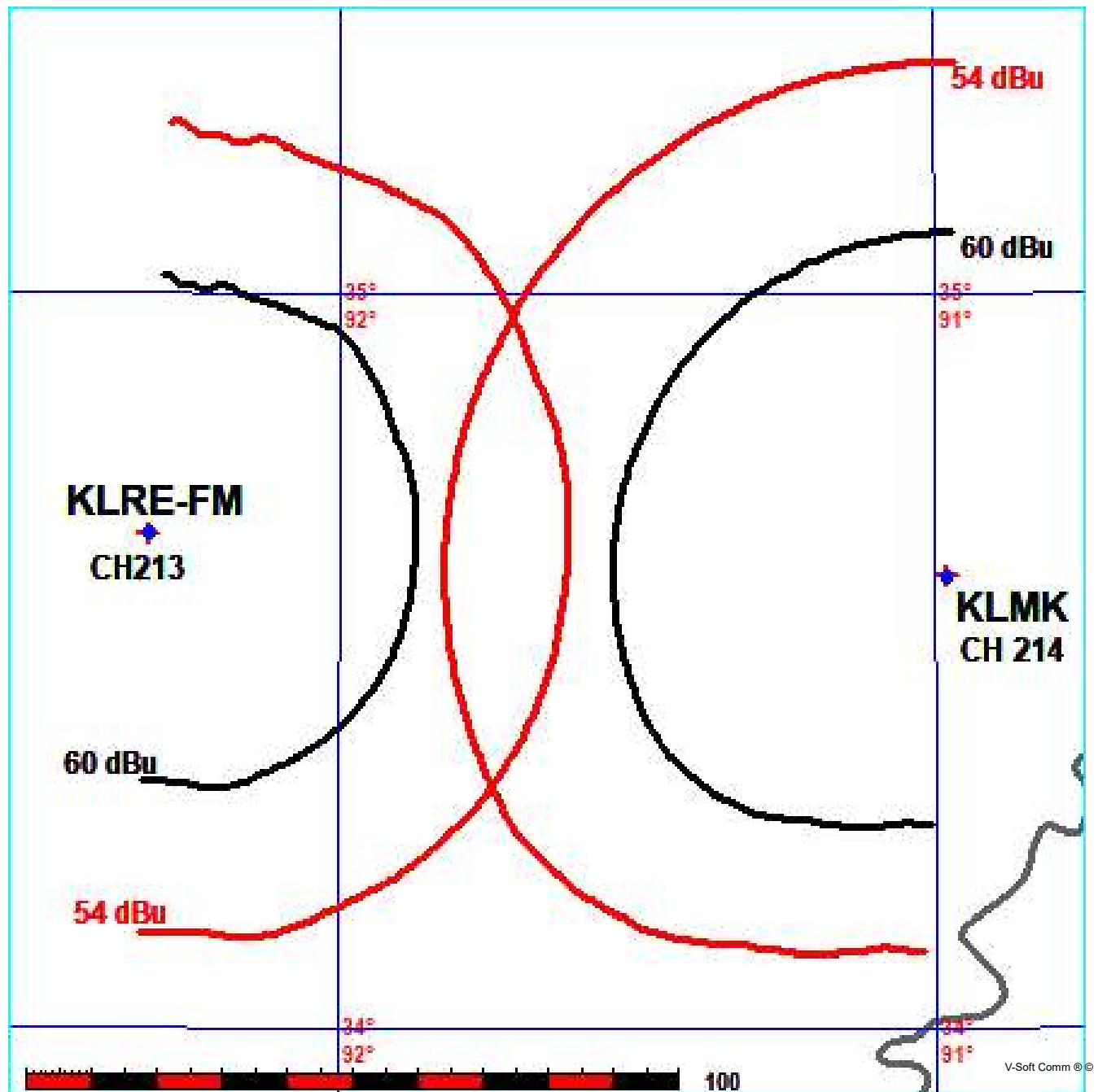


Exhibit 2  
Community of License Compliance

**KLMK.P**

BLED20100305AAT

Latitude: 34-37-20.40 N

Longitude: 090-58-44.40 W

ERP: 50.00 kW

Channel: 214

Frequency: 90.7 MHz

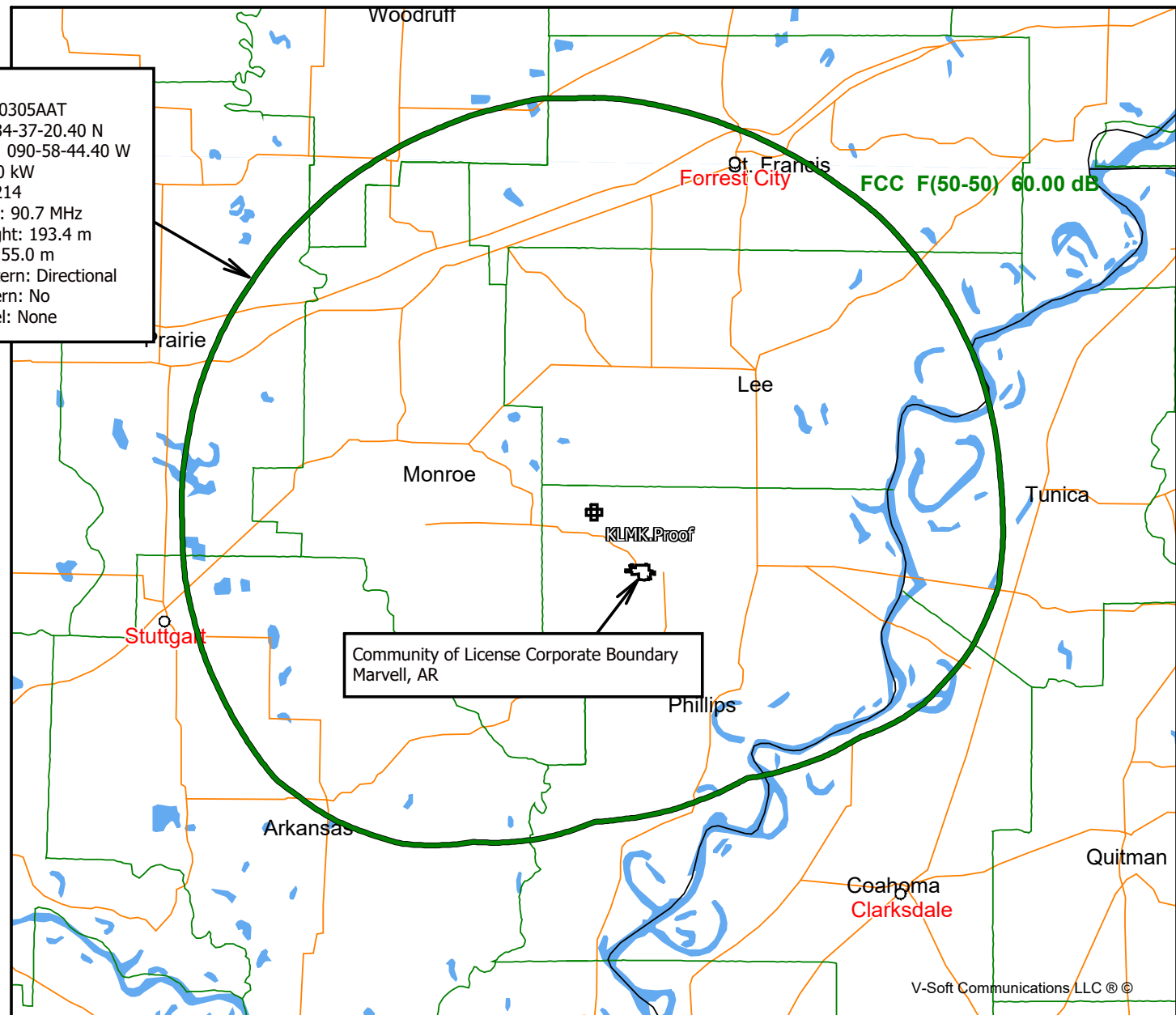
AMSL Height: 193.4 m

Elevation: 55.0 m

Horiz. Pattern: Directional

Vert. Pattern: No

Prop Model: None



Community of License Corporate Boundary  
Marvell, AR

FCC F(50-50) 60.00 dB

Scale 1:750,000



V-Soft Communications LLC ©

### **Environmental Protection**

The proposed KLMK antenna is an ERI EPA Type 3 “rototiller” circularly polarized 8 bay full wave spaced model LP-8C-DA.

The maximum theoretical RF value is  $10.16\mu\text{W}/\text{cm}^2$  at a distance of 38 meters from the tower, which is 5.08% of the  $200\mu\text{W}/\text{cm}^2$  permitted for public (uncontrolled) exposure, and 1.02% of the  $1000\mu\text{W}/\text{cm}^2$  permitted for worker (controlled) exposure.

Therefore, the proposed facility complies with the requirements of OET 65.

EMF will fully cooperate with other future site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site from excessive levels of RF Radiation.