

Channel Study

REFERENCE CH# 288D - 105.5 MHz, Pwr= 0.25 kW DA, HAAT= 116.1 M, COR= 299 M DISPLAY DATES
43 02 00.0 N. Average Protected F(50-50)= 13.8 km DATA 05-20-13
77 25 11.0 W. Standard Directional SEARCH 05-20-13

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*
288A Granby	AL0237	RSV-A NY		69.6 250.2	85.00 RM9953	43 17 44.0 76 26 16.0	6.000 100	87.2 229	28.8	-17.6*<	5.6
288A Granby	WTKV	APP NY	CX	71.8 252.5	87.00 BPH20031209ABV	43 16 23.0 76 24 05.0	3.900 125	83.4 254	27.9 Galaxy Syracuse Licensee L	-11.7<	8.5
288A Oswego	WTKV	LIC NY	CN	60.9 241.5	88.42 BLH19970819KC	43 24 56.0 76 27 54.0	4.000 121	84.8 235	28.7 Galaxy Syracuse Licensee L	-11.7<	9.0
286D Fairport	W286AE	LIC NY	DV	345.7 165.7	3.37 BLFT20130212AAU	43 03 46.0 77 25 48.0	0.002	0.0 213	1.6 Russell S. Kimble	-10.4*	0.9
287B Hornell	WKPQ	LIC NY	CN	194.3 14.1	84.92 BLH19880614KB	42 17 32.0 77 40 27.0	43.000 162	87.9 694	73.2 Sound Communications, Llc	-8.5*<	0.8
290A Rochester	WJZR	LIC NY	CN	317.5 137.3	19.10 BLH19930203KC	43 09 35.0 77 34 44.0	3.000 55	1.7 193	16.5 North Coast Radio, Inc.	3.5	1.8
285A Brockport	WKDL-FM	LIC NY	C	296.3 116.1	33.01 BMLE20051109ABS	43 09 51.0 77 47 02.0	6.000 100	2.6 257	27.0 Brockport Licenses, Llc	15.7	5.0
288D Batavia	W288BZ	CP NY	DV	265.2 84.7	60.56 BPFT20120305AAM	42 59 07.0 78 09 35.0	0.250	28.3 347	8.5 Lloyd Lane, Incorporated	19.2	7.1
288D Batavia	W288BZ	LIC NY	DV	265.2 84.7	60.56 BLFT20081117ABJ	42 59 07.0 78 09 35.0	0.180 75	26.1 347	7.8 Lloyd Lane, Incorporated	21.4	7.9
289L1 Geneva	WHWS-LP	LIC NY		119.0 299.3	40.20 BLL20030728AAA	42 51 27.0 76 59 21.0	0.100 14	8.0 195	5.6 Smith Center For The Arts	18.4	13.7
291B Corning	WNKI	LIC NY	CN	162.0 342.2	101.75 BLH19801118AH	42 09 43.0 77 02 15.0	40.000 162	5.2 586	60.0 Backyard Broadcasting Elmi	89.1	40.8
288D Ithaca	W288AS	LIC NY	DHN	131.6 312.2	98.94 BLFT19850930TG	42 26 23.0 76 31 08.0	0.007 -94	2.4 174	1.2 Cornell Radio Guild, Inc.	83.2	51.8
289B Endicott	WBNW-FM	LIC NY	CX	130.1 311.1	153.22 BMLH20070215ABR	42 08 17.0 75 59 59.0	35.000 174	73.3 543	61.7 Cc Licenses, Llc	66.4	62.8
286B Deruyter	WOLF-FM	LIC NY	CX	101.7 282.8	131.88 BLH20060418ADF	42 46 58.0 75 50 28.0	33.000 185	6.1 666	66.6 Foxfur Communications, Llc	111.9	63.6
289C1 Kingston	CIKR-FM	OP ON	DHN	32.0 212.7	149.26 6778	44 10 02.0 76 25 39.0	50.000 248	62.9 330	54.8 Cikr-fm	83.5R	65.8M

