

### Channel Study

REFERENCE		CH# 220C3- 91.9 MHz, Pwr= 7 kW, HAAT=190.0M, COR= 440.1 M								DISPLAY DATES	
39 07 23.0 N.		Average Protected F(50-50)= 39.3 km								DATA 06-22-07	
94 23 24.0 W.										SEARCH 07-02-07	
CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*	
220A Liberty	KWJC	CP DCN MO	351.9 171.8	13.99 BPED19980717MA	39 14 52.0 94 24 47.0	4.000 65	73.1 313	21.1 William Jewell College	-84.69*	-82.37*	
220A Lake Lotawana	990104MM	APP ZCX MO	146.3 326.4	33.24 BPED19990104MM	38 52 27.0 94 10 36.0	0.215 70	35.4 357	10.5 Community Broadcasting, In	-40.57*	-77.82	
220A Liberty	KWJC	LIC CN MO	351.9 171.8	13.99 BLED19810824AA	39 14 52.0 94 24 47.0	0.180 65	32.2 313	9.7 William Jewell College	-43.80*	-70.99	
273D Kansas City	AP1957	APP C MO	305.9 125.8	11.50 BNPFT20030317FXX	39 11 00.7 94 29 52.9	0.180 72	34.1 397	10.2 Edgewater Broadcasting, In	9.0R	2.5M	
222C3 Olathe	KCCV-FM«	LIC CN KS	242.3 62.0	44.51 BLH19951113KA	38 56 10.0 94 50 41.0	8.300 167	3.8 465	38.7 Bott Broadcasting Company	10.49	3.15	
<b>220C3</b> St. Joseph	<b>KSRD</b>	LIC DCX MO	319.5 139.1	86.02 BLED20040928AHD	39 42 35.0 95 02 33.0	0.484 167	61.9 435	20.1 Horizon Christian Fellowsh	3.87	3.64	
06Z2E Sedalia	KMOSTV	LI HY MO	112.2 293.2	143.15 BLET20010926ACE	38 37 36.0 92 52 03.0	100.000 602		130.3 Board Of Governors Of Cent	139.4R	3.7M	
223A Richmond	KAYX«	LIC CN MO	81.4 261.7	48.57 BLH19900806KC	39 11 14.0 93 50 03.0	2.350 179	2.6 390	29.6 Bott Communications, Inc.	6.62	15.19	
<b>218C1</b> Lawrence	<b>KANU</b>	LIC CN KS	256.4 75.8	78.45 BLED19920721KA	38 57 14.0 95 16 11.0	100.000 237	9.0 491	67.1 University Of Kansas	42.79	9.13	
221D Cameron	AP0132	APP C MO	9.5 189.6	70.09 BNPFT20030317IRS	39 44 44.0 94 15 17.0	0.250 96	18.8 376	12.6 Covenant Network	20.26	10.67	
274D Bonner Springs	K274BR	LIC C KS	267.5 87.2	34.08 BLFT20061221ACI	39 06 32.0 94 47 01.0	0.180 72	34.1 374	10.2 Horizon Christian Fellowsh	9.0R	25.1M	
221A Butler	KMOE«	LIC CN MO	176.5 356.5	97.22 BLH19900814KB	38 14 56.0 94 19 18.0	4.700 30	22.1 298	14.8 Bates County Broadcasting	37.45	26.57	
273D Richmond	K273BE	CP DC MO	63.2 243.5	43.00 BNPFT20030828BDJ	39 17 46.9 93 56 41.1	0.180 72	34.1 327	10.2 Horizon Christian Fellowsh	9.0R	34.0M	
219A Marshall	KMVC	LIC VN MO	90.5 271.3	103.68 BLED19951023KD	39 06 31.0 93 11 29.0	0.100 8	8.0 241	5.6 Missouri Valley College	56.22	39.68	
221D Tecumseh	K221DW	LIC C KS	262.7 82.0	97.12 BLFT20061113AEG	39 00 26.0 95 30 08.0	0.092 131	16.7 430	11.5 Educational Media Foundati	55.42	48.17	
223D Clinton	AP2187	APP DV MO	153.8 334.1	92.94 BNPFT20030310BHD	38 22 18.0 93 55 06.0	0.098 14	0.7 247	5.6 Full Smile, Inc.	53.51	83.63	
222D St. Joseph	K222BH	LIC DV MO	333.3 153.1	76.10 BLFT20060315ABV	39 44 04.0 94 47 23.0	0.006 75	0.2 347	4.4 Calvary Chapel Of Twin Fal	54.29	70.17	
273D Cameron	AP1944	APP C MO	15.5 195.7	64.53 BNPFT20030317FWW	39 40 58.0 94 11 16.2	0.180 72	34.1 401	10.2 Edgewater Broadcasting, In	9.0R	55.5M	
223D Clinton	AP8160	APP C MO	144.2 324.6	102.79 BNPFT20030317BTN	38 22 16.0 93 42 00.0	0.250 45	1.1 295	8.7 Covenant Network	63.41	90.41	
219A Brookfield	AP2887	APP CX MO	56.2 237.0	136.93 BNPED20000127ABQ	39 48 02.0 93 03 38.0	0.250 63	14.5 293	10.4 American Family Associatio	82.79	67.86	

