

WMWK Proposed - Channel Study

REFERENCE		CH# 201B - 88.1 MHz, Pwr= 4.2 kW, HAAT= 287.2 M, COR= 484 M							DISPLAY DATES		
43 05 26.0 N.		Average Protected F(50-50)= 41.7 km							DATA 02-29-24		
87 53 50.0 W.		Omni-directional							SEARCH 03-02-24		
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)	
201B1	WMWK!	LIC	CN	270.0	0.00	43 05 26.00	1.100		---	Reference---	
Milwaukee			WI	90.0	BMLED20130530AMI	87 53 50.30	276	480	Family Stations, Inc.		
201A	WWTG	LIC	DVN	199.9	116.26	42 06 21.10	2.000	45.4	12.0	29.4	0.1
Carpentersville			IL	19.6	BLED20111220AAA	88 22 38.30	33	296	Cary Grove Adventist Fello		
201A	WNTH	LIC	DCN	172.4	111.64	42 05 38.90	0.047	20.3	6.1	49.3	0.5
Winnetka			IL	352.6	0000131412	87 43 08.50	46	231	Board Of Education New Tri		
202C3	768563	CP	CN	315.4	100.23	43 43 41.20	24.000	56.3	35.7	3.2	4.0
Rosendale			WI	134.8	0000167734	88 46 22.10	68	354	Vanguard Association Of Su		
201C1	WHID	LIC	DCN	357.1	141.13	44 21 33.30	17.000	79.1	27.7	20.3	8.9
Green Bay			WI	177.1	BMLED20190313AAE	87 59 08.70	309	552	Board Of Regents Of The Un		
201A	WTZI	LIC	DCN	178.9	126.09	41 57 20.10	0.300	22.3	6.7	62.0	14.7
Rosemont			IL	358.9	BLED20101217ABD	87 52 02.20	22	218	Radioed		
202A	768170	CP	DCN	180.8	84.61	42 19 44.00	0.020	5.8	4.0	37.0	18.5
North Chicago			IL	0.8	0000166958	87 54 45.00	109	317	Poderosa Broadcasting, Inc		
201A	WCRX	LIC	DCN	170.5	136.93	41 52 27.90	0.100	21.2	6.4	73.7	25.4
Chicago			IL	350.7	0000216774	87 37 29.50	71	250	Columbia College		
201A	WLWX	LIC	DCN	187.0	136.68	41 52 09.10	0.250	15.5	4.8	79.4	27.1
Wheaton			IL	6.9	BLED19990921ABJ	88 05 56.20	43	266	Educational Media Foundati		
203B1	WSFI	LIC	DCN	199.8	72.03	42 28 49.00	6.100	3.0	31.3	27.6	37.2
Antioch			IL	19.6	BLED20131209YAX	88 11 42.00	115	359	Bvm Helping Hands		
202B	WFEN	LIC	DEN	231.8	129.63	42 21 48.10	8.500	58.6	39.6	30.6	29.9
Rockford			IL	50.9	BLED19970630KF	89 08 06.40	175	413	Faith Center		
201C1	WJTY	LIC	EN	266.6	207.03	42 57 08.80	49.000	136.0	50.8	30.7	54.0
Lancaster			WI	84.9	BLED20150817ACG	90 25 48.50	170	496	Family Life Broadcasting,		
201C1	WJTY	STA	EN	266.6	207.03	42 57 08.80	49.000	136.0	50.8	30.7	54.0
Lancaster			WI	84.9	0000218903	90 25 48.50	170	496	Family Life Broadcasting,		
201C1	WJTY	STA	EN	266.6	207.03	42 57 08.80	49.000	136.0	50.8	30.7	54.0
Lancaster			WI	84.9	0000238597	90 25 48.50	170	496	Family Life Broadcasting,		
201A	WLTL	LIC	DCN	179.5	141.97	41 48 45.10	0.180	11.7	3.6	88.5	33.6
La Grange			IL	359.5	BLED19850903KW	87 52 51.20	42	229	Lyons Township High School		
202A	WHCM	LIC	CN	187.4	112.99	42 04 54.10	0.100	8.0	5.6	63.2	45.2
Palatine			IL	7.3	BMLED20170530ABT	88 04 23.30	17	249	William Rainey Harper Coll		
201B	WVPE	LIC	DCN	138.9	216.16	41 36 49.20	11.500	126.8	53.1	46.7	56.9
Elkhart			IN	320.0	BLED20081222ABZ	86 11 20.00	304	547	Elkhart Community Schools		
254A	WMDC«	LIC	ZCN	307.4	64.03	43 26 16.90	6.000	0.0	0.0	15.0R	49.0M
Mayville			WI	127.0	BLH19981026KF	88 31 35.30	100	393	Radio Plus, Inc.		

Terrain database is FCC 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= - ZN1, Co to 3rd adjacent.

Call signs with exclamation marks need not be protected.

Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)

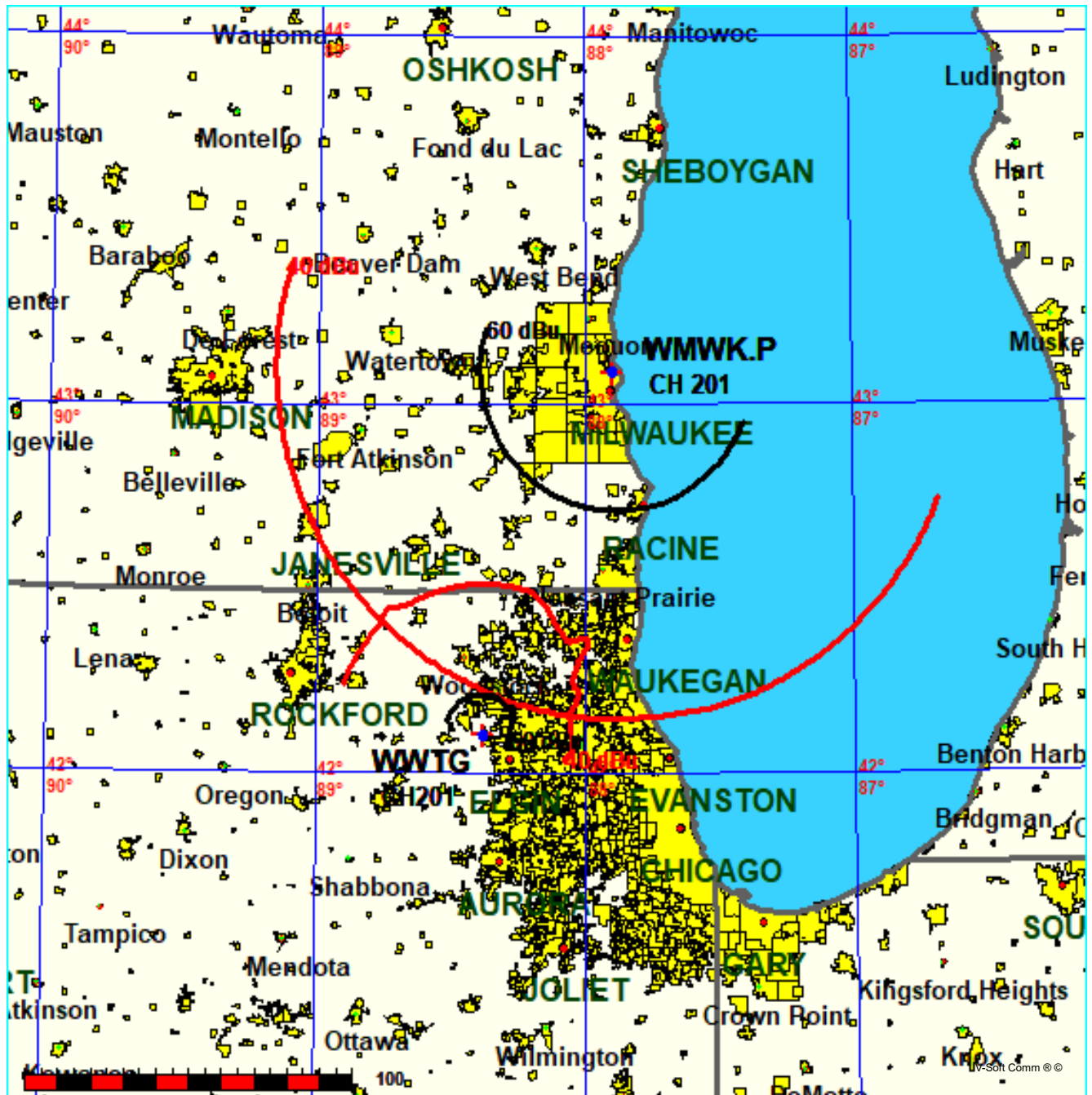
« = Station meets FCC minimum distance spacing for its class.

Exhibit 18-A

FMCommander Single Allocation Study - 03-02-2024 - FCC NGDC 30 Sec
WMWK.P's Overlaps (In= 29.38 km, Out= 0.06 km)

WMWK.P CH 201 B
Lat= 43 05 26.00, Lng= 87 53 50.00
4.2 kW 287.2 m HAAT, 484 m COR
Prot.= 60 dBu, Intef.= 40 dBu

WWTG CH 201 A DA BLED20111220AAA
Lat= 42 06 21.10, Lng= 88 22 38.30
2.0 kW 33 m HAAT, 296 m COR
Prot.= 60 dBu, Intef.= 40 dBu



WMWK.P vs. WWTG

03-02-2024 Terrain Data: FCC NGDC 30 Sec FMOver Analysis

WWTG BLEDD20111220AAA

WMWK.P

Channel = 201A
 Max ERP = 2 kW
 RCAMSL = 296 m
 N. Lat. 42 06 21.10
 W. Lng. 88 22 38.30
 Protected
 60 dBu

