

Comprehensive Technical Exhibit
Amendment to Application for Construction Permit
KARF(FM) – Independence, Kansas
BPED-20070907ABT
Community Broadcasting, Inc.
February, 2008

General

The following engineering statement and attached exhibits have been prepared for **Community Broadcasting, Inc.**, licensee of non-commercial educational FM station KARF(FM) at Independence, Kansas, and are in support of their amendment to application for construction permit. This application seeks to amend BPED-20070907ABT, by making a minor change to the original application.

The minor change to the originally submitted application pertains to the proposed directional antenna pattern. The originally proposed directional pattern proposed a slope that exceeded 2 dB per 10 degrees between azimuths of 190 and 200 degrees true. This amendment seeks to change the proposed pattern envelope slightly to eliminate this issue. No other substantive changes to the original application are proposed, however, the change in the directional pattern envelope will result in changes to the coverage and interference exhibits. Updated versions of the technical exhibits are included in this amendment.

Main Studio Location

The main studio would not be in compliance with the provisions of Section 73.1125 of the Commission's Rules. Previously, however, a waiver was granted by the Commission of this provision of the rules to permit the operation of KARF(FM) as satellite facility of KSIV-FM at St. Louis, Missouri.¹ The applicant wishes to continue this previously granted waiver with this amendment to the original application.

¹ The Facility ID number for KSIV-FM is 4276. The main studio waiver request was granted on November 21, 2006 as indicated in the CDDBS.

Community of License Coverage

The proposed facility as amendment would continue to comply with the provisions of Section 73.515 of the Commission's Rules. Since the channel of operation for the proposed facility is 218C1, Section 73.315 is not applicable. In order to demonstrate that the proposed facility would comply with Section 73.515, a contour map has been attached. This contour map labeled as Exhibit E-1 and generated through the use of a commercially available software package depicts the predicted 60 dBu F(50,50) service contour and illustrates that this contour would totally encompass Independence, Kansas, the community of license.

Interference

This section contains and describes the interference studies necessary to demonstrate with the applicable sections of the Commission's Rules. The relevant sections of the Commission's Rules applicable to this amendment are the contour overlap requirements of Section 73.509, the intermediate frequency spacing requirements of Section 73.207, the geographic spacing requirements to authorizations on FM channel 221, and the television channel 6 protection requirements of Section 73.525 of the Commission's Rules. The other items listed on the form pages are not applicable in this instance.

Exhibit E-2 contains a tabulation based allocation study for the proposed facility. This study demonstrates that the proposed facility would not have prohibited contour overlap with any other proposed or existing facility except KOTV(TV) at Tulsa, Oklahoma. The indicated contour overlap relative to KOTV(TV) will be addressed subsequently in this section under the discussion of the television channel six protection requirements.

Exhibit E-3 has been included to graphically illustrate the allocation situation through the use of two maps. The first of these two maps illustrates the predicted service and interference contours for all relevant facilities in the region. The second map has been included to illustrate additional detail in the vicinity KRSC-FM at Claremore, Oklahoma. These maps further demonstrate that no prohibited contour overlap would occur between the proposed KARF(FM) facility and any other proposed or authorized facility.²

In addition to compliance with the provisions of Section 73.509 for contour overlap requirements, the proposed facility would also comply with appropriate spacing provisions under Section 73.207 of the Commission's Rules. The proposed channel of operation is 218C1. Based on this channel of operation it is necessary to demonstrate that the proposed facility would comply with the intermediate frequency separation requirements to authorizations on channels 271 and 272, and would comply with Section 73.207 spacing requirements to facilities on channel 221. Exhibit E-4, which is a single channel spacing study, has been included to demonstrate that the proposed KARF(FM) facility would comply with these spacing requirements.

One television channel six facility in the region has been identified. This station is KOTV(TV) at Tulsa, Oklahoma, which is located at a distance of 116.06 kilometers from the proposed facility. As a result of this distance separation, KOTV(TV) would be considered "affected" under Section 73.525 of the Commission's Rules. The proposed facility would, however, be in compliance with the provisions of Section 73.525 of the Commission's Rules.

² Applications submitted after the initial submission of the KARF(FM) application for construction permit have been ignored for the purposes of both Exhibit E-2 and Exhibit E-3.

It is proposed that that KARF(FM) operate with vertical polarization. The mixed polarity inequality was therefore utilized to determine compliance with the provisions of Section 73.525 of the Commission's Rules. The inequality utilized with appropriate substitutions is as follows:

$$H + \frac{V}{A} \leq P$$
$$0 + \frac{100}{40} \leq 2.50$$

In this inequality, a value of 0 was substituted for H since only vertical polarization would be utilized. The value of 100 for V results from the proposed maximum effective radiated power of 100 kW. Finally, 40 is substituted for A since any predicted interference to KOTV(TV) would lie outside a city with a resident population of 50,000 or greater. The attached map illustrating the results of this study was therefore created with 2.50 kW as the maximum effective radiated power.

