

Channel Study

REFERENCE		CH# 202A - 88.3 MHz, Pwr= 0.28 kW, HAAT= 103.0 M, COR= 395 M								DISPLAY DATES	
40 09 22.0 N.		Average Protected F(50-50)= 13.3 km								DATA 08-07-09	
85 25 48.0 W.		Omni-directional								SEARCH 08-08-09	
CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)	
202A	WKMV	LIC	DVX	161.1	11.9	40 03 18.0	1.000	62.9	20.1	-63.2*	-50.0*
Muncie		IN		341.1	BLED20080207AOK	85 23 05.0	101	414	Educational Media Foundati		
202B	WHZN	CP	DEX	216.4	103.6	39 24 14.0	7.800	88.6	32.4	1.6	25.1
New Whiteland		IN		35.9	BMPED20070906AEL	86 08 41.0	221	460	Horizon Christian Fellowsh		
202B1	WLAB	LIC	DCX	10.8	107.1	41 06 13.0	3.200	91.0	33.4	2.0	25.6
Fort Wayne		IN		190.9	BLED20050204AAC	85 11 28.0	185	431	Indiana District Of The Lu		
203B	WMUB	LIC	DCN	140.6	86.0	39 33 26.0	24.500	67.3	45.0	6.3	22.8
Oxford		OH		321.0	BLED19940407KB	84 47 35.0	154	449	The President & Trustees O		
201A	WJCF-FM	CP	DEX	205.9	36.6	39 51 34.0	5.400	13.9	10.0	10.0	7.7
Morristown		IN		25.7	BPED20090107AIS	85 37 02.0	44	377	Indiana Community Radio Co		
201A	WHCI	LIC	DE	7.7	36.9	40 29 07.0	0.100	8.0	5.6	14.8	9.9
Hartford City		IN		187.7	BLED20000210ABU	85 22 18.0	22	288	Blackford County School Co		
201A	WJCF-FM	LIC	VN	193.4	46.3	39 45 01.0	2.700	20.9	14.1	13.1	14.1
Morristown		IN		13.3	BLED20000728AEF	85 33 19.0	46	334	Indiana Community Radio Co		
203A	WVXI	CP	DEX	322.7	45.9	40 29 01.6	1.000	11.7	8.3	19.7	15.9
Cole		IN		142.5	BMPED20080519AAG	85 45 31.8	57	306	Electronic Applications Ra		
204B	WICR	LIC	H	246.7	71.7	39 53 58.0	5.000	3.8	43.6	53.8	26.9
Indianapolis		IN		66.2	BLED20010813AAA	86 12 02.0	279	534	University Of Indianapolis		
205A	WJYW	LIC	CN	85.5	53.9	40 11 32.0	4.100	2.3	23.2	38.6	29.5
Union City		IN		265.9	BLED19970218KA	84 47 58.0	87	414	Positive Alternative Radio		
202A	1210988	APP	ZVX	287.2	105.0	40 25 45.0	0.580	39.8	11.5	50.7	44.6
Rossville		IN		106.5	BNPED20071018DES	86 36 43.0	81	299	Pensacola Christian Colleg		
201A	WBCJ	LIC	CN	54.8	108.1	40 42 41.0	2.600	42.0	27.7	53.1	60.9
Spencerville		OH		235.5	BLED19970912KE	84 23 01.0	150	396	Taylor University Broadcas		
202A	WAIF	LIC	CN	144.4	140.2	39 07 36.0	1.600	64.6	19.8	63.3	78.2
Cincinnati		OH		325.0	BLED19920206KF	84 29 06.0	120	321	The Real Stepchild Radio O		
201A	WDPR	LIC	CX	115.3	111.8	39 43 16.0	0.600	36.0	23.9	63.5	69.7
Dayton		OH		296.1	BLED20071206ACB	84 15 00.0	238	503	Dayton Public Radio, Inc.		
06-T	WLFM-LP	AP	N	317.2	267.4	41 53 56.0	3.000	14.0	40.6	256.5R	212.7M
Rochelle		IL		135.8	BMPTVL20090630ABM	87 37 23.0	387	566	Venture Technologies Group		
06-T	WLFM-LP	LI	D N	317.2	267.4	41 53 56.0	3.000	14.0	29.1	256.5R	224.3M
Chicago		IL		135.8	BLTVL20090505ABA	87 37 23.0	385	564	Venture Technologies Group		