Channel = 201B
 Max ERP = 4.2 kW
 RCAMSL = 484 m
 N. Lat. 43 05 26.00
 W. Lng. 87 53 50.00
 Interfering
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
330.0	002.0000	0029.5	012.0	204.7	004.2000	0278.7	108.9	38.53	
331.0	002.0000	0028.9	012.0	204.7	004.2000	0278.7	108.7	38.57	
332.0	002.0000	0028.7	012.0	204.6	004.2000	0278.8	108.6	38.62	
333.0	002.0000	0028.7	012.0	204.5	004.2000	0278.9	108.4	38.67	
334.0	002.0000	0028.8	012.0	204.4	004.2000	0279.0	108.2	38.72	
335.0	002.0000	0028.8	012.0	204.4	004.2000	0279.0	108.1	38.76	
336.0	002.0000	0028.6	012.0	204.3	004.2000	0279.1	107.9	38.81	
337.0	002.0000	0028.4	012.0	204.2	004.2000	0279.2	107.8	38.85	
338.0	002.0000	0028.3	012.0	204.2	004.2000	0279.3	107.6	38.90	
339.0	002.0000	0028.3	012.0	204.1	004.2000	0279.3	107.5	38.94	
340.0	002.0000	0028.3	012.0	204.0	004.2000	0279.4	107.3	38.99	
341.0	002.0000	0028.2	012.0	203.9	004.2000	0279.5	107.2	39.03	
342.0	002.0000	0027.9	012.0	203.8	004.2000	0279.6	107.0	39.07	
343.0	002.0000	0027.5	012.0	203.7	004.2000	0279.7	106.9	39.11	
344.0	002.0000	0027.1	012.0	203.7	004.2000	0279.7	106.8	39.15	
345.0	002.0000	0026.9	012.0	203.6	004.2000	0279.8	106.6	39.19	
346.0	002.0000	0026.9	012.0	203.5	004.2000	0279.9	106.5	39.23	
347.0	002.0000	0027.1	012.0	203.4	004.2000	0280.0	106.4	39.27	
348.0	002.0000	0027.3	012.0	203.3	004.2000	0280.0	106.2	39.31	
349.0	002.0000	0027.3	012.0	203.2	004.2000	0280.1	106.1	39.35	
350.0	002.0000	0027.0	012.0	203.1	004.2000	0280.2	106.0	39.38	
351.0	002.0000	0026.6	012.0	203.0	004.2000	0280.3	105.9	39.42	
352.0	002.0000	0026.2	012.0	202.9	004.2000	0280.4	105.8	39.45	
353.0	002.0000	0026.0	012.0	202.8	004.2000	0280.4	105.7	39.48	
354.0	002.0000	0026.0	012.0	202.7	004.2000	0280.5	105.6	39.52	
355.0	002.0000	0026.0	012.0	202.6	004.2000	0280.6	105.5	39.55	
356.0	002.0000	0026.0	012.0	202.5	004.2000	0280.7	105.4	39.58	
357.0	002.0000	0026.1	012.0	202.4	004.2000	0280.8	105.3	39.61	
358.0	002.0000	0026.2	012.0	202.3	004.2000	0280.9	105.2	39.64	
359.0	002.0000	0026.4	012.0	202.2	004.2000	0281.0	105.1	39.66	
000.0	002.0000	0026.5	012.0	202.1	004.2000	0281.1	105.0	39.69	
001.0	002.0000	0026.7	012.0	202.0	004.2000	0281.2	105.0	39.72	
002.0	002.0000	0026.7	012.0	201.9	004.2000	0281.3	104.9	39.74	
003.0	002.0000	0026.7	012.0	201.8	004.2000	0281.4	104.8	39.76	
004.0	002.0000	0026.7	012.0	201.7	004.2000	0281.6	104.8	39.79	
005.0	002.0000	0026.7	012.0	201.6	004.2000	0281.7	104.7	39.81	
006.0	002.0000	0026.7	012.0	201.4	004.2000	0281.8	104.6	39.83	
007.0	002.0000	0026.8	012.0	201.3	004.2000	0281.9	104.6	39.85	
008.0	002.0000	0026.9	012.0	201.2	004.2000	0282.0	104.5	39.87	
009.0	002.0000	0027.1	012.0	201.1	004.2000	0282.1	104.5	39.88	
010.0	002.0000	0027.2	012.0	201.0	004.2000	0282.2	104.5	39.90	
011.0	002.0000	0027.4	012.0	200.9	004.2000	0282.4	104.4	39.91	

