

Channel Study

REFERENCE CH# 266D - 101.1 MHz, Pwr= 0.045 kW DA, HAAT= -76.7 M, COR= 275 M DISPLAY DATES
42 25 24.0 N. Average Protected F(50-50)= 4.6 km DATA 07-11-13
76 30 08.0 W. Standard Directional SEARCH 07-11-13

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*
266D Ithaca	636723	APP	C NY	82.7 262.7	4.40 BNPFT20030313AGV	42 25 42.0 76 26 57.0	0.010 60	22.3 415	6.7 Edward L Farmer	-19.0*	-4.6*
269D Ithaca	W269AW	LIC	DHN NY	119.1 299.2	1.77 BLFT19870213TC	42 24 56.0 76 29 00.0	0.009 -49	0.0 306	1.6 Friends Of Wmhr - Ithaca	0.8	0.2
265A Horseheads	WPGI	LIC	CN NY	229.8 49.6	38.43 BMLH19930414KD	42 12 00.0 76 51 30.0	3.800 75	27.0 472	18.4 Backyard Broadcasting Elmi	10.2	18.4
267D Richford	1562467	APP	DV NY	142.9 323.0	25.34 BNPFT20030317KMW	42 14 29.0 76 19 00.0	0.250	12.0 498	8.5 Calvary Chapel Of The Fing	11.5	14.2
268A Homer	WXHC	LIC	CN NY	40.3 220.5	38.45 BLH19940912KB	42 41 12.0 76 11 54.0	1.300 151	2.0 596	23.9 Eves Broadcasting, Inc.	32.6	14.2
266D Auburn	W266BE	LIC	C NY	355.0 174.9	56.65 BLFT20070418AAP	42 55 53.0 76 33 47.0	0.027 29	12.9 247	4.0 Calvary Chapel Of The Fing	35.8	25.9
266D Auburn	W266BE	APP	C NY	355.0 174.9	56.65 BPFT20130708AAS	42 55 53.0 76 33 47.0	0.027	12.9 248	4.0 Calvary Chapel Of The Fing	35.8	25.9
266D Marathon	629658	APP	C NY	89.2 269.5	37.65 BNPFT20030310BEC	42 25 37.0 76 02 41.0	0.010 50	10.7 472	3.3 State University Of New Yo	26.1	32.2
269A Johnson City	WLTB	LIC	CX NY	131.4 311.8	61.52 BLH20070515AJQ	42 03 22.0 75 56 39.0	0.580 312	1.6 709	31.2 Gm Broadcasting, Inc.	58.4	30.3
269D Horseheads	W269BK	LIC	C NY	222.5 42.3	40.19 BLFT20060905AAX	42 09 24.0 76 49 54.0	0.099 -95	0.7 292	5.6 Europa Communications, Inc	37.9	34.5
266B Fort Erie	AL9012«	AL	ON	285.6 103.9	208.05	42 53 52.0 78 57 27.0	50.000 150	171.4 328	65.0	111.5R	96.6M
263B Rochester	WDVI	LIC	CX NY	312.4 131.8	101.32 BMLH20020429AAX	43 02 01.0 77 25 18.0	50.000 146	5.7 329	63.4 Citicasters Licenses, Inc.	91.9	37.3
269A Geneva	WFLK	LIC	CN NY	319.7 139.4	63.78 BMLH19960118KB	42 51 34.0 77 00 29.0	5.400 38	2.5 239	25.7 Rsk Communications, Inc.	57.4	37.7
266D Endwell	W266BK	LIC	DC NY	133.7 314.0	54.10 BLFT20071221AEP	42 05 12.0 76 01 42.0	0.014 63	10.3 441	3.2 Equinox Broadcasting Corp	42.2	47.6
265A Sidney	WCDO-FM	LIC	CN NY	98.5 279.3	94.60 BLH19930226KC	42 17 33.0 75 22 03.0	1.900 176	49.8 623	33.1 Cdo Broadcasting, Inc.	43.8	59.9
266B Fort Erie	4024«	PRO	HN ON	285.6 104.0	207.71	42 54 00.0 78 57 09.0	50.000 77	158.9 257	51.7	111.5R	96.2M
267B Scranton	WGGY	LIC	CX PA	150.4 330.9	127.09 BLH20031124AOM	41 25 38.0 75 44 53.0	7.000 365	76.1 710	64.5 Entercom Wilkes-barre Scra	48.9	58.5
267B Rochester	WRMM-FM	LIC	CX NY	311.4 130.6	126.72 BMLH20060130ASF	43 10 13.0 77 40 23.0	27.000 195	73.6 338	62.3 Stephens Media Group - Roc	49.5	57.1
267D Syracuse	W267AL	LIC	C NY	21.1 201.3	75.71 BMLFT20101122AJU	43 03 30.0 76 09 59.0	0.108 64	8.2 239	5.7 Educational Media Foundati	63.2	63.7