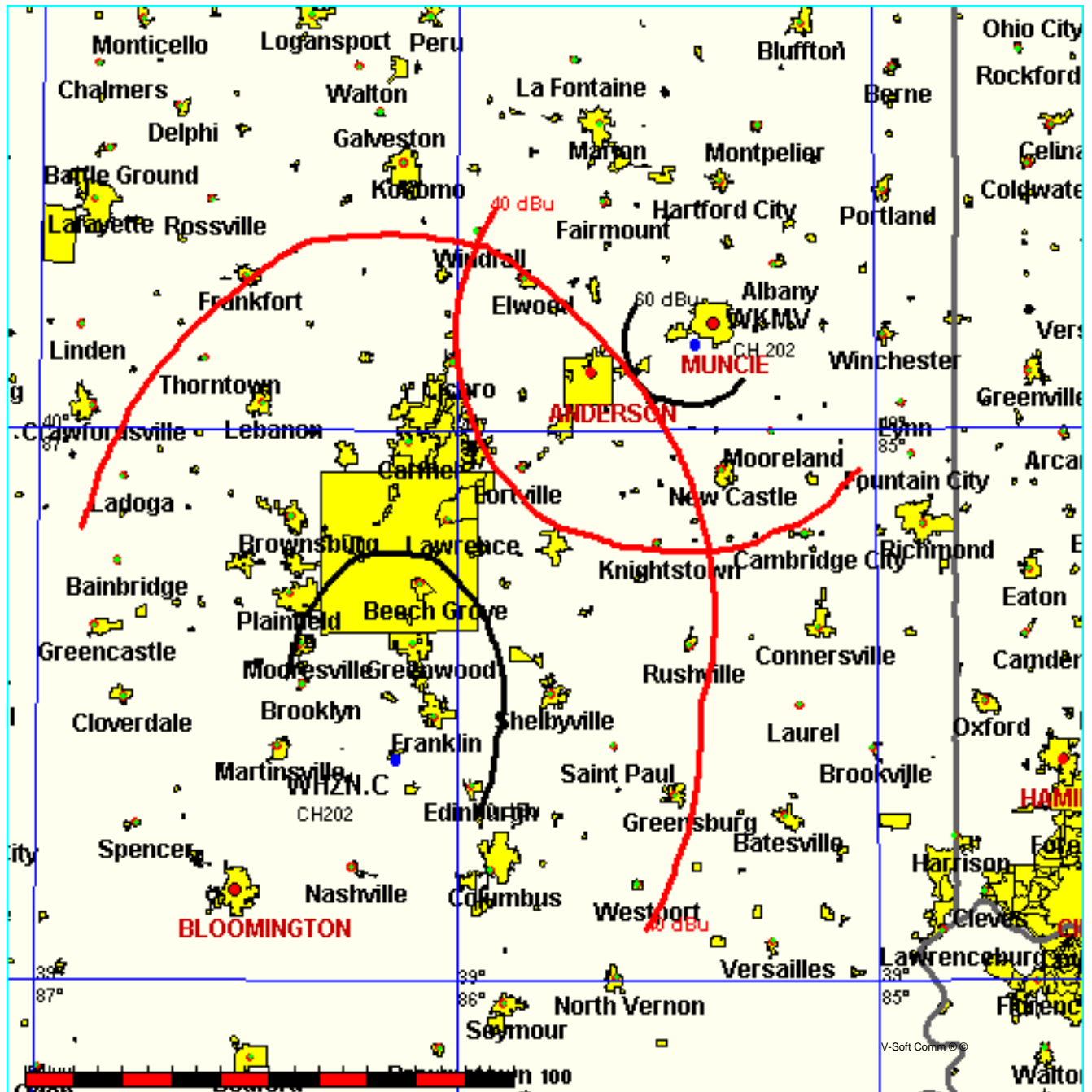
Terrain database is NGDC 30 SEC,R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference Zone = 1, Co to 3rd adjacent.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E),Beamtilt(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside protected contour.