The 48 through 53 dBu F(50,50) service contours for KOTV(TV) were then plotted along with the corresponding interfering contours for the proposed KARF(FM) facility. The interference area was then determined in the appropriate fashion as described in the Commission's Rules. This area of predicted interference, which is illustrated on the map contained in Exhibit E-5 was determined to have a resident population of 2,381 persons by the 2000 US Census data. Since fewer than 3,000 persons reside within this area, the proposed facility would be in compliance with the provisions of Section 73.525 of the Commission's Rules.

Reserved Channels Above 220

The proposed channel of operation for KARF(FM) is channel 212. This section is therefore not applicable in this case.

International Borders

The proposed antenna location is not within 320 kilometers of the common border between the United States and Canada. In addition, the proposed antenna location is more than 320 kilometers from the common border between the United States and Mexico. Exhibit E-6 depicts the proposed antenna site along with a circle corresponding to a 320 kilometer radius centered on the proposed transmitter location. As this map demonstrates, the proposed antenna location is more than 320 kilometers distant from either common border.

Environmental Protection Act

The proposed facility would not constitute a significant environmental impact, and should be exempt from environmental processing. The proposed facility would be located at an existing structure that is registered with the Commission. The structure to be utilized is the same structure as that specified in the pending KARF(FM) license application.³

The proposed facility would not constitute an RF exposure hazard to persons at the site. The Commission's FM Model software package predicts a maximum power density at ground level of $26.3 \mu\text{W}/\text{cm}^2$ at a distance of 44 meters from the base of the tower. Since the predicted power density is less than $200 \mu\text{W}/\text{cm}^2$, the proposed facility would comply with the uncontrolled environment condition of the applicable safety standard.

The applicant certifies that it will coordinate with all present and futures of the site to protect workers having access to the site from being exposed to levels of radiofrequency radiation which may exceed applicable guidelines. Such coordination will include, but is not necessarily limited to, a reduction in power and/or cessation of operation as necessary.

³ Pending license application has file number of BPED-20070907ABT, which was submitted to cover BMPED-19990108JA.

Community of License Change

The applicant does not propose a change in the community of license. This section is therefore not applicable.

Affidavit

The preceding statement and attached exhibits have been prepared by me, or under my direction, and are true and accurate to the best of my belief and knowledge.



Above signature is digitized copy of actual signature
License Expires November 30, 2009

Jeremy D. Ruck, PE
February 8, 2008

KARF.A
BPED20070907ABT
Latitude: 37-03-54 N
Longitude: 095-45-03 W
ERP: 100.00 kW
Channel: 218
Frequency: 91.5 MHz
AMSL Height: 348.0 m
Elevation: 242.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: FCC Method

Independence, Kansas
Community of License

D.L. Markley & Associates, Inc.

■ Proposed 60 dBu Service Contour

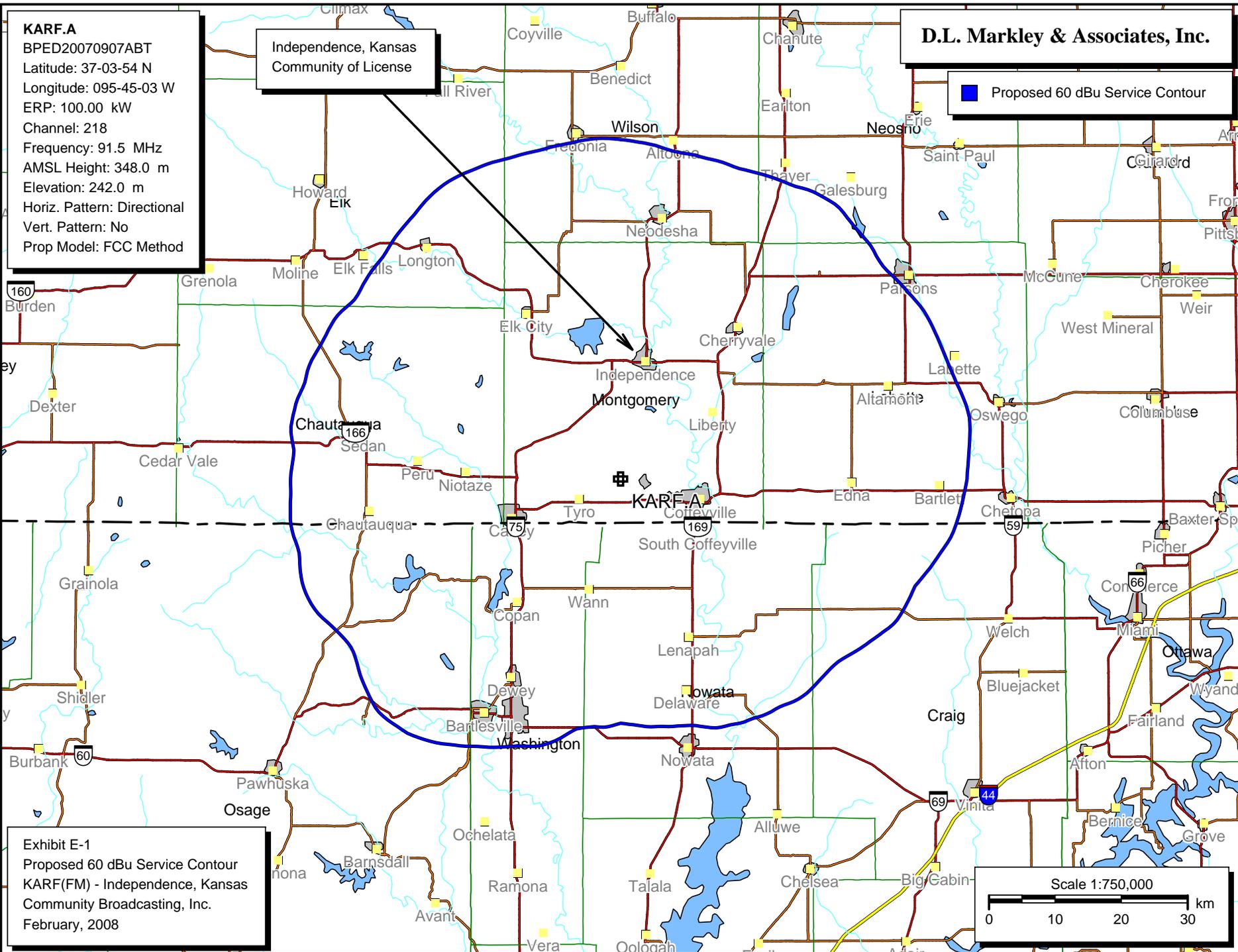
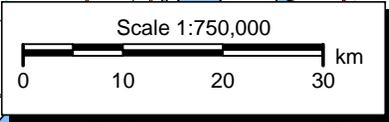