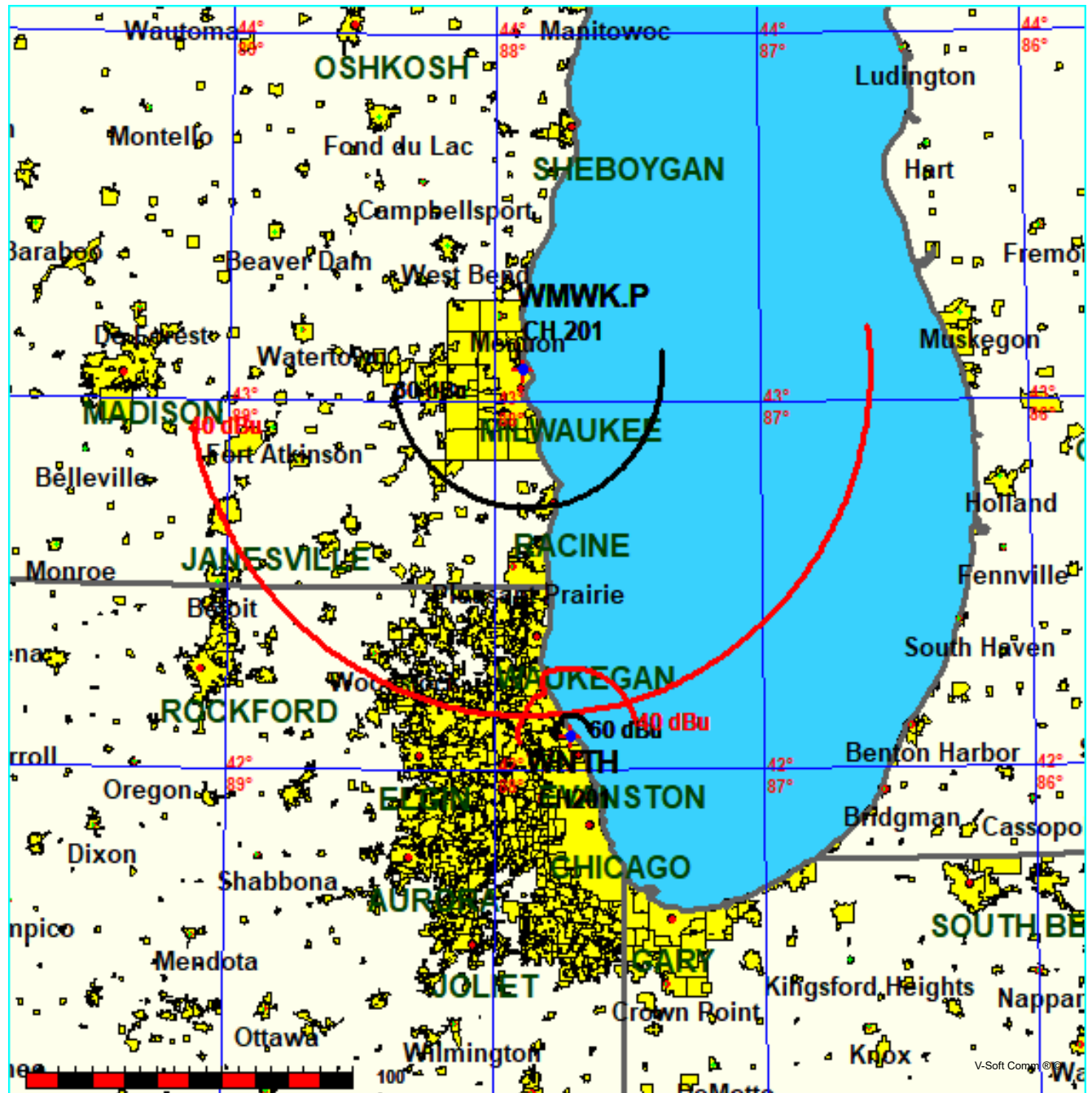
Family Stations, Inc.**Exhibit 18-A
Milwaukee, WI**

012.0	002.0000	0027.4	012.0	200.8	004.2000	0282.5	104.4	39.93
013.0	002.0000	0027.5	012.0	200.7	004.2000	0282.6	104.4	39.94
014.0	002.0000	0027.7	012.0	200.5	004.2000	0282.7	104.3	39.95
015.0	002.0000	0028.3	012.0	200.4	004.2000	0282.8	104.3	39.96
016.0	002.0000	0029.0	012.0	200.3	004.2000	0282.8	104.3	39.96
017.0	002.0000	0029.6	012.0	200.2	004.2000	0282.9	104.3	39.97
018.0	002.0000	0029.9	012.0	200.1	004.2000	0283.0	104.3	39.98
019.0	002.0000	0029.9	012.0	200.0	004.2000	0283.1	104.3	39.98
020.0	002.0000	0029.5	012.0	199.9	004.2000	0283.1	104.3	39.98
021.0	001.9523	0029.1	011.9	199.7	004.2000	0283.2	104.3	39.96
022.0	001.9052	0028.9	011.9	199.6	004.2000	0283.3	104.4	39.94
023.0	001.8586	0028.9	011.8	199.5	004.2000	0283.3	104.5	39.92
024.0	001.8126	0028.8	011.7	199.4	004.2000	0283.3	104.6	39.89
025.0	001.7672	0028.8	011.7	199.3	004.2000	0283.4	104.7	39.87
026.0	001.7224	0028.7	011.6	199.2	004.2000	0283.4	104.8	39.84
027.0	001.6781	0028.5	011.5	199.1	004.2000	0283.5	104.9	39.81
028.0	001.6344	0028.2	011.4	199.0	004.2000	0283.5	105.0	39.79
029.0	001.5913	0028.0	011.4	198.9	004.2000	0283.5	105.1	39.76
030.0	001.5488	0028.2	011.3	198.8	004.2000	0283.6	105.2	39.73
031.0	001.5034	0028.6	011.2	198.7	004.2000	0283.6	105.3	39.69
032.0	001.4586	0029.2	011.1	198.6	004.2000	0283.7	105.4	39.66
033.0	001.4146	0029.6	011.1	198.5	004.2000	0283.7	105.5	39.62
034.0	001.3712	0029.9	011.0	198.4	004.2000	0283.8	105.7	39.58
035.0	001.3284	0030.1	010.9	198.3	004.2000	0283.8	105.8	39.55
036.0	001.2864	0030.4	010.9	198.2	004.2000	0283.9	105.9	39.53
037.0	001.2450	0030.9	010.8	198.2	004.2000	0283.9	106.0	39.50
038.0	001.2044	0031.4	010.8	198.1	004.2000	0284.0	106.0	39.48
039.0	001.1643	0031.9	010.8	198.0	004.2000	0284.0	106.1	39.46
040.0	001.1250	0032.3	010.8	197.9	004.2000	0284.1	106.2	39.44