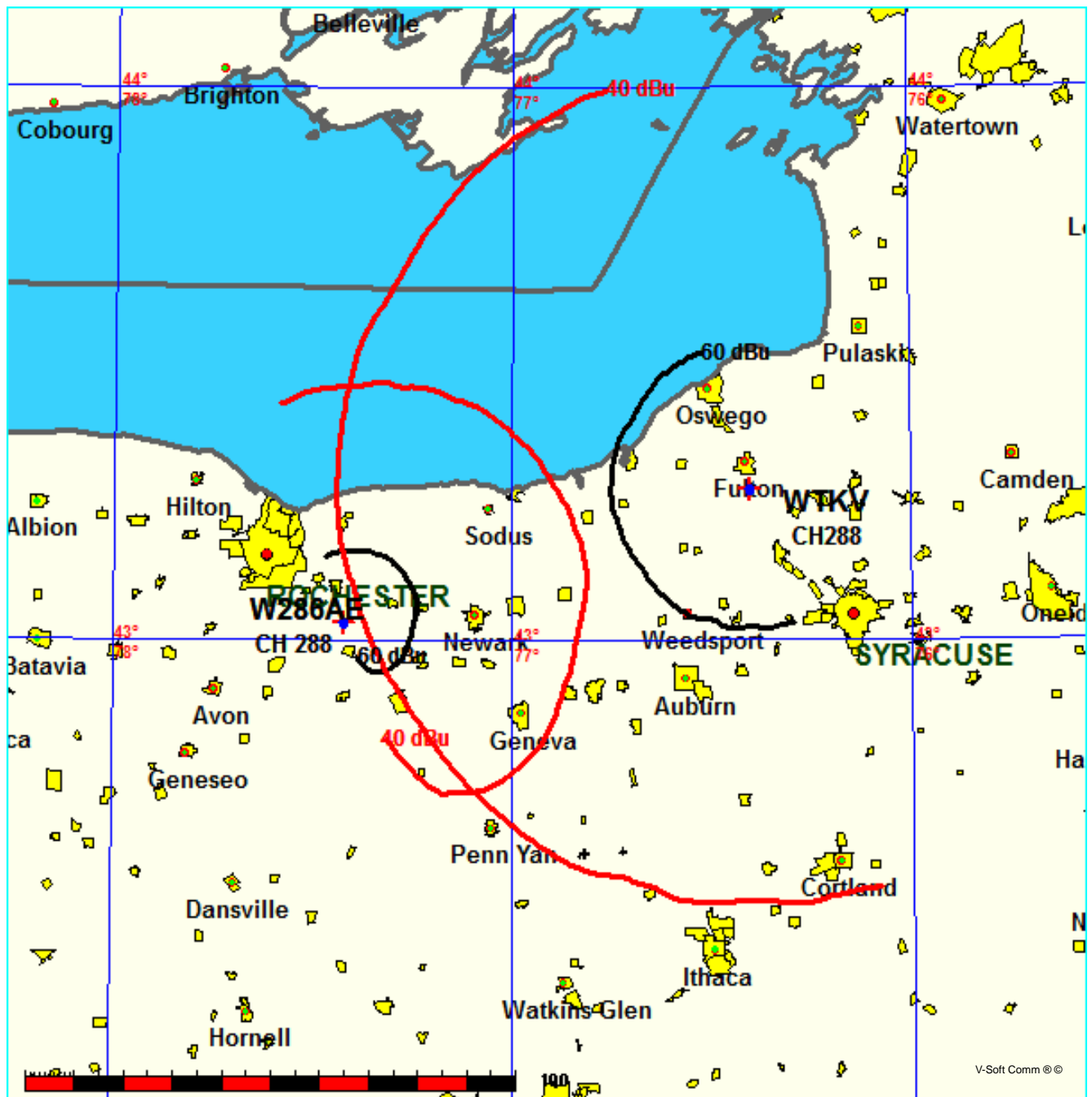
KM
Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in
Contour distances are on direct line to and from reference station. Reference Zone= East Zone, Co to 3rd
adjacent.
All separation margins (if shown) include rounding
Ant Column: (D= DA Standard, 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.
< = Station meets FCC minimum distance spacing for its class.
< = Contour Overlap

Russell S. Kimble

FMCommander Single Allocation Study - 05-21-2013 - NGDC 30 SEC
W286AE's Overlaps (In= -11.74 km, Out= 8.47 km)

