

**MINOR CHANGE APPLICATION**  
**COMMUNITY RADIO NETWORK, INC.**  
**KHBM-FM RADIO STATION**  
**CH 229C2 - 93.7 MHZ - 23.0 KW**  
**MONTICELLO, ARKANSAS**  
**September 2001**

**EXHIBIT A**

\_\_\_\_\_The proposed KHBM-FM antenna location will be shortspaced to one other FM broadcast facility, KXKS-FM. The detailed spacing information with regard to this station is shown on Exhibit A1. Community Radio Network, Inc., proposes to use the provisions of §73.215 of the Commission's rules to address this shortspaced situation. The shortage to this facility complies with §73.215(e) of the Commission's rules. The provisions of §73.215 will be met by specifying less than maximum Class C2 facilities.

Exhibit A2 specifically demonstrates that there will be no prohibited overlap between the proposed KHBM-FM and KXKS-FM. The contours of KXKS-FM are based on 100.0 kilowatts effective radiated power at a height above average terrain of 600 meters.<sup>8</sup> Attached as Exhibits A3 and A4 are the tabulated distances to the protected and interfering contours, along the pertinent arcs, of the proposed KHBM-FM and authorized KXKS-FM. Further, attached as Exhibit A5 are the tabulated protected and interfering contours of the proposed facility, in ten degree increments. Again, there is no prohibited overlap between the facilities.

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<sup>8</sup>As authorized, KXKS-FM operates with a maximum effective radiated power of 100.0 kilowatts at 308 meters height above average terrain. The antenna center of radiation of KXKS-FM was raised to 600 meters height above average terrain for the §73.215 analysis.

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**EXHIBIT A1**

CLEARANCE STUDY FOR KHBM-FM MONTICELLO ARKANSAS  
USING PROPOSED SITE AS REFERENCE

REFERENCE							DISPLAY DATES	
33 46 35 N				CLASS = C2			DATA	08-24-01
91 43 02 W				Current Spacings			SEARCH	08-29-01
----- Channel 229 - 93.7 MHz -----								
Call	Channel	Location		Dist	Azi	FCC	Margin	
N. Lat.	W. Lng.			Power	HAAT			
-----								
<b>KHBMFM LIC 229C3 Monticello</b>				<b>AR</b>	<b>0.00</b>	<b>0.0</b>	<b>177.0</b>	<b>-177.00</b>
<b>33 46 35 91 43 02 CN</b>				<b>15.000 kW</b>	<b>129 M</b>			
<b>Community Radio Network</b>				<b>BLH-19981201KB</b>				
ALLO	RSV	229C2	Monticello	AR	14.86	110.8	190.0	-175.14
33 43 44		91 34 02		50.000 kW		150 M		
				RM-9339				
*	KXKSFM	LIC 229C	Shreveport	LA	239.42	239.9	249.0	-9.58
	32 40 39		93 55 41	CY	100.000 kW	308 M		
Citicasters Licenses, Inc.				BLH-19840607CO				
ALLO	RSV	230A	Bastrop	LA	107.61	189.5	106.0	1.61
32 49 10		91 54 29		6.000 kW		100 M		
				RM-9339				
RADD	ADD	230C3	Bastrop	LA	118.74	190.5	117.0	1.74
32 43 25		91 56 56		25.000 kW		100 M		
WQLJ	LIC	229C3	Oxford	MS	194.11	70.8	177.0	17.11
34 20 05		89 43 29	C	13.000 kW		139 M		
Telesouth Communications				BLH-19961015KG				
WBAD.C	CP	232C2	Leland	MS	78.62	120.5	58.0	20.62
33 24 55		90 59 18	CN	50.000 kW		88 M		
Interchange Communications				BPH-19930120IB				
KBFC	LIC	228C3	Forrest City	AR	140.46	31.3	117.0	23.46
34 51 17		90 55 02	CN	25.000 kW		100 M		
Forrest City Broadcasting				BLH-19920113KH				
WBAD	LIC	232A	Leland	MS	78.62	120.5	55.0	23.62
33 24 55		90 59 18	CN	3.000 kW		88 M		
Interchange Communications				BLH-6054				
WGRMFM	LIC	230C3	Greenwood	MS	143.74	100.4	117.0	26.74
33 32 02		90 11 42	CN	12.000 kW		90 M		
Willis Broadcasting Corpor				BLH-19970822KC				
KKPT	LIC	231C	Little Rock	AR	134.16	328.1	105.0	29.16
34 47 56		92 29 44	CN	100.000 kW		488 M		
Signal Media Of Arkansas				BLH-19911018KN				
KGGM	LIC	228A	Delhi	LA	146.51	174.0	106.0	40.51
32 27 45		91 33 13	CN	6.000 kW		100 M		
Kt Enterprises, Inc.				BLH-19910916KA				

\* This shortspaced addressed under \$73.215. See Exhibit A for details.