Exhibit E-1
Proposed 60 dBu Service Contour
KARF(FM) - Independence, Kansas
Community Broadcasting, Inc.
February, 2008



D. L. Markley & Associates, Inc.
Consulting Engineers

Exhibit E-2 - Allocation Study
KARF(FM) - Independence, Kansas
CH# 218C1 - 91.5 MHz, Pwr= 100 kW, HAAT= 100.0 M, COR= 348 M
Average Protected F(50-50)= 50.87 km

REFERENCE
37 03 54.0 N.
95 45 03.0 W.

DISPLAY DATES
DATA 02-07-08
SEARCH 02-08-08

CH CITY	CALL	TYPE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
06+2C Tulsa	KOTV	LI OK	_CN	176.7 356.7	116.06 BLCT19841031KI	36 01 15.0 95 40 32.0	100.000 573	769	126.6 Gri ffin Tul sa I	139.1R Li censi ng,	-23.1M
217A Claremore	KRSC-FM	LIC OK	_CN	173.1 353.1	83.46 BLED19850226KW	36 19 06.0 95 38 18.0	2.200 111	36.8 309	24.4 Board Of Regents	9.06 Of Okl aho	0.10
219C3 Neosho	KNEO	CP MO	_CX	99.7 280.5	117.66 BPED20070727AIP	36 52 49.0 94 26 59.0	14.000 114	57.4 443	38.0 Sky High Broadcasting Corp	9.61	2.22
218C1 Lawrence	KANU	LIC KS	_CN	11.2 191.5	213.87 BLED19920721KA	38 57 14.0 95 16 11.0	100.000 213	161.5 491	63.5 Uni versi ty Of Kansas	2.40	4.76
217C3 Arkansas City	KAXR	LIC KS	_CX	262.6 81.8	114.57 BLED20050510ABI	36 55 32.0 97 01 34.0	13.500 98	50.7 439	32.3 Ameri can Fam il y Associ ati o	13.75	2.72
219A Neosho	KNEO	LIC MO	_CX	99.7 280.5	117.66 BLED20021104AAA	36 52 49.0 94 26 59.0	4.600 114	45.0 443	29.4 Sky High Broadcasting Corp	21.99	10.79
218C3 Henryetta	KVAZ	CP OK	_VX	186.7 6.6	169.48 BMPED20060822AHN	35 32 53.0 95 58 14.0	7.800 172	102.5 388	39.4 South Central Okl aho ma Chr	29.34	13.19
221C2 Broken Arrow	KTBT«	LIC OK	_CN	193.4 13.2	108.87 BLH19901114KC	36 06 38.0 96 01 57.0	27.000 200	5.9 425	52.3 Clear Channel Broadcasting	78.5R	30.4M
218C1 Medicine Lodge	KSNS	CP KS	_VX	275.0 93.3	259.59 BPED20060125AIF	37 14 02.0 98 39 55.0	96.000 141	157.3 627	60.8 Flori da Publi c Radi o, Inc.	52.86	53.73
219C0 Stillwater	KOSU	LIC OK	_CX	228.5 47.5	213.59 BLED20050923AEE	35 46 50.0 97 31 29.0	100.000 308	108.0 624	74.4 Okl aho ma State Uni versi ty	55.39	59.63
220C2 Winfield	KBDD	LIC KS	DC_	288.7 107.9	112.57 BLED20000419ACA	37 22 56.0 96 57 20.0	48.000 150	3.7 525	36.8 Fam il y Worshi p Center Chur	59.06	70.13
