

MODIFY BPH-20040406ACH
CUMULUS LICENSING LLC
KMJK (FM) RADIO STATION
CH 297C1 - 107.3 MHZ - 100.0 KW
LEXINGTON, MISSOURI
October 2005

EXHIBIT A

The proposed KMJK antenna location will be shortspaced to one authorized facility: the outstanding permit for KMAJ-FM, Channel 299C1, Shawnee, Kansas. The detailed spacing information is shown on Exhibit A1. Cumulus proposes to use the provisions of §73.215 of the Commission's rules to address this shortspaced situation. The shortage to KMAJ-FM complies with §73.215(e) of the Commission's rules.

Exhibit A2 specifically demonstrates that there will be no prohibited overlap between the proposed KMJK and the KMAJ-FM CP. The contours of KMAJ-FM are based on the authorized facility, as the permit was granted pursuant to §73.215 of the rules. Attached as Exhibits A3 and A4 are the tabulated distances to the protected and interfering contours, along the pertinent arcs, of the proposed KMJK and KMAJ-FM CP. Further, attached as Exhibit A5 are the tabulated and protected contours of the proposed facility, in ten degree increments. Again, there is no prohibited overlap between the facilities.

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EXHIBIT A1

Clearance Study for KMJK Lexington, Missouri
Using Proposed Site as Reference

REFERENCE	CLASS = C1						DISPLAY DATES	
39 05 40 N.	Current Spacings						DATA	10-12-05
94 05 47 W.							SEARCH	10-12-05
----- Channel 297 - 107.3 MHz -----								
Call	Channel	Location			Azi	Dist	FCC	Margin
	Lat.	Lng.	Ant	Power		HAAT		

KMJK	LIC 297C	Lexington		MO	113.9	15.71	270.0	-254.29
	39 02 14	93 55 49	C	100.000 kW		361 M		
	Cumulus Licensing LLC			BMLH-20010621AAK				
KMJK.C	CP 297C0	Lexington		MO	113.8	15.73	259.0	-243.27
	39 02 14	93 55 48	CX	100.000 kW		361 M		
	Cumulus Licensing LLC			BPH-20040406ACH				
* KMAJFM	CP -N 299C1	Shawnee		KS	263.8	81.27	82.0	-0.73
	39 00 45	95 01 46	NCX	90.000 kW		299 M		
	Cumulus Licensing LLC			BPH-20040406ACG				
KRBZ	LIC 243C0	Kansas City		MO	257.6	36.99	37.0	-0.01
	39 01 20	94 30 49	C	100.000 kW		335 M		
	Entercom Kansas City License			BLH-20030422ABI				
KBBK	LIC 297C1	Lincoln		NE	311.0	281.45	245.0	36.45
	40 43 38	96 36 51	C	100.000 kW		168 M		
	Monterey Licenses, LLC			BMLH-20011030AAN				
KCVK	LIC-N 299A	Otterville		MO	115.0	114.08	75.0	39.08
	38 39 21	92 54 27	NC	2.700 kW		152 M		
	Lake Area Educational Broad.			BMLEL-20011026AAX				
KCVK.C	CP -Z 299A	Otterville		MO	115.0	114.08	75.0	39.08
	38 39 21	92 54 27	ZCX	2.500 kW		152 M		
	Lake Area Educational Broad.			BPED-20040406ACL				
KTXV	LIC 295C	Jefferson City		MO	109.6	148.12	105.0	43.12
	38 38 16	92 29 34	CY	100.000 kW		381 M		
	Zimmer Radio Of Mid-Missouri			BLH-19900727KA				
KMAJFM	LIC 299C	Topeka		KS	267.8	157.68	105.0	52.68
	39 01 34	95 54 58	CN	100.000 kW		370 M		
	Cumulus Licensing LLC			BLH-19861103KC				
KTPK	LIC 295C	Topeka		KS	267.8	157.76	105.0	52.76
	39 01 34	95 55 01	CX	100.000 kW		369 M		
	JMK Broadcasting Company			BMLH-20040913ABR				
KLTE	LIC 300C1	Kirksville		MO	44.8	135.86	82.0	53.86
	39 57 23	92 58 29	CY	100.000 kW		299 M		
	Bott Communications, Inc.			BLH-19910605KD				

* Note: This shortage is addressed under §73.215 of the rules, see Exhibit A.