Graham Brock, Inc. - Broadcast Technical Consultants

**KHBM-FM Proposed**  
Latitude: 33-46-35 N  
Longitude: 091-43-02 W  
Channel: 229C2  
AMSL Height: 193.0 m

**KXKS-FM**  
BLH-19840607CO  
Latitude: 32-40-39 N  
Longitude: 093-55-41 W  
Channel: 229C  
AMSL Height: 662.574 m

§73.215 ANALYSIS

**EXHIBIT A2**  
**MINOR CHANGE APPLICATION**  
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**KHBM-FM RADIO STATION**  
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**KHBM-FM 40 dBu (50/10)**

**KHBM-FM 60 dBu (50/50)**

**KXKS-FM 40 dBu (50/10)**

**KXKS-FM 60 dBu (50/50)**

Scale 1:2,000,000

0 20 40 60 km

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**September 2001**

**EXHIBIT A3**

KHBM-FM - Proposed  
Channel = 229C2  
Max ERP = 23 kW  
RCAMSL = 193 M  
N. Lat = 33 46 35  
W. Lng = 91 43 02

KXKSFM - BLH-19840607CO  
Channel = 229C  
Max ERP = 100 kW  
RCAMSL = 664 M  
N. Lat = 32 40 39  
W. Lng = 93 55 41

Protected  
60 dBu

Interfering  
40 dBu

3 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
220.0	023.0000	0109.2	039.9	062.6	100.0000	0610.2	202.5	39.2
221.0	023.0000	0107.9	039.7	062.4	100.0000	0610.1	202.5	39.2
222.0	023.0000	0106.4	039.4	062.2	100.0000	0610.1	202.4	39.2
223.0	023.0000	0107.0	039.5	062.0	100.0000	0610.1	202.1	39.3
224.0	023.0000	0107.1	039.5	061.8	100.0000	0610.1	201.8	39.4
225.0	023.0000	0107.4	039.6	061.6	100.0000	0610.1	201.6	39.4
226.0	023.0000	0107.4	039.6	061.4	100.0000	0609.9	201.4	39.4
227.0	023.0000	0107.1	039.5	061.2	100.0000	0609.9	201.2	39.5
228.0	023.0000	0106.5	039.5	061.0	100.0000	0609.9	201.1	39.5
229.0	023.0000	0106.6	039.5	060.8	100.0000	0609.9	201.0	39.5
230.0	023.0000	0107.1	039.5	060.7	100.0000	0609.9	200.8	39.6
231.0	023.0000	0107.4	039.6	060.5	100.0000	0609.8	200.6	39.6
232.0	023.0000	0107.5	039.6	060.3	100.0000	0609.8	200.4	39.6
233.0	023.0000	0107.6	039.6	060.1	100.0000	0609.8	200.3	39.6
234.0	023.0000	0109.3	039.9	059.9	100.0000	0609.8	200.0	39.7
235.0	023.0000	0111.5	040.2	059.7	100.0000	0609.8	199.6	39.8
236.0	023.0000	0112.5	040.3	059.5	100.0000	0609.8	199.4	39.8
237.0	023.0000	0113.2	040.4	059.3	100.0000	0609.6	199.2	39.8
238.0	023.0000	0113.7	040.5	059.1	100.0000	0609.6	199.1	39.9
239.0	023.0000	0113.2	040.4	058.9	100.0000	0609.6	199.2	39.9
240.0	023.0000	0112.8	040.4	058.7	100.0000	0609.6	199.2	39.8
241.0	023.0000	0113.1	040.4	058.5	100.0000	0609.7	199.2	39.9
242.0	023.0000	0113.1	040.4	058.3	100.0000	0609.7	199.2	39.8
243.0	023.0000	0112.4	040.3	058.1	100.0000	0609.7	199.4	39.8
244.0	023.0000	0111.6	040.2	057.9	100.0000	0609.7	199.5	39.8
245.0	023.0000	0110.9	040.1	057.7	100.0000	0609.7	199.7	39.8
246.0	023.0000	0110.2	040.0	057.5	100.0000	0610.1	199.9	39.7
247.0	023.0000	0110.3	040.0	057.3	100.0000	0610.1	200.0	39.7
248.0	023.0000	0110.9	040.1	057.1	100.0000	0610.1	200.0	39.7
249.0	023.0000	0111.8	040.2	056.9	100.0000	0610.1	200.0	39.7
250.0	023.0000	0112.4	040.3	056.7	100.0000	0610.1	200.1	39.7
251.0	023.0000	0113.6	040.5	056.5	100.0000	0610.5	200.0	39.7
252.0	023.0000	0115.1	040.7	056.3	100.0000	0610.5	200.0	39.7
253.0	023.0000	0116.1	040.8	056.1	100.0000	0610.5	200.1	39.7
254.0	023.0000	0116.5	040.9	055.9	100.0000	0610.5	200.2	39.7
255.0	023.0000	0116.7	040.9	055.7	100.0000	0610.5	200.4	39.6
256.0	023.0000	0116.7	040.9	055.5	100.0000	0611.2	200.6	39.6
257.0	023.0000	0116.3	040.9	055.3	100.0000	0611.2	200.9	39.5
258.0	023.0000	0115.9	040.8	055.1	100.0000	0611.2	201.2	39.5
259.0	023.0000	0115.4	040.7	054.9	100.0000	0611.2	201.6	39.4
260.0	023.0000	0115.0	040.7	054.7	100.0000	0611.2	201.9	39.4

