

Channel Study

REFERENCE		CH# 204A - 88.7 MHz, Pwr= 4.5 kW, HAAT= 90.2 M, COR= 348 M								DISPLAY DATES	
41 04 26.0 N.		Average Protected F(50-50)= 25.3 km								DATA 06-12-10	
85 53 46.0 W.		Omni-directional								SEARCH 06-14-10	
CH CITY	CALL	TYPE STATE	ANT	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
204B1 Rochester	WQKV	CP	DCX IN	0.0 0.0	0.0 BPED20070724ADH	41 04 26.0 85 53 46.0	25.000 90	92.9 348	29.5 Educational Media Foundati	-117.4*<	-108.8*<
203A Rochester	WQKV	LIC	CX IN	266.1 85.8	31.5 BLED20060803AHY	41 03 14.0 86 16 12.0	0.250 52	12.8 289	9.2 Educational Media Foundati	-5.8<	-14.9<
203A Cole	WHUZ	CP	CX IN	169.1 349.2	56.7 BMPED20100204AAS	40 34 19.9 85 46 10.2	2.000 36	22.0 286	14.7 Hoosier Public Radio Corpo	7.5	0.2
205A Notre Dame	WSND-FM	LIC	CN IN	336.0 155.8	64.7 BLED19980812KB	41 36 19.0 86 12 45.0	3.400 110	37.4 348	24.6 Voice Of The Fighting Iris	1.7	0.9
204B Indianapolis	WICR	LIC	CX IN	191.4 11.2	133.6 BLED20091103ABQ	39 53 40.0 86 12 21.0	8.000 209	104.0 462	40.3 University Of Indianapolis	2.3	10.0
206B Fort Wayne	WBOI	LIC	DCN IN	86.6 267.1	60.4 BLED19940406KA	41 06 13.0 85 10 44.0	34.000 184	5.1 429	47.2 Northeast Indiana Public R	30.9	10.8
201B Elkhart	WVPE	LIC	DCX IN	337.9 157.7	64.8 BLED20081222ABZ	41 36 49.0 86 11 20.0	11.500 304	5.2 547	51.2 Elkhart Community Schools	34.0	11.1
207B Plymouth	WIKV	CP	DCX IN	311.1 130.8	41.9 BPED20090324ADH	41 19 13.0 86 16 25.0	42.500 81	2.5 325	25.4 Educational Media Foundati	13.9	14.0
205B Battle Ground	1214359	APP	DEX IN	246.7 66.0	107.0 BNPED20071019ARN	40 41 19.0 87 03 36.0	50.000 103	65.7 323	42.9 Bethel Christian Life Cent	16.5	26.2
205B Fowler	KAIZ	APP	DVX IN	246.7 66.0	107.0 BMJPED20071018AQG	40 41 19.0 87 03 36.0	50.000 89	65.2 308	41.9 Educational Media Foundati	17.0	27.3
207A Plymouth	WIKV	LIC	CX IN	309.5 129.2	48.0 BLED20050815AAW	41 20 51.0 86 20 23.0	0.400 76	1.4 317	11.9 Educational Media Foundati	21.2	33.6
202B1 Fort Wayne	WLAB	LIC	DCX IN	86.6 267.0	59.3 BLED20050204AAC	41 06 13.0 85 11 28.0	3.200 185	2.8 431	31.6 Star Educational Media Net	32.1	25.4
204B1 Riverside	WSIS	LIC	CX MI	344.6 164.3	136.1 BLED20081124ABA	42 15 14.0 86 20 09.0	6.000 117	85.2 307	27.1 Smile Fm	25.4	28.2
203B1 Constantine	NEW	CP	DCX MI	11.9 192.0	93.1 BNPED20071016AAZ	41 53 37.0 85 39 53.0	9.700 89	41.0 343	26.7 Living Faith Fellowship An	27.6	29.0
203B1 Wanatah	WTMK	CP	DCX IN	288.7 108.1	87.2 BPED20070830AAU	41 19 16.0 86 52 58.0	15.000 75	21.9 280	14.6 Calvary Radio Network, Inc	41.0	35.7
204A Gary	WGVE-FM	LIC	HN IN	294.7 113.7	130.5 BLED714	41 33 15.0 87 19 05.0	2.100 28	46.3 219	12.1 Gary Community School Corp	59.7	38.9
257A Van Buren	WCJC	LIC	CN IN	153.6 333.8	50.4 BLH19890906KD	40 40 01.0 85 37 50.0	3.000 100	1.6 356	17.6 Hoosier Am/fm, Llc	9.5R	40.9M
205A Wolcott	1215105	APP	NVX IN	253.6 72.9	96.4 BNPED20071022ADM	40 49 30.0 86 59 33.0	1.000 33	17.3 242	11.9 Community Radio For Hoosie	54.2	46.5
201A Hartford City	WHCI	LIC	DE IN	145.8 326.2	78.9 BLED20000210ABU	40 29 07.0 85 22 18.0	0.100 22	0.4 288	3.9 Blackford County School Co	51.3	72.4
204A Anna	WHJM	CP	DVX OH	114.6 295.7	159.0 BPED20070731ACJ	40 28 02.0 84 11 24.0	2.300 102	73.5 396	24.1 Radio Maria, Inc.	59.0	52.9
257A Knox	WKVI-FM	LIC	CN IN	295.2 114.7	65.5 BMLH19910401KB	41 19 20.0 86 36 17.0	3.300 91	1.6 306	17.6 Kankakee Valley B/cing. Co	9.5R	56.0M