Graham Brock, Inc. - Broadcast Technical Consultants

KMJK Proposed
Latitude: 39-05-40 N
Longitude: 094-05-47 W
ERP: 100.00 kW
Channel: 297C1
AMS Height: 538.57 m

KMAJ-FM CP
BPH-20040406ACG
Latitude: 39-00-45 N
Longitude: 095-01-46 W
ERP: 90.00 kW
Channel: 299C1
AMS Height: 565.0 m

KMAJ-FM CP 60 dBu (50/50)

KMAJ-FM 100 dBu (50/10)

KMJK 60 dBu (50/50)

KMJK 100 dBu (50/10)

EXHIBIT A2

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Scale 1:1,500,000
0 20 40 60 km

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October 2005

EXHIBIT A3

KMJK - Proposed
Channel = 297C1
Max ERP = 100 kW
RCAMSL = 538.6113 M
N. Lat = 39 05 40
W. Lng = 94 05 47

KMAJ-FM - BPH-20040406ACG
Channel = 299C1
Max ERP = 90 kW
RCAMSL = 565 M
N. Lat = 39 00 45
W. Lng = 95 01 46

Protected
60 dBu

Interfering
100 dBu

30 Second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
240.0	100.0000	0274.7	070.3	142.4	090.0000	0288.3	032.9	79.6
241.0	100.0000	0273.1	070.2	141.9	090.0000	0288.3	031.7	80.2
242.0	100.0000	0271.7	070.1	141.3	090.0000	0289.3	030.5	80.9
243.0	100.0000	0270.5	070.0	140.7	090.0000	0289.3	029.3	81.6
244.0	100.0000	0269.2	069.8	139.9	090.0000	0290.2	028.2	82.3
245.0	100.0000	0267.5	069.7	139.0	090.0000	0291.0	027.0	83.1
246.0	100.0000	0265.4	069.5	137.8	090.0000	0291.5	025.9	83.8
247.0	100.0000	0263.2	069.3	136.5	090.0000	0291.8	024.8	84.6
248.0	100.0000	0261.3	069.2	135.1	090.0000	0292.5	023.7	85.4
249.0	100.0000	0260.0	069.1	133.7	090.0000	0293.7	022.7	86.2
250.0	100.0000	0259.4	069.0	132.2	090.0000	0298.6	021.6	87.2
251.0	100.0000	0259.4	069.0	130.6	090.0000	0300.9	020.6	88.1
252.0	100.0000	0260.0	069.1	128.9	090.0000	0301.9	019.5	88.9
253.0	100.0000	0260.4	069.1	127.0	090.0000	0301.2	018.5	89.8
254.0	100.0000	0260.4	069.1	124.6	090.0000	0301.7	017.5	90.6
255.0	100.0000	0259.9	069.1	121.9	090.0000	0304.9	016.7	91.4
256.0	100.0000	0259.4	069.0	118.7	090.0000	0304.0	015.8	92.0
257.0	100.0000	0259.6	069.0	115.4	090.0000	0302.4	015.0	92.7
258.0	100.0000	0260.4	069.1	111.7	090.0000	0300.6	014.3	93.5
259.0	100.0000	0261.8	069.2	107.7	090.0000	0301.9	013.5	94.5
260.0	100.0000	0263.2	069.3	103.2	090.0000	0304.0	012.9	95.4
261.0	100.0000	0264.7	069.5	098.2	090.0000	0303.0	012.3	96.2
262.0	100.0000	0266.6	069.6	092.8	090.0000	0301.8	011.9	96.8
263.0	100.0000	0268.2	069.8	087.0	090.0000	0300.7	011.6	97.2
264.0	100.0000	0269.2	069.8	080.9	090.0000	0299.5	011.5	97.3
265.0	100.0000	0269.8	069.9	074.9	090.0000	0307.3	011.6	97.4
266.0	100.0000	0270.4	070.0	068.9	090.0000	0304.2	011.8	97.0
267.0	100.0000	0271.6	070.0	063.3	090.0000	0293.7	012.1	96.2
268.0	100.0000	0272.8	070.2	057.9	090.0000	0287.0	012.6	95.3
269.0	100.0000	0274.6	070.3	053.0	090.0000	0286.1	013.1	94.6
270.0	100.0000	0276.5	070.5	048.4	090.0000	0284.7	013.7	93.6
271.0	100.0000	0278.4	070.6	044.3	090.0000	0283.4	014.5	92.7
272.0	100.0000	0280.3	070.8	040.7	090.0000	0282.4	015.3	91.9
273.0	100.0000	0281.8	070.9	037.7	090.0000	0282.8	016.2	91.1
274.0	100.0000	0283.2	071.0	035.0	090.0000	0280.8	017.2	90.3
275.0	100.0000	0284.3	071.1	032.8	090.0000	0278.8	018.2	89.3
276.0	100.0000	0285.2	071.2	030.8	090.0000	0280.2	019.3	88.5
277.0	100.0000	0285.9	071.3	029.2	090.0000	0282.2	020.4	87.7
278.0	100.0000	0286.3	071.3	027.9	090.0000	0283.1	021.5	86.8
279.0	100.0000	0286.9	071.3	026.7	090.0000	0284.0	022.7	85.9
280.0	100.0000	0287.3	071.4	025.8	090.0000	0285.3	023.9	85.1