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**September 2001**

**EXHIBIT A4**

KXKS-FM - BLH-19840607CO  
Channel = 229C  
Max ERP = 100 kW  
RCAMSL = 664 M  
N. Lat = 32 40 39  
W. Lng = 93 55 41

KHBM-FM - Proposed  
Channel = 229C2  
Max ERP = 23 kW  
RCAMSL = 193 M  
N. Lat = 33 46 35  
W. Lng = 91 43 02

Protected  
60 dBu

Interfering  
40 dBu

3 second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
039.0	100.0000	0610.2	092.2	251.5	023.0000	0115.1	155.6	32.5
040.0	100.0000	0610.2	092.2	251.0	023.0000	0113.6	154.8	32.6
041.0	100.0000	0610.1	092.2	250.5	023.0000	0112.4	154.0	32.7
042.0	100.0000	0609.9	092.2	250.0	023.0000	0112.4	153.3	32.8
043.0	100.0000	0609.7	092.2	249.4	023.0000	0111.8	152.5	32.9
044.0	100.0000	0609.6	092.2	248.9	023.0000	0111.8	151.9	33.0
045.0	100.0000	0609.6	092.2	248.3	023.0000	0110.9	151.2	33.1
046.0	100.0000	0609.6	092.2	247.7	023.0000	0110.9	150.6	33.2
047.0	100.0000	0609.6	092.2	247.2	023.0000	0110.3	150.1	33.3
048.0	100.0000	0609.6	092.2	246.6	023.0000	0110.3	149.6	33.4
049.0	100.0000	0609.5	092.2	246.0	023.0000	0110.2	149.1	33.5
050.0	100.0000	0609.5	092.2	245.4	023.0000	0110.9	148.7	33.5
051.0	100.0000	0609.5	092.2	244.8	023.0000	0110.9	148.3	33.6
052.0	100.0000	0609.6	092.2	244.2	023.0000	0111.6	147.9	33.7
053.0	100.0000	0610.2	092.2	243.6	023.0000	0111.6	147.6	33.7
054.0	100.0000	0611.1	092.2	242.9	023.0000	0112.4	147.3	33.8
055.0	100.0000	0611.2	092.2	242.3	023.0000	0113.1	147.1	33.9
056.0	100.0000	0610.5	092.2	241.7	023.0000	0113.1	147.0	33.9
057.0	100.0000	0610.1	092.2	241.1	023.0000	0113.1	146.9	33.9
058.0	100.0000	0609.7	092.2	240.4	023.0000	0112.8	146.8	33.9
059.0	100.0000	0609.6	092.2	239.8	023.0000	0112.8	146.8	33.9
060.0	100.0000	0609.8	092.2	239.2	023.0000	0113.2	146.8	33.9
061.0	100.0000	0609.9	092.2	238.6	023.0000	0113.2	146.9	33.9
062.0	100.0000	0610.1	092.2	237.9	023.0000	0113.7	147.0	33.9
063.0	100.0000	0610.2	092.2	237.3	023.0000	0113.2	147.1	33.9
064.0	100.0000	0610.2	092.2	236.7	023.0000	0113.2	147.3	33.8
065.0	100.0000	0610.3	092.2	236.1	023.0000	0112.5	147.6	33.8
066.0	100.0000	0610.5	092.2	235.4	023.0000	0111.5	147.9	33.7
067.0	100.0000	0610.6	092.2	234.8	023.0000	0111.5	148.2	33.6
068.0	100.0000	0610.6	092.2	234.2	023.0000	0109.3	148.6	33.5
069.0	100.0000	0610.8	092.2	233.6	023.0000	0109.3	149.0	33.4
070.0	100.0000	0610.8	092.2	233.0	023.0000	0107.6	149.5	33.3
071.0	100.0000	0610.8	092.2	232.5	023.0000	0107.5	150.0	33.2
072.0	100.0000	0610.6	092.2	231.9	023.0000	0107.5	150.5	33.1
073.0	100.0000	0610.3	092.2	231.3	023.0000	0107.4	151.1	33.0
074.0	100.0000	0609.9	092.2	230.8	023.0000	0107.4	151.8	32.9
075.0	100.0000	0609.5	092.2	230.2	023.0000	0107.1	152.5	32.8
076.0	100.0000	0609.2	092.2	229.7	023.0000	0107.1	153.2	32.7
077.0	100.0000	0609.7	092.2	229.1	023.0000	0106.6	153.9	32.6
078.0	100.0000	0610.2	092.2	228.6	023.0000	0106.6	154.7	32.4
079.0	100.0000	0610.5	092.2	228.1	023.0000	0106.5	155.5	32.3