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CH CITY	CALL	TYPE ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 2	
									IN	*OUT*
204A Anna	WHJM	LIC VX OH	114.6 295.7	159.0 BLED20060612ABD	40 28 01.8 84 11 24.2	1.000 97	63.8 396	20.4 Radio Maria, Inc.	68.8	56.5
203A Lowell	WTMK	LIC DCX IN	271.0 90.1	107.9 BLED20051212ACI	41 04 59.0 87 10 47.0	1.500 51	13.9 260	10.0 Calvary Radio Network, Inc	69.8	61.2
202A Rossville	1210988	APP ZVX IN	220.3 39.8	93.7 BNPED20071018DES	40 25 45.0 86 36 43.0	0.580 81	0.9 299	10.9 Pensacola Christian Colleg	67.0	80.3
205A Union City	WJYW	LIC CN IN	136.3 317.0	134.9 BLED19970218KA	40 11 32.0 84 47 58.0	4.100 87	39.4 414	25.8 Positive Alternative Radio	68.3	67.4
06-T Chicago	WLFM-LP	LI D N IL	303.1 122.0	170.9 BLTVL20100111AIE	41 53 56.0 87 37 23.0	3.000 387	19.6 566	11.5 Wlfm, Llc	234.5R	139.8M

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.
"<" = Contour Overlap
Reference station has protected zone issue: Canada

Exhibit 16 - A

FMCommander Single Allocation Study - 06-14-2010 - NGDC 30 SEC
WQKV's Overlaps (In= 7.49 km, Out= 0.17 km)

