

Channel Study

REFERENCE		CH# 207C1- 89.3 MHz, Pwr= 50 kW, HAAT= 164.7 M, COR= 517 M							DISPLAY DATES	
37 04 30.0 N.		Average Protected F(50-50)= 54.0 km							DATA 04-24-08	
83 49 14.0 W.									SEARCH 04-24-08	
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*
207C1 McKee	KMLU	APP DEX KY	0.0 0.0	0.00 BMAPED20071019AJ	37 04 30.0 83 49 14.0	50.000 165	142.0 517	55.8 Educational Media Foundati	-180.93*	-157.28*
06Z2C Knoxville	WATETV	LI HY TN	185.3 5.2	119.39 BMLCT20041203AEH	36 00 13.0 83 56 34.0	100.000 548	120.4 859	158.6R Wate, G.p.		-39.2M
208C Johnson City	WETS-FM	LIC C TN	114.9 295.9	166.44 BMLED20060802ATX	36 26 02.0 82 08 08.0	66.000 692	140.6 1318	96.0 East Tennessee State Unive	1.17	33.15
206C2 Alcoa	WYLV	LIC HX TN	185.3 5.2	119.39 BLED20030227ADH	36 00 13.0 83 56 34.0	1.600 452	60.6 763	39.9 Foothills Broadcasting, In	9.52	6.66
207C3 Crossville	WMKW	LIC DVN TN	216.0 35.3	177.42 BLED19961120KA	35 46 38.0 84 58 34.0	0.500 425	79.5 930	27.8 The Moody Bible Institute	47.99	14.18
204C1 Whitesburg	WMMT	LIC DEN KY	87.3 268.0	96.37 BLED19951023KA	37 06 38.0 82 44 15.0	15.000 448	6.9 1018	70.4 Appalshop, Incorporated	61.04	23.62
205C1 Richmond	WEKU	CP DCX KY	333.7 153.3	99.82 BPED20070620ACS	37 52 45.0 84 19 33.0	100.000 215	8.8 480	66.1 Eastern Kentucky Universit	44.59	28.77
207B Louisville	WFPL	LIC CN KY	309.5 128.3	228.49 BLED19981005KB	38 21 55.0 85 50 24.0	21.000 236	135.0 426	56.4 Kentucky Public Radio, Inc	41.93	34.95
205C1 Richmond	WEKU	LIC CN KY	333.7 153.3	99.82 BMLED19990407KA	37 52 45.0 84 19 33.0	50.000 219	7.3 482	59.7 Eastern Kentucky Universit	46.07	35.20
207A Glasgow	NEW	CP CX KY	266.3 85.1	183.68 BNPED20071012APJ	36 57 05.0 85 52 43.0	0.800 60	33.0 289	9.6 Bowling Green Community Br	97.83	35.70
260A Vancleve	WMTC-FM	LIC CN KY	29.1 209.3	67.64 BLH19920821KC	37 36 23.0 83 26 48.0	6.000 100	1.6 400	17.6 Kentucky Mountain Holiness	21.5R	46.1M
210C3 Clinton	WDVX	LIC VN TN	200.7 20.5	104.00 BLED19961231KA	36 11 53.0 84 13 51.0	0.200 598	1.0 1089	32.1 Cumberland Communities Com	51.29	66.06
209C1 Somerset	WDCL-FM	LIC CN KY	274.8 94.0	119.75 BLED19850408KA	37 09 29.0 85 09 50.0	100.000 174	7.2 444	59.0 Western Kentucky Universit	58.99	54.54

Terrain database is NGDC 30 SEC Distance + R = FCC Required Spacings in KM, Distance + M = Margin in KM
 ERP and HAAT on direct-line with 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)
 "*"affixed to 'IN' or 'OUT' values = site inside protected contour.

FMCommander Single Allocation Study
04-24-2008

KMLU CH 207 C1
50.0 kW 517 M COR DA
Prot. = 60 dBu
Intef. = 54 dBu

WETS-FM CH 208 C BMLED20060802ATX
66.0 kW, 1318 M COR
Prot. = 60 dBu
Intef. = 54 dBu



KMLU vs. WETS-FM

04-24-2008 NGDC 30 SEC Terrain Data FMOver Analysis

KMLU
Channel = 207C1
Max ERP = 50 kW
RCAMSL = 517 M
N. Lat. 37 04 30.0
W. Lng. 83 49 14.0
Protected
60 dBu