W286AE CH 288 D DA
Lat= 43 02 00.0, Lng= 77 25 11.0
0.25 kW 116.1 M HAAT, 299 M COR
Prot.= 60 dBu, Intef.= 40 dBu

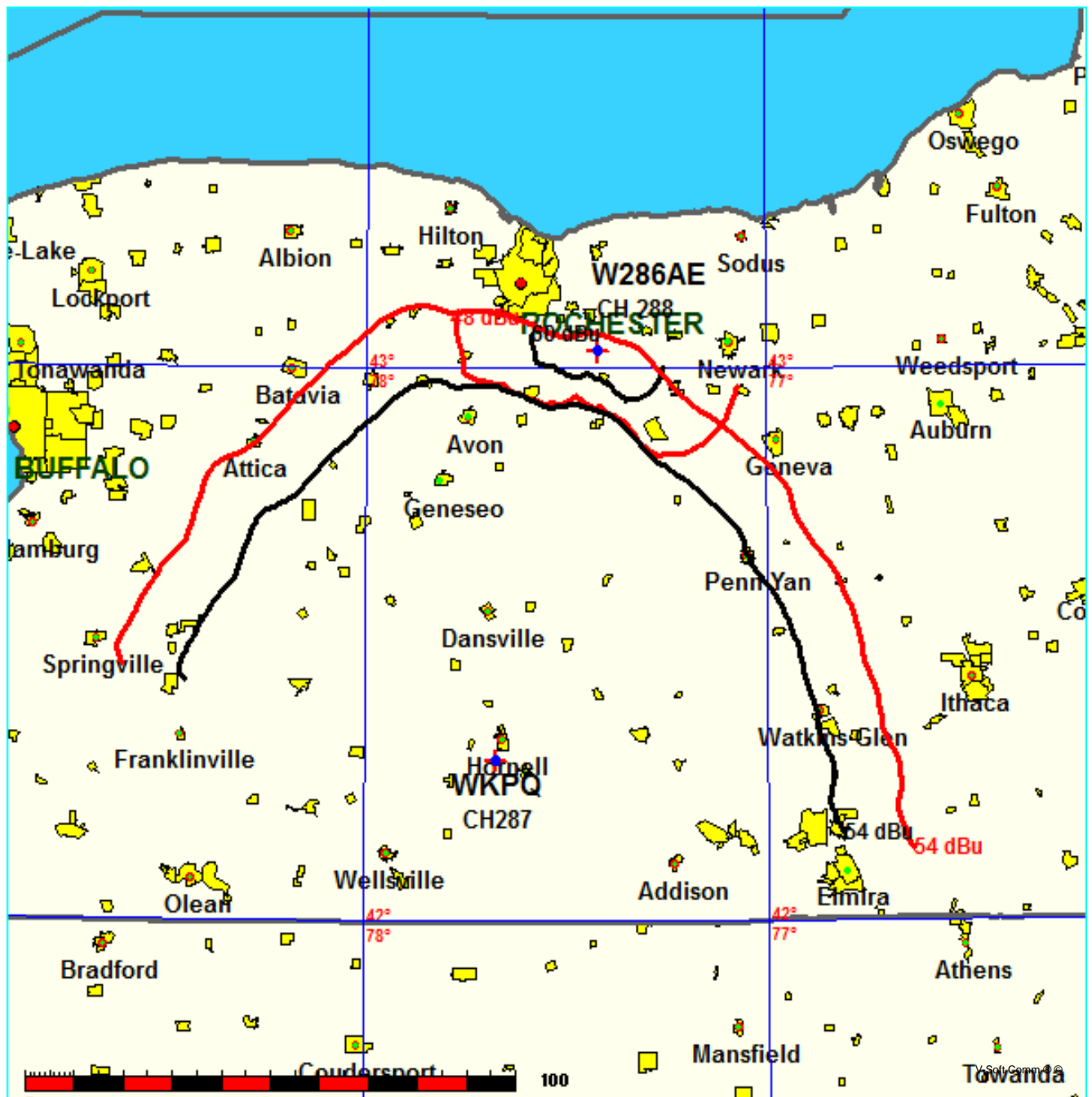
WTKV-A CH 288 A BPH20031209ABV
Lat= 43 16 23.0, Lng= 76 24 05.0
3.9 kW 125.3 M HAAT, 253.6 M COR
Prot.= 60 dBu, Intef.= 40 dBu