Exhibit 16 - A

FMCommander Single Allocation Study
06-11-2009

WKMV CH 202 A
0.28 kW 395.1 M COR
Prot. = 60 dBu
Intef. = 40 dBu

WHZN-C CH 202 B BMPED20070906AEL
7.8 kW, 460 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu



WHZN Interfering vs. WKMV Protected

08-08-2009 NGDC 30 SEC Terrain Data FMOver Analysis

WKMV
Channel = 202A
Max ERP = 0.28 kW
RCAMSL = 395 M
N. Lat. 40 09 22.0
W. Lng. 85 25 48.0
Protected
60 dBu

WHZN.C BMPED20070906AEL
Channel = 202B
Max ERP = 7.8 kW
RCAMSL = 460 M
N. Lat. 39 24 14.0
W. Lng. 86 08 41.0
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)	I X (km)
156.0	000.2800	0081.5	012.0	042.0	001.5913	0227.7	098.2	35.90	
157.0	000.2800	0081.6	012.0	041.9	001.5945	0227.7	098.0	35.96	
158.0	000.2800	0082.0	012.0	041.9	001.5969	0227.6	097.8	36.03	
159.0	000.2800	0082.5	012.1	041.9	001.5994	0227.6	097.6	36.10	
160.0	000.2800	0083.0	012.1	041.8	001.6020	0227.6	097.4	36.17	
161.0	000.2800	0083.5	012.1	041.8	001.6047	0227.6	097.2	36.23	
162.0	000.2800	0083.9	012.2	041.7	001.6081	0227.5	097.0	36.30	
163.0	000.2800	0083.9	012.2	041.7	001.6122	0227.5	096.8	36.37	
164.0	000.2800	0084.0	012.2	041.6	001.6165	0227.4	096.6	36.43	
165.0	000.2800	0084.2	012.2	041.6	001.6207	0227.4	096.4	36.50	
166.0	000.2800	0084.5	012.2	041.5	001.6248	0227.3	096.2	36.57	
167.0	000.2800	0084.7	012.2	041.4	001.6293	0227.3	096.1	36.63	
168.0	000.2800	0084.7	012.2	041.4	001.6344	0227.2	095.9	36.70	
169.0	000.2800	0084.5	012.2	041.3	001.6400	0227.1	095.7	36.76	
170.0	000.2800	0084.3	012.2	041.2	001.6458	0227.1	095.6	36.82	
171.0	000.2800	0084.2	012.2	041.1	001.6516	0227.0	095.4	36.88	
172.0	000.2800	0084.1	012.2	041.0	001.6573	0226.9	095.3	36.94	
173.0	000.2800	0084.1	012.2	041.0	001.6632	0226.8	095.1	37.00	
174.0	000.2800	0084.1	012.2	040.9	001.6692	0226.8	094.9	37.07	
175.0	000.2800	0084.2	012.2	040.8	001.6751	0226.7	094.8	37.13	
176.0	000.2800	0084.2	012.2	040.7	001.6814	0226.6	094.6	37.19	
177.0	000.2800	0084.1	012.2	040.6	001.6879	0226.5	094.5	37.25	
178.0	000.2800	0084.0	012.2	040.5	001.6946	0226.4	094.3	37.30	
179.0	000.2800	0083.9	012.2	040.4	001.7014	0226.4	094.2	37.36	
180.0	000.2800	0083.9	012.2	040.3	001.7083	0226.3	094.1	37.42	
181.0	000.2800	0083.9	012.2	040.2	001.7152	0226.2	093.9	37.48	
182.0	000.2800	0084.3	012.2	040.1	001.7217	0226.1	093.8	37.54	
183.0	000.2800	0084.6	012.2	040.0	001.7283	0226.1	093.6	37.60	
184.0	000.2800	0084.9	012.2	039.9	001.7365	0226.0	093.5	37.66	
185.0	000.2800	0084.9	012.2	039.8	001.7459	0225.9	093.4	37.72	
186.0	000.2800	0084.9	012.2	039.7	001.7555	0225.8	093.2	37.78	
187.0	000.2800	0085.0	012.2	039.6	001.7651	0225.7	093.1	37.84	
188.0	000.2800	0085.2	012.2	039.5	001.7748	0225.7	093.0	37.90	
189.0	000.2800	0085.3	012.3	039.4	001.7847	0225.6	092.9	37.96	
190.0	000.2800	0085.6	012.3	039.3	001.7945	0225.5	092.7	38.01	
191.0	000.2800	0085.7	012.3	039.2	001.8047	0225.5	092.6	38.07	
192.0	000.2800	0086.0	012.3	039.1	001.8150	0225.4	092.5	38.13	
193.0	000.2800	0086.3	012.3	039.0	001.8253	0225.4	092.4	38.19	
194.0	000.2800	0086.7	012.3	038.8	001.8356	0225.3	092.3	38.25	
195.0	000.2800	0087.2	012.4	038.7	001.8460	0225.3	092.2	38.31	
196.0	000.2800	0087.8	012.4	038.6	001.8564	0225.2	092.0	38.37	
197.0	000.2800	0088.5	012.5	038.5	001.8670	0225.2	091.9	38.43	