WETS-FM BMLED20060802ATX
Channel = 208C
Max ERP = 66 kW
RCAMSL = 1318 M
N. Lat. 36 26 02.0
W. Lng. 82 08 08.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
077.0	002.6565	0169.9	029.8	303.2	066.0000	0834.3	144.2	53.00
078.0	002.5312	0173.2	029.7	303.0	066.0000	0834.2	143.9	53.08
079.0	002.4090	0177.1	029.7	302.9	066.0000	0834.2	143.6	53.17
080.0	002.2898	0181.0	029.6	302.7	066.0000	0834.1	143.3	53.26
081.0	002.2134	0184.7	029.7	302.5	066.0000	0834.1	142.9	53.36
082.0	002.1383	0186.9	029.6	302.4	066.0000	0834.0	142.6	53.43
083.0	002.0645	0187.0	029.3	302.1	066.0000	0833.9	142.5	53.47
084.0	001.9920	0186.2	029.0	301.9	066.0000	0833.8	142.4	53.49
085.0	001.9208	0185.5	028.8	301.7	066.0000	0833.8	142.3	53.50
086.0	001.8509	0184.8	028.5	301.4	066.0000	0833.7	142.3	53.52
087.0	001.7823	0187.7	028.4	301.3	066.0000	0833.7	142.1	53.58
088.0	001.7150	0191.0	028.4	301.1	066.0000	0833.7	141.8	53.65
089.0	001.6489	0194.5	028.4	300.9	066.0000	0833.6	141.6	53.72
090.0	001.5842	0197.4	028.3	300.7	066.0000	0833.6	141.4	53.77
091.0	001.6308	0187.7	027.9	300.5	066.0000	0833.6	141.5	53.72
092.0	001.6781	0178.1	027.4	300.2	066.0000	0833.6	141.7	53.68
093.0	001.7261	0168.4	026.9	299.9	066.0000	0833.5	141.9	53.61
094.0	001.7747	0161.7	026.6	299.7	066.0000	0833.5	142.0	53.59
095.0	001.8240	0161.2	026.7	299.6	066.0000	0833.5	141.7	53.67
096.0	001.8740	0158.5	026.7	299.4	066.0000	0833.5	141.6	53.71
097.0	001.9247	0156.4	026.6	299.2	066.0000	0833.5	141.4	53.75
098.0	001.9761	0155.9	026.8	299.1	066.0000	0833.4	141.1	53.83
099.0	002.0281	0154.2	026.8	298.9	066.0000	0833.5	141.0	53.88
100.0	002.0808	0154.3	027.0	298.7	066.0000	0833.5	140.7	53.96
101.0	002.0686	0154.1	026.9	298.5	066.0000	0833.5	140.6	53.99
102.0	002.0564	0150.0	026.5	298.3	066.0000	0833.5	140.8	53.93
103.0	002.0442	0143.0	026.0	298.1	066.0000	0833.6	141.2	53.80
104.0	002.0321	0138.7	025.6	297.8	066.0000	0833.7	141.5	53.73
105.0	002.0201	0136.7	025.4	297.7	066.0000	0833.8	141.6	53.71
106.0	002.0080	0137.3	025.4	297.5	066.0000	0833.8	141.5	53.74
107.0	001.9960	0140.3	025.6	297.3	066.0000	0833.9	141.2	53.82
108.0	001.9840	0141.9	025.7	297.1	066.0000	0834.1	141.0	53.86
109.0	001.9721	0141.2	025.6	297.0	066.0000	0834.3	141.1	53.85
110.0	001.9602	0136.6	025.2	296.8	066.0000	0834.5	141.4	53.76
111.0	002.0321	0129.8	024.9	296.6	066.0000	0834.8	141.7	53.68
112.0	002.1054	0124.2	024.6	296.4	066.0000	0835.0	141.9	53.63
113.0	002.1799	0121.6	024.6	296.2	066.0000	0835.3	141.9	53.63
114.0	002.2557	0120.2	024.7	296.0	066.0000	0835.6	141.9	53.66
115.0	002.3328	0117.8	024.7	295.9	066.0000	0835.9	141.9	53.66
116.0	002.4112	0112.9	024.4	295.7	066.0000	0836.2	142.1	53.58
117.0	002.4909	0105.8	023.8	295.5	066.0000	0836.5	142.7	53.44
118.0	002.5719	0099.8	023.4	295.4	066.0000	0836.7	143.2	53.30
119.0	002.6542	0097.5	023.3	295.2	066.0000	0837.0	143.3	53.27