218C2 Medicine Lodge	KSNS	LIC KS	_CX	275.0 93.3	259.59 BLED20040213ACB	37 14 02.0 98 39 55.0	48.000 141	139.8 627	54.5 Flori da Publi c Radi o, Inc.	70.37	60.00
218A Henryetta	KVAZ	LIC OK	_CN	187.1 6.9	190.00 BLED19860102KC	35 21 56.0 96 00 34.0	0.250 54	35.6 296	10.5 South Central Okl aho ma Chr	116.70	62.37
272C2 Sand Springs	KKCM«	LIC OK	_C_	198.3 18.1	99.82 BLH19990129KA	36 12 39.0 96 06 03.0	50.000 150	9.1 387	43.8 Cox Radi o, Inc.	26.5R	73.3M
217C0 Fayetteville	KUAF	LIC AR	DC_	130.6 311.6	204.93 BLED20010813AAD	35 51 12.0 94 01 32.0	100.000 332	83.9 875	57.2 Board Of Trustees Of The U	78.27	82.27
215C3 Jay	KMLT	APP OK	_EX	138.3 318.8	129.86 BMAPED20071019BD	36 11 23.0 94 47 14.0	12.000 110	3.5 434	35.1 Educati onal Medi a Foundati	83.61	90.19
220A Emporia	KNGM	LIC KS	_CN	344.6 164.3	154.99 BLED19870127KA	38 24 35.0 96 13 30.0	3.000 81	2.1 438	22.0 Great Plai ns Christi an Rad	101.90	127.11
217C1 Ada	KAKO	LIC OK	DVX	207.7 27.0	229.87 BLED20060310AEC	35 13 36.0 96 55 42.0	100.000 135	76.1 445	50.3 Ameri can Fam il y Associ ati o	108.28	106.55
216C1 Wichita	KCFN	LIC KS	_CN	306.9 125.9	178.99 BLED19890719KA	38 01 09.0 97 23 01.0	100.000 148	7.0 584	58.0 Ameri can Fam il y Associ ati o	123.44	115.49
219C2 Salina	KCVS	LIC KS	NC_	316.9 135.7	246.47 BLED20001215AAI	38 39 58.0 97 41 30.0	11.500 228	68.8 643	46.5 Vcy Ameri ca, Inc.	127.98	120.81
219C2 Poteau	KARG	LIC OK	_CN	156.2 336.8	241.34 BLED19980130KD	35 04 17.0 94 40 47.0	2.500 569	78.9 752	52.8 Ameri can Fam il y Associ ati o	121.94	126.10
218C2 Mountain Home	KCMH	LIC AR	_V_	105.6 287.5	310.33 BLED20000911AAQ	36 16 17.0 92 25 20.0	26.000 144	126.5 354	49.3 Christi an Broadcasti ng Gro	135.14	126.38
271A Tahlequah	KEOK«	LIC OK	_CX	151.0 331.5	148.18 BLH20061117ABA	35 53 42.7 94 57 12.2	6.000 87	9.1 346	43.8 Payne 5 Communi cations, LI	21.5R	126.7M
221A Butler	KMOE«	LIC MO	_CN	43.3 224.1	182.13 BLH19900814KB	38 14 56.0 94 19 18.0	4.700 45	2.2 298	22.1 Bates County Broadcasti ng	74.5R	107.6M
217A Olsburg	KANV	LIC KS	_C_	335.5 154.8	238.77 BLED20030117ABS	39 00 55.0 96 53 55.0	6.000 100	43.2 462	27.9 The Uni versi ty Of Kansas	144.10	129.98