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Exhibit 16-A1
Muncie, IN

198.0	000.2800	0089.2	012.5	038.4	001.8777	0225.1	091.8	38.49
199.0	000.2800	0089.9	012.6	038.3	001.8886	0225.1	091.7	38.55
200.0	000.2800	0090.6	012.6	038.2	001.8999	0225.0	091.6	38.61
201.0	000.2800	0091.0	012.6	038.0	001.9115	0225.0	091.5	38.67
202.0	000.2800	0091.4	012.7	037.9	001.9236	0225.0	091.4	38.72
203.0	000.2800	0091.7	012.7	037.8	001.9359	0224.9	091.3	38.77
204.0	000.2800	0091.8	012.7	037.6	001.9484	0224.9	091.2	38.82
205.0	000.2800	0092.0	012.7	037.5	001.9610	0224.9	091.2	38.87
206.0	000.2800	0092.3	012.7	037.4	001.9738	0224.8	091.1	38.91
207.0	000.2800	0092.6	012.7	037.2	001.9866	0224.8	091.0	38.96
208.0	000.2800	0093.1	012.8	037.1	001.9995	0224.8	091.0	39.01
209.0	000.2800	0093.8	012.8	037.0	002.0124	0224.8	090.9	39.06
210.0	000.2800	0094.7	012.9	036.8	002.0254	0224.7	090.8	39.12
211.0	000.2800	0095.6	012.9	036.7	002.0386	0224.7	090.7	39.17
212.0	000.2800	0096.7	013.0	036.6	002.0520	0224.7	090.6	39.23
213.0	000.2800	0097.9	013.1	036.4	002.0655	0224.7	090.5	39.29
214.0	000.2800	0099.1	013.2	036.3	002.0794	0224.6	090.4	39.34
215.0	000.2800	0100.5	013.3	036.1	002.0935	0224.6	090.3	39.40
216.0	000.2800	0102.1	013.4	036.0	002.1078	0224.6	090.2	39.47
217.0	000.2800	0103.6	013.5	035.8	002.1225	0224.6	090.1	39.53
218.0	000.2800	0104.6	013.5	035.7	002.1374	0224.6	090.1	39.57
219.0	000.2800	0105.4	013.6	035.5	002.1525	0224.6	090.0	39.62
220.0	000.2800	0106.1	013.6	035.4	002.1677	0224.6	090.0	39.66
221.0	000.2800	0106.8	013.7	035.2	002.1831	0224.5	090.0	39.70
222.0	000.2800	0107.3	013.7	035.1	002.1985	0224.5	090.0	39.73
223.0	000.2800	0107.6	013.7	034.9	002.2139	0224.5	090.0	39.76
224.0	000.2800	0107.8	013.7	034.8	002.2293	0224.5	090.0	39.78
225.0	000.2800	0107.9	013.7	034.6	002.2446	0224.5	090.0	39.80
226.0	000.2800	0108.0	013.7	034.5	002.2599	0224.6	090.1	39.82
227.0	000.2800	0108.0	013.7	034.3	002.2752	0224.6	090.1	39.83
228.0	000.2800	0108.0	013.7	034.2	002.2905	0224.6	090.2	39.84
229.0	000.2800	0108.0	013.7	034.0	002.3057	0224.6	090.2	39.86
230.0	000.2800	0108.0	013.7	033.9	002.3209	0224.6	090.3	39.86
231.0	000.2800	0108.0	013.7	033.7	002.3361	0224.6	090.4	39.87
232.0	000.2800	0108.1	013.8	033.6	002.3513	0224.6	090.4	39.88
233.0	000.2800	0108.5	013.8	033.5	002.3668	0224.6	090.5	39.89
234.0	000.2800	0109.1	013.8	033.3	002.3827	0224.7	090.5	39.91
235.0	000.2800	0109.9	013.9	033.1	002.3990	0224.7	090.6	39.93
236.0	000.2800	0110.9	013.9	033.0	002.4154	0224.7	090.6	39.95
237.0	000.2800	0111.8	014.0	032.8	002.4318	0224.7	090.6	39.96
238.0	000.2800	0112.4	014.0	032.7	002.4478	0224.7	090.7	39.97
239.0	000.2800	0112.8	014.0	032.5	002.4635	0224.7	090.8	39.97
240.0	000.2800	0113.1	014.1	032.4	002.4788	0224.7	090.9	39.97
241.0	000.2800	0113.2	014.1	032.3	002.4938	0224.7	091.0	39.96
242.0	000.2800	0113.3	014.1	032.1	002.5085	0224.7	091.1	39.95
243.0	000.2800	0113.4	014.1	032.0	002.5231	0224.7	091.2	39.94
244.0	000.2800	0113.5	014.1	031.9	002.5375	0224.7	091.3	39.93
245.0	000.2800	0113.5	014.1	031.7	002.5518	0224.7	091.5	39.91
246.0	000.2800	0113.6	014.1	031.6	002.5659	0224.6	091.6	39.89
247.0	000.2800	0113.7	014.1	031.5	002.5799	0224.6	091.7	39.87
248.0	000.2800	0113.8	014.1	031.3	002.5938	0224.6	091.9	39.85
249.0	000.2800	0113.8	014.1	031.2	002.6074	0224.6	092.0	39.83
250.0	000.2800	0113.9	014.1	031.1	002.6208	0224.5	092.2	39.80
251.0	000.2800	0113.9	014.1	031.0	002.6340	0224.5	092.3	39.78
252.0	000.2800	0113.9	014.1	030.9	002.6468	0224.5	092.5	39.75
253.0	000.2800	0113.9	014.1	030.7	002.6595	0224.4	092.6	39.72
254.0	000.2800	0113.9	014.1	030.6	002.6720	0224.4	092.8	39.68
255.0	000.2800	0114.0	014.1	030.5	002.6845	0224.4	093.0	39.65
256.0	000.2800	0114.1	014.1	030.4	002.6970	0224.3	093.1	39.62
257.0	000.2800	0114.3	014.1	030.3	002.7095	0224.3	093.3	39.59
258.0	000.2800	0114.6	014.2	030.2	002.7219	0224.3	093.5	39.55
259.0	000.2800	0114.9	014.2	030.1	002.7342	0224.2	093.6	39.52
260.0	000.2800	0115.2	014.2	030.0	002.7476	0224.2	093.8	39.49