041.0	001.0775	0032.8	010.8	197.8	004.2000	0284.1	106.3	39.41
042.0	001.0310	0033.5	010.7	197.7	004.2000	0284.2	106.4	39.38
043.0	000.9856	0034.7	010.8	197.6	004.2000	0284.3	106.4	39.37
044.0	000.9412	0036.9	011.0	197.5	004.2000	0284.3	106.4	39.40
045.0	000.8978	0040.1	011.3	197.3	004.2000	0284.4	106.2	39.46
046.0	000.8607	0043.7	011.7	197.1	004.2000	0284.5	105.9	39.53
047.0	000.8243	0046.7	012.0	196.9	004.2000	0284.6	105.8	39.58
048.0	000.7888	0048.5	012.1	196.8	004.2000	0284.7	105.8	39.57
049.0	000.7540	0048.7	012.0	196.7	004.2000	0284.7	106.0	39.52
050.0	000.7200	0047.4	011.7	196.7	004.2000	0284.7	106.3	39.42
051.0	000.6915	0045.0	011.3	196.8	004.2000	0284.7	106.8	39.28
052.0	000.6636	0042.6	010.8	196.8	004.2000	0284.7	107.3	39.15
053.0	000.6362	0040.9	010.5	196.8	004.2000	0284.7	107.6	39.04
054.0	000.6094	0040.1	010.3	196.8	004.2000	0284.7	107.9	38.96
055.0	000.5832	0039.7	010.1	196.8	004.2000	0284.7	108.2	38.90
056.0	000.5576	0039.2	010.0	196.8	004.2000	0284.7	108.4	38.83
057.0	000.5325	0038.5	009.8	196.8	004.2000	0284.7	108.7	38.76
058.0	000.5080	0037.9	009.6	196.8	004.2000	0284.7	108.9	38.68
059.0	000.4841	0037.7	009.4	196.8	004.2000	0284.7	109.1	38.62
060.0	000.4608	0038.0	009.3	196.7	004.2000	0284.7	109.3	38.58
061.0	000.4418	0038.6	009.3	196.7	004.2000	0284.8	109.4	38.54
062.0	000.4232	0039.2	009.3	196.6	004.2000	0284.8	109.6	38.51
063.0	000.4050	0040.1	009.3	196.6	004.2000	0284.8	109.7	38.48
064.0	000.3872	0041.4	009.3	196.5	004.2000	0284.9	109.8	38.46
065.0	000.3698	0042.9	009.4	196.4	004.2000	0284.9	109.8	38.44
066.0	000.3528	0044.5	009.5	196.3	004.2000	0284.9	109.9	38.42
067.0	000.3362	0045.4	009.5	196.3	004.2000	0285.0	110.1	38.38
068.0	000.3200	0045.8	009.4	196.2	004.2000	0285.0	110.2	38.34
069.0	000.3042	0045.9	009.3	196.2	004.2000	0285.0	110.4	38.28
070.0	000.2888	0045.7	009.2	196.3	004.2000	0285.0	110.6	38.23