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

Edward L Farmer

FMCommander Single Allocation Study - 07-11-2013 - NGDC 30 SEC
636723's Overlaps (In= 0.81 km, Out= 0.16 km)

636723 CH 266 D DA
Lat= 42 25 24.0, Lng= 76 30 08.0
0.045 kW -76.7 M HAAT, 275 M COR
Prot.= 60 dBu, Intef.= 100 dBu

W269AW CH 269 D DA BLFT19870213TC
Lat= 42 24 56.0, Lng= 76 29 00.0
0.009 kW -49 M HAAT, 306 M COR
Prot.= 60 dBu, Intef.= 100 dBu

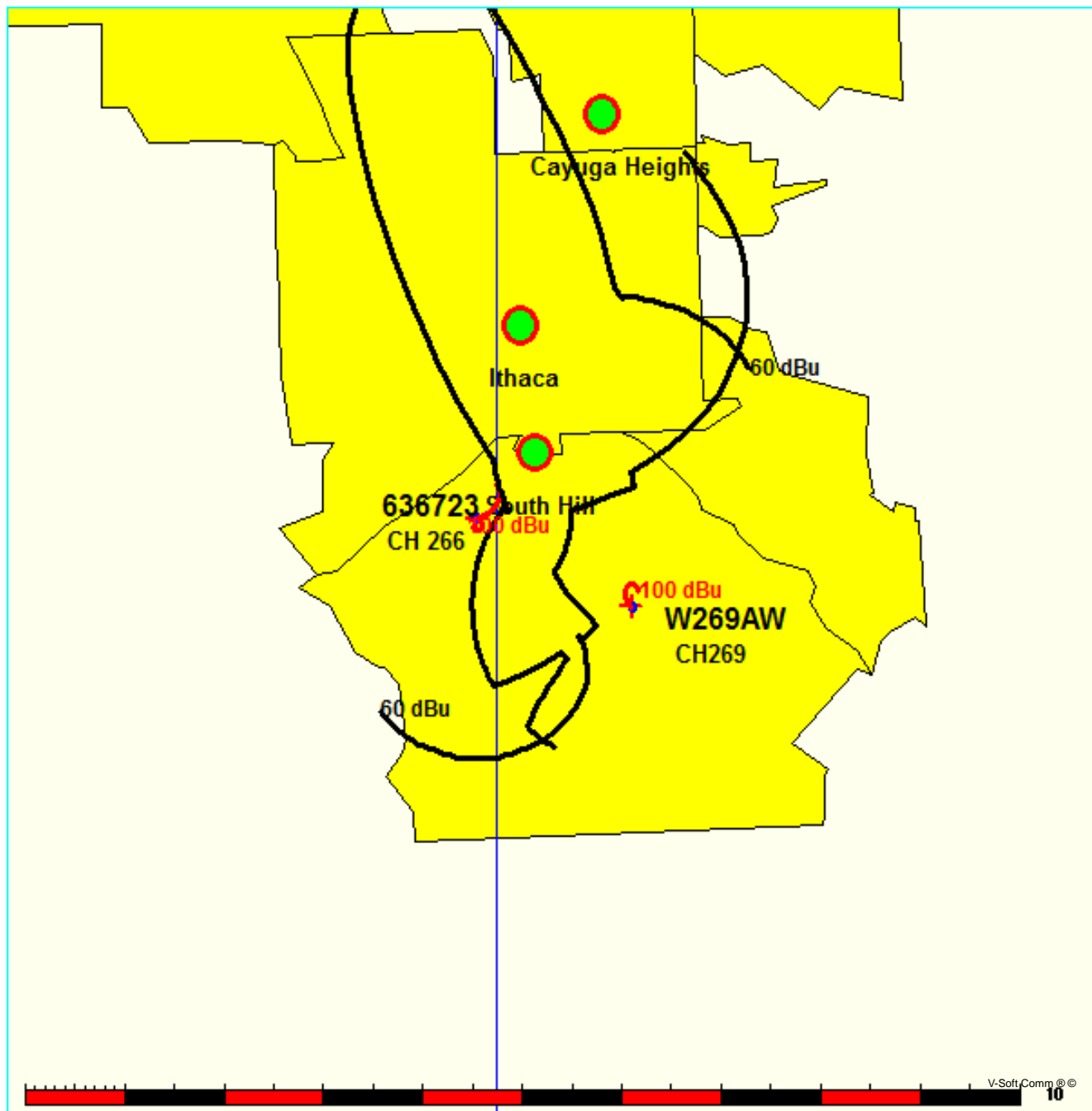


Exhibit 13-A1
Ithaca, NY

636723.A vs W269AW

07-11-2013 Terrain Data: NGDC 30 SEC FMOver Analysis

636723

W269AW BLFT19870213TC

Channel = 266D
Max ERP = 0.045 kW
RCAMSL = 275 M
N. Lat. 42 25 24.0
W. Lng. 76 30 08.0
Protected
60 dBu