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Exhibit 16-A1
Muncie, IN

261.0	000.2800	0115.6	014.2	029.9	002.7631	0224.2	094.0	39.45
262.0	000.2800	0116.1	014.3	029.8	002.7783	0224.1	094.2	39.42
263.0	000.2800	0116.5	014.3	029.6	002.7933	0224.1	094.4	39.39
264.0	000.2800	0116.8	014.3	029.5	002.8078	0224.0	094.5	39.35
265.0	000.2800	0117.2	014.3	029.4	002.8220	0224.0	094.7	39.31
266.0	000.2800	0117.5	014.3	029.4	002.8358	0223.9	094.9	39.27
267.0	000.2800	0117.8	014.4	029.3	002.8489	0223.9	095.1	39.23
268.0	000.2800	0118.1	014.4	029.2	002.8620	0223.9	095.3	39.19
269.0	000.2800	0118.5	014.4	029.1	002.8751	0223.8	095.5	39.14
270.0	000.2800	0118.9	014.4	029.0	002.8878	0223.8	095.7	39.10
271.0	000.2800	0119.3	014.4	028.9	002.9003	0223.7	095.9	39.05
272.0	000.2800	0120.0	014.5	028.8	002.9135	0223.7	096.2	39.01
273.0	000.2800	0120.4	014.5	028.7	002.9256	0223.6	096.4	38.96
274.0	000.2800	0120.9	014.5	028.7	002.9374	0223.6	096.6	38.91
275.0	000.2800	0121.0	014.5	028.6	002.9474	0223.6	096.8	38.85
276.0	000.2800	0084.7	012.2	029.8	002.7743	0224.1	098.0	38.26