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DI ST FILE #	LAT LNG	PWR(KW) HAAT(M)	INT(km) COR(M)	PRO(km) LI CENSEE	*IN* (Overlap in km)	*OUT*
271C0 Hutchin son	KZSN«	LIC KS	_CX	297.6 116.5	174.68 BLH20060509ACH	37 46 40.0 97 30 37.0	100.000 313	9.1 733	43.8 Capstar	36.5R Tx Limited Partner	138.2M
221C3 Fayetteville	KKEG«	LIC AR	NCN	123.0 304.1	188.85 BLH19960202KA	36 07 38.0 93 59 23.0	7.600 162	3.6 562	37.2 Cumulus	75.5R Li censi ng Lic	113.3M
219A Point Lookout	KCOZ	LIC MO	_CN	102.0 283.5	229.60 BLED19950126KA	36 36 39.0 93 14 23.0	0.200 57	13.7 361	9.8 College Of The Ozarks	166.06	143.57
216A Enid	KKRD	LIC OK	_CN	249.2 68.0	203.91 BLED19870916KA	36 23 48.0 97 52 38.0	0.410 95	1.4 469	14.7 Educational Media Foundati	152.11	183.41
216C2 Springfi el d	KSMU	LIC MO	_CN	86.1 267.6	216.04 BLED19930610KC	37 10 14.0 93 19 25.0	40.000 125	5.3 503	47.6 Board Of Governors Of Mi ss	158.18	162.28
215C1 Edmond	KOKF	LIC OK	DCN	223.3 42.3	227.18 BLED19911002KA	35 33 59.0 97 28 28.0	100.000 133	7.4 481	59.9 Educational Media Foundati	169.45	161.52
219C3 Camdenton	KCV0-FM	LIC MO	_CN	67.2 249.0	285.00 BLED19930420KE	38 01 13.0 92 45 27.0	10.000 133	53.8 402	35.4 Lake Area Educational Broa	178.95	167.95
220A Harri son	KBPB	LIC AR	ZC_	108.2 289.7	238.64 BLED20010503AAM	36 22 12.0 93 13 23.0	5.500 104	1.9 476	22.4 New Li fe Evangel istic Cent	188.94	210.96
215C Warrensburg	KTBG	APP MO	DCX	35.5 216.6	271.03 BPED20070621AQF	39 02 13.6 93 55 48.2	100.000 356	10.8 610	75.5 Board Of Governors Of Cent	208.02	189.51
220A Manhattan	KSDB-FM	LIC KS	_CN	343.9 163.4	242.80 BLED19870504KA	39 09 49.0 96 31 54.0	1.400 88	1.6 447	15.5 Kansas State Uni versi ty	190.22	221.38
215C Warrensburg	KTBG	APP MO	DCX	35.5 216.6	271.03 BPED20070621AQF	39 02 13.6 93 55 48.2	90.000 350	10.4 606	74.1 Uni versi ty Of Central Mi ss	208.37	190.87
220A Mcal ester	KBCW-FM	LIC OK	_C_	178.9 358.9	230.61 BLED19990916AAO	34 59 13.0 95 42 10.0	0.700 136	1.5 339	20.1 The Uni versi ty Of Central	192.25	206.71
220A Marshfi el d	KNLM	LIC MO	NCX	82.7 264.4	249.01 BLED20040423AAW	37 19 01.0 92 57 51.0	1.750 76	1.8 490	18.9 New Li fe Evangel istic Cent	194.13	223.94
271A Brookli ne	KQRA«	LIC MO	_CX	85.1 266.6	224.71 BLH20020607AAT	37 12 39.0 93 13 42.0	4.900 110	9.1 505	43.8 Mw Springmo, Inc.	21.5R	203.2M
220C3 Liberty	KWJC	CP MO	DCX	27.1 207.9	257.75 BMPED20070706ACM	39 07 23.0 94 23 24.0	7.000 190	3.3 440	33.8 William Jewell College	203.66	218.13
215C1 Warrensburg	KTBG	LIC MO	_CN	38.6 219.8	267.84 BLED19981112KB	38 55 54.0 93 49 06.0	97.000 135	6.8 383	56.5 The Uni versi ty Of Central	208.64	205.25
272A Wheatland	RRSV«	RSV MO	___	62.7 244.1	227.53	37 58 44.0 93 26 49.0	6.000 100	9.1 377	43.8	21.5R	206.0M
272A Wheatland	NEW«	CP MO	ZCX	64.3 245.8	228.92 BNPH20060309ABD	37 55 54.0 93 24 06.0	4.730 110	9.1 391	43.8 Marathon Media Group, L.I.	21.5R	207.4M
271C0 Kansas Ci ty	RADD«	ADD MO	___	26.0 206.8	251.29	39 05 26.0 94 28 18.0	100.000 450	9.1 710	43.8 Big Country Of Mi ssouri , I	36.5R	214.8M
271C0 Kansas Ci ty	KCKC«	LIC MO	_C_	26.0 206.8	251.29 BLH20010920AAG	39 05 26.0 94 28 18.0	100.000 341	9.1 601	43.8 Wil ks Li cense Company-kans	36.5R	214.8M
220A Liberty	KWJC	LIC MO	_CN	25.3 206.1	269.16 BLED19810824AA	39 14 52.0 94 24 47.0	0.180 50	0.9 313	11.0 William Jewell College	217.62	252.31

Terrain database is NGDC 30 SEC Distance + R = FCC Required Spacings in KM, Distance + M = Margin in KM
ERP and HAAT are on direct line to and from reference station.
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.

KARF.A
 BPED20070907ABT
 Latitude: 37-03-54 N
 Longitude: 095-45-03 W
 ERP: 100.00 kW
 Channel: 218
 Frequency: 91.5 MHz
 AMSL Height: 348.0 m
 Elevation: 242.0 m
 Horiz. Pattern: Directional
 Vert. Pattern: No
 Prop Model: FCC Method

D.L. Markley & Associates, Inc.

- 60 dBu F(50,50) Service Contour
- 40 dBu F(50,10) Interference Contour
- 54 dBu F(50,10) Interference Contour
- 100 dBu F(50,10) Interference Contour