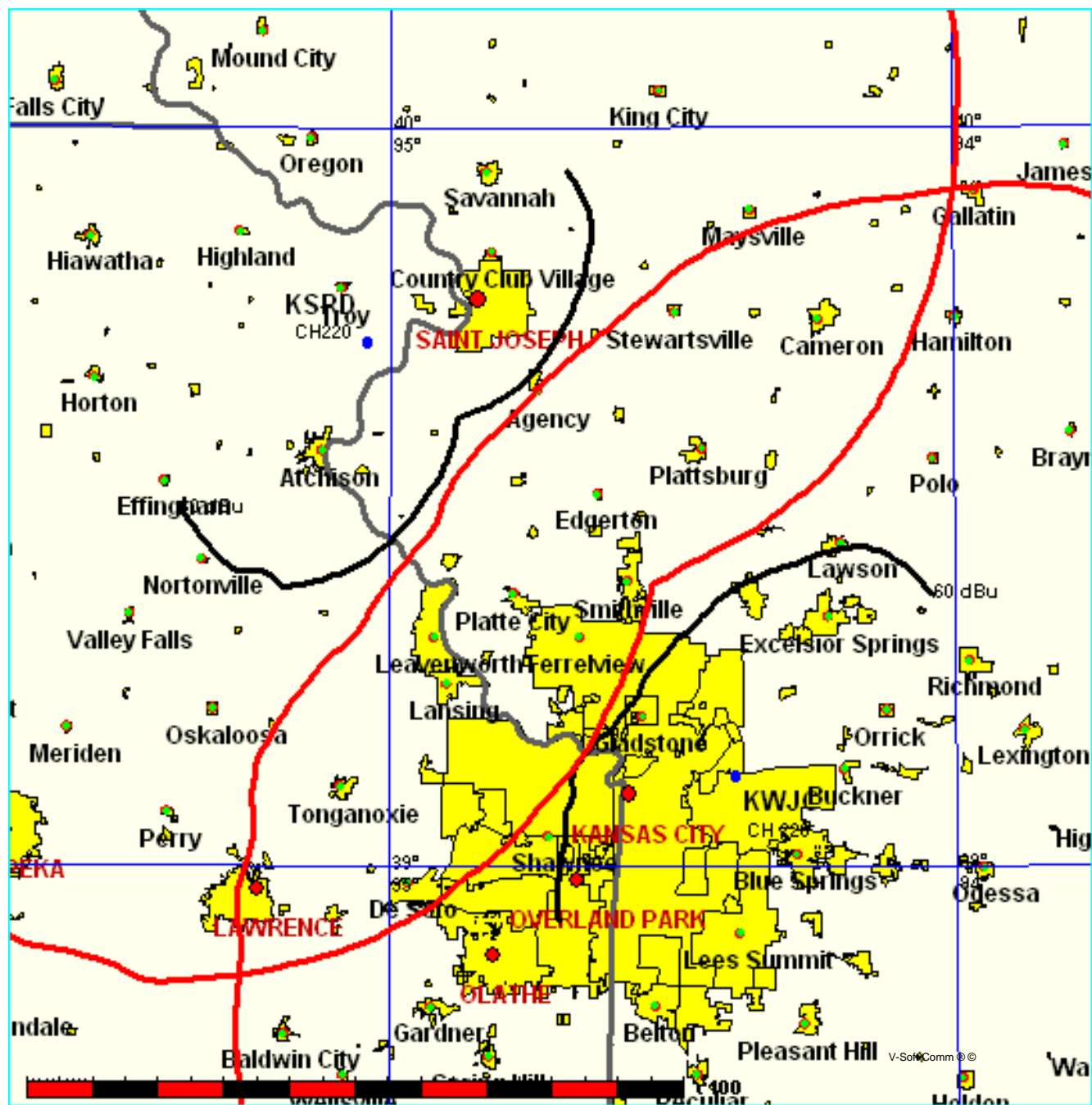
Terrain database is NGDC 30 SEC  
ERP and HAAT on direct-line with reference station.  
• affixed to TV6 Margin= no direct-line contour overlap.  
"«"affixed to 'IN' or 'Out' values = site inside protected contour.  
« = Station meets FCC minimum distance spacing for its class.