FMCommander Single Allocation Study - 03-02-2024 - FCC NGDC 30 Sec
WMWK.P's Overlaps (In= 49.33 km, Out= 0.48 km)

WMWK.P CH 201 B
Lat= 43 05 26.00, Lng= 87 53 50.00
4.2 kW 287.2 m HAAT, 484 m COR
Prot.= 60 dBu, Intef.= 40 dBu

WNTH CH 201 A DA 0000131412
Lat= 42 05 38.90, Lng= 87 43 08.50
0.047 kW 46 m HAAT, 231 m COR
Prot.= 60 dBu, Intef.= 40 dBu



WMWK.P vs. WNTH

03-02-2024 Terrain Data: FCC NGDC 30 Sec FMOver Analysis

WNTH 0000131412

WMWK.P

Channel = 201A
 Max ERP = 0.047 kw
 RCAMSL = 231 m
 N. Lat. 42 05 38.90
 W. Lng. 87 43 08.50
 Protected
 60 dBu

Channel = 201B
 Max ERP = 4.2 kw
 RCAMSL = 484 m
 N. Lat. 43 05 26.00
 W. Lng. 87 53 50.00
 Interfering
 40 dBu

Azimuth (degrees)	ERP (kw)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kw)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
293.0	000.0470	0032.8	004.8	174.6	004.2000	0290.5	109.3	38.75	
294.0	000.0470	0032.6	004.8	174.6	004.2000	0290.5	109.2	38.77	
295.0	000.0470	0032.5	004.8	174.6	004.2000	0290.6	109.1	38.79	
296.0	000.0470	0032.4	004.8	174.5	004.2000	0290.6	109.1	38.81	
297.0	000.0470	0032.5	004.8	174.5	004.2000	0290.6	109.0	38.83	
298.0	000.0470	0032.6	004.8	174.5	004.2000	0290.6	108.9	38.85	
299.0	000.0470	0032.7	004.8	174.5	004.2000	0290.6	108.8	38.87	
300.0	000.0470	0032.9	004.8	174.5	004.2000	0290.6	108.8	38.89	
301.0	000.0470	0033.1	004.9	174.4	004.2000	0290.6	108.7	38.91	
302.0	000.0470	0033.5	004.9	174.4	004.2000	0290.7	108.6	38.94	
303.0	000.0470	0033.7	004.9	174.4	004.2000	0290.7	108.5	38.96	
304.0	000.0470	0033.8	004.9	174.4	004.2000	0290.7	108.5	38.98	
305.0	000.0470	0033.8	004.9	174.4	004.2000	0290.7	108.4	39.00	
306.0	000.0470	0033.7	004.9	174.3	004.2000	0290.7	108.3	39.02	
307.0	000.0470	0033.4	004.9	174.3	004.2000	0290.8	108.3	39.03	
308.0	000.0470	0032.9	004.9	174.2	004.2000	0290.8	108.2	39.04	
309.0	000.0470	0032.7	004.8	174.2	004.2000	0290.8	108.2	39.06	
310.0	000.0470	0032.9	004.8	174.2	004.2000	0290.9	108.1	39.08	
311.0	000.0470	0033.4	004.9	174.2	004.2000	0290.9	108.0	39.10	
312.0	000.0470	0033.8	004.9	174.1	004.2000	0290.9	108.0	39.13	
313.0	000.0470	0034.0	004.9	174.1	004.2000	0290.9	107.9	39.15	
314.0	000.0470	0034.1	004.9	174.1	004.2000	0291.0	107.8	39.16	
315.0	000.0470	0034.0	004.9	174.0	004.2000	0291.0	107.8	39.18	
316.0	000.0470	0033.9	004.9	174.0	004.2000	0291.0	107.7	39.19	
317.0	000.0470	0033.6	004.9	174.0	004.2000	0291.1	107.7	39.20	
318.0	000.0470	0033.0	004.9	173.9	004.2000	0291.1	107.7	39.21	
319.0	000.0470	0032.3	004.8	173.9	004.2000	0291.2	107.7	39.21	
320.0	000.0470	0031.5	004.7	173.8	004.2000	0291.2	107.7	39.21	
321.0	000.0470	0031.0	004.7	173.8	004.2000	0291.3	107.7	39.22	
322.0	000.0470	0030.9	004.7	173.7	004.2000	0291.3	107.6	39.23	
323.0	000.0470	0031.0	004.7	173.7	004.2000	0291.3	107.6	39.25	
324.0	000.0470	0031.0	004.7	173.6	004.2000	0291.4	107.5	39.26	
325.0	000.0470	0031.0	004.7	173.6	004.2000	0291.4	107.5	39.27	
326.0	000.0470	0031.1	004.7	173.6	004.2000	0291.5	107.5	39.28	
327.0	000.0470	0031.4	004.7	173.5	004.2000	0291.5	107.4	39.30	
328.0	000.0470	0032.5	004.8	173.5	004.2000	0291.5	107.3	39.34	
329.0	000.0470	0034.7	005.0	173.5	004.2000	0291.5	107.1	39.39	
330.0	000.0470	0038.0	005.2	173.5	004.2000	0291.5	106.8	39.46	
331.0	000.0470	0041.7	005.5	173.5	004.2000	0291.5	106.6	39.54	
332.0	000.0470	0044.9	005.7	173.5	004.2000	0291.5	106.3	39.61	
333.0	000.0470	0047.1	005.8	173.5	004.2000	0291.5	106.2	39.66	
334.0	000.0470	0048.3	005.9	173.5	004.2000	0291.5	106.1	39.69	