Channel = 269D
Max ERP = 0.009 kW
RCAMSL = 306 M
N. Lat. 42 24 56.0
W. Lng. 76 29 00.0
Interfering
100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
059.0	000.0084	-0057.6	003.0	022.9	000.0055	-0035.4	002.6	60.75	
060.0	000.0076	-0067.9	002.9	023.0	000.0055	-0035.4	002.5	61.34	
061.0	000.0068	-0079.3	002.9	023.0	000.0055	-0035.4	002.5	61.98	
062.0	000.0061	-0091.2	002.8	022.9	000.0055	-0035.5	002.4	62.67	
063.0	000.0054	-0102.9	002.7	022.6	000.0056	-0035.6	002.3	63.43	
064.0	000.0048	-0114.1	002.7	022.2	000.0057	-0035.8	002.2	64.25	
065.0	000.0042	-0124.7	002.6	021.6	000.0058	-0036.2	002.1	65.15	
066.0	000.0036	-0133.5	002.5	020.5	000.0061	-0036.9	002.0	66.21	
067.0	000.0030	-0140.3	002.4	019.4	000.0063	-0037.8	001.9	67.22	
068.0	000.0024	-0145.2	002.3	017.8	000.0066	-0039.8	001.8	68.28	
069.0	000.0020	-0148.6	002.2	015.6	000.0069	-0042.0	001.7	69.45	
070.0	000.0015	-0150.9	002.0	012.6	000.0075	-0040.0	001.6	70.72	
071.0	000.0012	-0151.1	001.9	009.5	000.0080	-0033.9	001.5	71.86	
072.0	000.0009	-0149.1	001.8	005.5	000.0084	-0009.1	001.4	83.12	
073.0	000.0007	-0144.9	001.6	000.1	000.0090	0014.1	001.3	83.92	
074.0	000.0005	-0139.9	001.6	359.6	000.0090	0016.5	001.3	84.12	
075.0	000.0003	-0135.1	001.6	360.0	000.0090	0014.5	001.3	84.31	
076.0	000.0002	-0131.6	001.6	000.3	000.0090	0013.1	001.3	84.49	
077.0	000.0002	-0128.9	001.6	000.6	000.0089	0011.7	001.2	84.66	
078.0	000.0001	-0126.4	001.6	000.9	000.0089	0010.4	001.2	84.84	
079.0	000.0001	-0124.2	001.6	001.2	000.0089	0009.1	001.2	85.03	
080.0	000.0000	-0122.9	001.4	351.6	000.0083	0069.8	001.1	85.10	
081.0	000.0000	-0122.0	001.3	346.7	000.0074	0126.2	001.1	84.79	
082.0	000.0000	-0122.0	001.2	341.7	000.0064	0180.8	001.1	84.22	
083.0	000.0000	-0122.4	001.1	336.7	000.0052	0188.9	001.1	83.32	
084.0	000.0000	-0123.9	001.0	331.7	000.0040	0171.9	001.1	82.12	
085.0	000.0000	-0124.0	000.9	327.0	000.0031	0120.8	001.1	80.80	
086.0	000.0000	-0124.0	000.9	326.6	000.0030	0116.0	001.1	80.81	
087.0	000.0000	-0126.1	000.9	326.2	000.0030	0111.2	001.1	80.82	
088.0	000.0000	-0127.6	000.9	325.7	000.0029	0106.3	001.1	80.81	
089.0	000.0000	-0128.2	000.9	325.2	000.0028	0101.1	001.1	80.79	
090.0	000.0000	-0128.3	000.9	324.7	000.0027	0096.3	001.1	80.77	
091.0	000.0000	-0127.7	000.9	324.2	000.0026	0091.0	001.0	80.73	
092.0	000.0000	-0127.1	000.9	323.6	000.0025	0085.8	001.0	80.69	
093.0	000.0000	-0126.6	000.9	323.1	000.0025	0080.5	001.0	80.64	
094.0	000.0000	-0127.3	000.9	322.4	000.0024	0074.7	001.0	80.57	
095.0	000.0000	-0127.6	000.9	321.8	000.0023	0069.1	001.0	80.49	
096.0	000.0000	-0126.3	000.9	321.1	000.0022	0063.6	001.0	80.39	
097.0	000.0000	-0123.1	000.9	320.4	000.0021	0058.4	001.0	80.28	
098.0	000.0000	-0116.7	000.9	319.8	000.0020	0053.5	001.0	80.16	
099.0	000.0000	-0109.2	000.9	319.0	000.0018	0048.6	001.0	80.02	
100.0	000.0000	-0101.5	000.9	318.2	000.0017	0043.7	000.9	79.86	