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**EXHIBIT A5**

Predicted Signal Contours:

33 46 35 - TABULATED PROTECTED AND INTERFERING CONTOURS  
91 43 02 - KHBM-FM, MONTICELLO, ARKANSAS

ERP = 23 kW, 13.617 dBk FM - 2-6 Tables 03 Sec

Radial	HAAT	kW	dBk	Field	60 dBu.5	70 dBu.5	40 dBu.1
-----							
* 0 Degr.	138.4M	23.000	13.617	1.000	43.7	26.3	118.3
10 Degr.	139.2M	23.000	13.617	1.000	43.8	26.3	118.4
20 Degr.	140.8M	23.000	13.617	1.000	44.1	26.5	118.7
30 Degr.	142.0M	23.000	13.617	1.000	44.2	26.6	118.9
40 Degr.	141.5M	23.000	13.617	1.000	44.1	26.5	118.8
* 45 Degr.	142.2M	23.000	13.617	1.000	44.2	26.6	118.9
50 Degr.	143.1M	23.000	13.617	1.000	44.4	26.7	119.0
60 Degr.	142.2M	23.000	13.617	1.000	44.2	26.6	118.9
70 Degr.	141.9M	23.000	13.617	1.000	44.2	26.6	118.8
80 Degr.	141.2M	23.000	13.617	1.000	44.1	26.5	118.7
* 90 Degr.	140.5M	23.000	13.617	1.000	44.0	26.4	118.6
100 Degr.	139.6M	23.000	13.617	1.000	43.9	26.4	118.5
110 Degr.	138.5M	23.000	13.617	1.000	43.7	26.3	118.3
120 Degr.	137.9M	23.000	13.617	1.000	43.7	26.2	118.2
130 Degr.	139.5M	23.000	13.617	1.000	43.9	26.4	118.4
* 135 Degr.	138.6M	23.000	13.617	1.000	43.8	26.3	118.3
140 Degr.	138.2M	23.000	13.617	1.000	43.7	26.3	118.2
150 Degr.	137.6M	23.000	13.617	1.000	43.6	26.2	118.1
160 Degr.	135.1M	23.000	13.617	1.000	43.3	26.0	117.7
170 Degr.	131.9M	23.000	13.617	1.000	42.9	25.7	117.2
* 180 Degr.	129.3M	23.000	13.617	1.000	42.5	25.5	116.7
190 Degr.	124.3M	23.000	13.617	1.000	41.9	25.1	115.9
200 Degr.	121.6M	23.000	13.617	1.000	41.6	24.9	115.4
210 Degr.	115.0M	23.000	13.617	1.000	40.7	24.3	114.3
220 Degr.	109.2M	23.000	13.617	1.000	39.9	23.8	113.3
* 225 Degr.	107.5M	23.000	13.617	1.000	39.6	23.6	113.0
230 Degr.	107.1M	23.000	13.617	1.000	39.5	23.6	112.9
240 Degr.	112.8M	23.000	13.617	1.000	40.4	24.1	113.9
250 Degr.	112.4M	23.000	13.617	1.000	40.3	24.1	113.8
260 Degr.	115.1M	23.000	13.617	1.000	40.7	24.3	114.3
* 270 Degr.	108.7M	23.000	13.617	1.000	39.8	23.7	113.2
280 Degr.	102.3M	23.000	13.617	1.000	38.8	23.0	112.1
290 Degr.	104.3M	23.000	13.617	1.000	39.1	23.3	112.4
300 Degr.	106.6M	23.000	13.617	1.000	39.5	23.5	112.8
310 Degr.	108.2M	23.000	13.617	1.000	39.7	23.7	113.1
* 315 Degr.	108.8M	23.000	13.617	1.000	39.8	23.7	113.2
320 Degr.	105.4M	23.000	13.617	1.000	39.3	23.4	112.6
330 Degr.	115.9M	23.000	13.617	1.000	40.8	24.4	114.4
340 Degr.	118.6M	23.000	13.617	1.000	41.2	24.6	114.9
350 Degr.	132.8M	23.000	13.617	1.000	43.0	25.8	117.3
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Ave. HAAT= 126.6M, Ant. COR= 193.0M AMSL