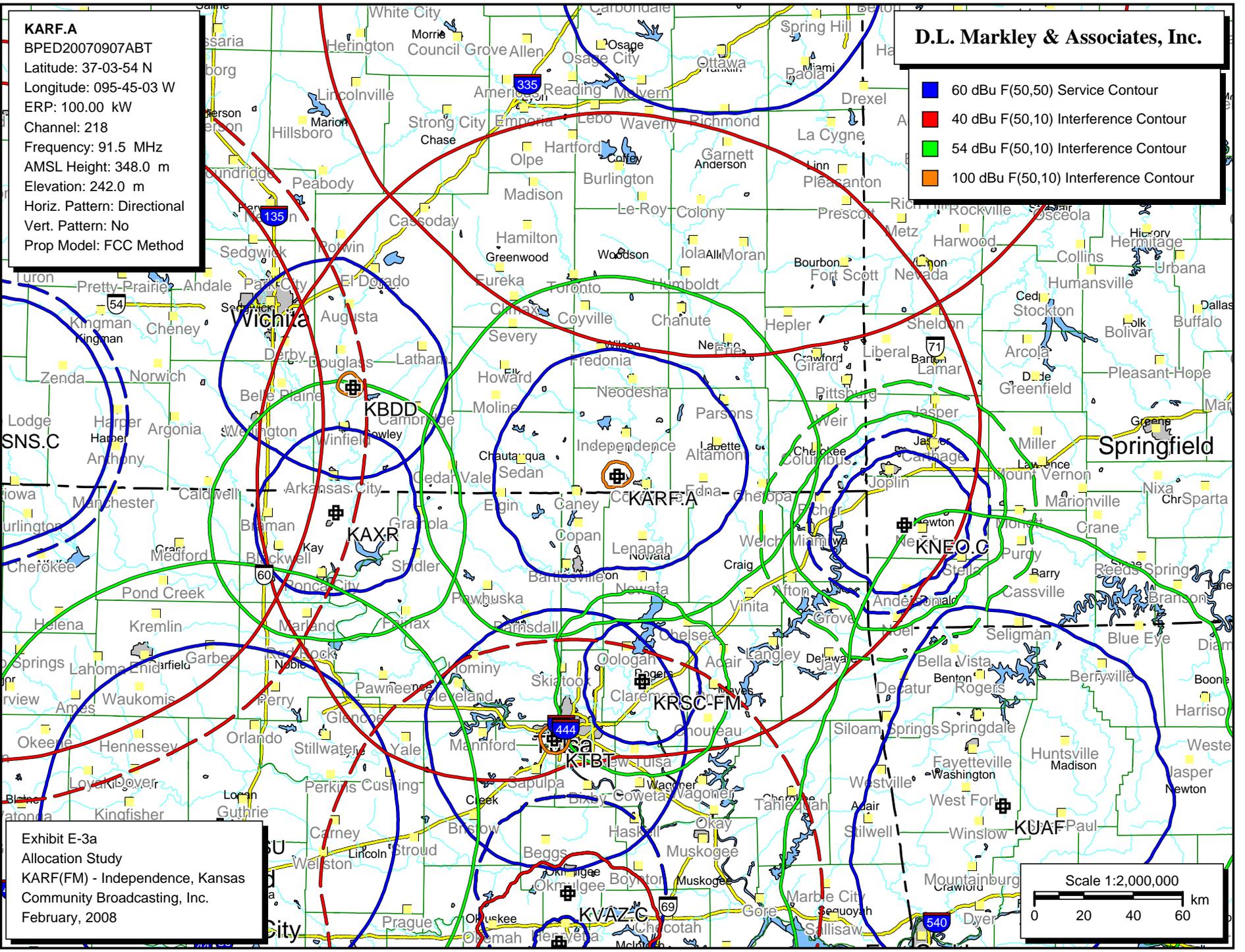
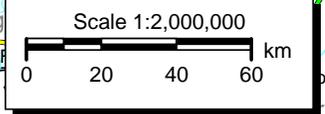


Exhibit E-3a
 Allocation Study
 KARF(FM) - Independence, Kansas
 Community Broadcasting, Inc.
 February, 2008



KARF.A
BPED20070907ABT
Latitude: 37-03-54 N
Longitude: 095-45-03 W
ERP: 100.00 kW
Channel: 218
Frequency: 91.5 MHz
AMSL Height: 348.0 m
Elevation: 242.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: FCC Method

Proposed
KARF Contours

KRSC-FM
Contours

D.L. Markley & Associates, Inc.

- 60 dBu F(50,50) Service Contour
- 40 dBu F(50,10) Interference Contour
- 54 dBu F(50,10) Interference Contour
- 100 dBu F(50,10) Interference Contour