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335.0	000.0470	0049.1	006.0	173.4	004.2000	0291.6	106.0	39.72
336.0	000.0470	0049.5	006.0	173.4	004.2000	0291.6	105.9	39.73
337.0	000.0470	0049.8	006.0	173.3	004.2000	0291.7	105.9	39.75
338.0	000.0470	0050.1	006.0	173.3	004.2000	0291.7	105.8	39.76
339.0	000.0470	0050.3	006.0	173.2	004.2000	0291.7	105.8	39.78
340.0	000.0470	0050.5	006.0	173.2	004.2000	0291.8	105.8	39.79
341.0	000.0470	0050.6	006.1	173.1	004.2000	0291.8	105.7	39.80
342.0	000.0470	0050.7	006.1	173.0	004.2000	0291.9	105.7	39.81
343.0	000.0470	0050.8	006.1	173.0	004.2000	0291.9	105.7	39.82
344.0	000.0470	0050.8	006.1	172.9	004.2000	0291.9	105.7	39.82
345.0	000.0470	0050.9	006.1	172.9	004.2000	0292.0	105.6	39.83
346.0	000.0470	0050.9	006.1	172.8	004.2000	0292.0	105.6	39.84
347.0	000.0470	0050.9	006.1	172.8	004.2000	0292.0	105.6	39.84
348.0	000.0470	0050.9	006.1	172.7	004.2000	0292.1	105.6	39.85
349.0	000.0470	0051.0	006.1	172.6	004.2000	0292.1	105.6	39.85
350.0	000.0470	0051.0	006.1	172.6	004.2000	0292.1	105.6	39.85
351.0	000.0470	0051.0	006.1	172.5	004.2000	0292.2	105.6	39.85
352.0	000.0470	0051.0	006.1	172.5	004.2000	0292.2	105.6	39.86
353.0	000.0470	0051.0	006.1	172.4	004.2000	0292.2	105.6	39.86
354.0	000.0470	0051.0	006.1	172.4	004.2000	0292.2	105.6	39.86
355.0	000.0470	0051.0	006.1	172.3	004.2000	0292.3	105.6	39.86
356.0	000.0470	0051.0	006.1	172.2	004.2000	0292.3	105.6	39.86
357.0	000.0470	0051.0	006.1	172.2	004.2000	0292.3	105.6	39.85
358.0	000.0470	0051.0	006.1	172.1	004.2000	0292.3	105.6	39.85
359.0	000.0470	0051.0	006.1	172.1	004.2000	0292.4	105.6	39.85
000.0	000.0470	0051.0	006.1	172.0	004.2000	0292.4	105.6	39.85
001.0	000.0470	0051.0	006.1	172.0	004.2000	0292.4	105.6	39.84
002.0	000.0470	0051.0	006.1	171.9	004.2000	0292.4	105.7	39.84
003.0	000.0470	0051.0	006.1	171.8	004.2000	0292.5	105.7	39.83
004.0	000.0470	0051.0	006.1	171.8	004.2000	0292.5	105.7	39.83
005.0	000.0470	0051.0	006.1	171.7	004.2000	0292.5	105.7	39.82
006.0	000.0470	0051.0	006.1	171.7	004.2000	0292.5	105.8	39.81
007.0	000.0470	0051.0	006.1	171.6	004.2000	0292.5	105.8	39.81
008.0	000.0470	0051.0	006.1	171.6	004.2000	0292.5	105.8	39.80
009.0	000.0470	0051.0	006.1	171.5	004.2000	0292.6	105.8	39.79
010.0	000.0470	0051.0	006.1	171.5	004.2000	0292.6	105.9	39.78
011.0	000.0470	0051.0	006.1	171.4	004.2000	0292.6	105.9	39.77
012.0	000.0470	0051.0	006.1	171.3	004.2000	0292.6	105.9	39.76
013.0	000.0470	0051.0	006.1	171.3	004.2000	0292.6	106.0	39.75
014.0	000.0470	0051.0	006.1	171.2	004.2000	0292.6	106.0	39.74
015.0	000.0470	0051.0	006.1	171.2	004.2000	0292.6	106.1	39.72
016.0	000.0470	0051.0	006.1	171.1	004.2000	0292.6	106.1	39.71
017.0	000.0470	0051.0	006.1	171.1	004.2000	0292.7	106.2	39.70
018.0	000.0470	0051.0	006.1	171.0	004.2000	0292.7	106.2	39.69
019.0	000.0470	0051.0	006.1	171.0	004.2000	0292.7	106.2	39.67
020.0	000.0470	0051.0	006.1	170.9	004.2000	0292.7	106.3	39.66
021.0	000.0470	0051.0	006.1	170.9	004.2000	0292.7	106.3	39.64
022.0	000.0470	0051.0	006.1	170.8	004.2000	0292.7	106.4	39.63
023.0	000.0470	0051.0	006.1	170.8	004.2000	0292.7	106.5	39.61
024.0	000.0470	0051.0	006.1	170.7	004.2000	0292.7	106.5	39.59
025.0	000.0470	0051.0	006.1	170.7	004.2000	0292.7	106.6	39.58
026.0	000.0470	0051.0	006.1	170.6	004.2000	0292.7	106.6	39.56
027.0	000.0470	0051.0	006.1	170.6	004.2000	0292.7	106.7	39.54
028.0	000.0470	0051.0	006.1	170.5	004.2000	0292.7	106.8	39.52
029.0	000.0470	0051.0	006.1	170.5	004.2000	0292.7	106.8	39.50
030.0	000.0470	0051.0	006.1	170.5	004.2000	0292.7	106.9	39.48
031.0	000.0470	0051.0	006.1	170.4	004.2000	0292.7	107.0	39.46
032.0	000.0470	0051.0	006.1	170.4	004.2000	0292.8	107.0	39.44
033.0	000.0470	0051.0	006.1	170.3	004.2000	0292.8	107.1	39.42
034.0	000.0470	0051.0	006.1	170.3	004.2000	0292.8	107.2	39.40
035.0	000.0470	0051.0	006.1	170.2	004.2000	0292.8	107.2	39.38
036.0	000.0470	0051.0	006.1	170.2	004.2000	0292.8	107.3	39.36
037.0	000.0470	0051.0	006.1	170.2	004.2000	0292.8	107.4	39.34

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038.0	000.0470	0051.0	006.1	170.1	004.2000	0292.8	107.5	39.32
039.0	000.0470	0051.0	006.1	170.1	004.2000	0292.8	107.6	39.29
040.0	000.0470	0051.0	006.1	170.1	004.2000	0292.8	107.6	39.27
041.0	000.0470	0051.0	006.1	170.0	004.2000	0292.9	107.7	39.25
042.0	000.0470	0051.0	006.1	170.0	004.2000	0292.9	107.8	39.23
043.0	000.0470	0051.0	006.1	170.0	004.2000	0292.9	107.9	39.20
044.0	000.0470	0051.0	006.1	169.9	004.2000	0292.9	108.0	39.18
045.0	000.0470	0051.0	006.1	169.9	004.2000	0292.9	108.1	39.15
046.0	000.0470	0051.0	006.1	169.9	004.2000	0292.9	108.1	39.13
047.0	000.0470	0051.0	006.1	169.8	004.2000	0292.9	108.2	39.10
048.0	000.0470	0051.0	006.1	169.8	004.2000	0292.9	108.3	39.08
049.0	000.0470	0051.0	006.1	169.8	004.2000	0293.0	108.4	39.05
050.0	000.0470	0051.0	006.1	169.7	004.2000	0293.0	108.5	39.03
051.0	000.0470	0051.0	006.1	169.7	004.2000	0293.0	108.6	39.00
052.0	000.0470	0051.0	006.1	169.7	004.2000	0293.0	108.7	38.98