Exhibit 16 - B

FMCommander Single Allocation Study
06-11-2009

WKMV CH 202 A
0.28 kW 395.1 M COR
Prot. = 60 dBu
Intef. = 40 dBu

WLAB CH 202 B1 BLED20050204AAC
3.2 kW, 431 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu

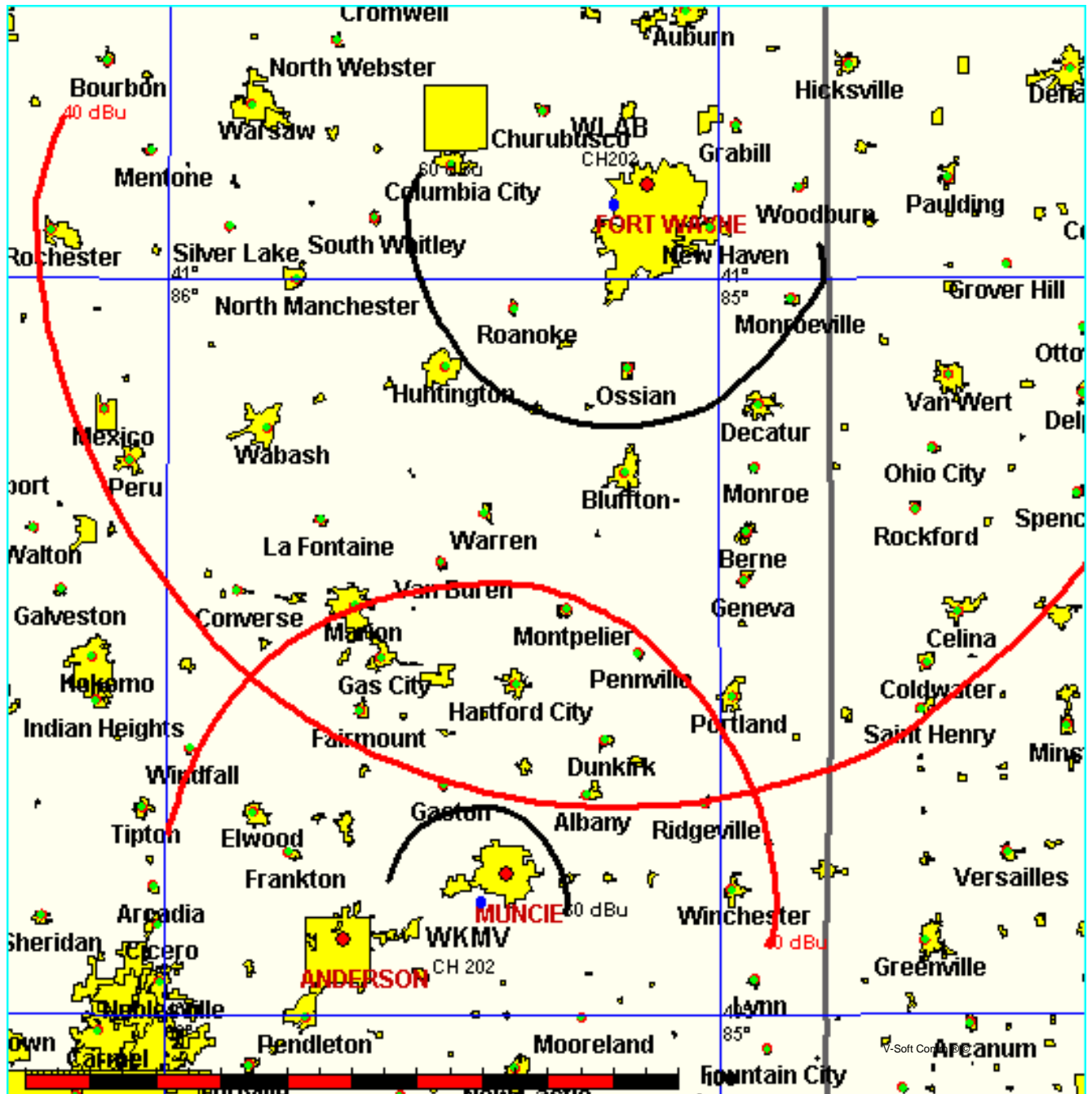


Exhibit 16 - C

FMCommander Single Allocation Study
06-11-2009

WKMV CH 202 A
0.28 kW 395.1 M COR
Prot. = 60 dBu
Intef. = 54 dBu

WMUB CH 203 B BLED19940407KB
24.5 kW, 449 M COR DA
Prot. = 60 dBu
Intef. = 54 dBu