Chelata

Ramona

Vera

Wissville

Nowata

Talala

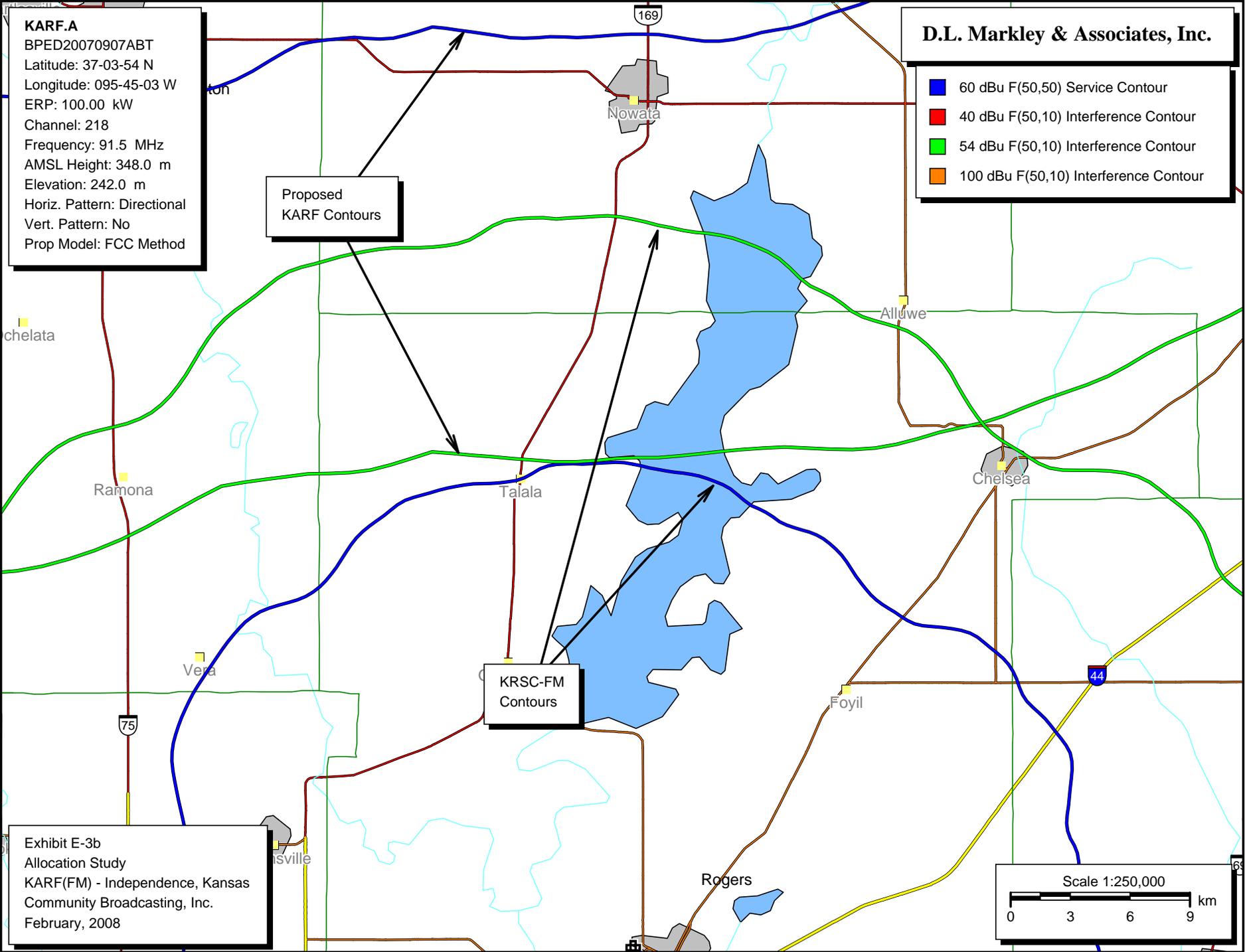
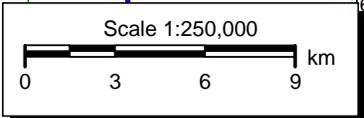
Alluwe

Chelsea

Foyil

Rogers

Exhibit E-3b
Allocation Study
KARF(FM) - Independence, Kansas
Community Broadcasting, Inc.
February, 2008



D.L. Markley & Associates, Inc.
 Consulting Engineers
 Exhibit E-4 - Spacing Study
 KARF(FM) - Independence, Kansas

REFERENCE

37 03 54.0 N.
 95 45 03.0 W.

CLASS = C1
 Current Spacings

DISPLAY DATES
 DATA 02-07-08
 SEARCH 02-08-08

----- Channel 218 - 91.5 MHz -----

Call	Channel	Location		Azi	Dist	FCC	Margin
KTBT	LIC 221C2	Broken Arrow	OK	193.4	108.87	78.5	30.37
KKCM	LIC 272C2	Sand Springs	OK	198.3	99.81	26.5	73.31
KMOE	LIC 221A	Butler	MO	43.3	182.12	74.5	107.62
KKEG	LIC-N 221C3	Fayetteville	AR	123.0	188.84	75.5	113.34
KEOK	LIC 271A	Tahlequah	OK	151.0	148.18	21.5	126.68
KZSN	LIC 271C0	Hutchinson	KS	297.6	174.68	36.5	138.18
KKOZ-FM	LIC 221A	Ava	MO	92.2	275.96	74.5	201.46
KQRA	LIC 271A	Brookline	MO	85.1	224.71	21.5	203.21
RRSV	RSV 272A	Wheatland	MO	62.7	227.52	21.5	206.02
NEW.C	CP -Z 272A	Wheatland	MO	64.3	228.92	21.5	207.42
RADD	ADD 271C0	Kansas City	MO	26.0	251.28	36.5	214.78
KCKC	LIC 271C0	Kansas City	MO	26.0	251.28	36.5	214.78

KARF.A
BPED20070907ABT
Latitude: 37-03-54 N
Longitude: 095-45-03 W
ERP: 2.50 kW
Channel: 218
Frequency: 91.5 MHz
AMSL Height: 348.0 m
Elevation: 242.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: FCC Method

D.L. Markley & Associates, Inc.