FMCommander Single Allocation Study - 05-21-2013 - NGDC 30 SEC
W286AE's Overlaps (In= -8.47 km, Out= 0.79 km)

W286AE CH 288 D DA
Lat= 43 02 00.0, Lng= 77 25 11.0
0.25 kW 116.1 M HAAT, 299 M COR
Prot.= 60 dBu, Intef.= 48 dBu

WKPQ CH 287 B BLH19880614KB
Lat= 42 17 32.0, Lng= 77 40 27.0
43.0 kW 162 M HAAT, 694 M COR
Prot.= 54 dBu, Intef.= 54 dBu



WKPQ vs. W286AE.P

30 Sec. Terrain Data

WKPQ BLH19880614KB

Channel = 287B
Max ERP = 43 kW
RCAMSL = 694 M
N. Lat. 42 17 32.0
W. Lng. 77 40 27.0
Protected
54 dBu

W286AE

Channel = 288D
Max ERP = 0.25 kW
RCAMSL = 299 M
N. Lat. 43 02 00.0
W. Lng. 77 25 11.0
Interfering
48 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)
314.0	043.0000	0193.6	068.4	243.7	000.0429	0123.0	078.0	22.09	
315.0	043.0000	0196.3	068.7	244.2	000.0440	0123.3	077.1	22.48	
316.0	043.0000	0196.5	068.7	244.5	000.0447	0123.3	076.0	22.88	
317.0	043.0000	0194.2	068.5	244.7	000.0449	0123.3	074.8	23.27	
318.0	043.0000	0190.0	068.1	244.6	000.0448	0123.3	073.5	23.64	
319.0	043.0000	0185.6	067.6	244.5	000.0447	0123.3	072.3	24.00	
320.0	043.0000	0182.7	067.4	244.6	000.0447	0123.3	071.1	24.38	
321.0	043.0000	0181.0	067.2	244.7	000.0449	0123.3	069.9	24.76	
322.0	043.0000	0180.0	067.1	244.8	000.0452	0123.3	068.7	25.15	
323.0	043.0000	0180.2	067.1	245.0	000.0457	0123.3	067.6	25.55	
324.0	043.0000	0182.0	067.3	245.4	000.0465	0123.2	066.5	25.97	
325.0	043.0000	0184.9	067.6	245.8	000.0475	0123.0	065.4	26.40	
326.0	043.0000	0188.2	067.9	246.3	000.0485	0122.6	064.3	26.84	
327.0	043.0000	0191.5	068.2	246.7	000.0496	0122.1	063.1	27.27	
328.0	043.0000	0194.9	068.5	247.2	000.0507	0121.4	062.0	27.71	
329.0	043.0000	0198.9	068.9	247.7	000.0520	0120.5	060.9	28.16	
330.0	043.0000	0203.4	069.4	248.3	000.0533	0119.3	059.7	28.62	
331.0	043.0000	0207.4	069.7	248.8	000.0546	0118.1	058.6	29.08	
332.0	043.0000	0210.0	070.0	249.2	000.0556	0117.2	057.4	29.54	
333.0	043.0000	0211.9	070.2	249.5	000.0564	0116.4	056.2	30.01	
334.0	043.0000	0214.8	070.4	249.9	000.0574	0115.4	055.0	30.49	
335.0	043.0000	0219.9	070.9	250.5	000.0644	0114.0	053.8	31.37	
336.0	043.0000	0226.3	071.5	251.3	000.0746	0112.6	052.7	32.37	
337.0	043.0000	0231.6	071.9	251.9	000.0838	0111.7	051.5	33.30	
338.0	043.0000	0235.5	072.3	252.4	000.0914	0111.1	050.2	34.12	
339.0	043.0000	0239.2	072.6	252.9	000.0988	0110.7	049.0	34.91	
340.0	043.0000	0243.8	073.0	253.4	000.1082	0110.1	047.7	35.74	
341.0	043.0000	0249.9	073.5	254.1	000.1207	0109.3	046.5	36.64	
342.0	043.0000	0257.3	074.2	255.0	000.1372	0108.2	045.2	37.62	
343.0	043.0000	0265.7	074.9	256.1	000.1579	0106.9	044.0	38.64	
344.0	043.0000	0273.8	075.6	257.1	000.1801	0106.1	042.7	39.67	
345.0	043.0000	0280.1	076.2	257.9	000.1991	0105.5	041.4	40.60	
346.0	043.0000	0284.0	076.5	258.5	000.2122	0105.1	040.1	41.41	
347.0	043.0000	0287.0	076.8	258.9	000.2230	0104.9	038.8	42.18	
348.0	043.0000	0290.2	077.0	259.4	000.2342	0104.5	037.4	42.95	
349.0	043.0000	0292.7	077.3	259.7	000.2433	0104.3	036.1	43.71	
350.0	043.0000	0292.8	077.3	259.7	000.2435	0104.3	034.7	44.33	
351.0	043.0000	0289.9	077.0	259.3	000.2318	0104.6	033.4	44.77	
352.0	043.0000	0282.7	076.4	258.1	000.2027	0105.4	032.1	44.89	
353.0	043.0000	0274.9	075.7	256.6	000.1697	0106.4	030.8	44.85	
354.0	043.0000	0268.7	075.2	255.2	000.1416	0107.9	029.6	44.87	