FMCommander Single Allocation Study  
07-05-2007

KWJC CH 220 C3  
7.0 kW 440.1 M COR DA  
Prot. = 60 dBu  
Intef. = 40 dBu

KSRD CH 220 C3 BLED20040928AHD  
10.0 kW, 435 M COR DA  
Prot. = 60 dBu  
Intef. = 40 dBu

Scale = 1:1,500,000



**KSRD vs. KWJC**

07-05-2007      30 Arc-Sec. Terrain Data      FMOver Analysis

KWJC  
Channel = 220C3  
Max ERP = 7 kW  
RCAMSL = 440.1 M  
N. Lat. 39 07 23.0  
W. Lng. 94 23 24.0  
Protected  
60 dBu

KSRD      BLED20040928AHD  
Channel = 220C3  
Max ERP = 10 kW  
RCAMSL = 435 M  
N. Lat. 39 42 35.0  
W. Lng. 95 02 33.0  
Interfering  
40 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
263.0	001.0789	0179.6	024.9	155.2	001.0232	0171.6	075.1	39.05
264.0	001.0321	0181.9	024.8	155.0	001.0148	0171.6	074.7	39.14
265.0	000.9864	0186.5	024.8	154.9	001.0101	0171.6	074.3	39.25
266.0	000.9417	0190.8	024.8	154.8	001.0043	0171.6	073.9	39.36
267.0	000.8980	0196.2	024.9	154.7	001.0000	0171.6	073.5	39.47
268.0	000.8554	0201.0	024.9	154.6	000.9941	0171.6	073.1	39.58
269.0	000.8138	0205.0	024.8	154.4	000.9861	0171.8	072.7	39.67
270.0	000.7732	0209.0	024.7	154.2	000.9775	0171.8	072.3	39.76
271.0	000.7417	0212.9	024.7	154.0	000.9701	0171.8	071.9	39.85
272.0	000.7109	0213.7	024.5	153.7	000.9567	0171.8	071.7	39.88
273.0	000.6807	0213.8	024.3	153.4	000.9418	0172.1	071.4	39.92
274.0	000.6512	0213.8	024.0	153.1	000.9266	0172.1	071.2	39.93
275.0	000.6224	0214.1	023.8	152.7	000.9118	0172.1	070.9	39.93
276.0	000.5942	0214.4	023.6	152.4	000.8968	0172.7	070.7	39.96
277.0	000.5666	0214.8	023.3	152.0	000.8818	0172.7	070.5	39.95
278.0	000.5397	0215.3	023.1	151.7	000.8668	0172.7	070.3	39.94
279.0	000.5135	0215.3	022.8	151.3	000.8510	0172.8	070.1	39.92
280.0	000.4879	0214.8	022.5	150.9	000.8345	0172.8	070.0	39.88
281.0	000.4706	0214.0	022.3	150.6	000.8198	0172.8	069.9	39.86
282.0	000.4537	0212.7	022.1	150.2	000.8047	0172.1	069.7	39.78
283.0	000.4371	0211.4	021.8	149.9	000.7907	0172.1	069.6	39.74
284.0	000.4209	0210.4	021.6	149.5	000.7790	0172.1	069.5	39.71
285.0	000.4049	0209.3	021.3	149.1	000.7673	0170.3	069.4	39.59
286.0	000.3892	0208.3	021.1	148.8	000.7557	0170.3	069.4	39.55
287.0	000.3738	0206.8	020.8	148.4	000.7438	0168.3	069.3	39.41
288.0	000.3588	0205.2	020.5	148.0	000.7319	0168.3	069.3	39.34
289.0	000.3441	0203.7	020.2	147.7	000.7203	0168.3	069.3	39.28
290.0	000.3296	0202.4	020.0	147.3	000.7089	0167.1	069.3	39.15
291.0	000.3287	0201.1	019.9	147.0	000.7007	0167.1	069.1	39.15
292.0	000.3278	0199.8	019.8	146.7	000.6925	0167.1	069.0	39.15
293.0	000.3269	0198.6	019.7	146.5	000.6842	0166.8	068.8	39.13
294.0	000.3260	0197.4	019.7	146.2	000.6760	0166.8	068.7	39.12
295.0	000.3251	0196.4	019.6	145.9	000.6679	0166.8	068.6	39.11
296.0	000.3242	0195.4	019.6	145.7	000.6598	0166.8	068.5	39.09
297.0	000.3233	0194.7	019.5	145.4	000.6518	0167.0	068.3	39.09
298.0	000.3224	0193.9	019.5	145.1	000.6438	0167.0	068.2	39.08
299.0	000.3215	0193.0	019.4	144.9	000.6357	0167.0	068.1	39.06
300.0	000.3206	0192.1	019.4	144.6	000.6276	0167.0	068.0	39.03
301.0	000.3179	0191.1	019.3	144.3	000.6193	0167.3	068.0	39.01

Exhibit 16 - B

FMCommander Single Allocation Study  
07-05-2007

KWJC CH 220 C3  
7.0 kW 440.1 M COR DA  
Prot. = 60 dBu  
Intef. = 100 dBu

KANU CH 218 C1 BLED19920721KA  
100.0 kW, 491 M COR  
Prot. = 60 dBu  
Intef. = 100 dBu

Scale = 1:2,000,000