WQKV CH 204 A

Lat= 41 04 26.0, Lng= 85 53 46.0

4.5 kW 90.2 M HAAT, 348 M COR

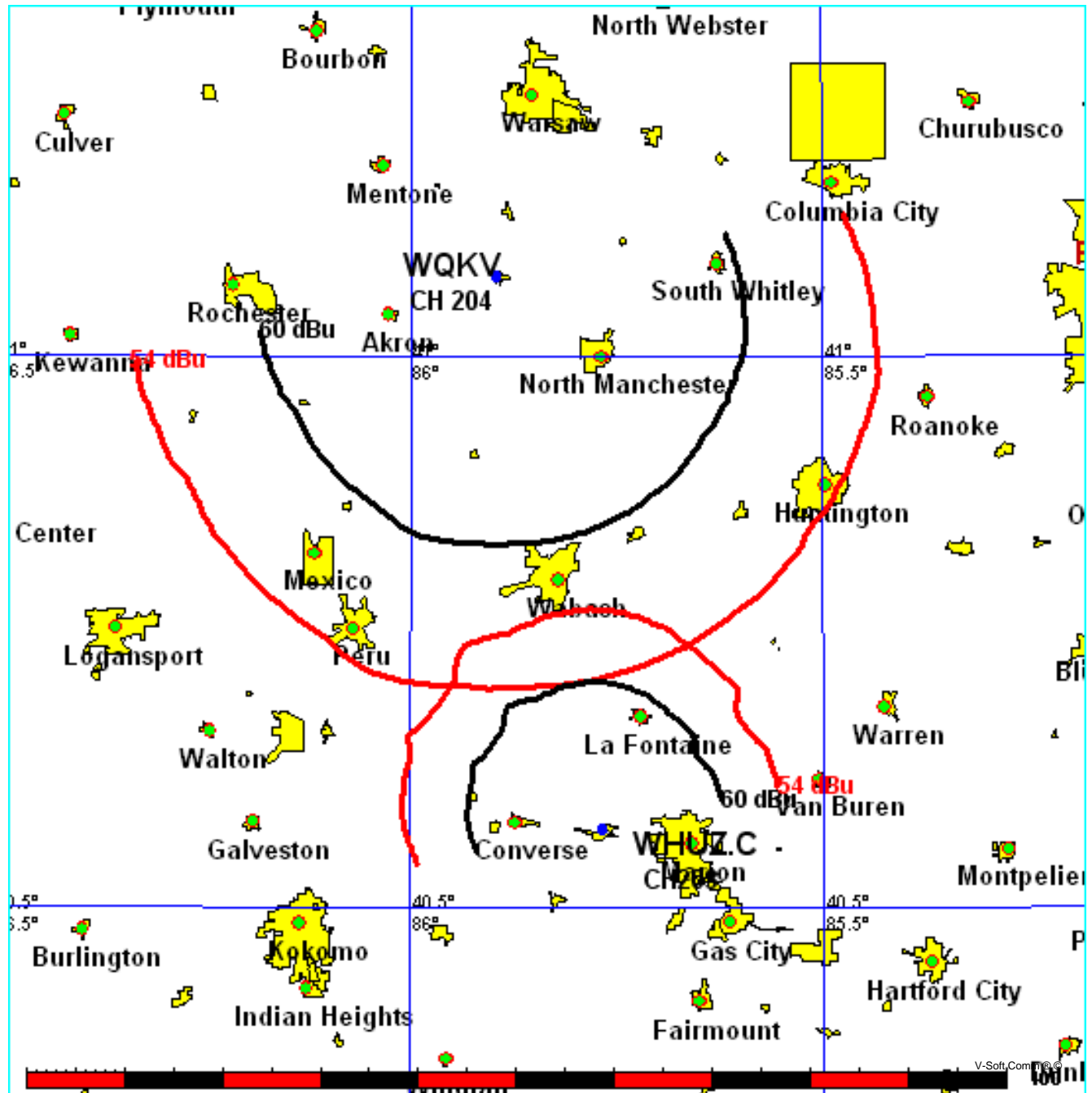
Prot.= 60 dBu, Intef.= 54 dBu

WHUZ-C CH 203 A BMPED20100204AAS

Lat= 40 34 19.9, Lng= 85 46 10.2

2.0 kW 35.59 M HAAT, 286 M COR

Prot.= 60 dBu, Intef.= 54 dBu



WQKV and WHUZ

06-14-2010 NGDC 30 SEC Terrain Data

WHUZ.C BMPED20100204AAS

WQKV

Channel = 203A
Max ERP = 2 kW
RCAMSL = 286 M
N. Lat. 40 34 19.9
W. Lng. 85 46 10.2
Protected
60 dBu