Exhibit 18-C

FMCommander Single Allocation Study - 03-02-2024 - FCC NGDC 30 Sec
WMWK.P's Overlaps (In= 3.2 km, Out= 4.03 km)

WMWK.P CH 201 B

Lat= 43 05 26.00, Lng= 87 53 50.00

4.2 kW 287.2 m HAAT, 484 m COR

Prot.= 60 dBu, Intef.= 54 dBu

768563 CH 202 C3 0000167734

Lat= 43 43 41.20, Lng= 88 46 22.10

24.0 kW 68 m HAAT, 354 m COR

Prot.= 60 dBu, Intef.= 54 dBu

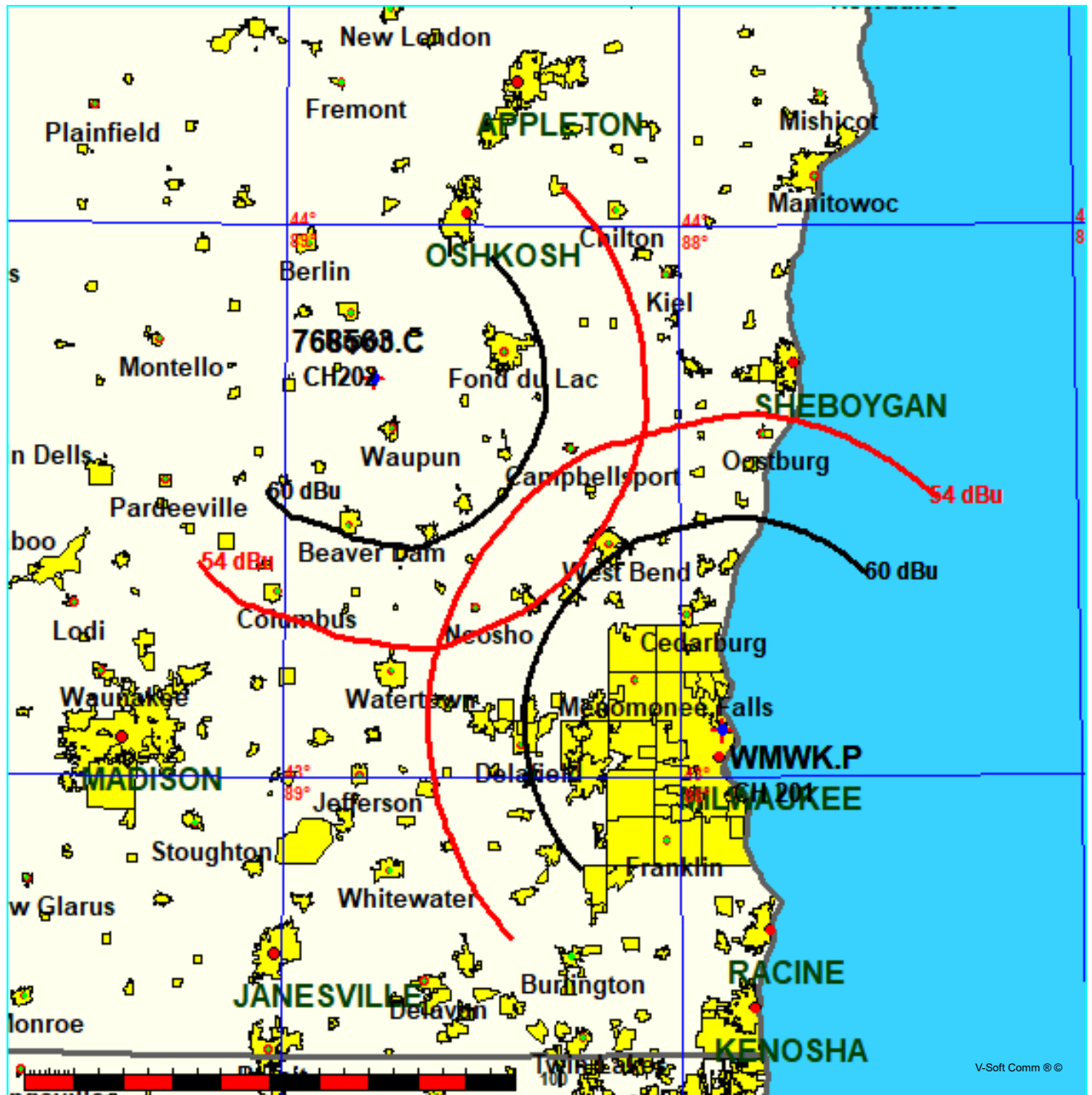


Exhibit 18-D

FMCommander Single Allocation Study - 03-02-2024 - FCC NGDC 30 Sec
WMWK.P's Overlaps (In= 20.33 km, Out= 8.86 km)

WMWK.P CH 201 B

Lat= 43 05 26.00, Lng= 87 53 50.00

4.2 kW 287.2 m HAAT, 484 m COR

Prot.= 60 dBu, Intef.= 40 dBu

WHID CH 201 C1 DA BMLED20190313AAE

Lat= 44 21 33.30, Lng= 87 59 08.70

17.0 kW 309 m HAAT, 552 m COR

Prot.= 60 dBu, Intef.= 40 dBu