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EXHIBIT A4

KMAJ-FM - BPH-20040406ACG
Channel = 299C1
Max ERP = 90 kW
RCAMSL = 565 M
N. Lat = 39 00 45
W. Lng = 95 01 46

KMJK - Proposed
Channel = 297C1
Max ERP = 100 kW
RCAMSL = 538.6113 M
N. Lat = 39 05 40
W. Lng = 94 05 47

Protected
60 dBu

Interfering
100 dBu

30 Second terrain database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
062.0	090.0000	0292.3	070.7	323.2	100.0000	0317.2	030.2	82.3
063.0	090.0000	0293.7	070.8	323.0	100.0000	0317.2	028.9	83.0
064.0	090.0000	0295.2	070.9	322.7	100.0000	0317.2	027.7	83.8
065.0	090.0000	0297.2	071.1	322.5	100.0000	0317.2	026.5	84.6
066.0	090.0000	0299.2	071.3	322.2	100.0000	0315.9	025.2	85.4
067.0	090.0000	0301.2	071.4	321.8	100.0000	0315.9	024.0	86.3
068.0	090.0000	0302.9	071.5	321.2	100.0000	0313.8	022.8	87.2
069.0	090.0000	0304.2	071.6	320.5	100.0000	0310.9	021.5	88.0
070.0	090.0000	0305.2	071.7	319.5	100.0000	0310.9	020.3	89.0
071.0	090.0000	0306.1	071.8	318.3	100.0000	0304.6	019.2	89.8
072.0	090.0000	0306.6	071.8	316.8	100.0000	0302.6	018.0	90.7
073.0	090.0000	0307.0	071.8	315.1	100.0000	0300.7	016.9	91.5
074.0	090.0000	0307.2	071.9	312.9	100.0000	0299.7	015.8	92.4
075.0	090.0000	0307.3	071.9	310.3	100.0000	0300.3	014.7	93.4
076.0	090.0000	0306.9	071.8	307.2	100.0000	0301.3	013.7	94.6
077.0	090.0000	0306.1	071.8	303.4	100.0000	0300.2	012.9	95.8
078.0	090.0000	0304.7	071.7	298.9	100.0000	0296.5	012.1	96.8
079.0	090.0000	0302.9	071.5	293.6	100.0000	0295.0	011.4	97.8
080.0	090.0000	0301.2	071.4	287.8	100.0000	0292.2	010.9	98.5
081.0	090.0000	0299.5	071.3	281.3	100.0000	0287.9	010.5	99.0
082.0	090.0000	0298.6	071.2	274.6	100.0000	0284.3	010.2	99.4
083.0	090.0000	0298.1	071.2	267.6	100.0000	0272.8	010.1	99.3
084.0	090.0000	0297.6	071.1	260.5	100.0000	0264.7	010.1	98.9
085.0	090.0000	0297.8	071.1	253.6	100.0000	0260.4	010.3	98.5
086.0	090.0000	0299.1	071.2	246.8	100.0000	0263.2	010.5	98.2
087.0	090.0000	0300.7	071.4	240.4	100.0000	0274.7	010.9	98.0
088.0	090.0000	0302.6	071.5	234.5	100.0000	0285.5	011.4	97.5
089.0	090.0000	0302.7	071.5	229.6	100.0000	0288.2	012.1	96.5
090.0	090.0000	0302.4	071.5	225.4	100.0000	0293.1	013.0	95.4
091.0	090.0000	0302.1	071.5	221.9	100.0000	0293.3	013.9	94.2
092.0	090.0000	0301.9	071.5	218.8	100.0000	0292.2	014.9	92.9
093.0	090.0000	0301.8	071.5	216.2	100.0000	0288.7	015.9	92.0
094.0	090.0000	0301.9	071.5	213.9	100.0000	0288.7	017.0	91.1
095.0	090.0000	0302.3	071.5	211.9	100.0000	0289.9	018.1	90.2
096.0	090.0000	0302.4	071.5	210.2	100.0000	0291.6	019.2	89.4
097.0	090.0000	0302.9	071.5	208.8	100.0000	0292.8	020.3	88.5
098.0	090.0000	0303.0	071.5	207.6	100.0000	0293.5	021.5	87.6
099.0	090.0000	0303.0	071.5	206.5	100.0000	0293.7	022.7	86.7
100.0	090.0000	0303.5	071.6	205.6	100.0000	0293.3	023.9	85.8
101.0	090.0000	0303.6	071.6	204.8	100.0000	0292.5	025.1	84.9
102.0	090.0000	0303.8	071.6	204.2	100.0000	0291.4	026.3	84.0