Channel = 204A
Max ERP = 4.5 kW
RCAMSL = 348 M
N. Lat. 41 04 26.0
W. Lng. 85 53 46.0
Interfering
54 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)
321.0	002.0000	0049.7	015.3	178.7	004.5000	0104.5	043.8	53.08	
322.0	002.0000	0050.2	015.4	178.5	004.5000	0104.5	043.6	53.17	
323.0	002.0000	0050.3	015.4	178.2	004.5000	0104.6	043.4	53.25	
324.0	002.0000	0050.1	015.4	177.9	004.5000	0104.7	043.3	53.30	
325.0	002.0000	0049.5	015.3	177.5	004.5000	0104.7	043.2	53.33	
326.0	002.0000	0049.0	015.2	177.1	004.5000	0104.7	043.2	53.35	
327.0	002.0000	0048.5	015.1	176.8	004.5000	0104.7	043.1	53.39	
328.0	002.0000	0048.1	015.1	176.4	004.5000	0104.8	043.0	53.42	
329.0	002.0000	0047.6	015.0	176.1	004.5000	0104.9	043.0	53.44	
330.0	002.0000	0047.1	014.9	175.7	004.5000	0105.0	042.9	53.46	
331.0	002.0000	0046.8	014.8	175.3	004.5000	0105.0	042.9	53.49	
332.0	002.0000	0046.3	014.8	175.0	004.5000	0105.0	042.9	53.50	
333.0	002.0000	0045.8	014.7	174.6	004.5000	0105.0	042.8	53.50	
334.0	002.0000	0045.4	014.6	174.3	004.5000	0105.0	042.8	53.51	
335.0	002.0000	0045.3	014.6	173.9	004.5000	0104.9	042.7	53.54	
336.0	002.0000	0045.5	014.6	173.6	004.5000	0104.9	042.6	53.59	
337.0	002.0000	0045.7	014.6	173.3	004.5000	0105.0	042.5	53.64	
338.0	002.0000	0045.8	014.7	173.0	004.5000	0105.0	042.4	53.67	
339.0	002.0000	0045.5	014.6	172.6	004.5000	0105.0	042.4	53.68	
340.0	002.0000	0045.3	014.6	172.3	004.5000	0105.2	042.4	53.70	
341.0	002.0000	0045.3	014.6	172.0	004.5000	0105.3	042.4	53.73	
342.0	002.0000	0045.7	014.6	171.6	004.5000	0105.4	042.2	53.79	
343.0	002.0000	0046.2	014.7	171.3	004.5000	0105.6	042.1	53.85	
344.0	002.0000	0046.4	014.8	171.0	004.5000	0105.7	042.0	53.89	
345.0	002.0000	0046.5	014.8	170.6	004.5000	0105.8	042.0	53.92	
346.0	002.0000	0046.5	014.8	170.3	004.5000	0105.9	042.0	53.93	
347.0	002.0000	0046.4	014.8	169.9	004.5000	0105.9	042.0	53.93	
348.0	002.0000	0046.2	014.7	169.6	004.5000	0106.0	042.0	53.93	
349.0	002.0000	0046.0	014.7	169.2	004.5000	0106.1	042.0	53.93	
350.0	002.0000	0046.1	014.7	168.9	004.5000	0106.2	042.0	53.94	
351.0	002.0000	0046.2	014.7	168.5	004.5000	0106.3	042.0	53.95	
352.0	002.0000	0046.3	014.8	168.2	004.5000	0106.4	042.0	53.96	
353.0	002.0000	0046.4	014.8	167.8	004.5000	0106.5	042.0	53.97	
354.0	002.0000	0046.5	014.8	167.5	004.5000	0106.6	042.0	53.97	
355.0	002.0000	0046.6	014.8	167.1	004.5000	0106.7	042.0	53.97	
356.0	002.0000	0046.5	014.8	166.8	004.5000	0106.8	042.1	53.96	
357.0	002.0000	0046.5	014.8	166.4	004.5000	0107.0	042.1	53.95	
358.0	002.0000	0046.3	014.8	166.1	004.5000	0107.0	042.2	53.92	
359.0	002.0000	0046.2	014.7	165.8	004.5000	0107.1	042.3	53.90	
000.0	002.0000	0046.1	014.7	165.4	004.5000	0107.2	042.4	53.87	
001.0	002.0000	0046.0	014.7	165.1	004.5000	0107.2	042.4	53.83	
002.0	002.0000	0045.8	014.7	164.8	004.5000	0107.2	042.5	53.80	

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Exhibit 16-A1
Warsaw, IN

003.0	002.0000	0045.8	014.7	164.5	004.5000	0107.2	042.6	53.76
004.0	002.0000	0045.7	014.7	164.1	004.5000	0107.2	042.7	53.72
005.0	002.0000	0045.7	014.6	163.8	004.5000	0107.2	042.8	53.68
006.0	002.0000	0045.5	014.6	163.5	004.5000	0107.2	042.9	53.63
007.0	002.0000	0045.1	014.5	163.2	004.5000	0107.2	043.1	53.56
008.0	002.0000	0044.8	014.5	163.0	004.5000	0107.2	043.3	53.50
009.0	002.0000	0044.7	014.5	162.7	004.5000	0107.1	043.4	53.44
010.0	002.0000	0044.7	014.5	162.4	004.5000	0107.1	043.5	53.40
011.0	002.0000	0044.6	014.5	162.1	004.5000	0107.1	043.6	53.34
012.0	002.0000	0044.3	014.4	161.8	004.5000	0107.1	043.8	53.27
013.0	002.0000	0043.9	014.3	161.6	004.5000	0107.1	044.0	53.19
014.0	002.0000	0043.4	014.3	161.4	004.5000	0107.1	044.2	53.11
015.0	002.0000	0043.2	014.2	161.1	004.5000	0107.1	044.4	53.04

Exhibit 16 - B

FMCommander Single Allocation Study - 06-14-2010 - NGDC 30 SEC
WQKV's Overlaps (In= 1.69 km, Out= 0.86 km)