120.0	002.7378	0098.8	023.6	295.0	066.0000	0837.3	143.0	53.35
121.0	002.7612	0101.1	023.9	294.9	066.0000	0837.6	142.8	53.42
122.0	002.7848	0101.5	024.0	294.7	066.0000	0837.8	142.7	53.44
123.0	002.8085	0101.1	024.0	294.5	066.0000	0838.1	142.8	53.42
124.0	002.8322	0101.0	024.0	294.4	066.0000	0838.4	142.9	53.41
125.0	002.8560	0100.3	024.0	294.2	066.0000	0838.6	143.0	53.38
126.0	002.8800	0098.1	023.8	294.0	066.0000	0838.7	143.3	53.30
127.0	002.9040	0094.1	023.3	293.9	066.0000	0838.9	143.8	53.17
128.0	002.9282	0090.6	023.0	293.8	066.0000	0839.0	144.2	53.04
129.0	002.9525	0088.5	022.7	293.7	066.0000	0839.1	144.6	52.95
130.0	002.9768	0088.0	022.7	293.5	066.0000	0839.1	144.7	52.92
131.0	003.0037	0090.2	023.0	293.3	066.0000	0839.2	144.5	52.97
132.0	003.0307	0095.7	023.8	293.1	066.0000	0839.2	144.0	53.12
133.0	003.0579	0103.5	024.7	292.8	066.0000	0839.1	143.2	53.32
134.0	003.0851	0111.0	025.6	292.5	066.0000	0838.9	142.6	53.49
135.0	003.1125	0116.6	026.2	292.2	066.0000	0838.7	142.2	53.59
136.0	003.1400	0121.3	026.7	292.0	066.0000	0838.5	142.0	53.65
137.0	003.1676	0124.9	027.0	291.8	066.0000	0838.3	141.8	53.69
138.0	003.1954	0124.8	027.1	291.6	066.0000	0838.1	142.0	53.64
139.0	003.2233	0120.3	026.7	291.5	066.0000	0837.9	142.5	53.49
140.0	003.2512	0116.1	026.4	291.4	066.0000	0837.8	143.1	53.35
141.0	003.3230	0117.2	026.6	291.2	066.0000	0837.5	143.1	53.34
142.0	003.3956	0122.8	027.3	290.9	066.0000	0837.2	142.8	53.42
143.0	003.4690	0128.8	027.9	290.6	066.0000	0836.8	142.5	53.49
144.0	003.5431	0133.7	028.5	290.3	066.0000	0836.6	142.3	53.55
145.0	003.6180	0137.8	029.0	290.0	066.0000	0836.5	142.2	53.58
146.0	003.6938	0141.8	029.5	289.7	066.0000	0836.5	142.1	53.61
147.0	003.7703	0143.7	029.8	289.5	066.0000	0836.5	142.1	53.59
148.0	003.8475	0142.1	029.8	289.3	066.0000	0836.6	142.5	53.50
149.0	003.9256	0139.5	029.7	289.2	066.0000	0836.6	142.9	53.38
150.0	004.0044	0139.9	029.9	289.0	066.0000	0836.7	143.1	53.33
151.0	004.2137	0143.6	030.6	288.6	066.0000	0836.8	142.9	53.38
152.0	004.4283	0149.3	031.6	288.2	066.0000	0837.1	142.6	53.46
153.0	004.6482	0155.3	032.6	287.7	066.0000	0837.5	142.3	53.56
154.0	004.8734	0158.5	033.3	287.4	066.0000	0837.7	142.2	53.58
155.0	005.1040	0157.1	033.6	287.1	066.0000	0837.8	142.5	53.50
156.0	005.3399	0153.5	033.5	287.0	066.0000	0837.9	143.0	53.38
157.0	005.5811	0150.1	033.5	286.8	066.0000	0837.9	143.4	53.25
158.0	005.8277	0148.2	033.6	286.7	066.0000	0837.9	143.8	53.15
159.0	006.0796	0148.8	034.1	286.4	066.0000	0837.8	144.0	53.09
160.0	006.3368	0153.1	034.9	286.0	066.0000	0837.5	144.0	53.08
161.0	006.6722	0158.9	036.0	285.5	066.0000	0836.7	143.9	53.10
162.0	007.0163	0162.0	036.7	285.1	066.0000	0835.8	144.1	53.05

Exhibit 16 - B

FMCommander Single Allocation Study
04-24-2008

KMLU	CH 207 C1	WYLV	CH 206 C2	BLED20030227ADH
50.0 kW	517 M COR DA	1.6 kW,	763 M COR	
Prot. =	60 dBu	Prot. =	60 dBu	
Intef. =	54 dBu	Intef. =	54 dBu	