■ KOTV F(50,50) Service Contours (See Labels)
■ Boundary of Predicted Interference Area

Interference Population: 2,381
Based on 2000 US Census

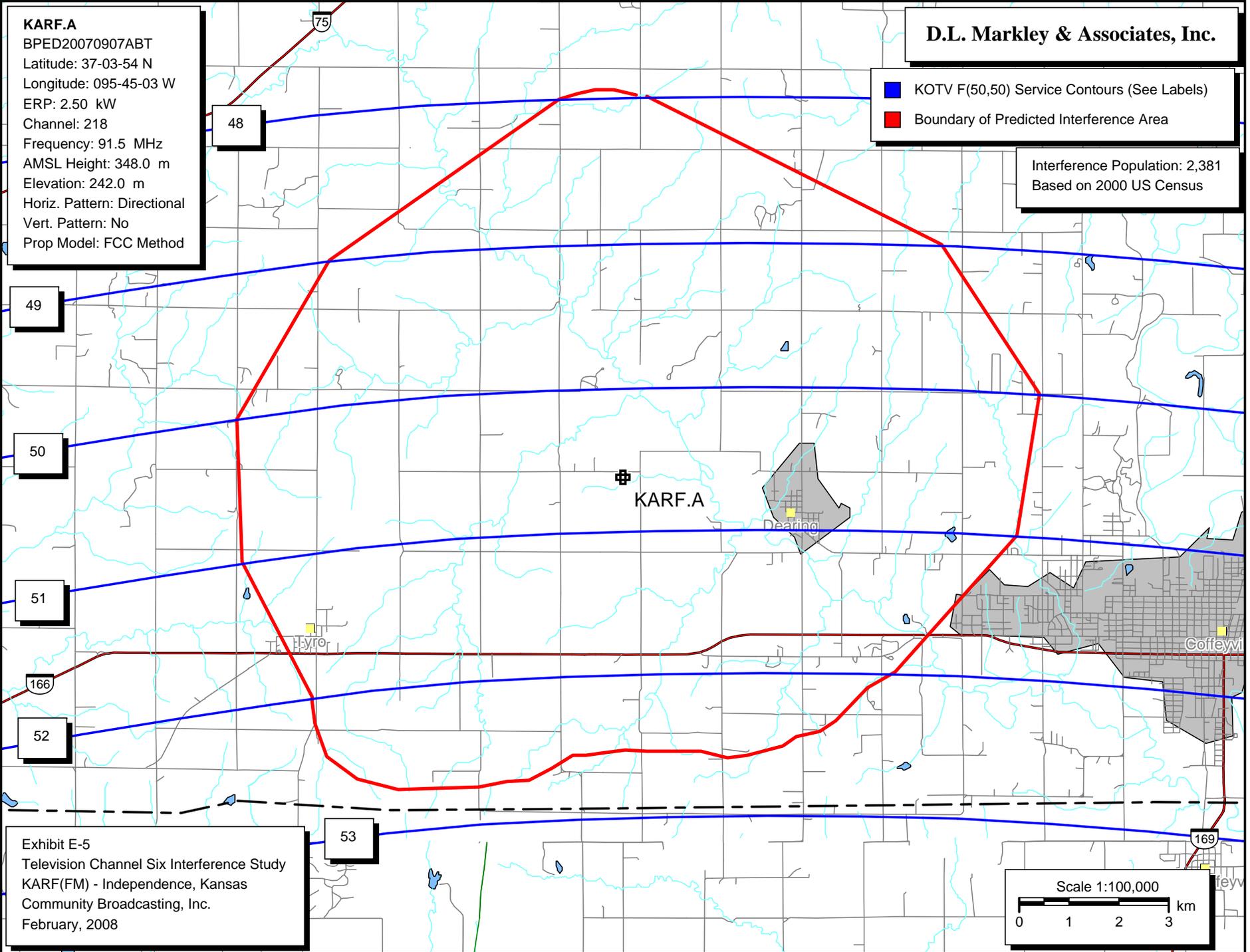


Exhibit E-5
Television Channel Six Interference Study
KARF(FM) - Independence, Kansas
Community Broadcasting, Inc.
February, 2008

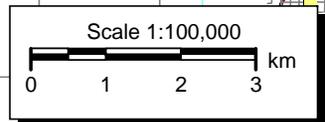


Exhibit E-5 - Television Channel Six Interference Study
Polygon Population Report

Population Database: 2000 US Census (SF1)

Total Population: 2,381
Housing Units: 1,029
Polygon Area: 163.69 sq. km

Total Breakdown

White:	2,135
Black:	17
Hispanic:	26
Native American:	110
Asian:	17
Pacific Islander:	1
Mixed Race:	75
Other:	0

	Housing Units	Population
Kansas		
Montgomery County		
Total	17,207	36,252
Polygon	1,029	2,381

KARF.A

BPED20070907ABT
Latitude: 37-03-54 N
Longitude: 095-45-03 W
ERP: 100.00 kW
Channel: 218
Frequency: 91.5 MHz
AMSL Height: 348.0 m
Elevation: 242.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: FCC Method

D.L. Markley & Associates, Inc.

320 km radius centered
on KARF(FM) site

KARF.A

Exhibit E-6
International Agreement Compliance
KARF(FM) - Independence, Kansas
Community Broadcasting, Inc.
February, 2008

Scale 1:9,000,000