Exhibit 13-A1
Fairport, NY

355.0	043.0000	0268.5	075.2	254.8	000.1327	0108.5	028.3	45.40
356.0	043.0000	0269.2	075.2	254.4	000.1251	0109.0	027.0	46.01
357.0	043.0000	0268.3	075.1	253.6	000.1109	0109.9	025.7	46.41
358.0	043.0000	0267.5	075.1	252.7	000.0957	0110.9	024.5	46.73
359.0	043.0000	0267.2	075.0	251.7	000.0808	0111.9	023.2	46.98
000.0	043.0000	0265.0	074.8	250.2	000.0599	0114.8	022.1	46.78
001.0	043.0000	0260.7	074.5	248.0	000.0526	0120.0	021.0	47.42
002.0	043.0000	0256.4	074.1	245.5	000.0468	0123.1	020.0	47.92
003.0	043.0000	0251.8	073.7	242.6	000.0405	0122.0	019.0	47.97
004.0	043.0000	0247.3	073.3	239.5	000.0349	0117.7	018.1	47.74
005.0	043.0000	0241.8	072.8	235.8	000.0332	0113.9	017.4	47.86
006.0	043.0000	0236.3	072.4	231.8	000.0314	0108.7	016.8	47.73
007.0	043.0000	0232.0	072.0	227.7	000.0302	0104.3	016.2	47.69
008.0	043.0000	0229.0	071.7	223.5	000.0295	0097.4	015.6	47.45
009.0	043.0000	0228.2	071.6	219.5	000.0292	0087.4	015.0	46.82
010.0	043.0000	0231.7	072.0	215.7	000.0311	0076.8	014.1	46.98
011.0	043.0000	0237.9	072.5	211.7	000.0333	0062.2	013.1	46.86
012.0	043.0000	0243.5	073.0	206.9	000.0325	0045.4	012.3	45.21
013.0	043.0000	0246.1	073.2	201.2	000.0295	0046.9	011.8	45.82
014.0	043.0000	0246.0	073.2	195.0	000.0272	0052.5	011.7	46.67
015.0	043.0000	0244.5	073.1	188.9	000.0256	0058.8	011.9	47.09
016.0	043.0000	0243.7	073.0	183.0	000.0256	0062.4	012.2	47.14
017.0	043.0000	0244.6	073.1	177.2	000.0265	0061.3	012.5	46.72
018.0	043.0000	0245.4	073.1	171.8	000.0283	0073.6	012.9	47.83
019.0	043.0000	0243.3	073.0	167.4	000.0326	0077.2	013.7	47.79
020.0	043.0000	0238.3	072.5	164.1	000.0375	0079.5	014.7	47.36
021.0	043.0000	0231.9	072.0	161.6	000.0414	0081.5	016.0	47.06
022.0	043.0000	0225.5	071.4	159.7	000.0478	0082.1	017.2	46.69
023.0	043.0000	0219.7	070.9	158.0	000.0687	0083.5	018.4	47.36
024.0	043.0000	0213.9	070.3	156.6	000.0886	0085.0	019.7	47.59
025.0	043.0000	0207.8	069.8	155.5	000.1054	0085.8	021.0	47.39
026.0	043.0000	0201.9	069.2	154.6	000.1208	0086.3	022.3	47.03
027.0	043.0000	0197.2	068.8	153.7	000.1381	0086.7	023.5	46.73
028.0	043.0000	0193.7	068.4	152.7	000.1577	0087.0	024.7	46.49