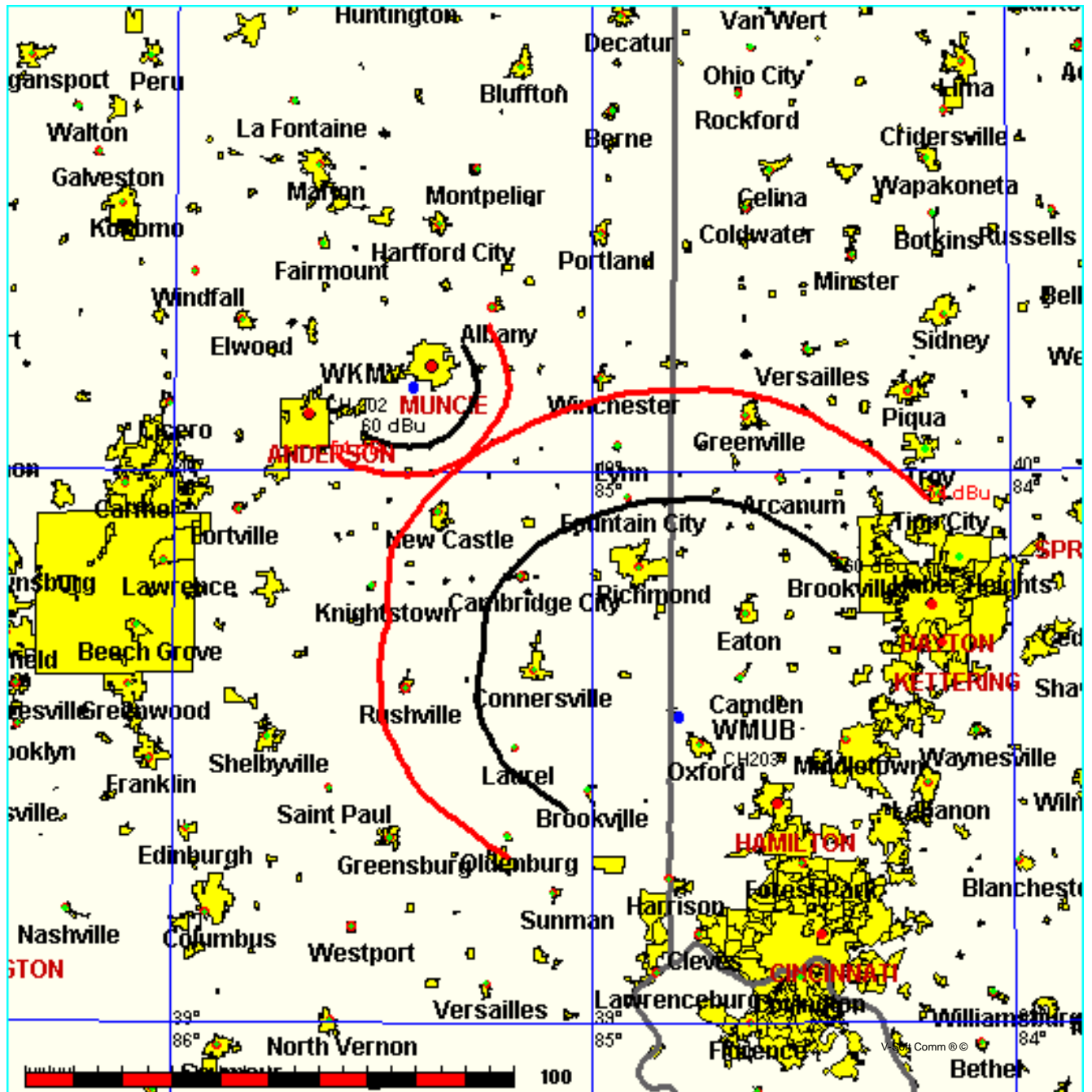
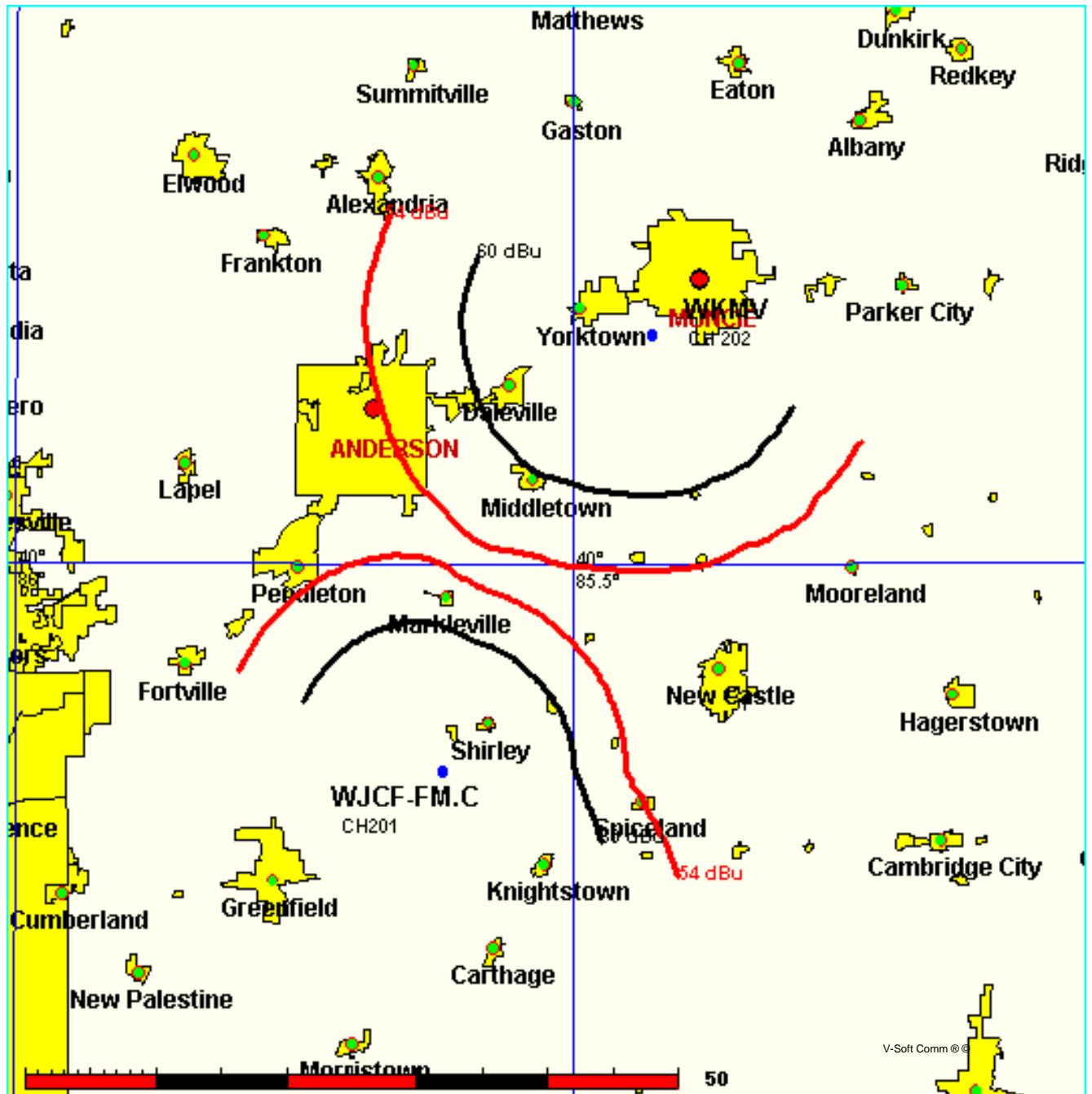


Exhibit 16 - D

FMCommander Single Allocation Study
06-11-2009

WKMV CH 202 A
0.28 kW 395.1 M COR
Prot. = 60 dBu
Intef. = 54 dBu

WJCF-FM.C CH 201 A BPED20090107AIS
5.4 kW, 377 M COR DA
Prot. = 60 dBu
Intef. = 54 dBu



FMCommander Single Allocation Study
06-11-2009

WKMV CH 202 A
0.28 kW 395.1 M COR
Prot. = 60 dBu
Intef. = 54 dBu

WHCI CH 201 A BLED20000210ABU
0.1 kW, 288 M COR DA
Prot. = 60 dBu
Intef. = 54 dBu