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EXHIBIT A5

Predicted contour:

N. Lat. = 39 05 40 - Tabulated Service Contour Data
W. Lng. = 94 05 47 - KMJK Radio Station - Lexington, Missouri

HAAT and Distance to Contour - FCC Method - 30 Arc Second terrain database

Azi.	HAAT	ERP kW	dBk	Field	60-F5	40-F1	54-F1	100-F1
000	320.7	100.0000	20.00	1.000	73.92	174.36	107.27	10.45
010	309.5	100.0000	20.00	1.000	73.10	173.02	106.01	10.27
020	313.0	100.0000	20.00	1.000	73.36	173.43	106.38	10.33
030	322.3	100.0000	20.00	1.000	74.05	174.57	107.47	10.47
040	326.7	100.0000	20.00	1.000	74.37	175.12	108.04	10.54
050	319.4	100.0000	20.00	1.000	73.83	174.21	107.11	10.43
060	307.4	100.0000	20.00	1.000	72.94	172.78	105.80	10.24
070	299.5	100.0000	20.00	1.000	72.35	171.93	105.03	10.12
080	303.1	100.0000	20.00	1.000	72.62	172.31	105.38	10.18
090	301.8	100.0000	20.00	1.000	72.52	172.17	105.25	10.16
100	299.7	100.0000	20.00	1.000	72.36	171.95	105.05	10.12
110	288.6	100.0000	20.00	1.000	71.47	170.85	103.97	9.94
120	285.8	100.0000	20.00	1.000	71.24	170.59	103.69	9.89
130	295.8	100.0000	20.00	1.000	72.05	171.55	104.67	10.06
140	296.5	100.0000	20.00	1.000	72.11	171.62	104.74	10.07
150	300.8	100.0000	20.00	1.000	72.44	172.06	105.15	10.14
160	295.8	100.0000	20.00	1.000	72.06	171.55	104.67	10.06
170	280.9	100.0000	20.00	1.000	70.84	170.14	103.22	9.81
180	283.2	100.0000	20.00	1.000	71.03	170.35	103.44	9.85
190	287.1	100.0000	20.00	1.000	71.35	170.71	103.82	9.91
200	286.4	100.0000	20.00	1.000	71.29	170.64	103.75	9.90
210	291.6	100.0000	20.00	1.000	71.72	171.14	104.26	9.99
220	293.0	100.0000	20.00	1.000	71.83	171.27	104.39	10.01
230	288.2	100.0000	20.00	1.000	71.44	170.81	103.93	9.93
240	274.7	100.0000	20.00	1.000	70.31	169.57	102.60	9.69
250	259.4	100.0000	20.00	1.000	69.02	168.19	101.08	9.41
260	263.2	100.0000	20.00	1.000	69.34	168.54	101.46	9.48
270	276.5	100.0000	20.00	1.000	70.47	169.74	102.78	9.73
280	287.3	100.0000	20.00	1.000	71.36	170.73	103.84	9.92
290	293.0	100.0000	20.00	1.000	71.83	171.27	104.39	10.01
300	297.2	100.0000	20.00	1.000	72.16	171.69	104.80	10.08
310	300.3	100.0000	20.00	1.000	72.41	172.01	105.11	10.13
320	310.9	100.0000	20.00	1.000	73.20	173.18	106.16	10.30
330	321.8	100.0000	20.00	1.000	74.01	174.51	107.41	10.47
340	326.1	100.0000	20.00	1.000	74.33	175.05	107.97	10.53
350	321.4	100.0000	20.00	1.000	73.98	174.45	107.35	10.46

AMSL= 538.6 M