029.0	043.0000	0191.7	068.2	151.5	000.1815	0087.2	025.8	46.36
030.0	043.0000	0190.8	068.1	150.3	000.2082	0087.5	026.8	46.28
031.0	043.0000	0190.2	068.1	149.2	000.2188	0087.9	027.9	45.86
032.0	043.0000	0189.9	068.1	148.2	000.2222	0088.7	029.0	45.36
033.0	043.0000	0190.0	068.1	147.2	000.2254	0089.6	030.1	44.91
034.0	043.0000	0190.2	068.1	146.3	000.2285	0090.9	031.1	44.53
035.0	043.0000	0189.8	068.0	145.6	000.2309	0092.0	032.3	44.14
036.0	043.0000	0188.8	067.9	145.0	000.2327	0092.9	033.4	43.72
037.0	043.0000	0187.8	067.8	144.5	000.2343	0093.7	034.6	43.29
038.0	043.0000	0187.3	067.8	144.1	000.2360	0094.4	035.7	42.87
039.0	043.0000	0187.0	067.8	143.6	000.2375	0095.1	036.9	42.45
040.0	043.0000	0186.7	067.7	143.2	000.2389	0095.7	038.0	42.01
041.0	043.0000	0186.3	067.7	142.9	000.2400	0096.1	039.2	41.58
042.0	043.0000	0186.1	067.7	142.6	000.2411	0096.5	040.3	41.14
043.0	043.0000	0186.0	067.7	142.3	000.2420	0096.8	041.5	40.69
044.0	043.0000	0185.7	067.6	142.1	000.2427	0097.0	042.7	40.25
045.0	043.0000	0185.3	067.6	141.9	000.2433	0097.2	043.8	39.80
046.0	043.0000	0184.7	067.5	141.9	000.2436	0097.3	045.0	39.35
047.0	043.0000	0183.4	067.4	141.9	000.2435	0097.3	046.2	38.90
048.0	043.0000	0180.7	067.2	142.1	000.2428	0097.0	047.4	38.41
049.0	043.0000	0176.1	066.7	142.5	000.2412	0096.5	048.6	37.90
050.0	043.0000	0170.6	066.1	143.1	000.2391	0095.8	049.8	37.36
051.0	043.0000	0166.1	065.6	143.7	000.2373	0095.0	051.0	36.83
052.0	043.0000	0163.5	065.3	144.0	000.2364	0094.6	052.1	36.35
053.0	043.0000	0162.2	065.1	144.1	000.2359	0094.4	053.2	35.90
054.0	043.0000	0161.6	065.1	144.1	000.2357	0094.3	054.4	35.46
055.0	043.0000	0161.5	065.0	144.2	000.2356	0094.3	055.5	35.04
056.0	043.0000	0161.9	065.1	144.1	000.2357	0094.3	056.6	34.62
057.0	043.0000	0162.8	065.2	144.1	000.2360	0094.4	057.8	34.22

Russell S. Kimble

FMCommander Single Allocation Study - 05-21-2013 - NGDC 30 SEC
W286AE's Overlaps (In= 3.46 km, Out= 1.76 km)

W286AE CH 288 D DA
Lat= 43 02 00.0, Lng= 77 25 11.0
0.25 kW 116.1 M HAAT, 299 M COR
Prot.= 60 dBu, Intef.= 100 dBu

WJZR CH 290 A BLH19930203KC
Lat= 43 09 35.0, Lng= 77 34 44.0
3.0 kW 55 M HAAT, 193 M COR
Prot.= 60 dBu, Intef.= 100 dBu