WQKV CH 204 A

Lat= 41 04 26.0, Lng= 85 53 46.0

4.5 kW 90.2 M HAAT, 348 M COR

Prot.= 60 dBu, Intef.= 54 dBu

WSND-FM CH 205 A BLED19980812KB

Lat= 41 36 19.0, Lng= 86 12 45.0

3.4 kW 110 M HAAT, 348 M COR

Prot.= 60 dBu, Intef.= 54 dBu

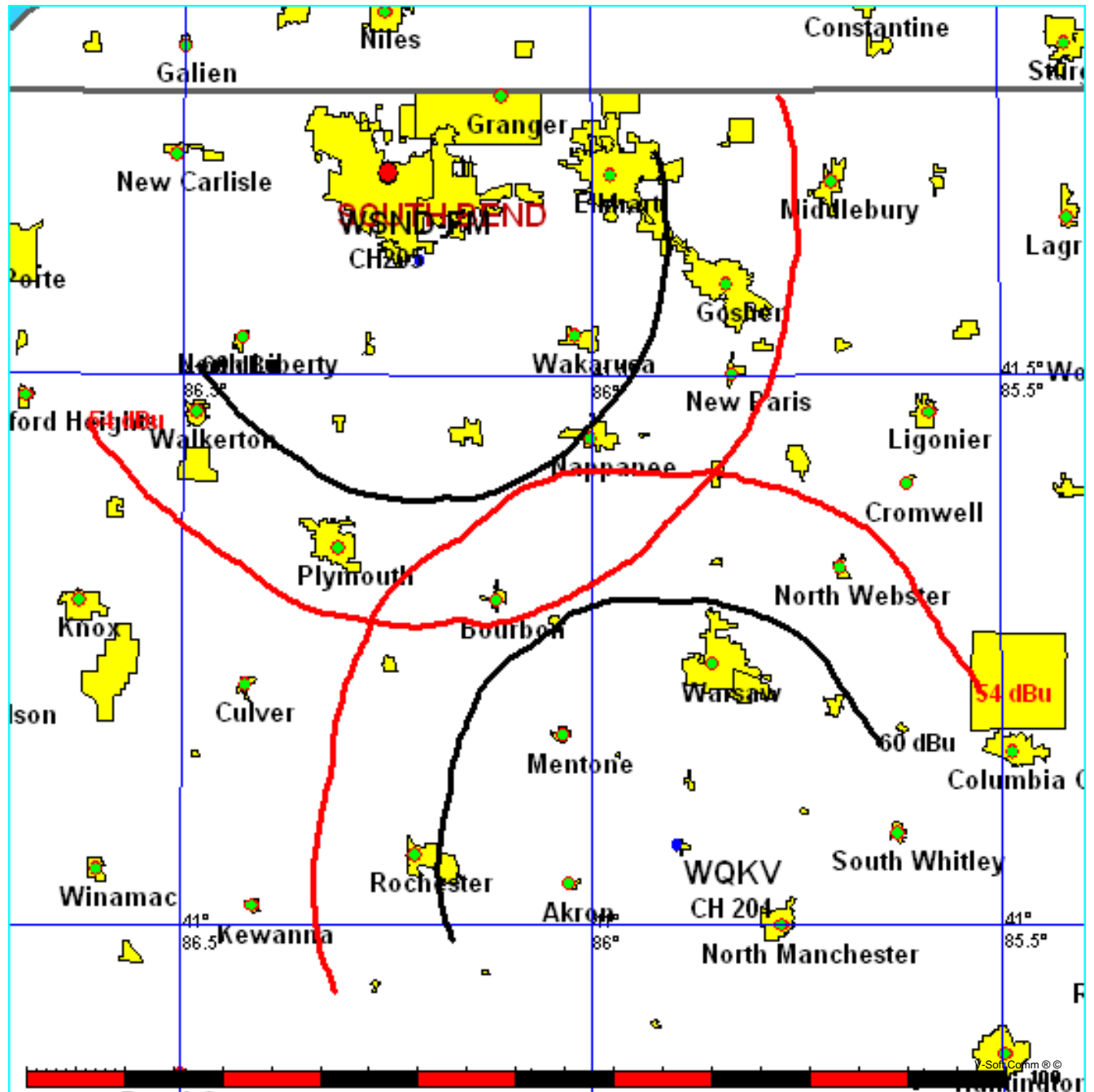


Exhibit 16 - C

FMCommander Single Allocation Study - 06-14-2010 - NGDC 30 SEC
WQKV's Overlaps (In= 2.27 km, Out= 10.02 km)

WQKV CH 204 A

Lat= 41 04 26.0, Lng= 85 53 46.0

4.5 kW 90.2 M HAAT, 348 M COR

Prot.= 60 dBu, Intef.= 40 dBu

WICR CH 204 B BLED20091103ABQ

Lat= 39 53 40.0, Lng= 86 12 21.0

8.0 kW 208.9 M HAAT, 461.5 M COR

Prot.= 60 dBu, Intef.= 40 dBu