*Exhibit 13-A1
Ithaca, NY*

101.0	000.0000	-0094.1	000.9	317.4	000.0016	0038.8	000.9	79.68
102.0	000.0000	-0087.6	000.9	316.6	000.0015	0033.9	000.9	79.48
103.0	000.0000	-0081.1	000.9	315.7	000.0014	0028.8	000.9	79.25
104.0	000.0000	-0075.5	000.9	314.9	000.0013	0023.9	000.9	79.00
105.0	000.0000	-0070.7	000.9	314.0	000.0012	0018.8	000.9	78.73
106.0	000.0000	-0066.4	000.9	313.0	000.0011	0013.7	000.9	78.42
107.0	000.0000	-0063.9	000.9	312.1	000.0010	0008.5	000.9	78.07
108.0	000.0000	-0062.6	000.9	311.1	000.0009	0003.2	000.9	77.69
109.0	000.0000	-0062.3	000.9	310.1	000.0008	-0002.1	000.9	77.28
110.0	000.0000	-0062.1	000.9	309.0	000.0007	-0007.7	000.9	76.81
111.0	000.0000	-0061.7	000.9	308.0	000.0006	-0013.1	000.9	76.31
112.0	000.0000	-0060.1	000.9	306.9	000.0006	-0018.2	000.9	75.74
113.0	000.0000	-0057.8	000.9	305.9	000.0005	-0022.8	000.8	75.11
114.0	000.0000	-0055.7	000.9	304.8	000.0004	-0026.7	000.8	74.43
115.0	000.0000	-0055.6	000.9	303.7	000.0003	-0029.9	000.8	73.64
116.0	000.0000	-0057.9	000.9	302.6	000.0003	-0032.3	000.8	72.77
117.0	000.0000	-0061.7	000.9	301.5	000.0002	-0033.9	000.8	71.79
118.0	000.0000	-0066.9	000.9	300.3	000.0002	-0034.9	000.8	70.65
119.0	000.0000	-0072.0	000.9	299.2	000.0002	-0035.7	000.8	70.23
120.0	000.0000	-0076.8	000.9	298.1	000.0001	-0036.6	000.8	70.15
121.0	000.0000	-0082.6	000.9	297.0	000.0001	-0037.7	000.8	70.07
122.0	000.0000	-0090.2	000.9	295.9	000.0001	-0039.1	000.8	69.97
123.0	000.0000	-0099.6	000.9	294.7	000.0001	-0040.3	000.8	69.87
124.0	000.0000	-0108.3	000.9	293.6	000.0001	-0041.4	000.8	69.76
125.0	000.0000	-0114.3	000.9	292.5	000.0001	-0042.5	000.8	69.66
126.0	000.0000	-0117.1	001.0	290.6	000.0001	-0044.1	000.8	69.96
127.0	000.0000	-0117.9	001.0	288.4	000.0001	-0042.4	000.8	70.35
128.0	000.0000	-0118.1	001.1	285.8	000.0001	-0039.1	000.7	70.79
129.0	000.0000	-0118.6	001.1	282.8	000.0001	-0042.6	000.7	71.22
130.0	000.0000	-0119.0	001.2	279.4	000.0001	-0044.7	000.7	71.62
131.0	000.0000	-0118.1	001.5	253.5	000.0001	-0023.2	000.4	74.77
132.0	000.0001	-0115.3	001.6	239.3	000.0000	-0032.7	000.4	71.29
133.0	000.0001	-0111.9	001.6	238.2	000.0000	-0024.6	000.4	69.37
134.0	000.0001	-0109.4	001.6	237.3	000.0000	-0017.5	000.5	67.55
135.0	000.0002	-0107.9	001.6	236.6	000.0000	-0012.3	000.5	65.80
136.0	000.0002	-0108.1	001.6	236.0	000.0000	-0009.5	000.5	64.18
137.0	000.0003	-0111.8	001.6	235.6	000.0000	-0008.4	000.6	63.63
138.0	000.0004	-0120.0	001.6	235.2	000.0000	-0008.3	000.6	63.20
139.0	000.0006	-0132.6	001.5	240.7	000.0001	-0040.9	000.6	68.92
140.0	000.0007	-0147.3	001.7	230.9	000.0000	-0044.8	000.6	62.44
141.0	000.0008	-0161.3	001.7	225.2	000.0000	-0072.4	000.7	65.42
142.0	000.0009	-0172.0	001.8	220.4	000.0001	-0082.3	000.7	67.34
143.0	000.0010	-0176.7	001.8	216.6	000.0001	-0079.3	000.8	68.36
144.0	000.0012	-0175.8	001.9	213.5	000.0001	-0079.3	000.8	68.91
145.0	000.0013	-0171.2	001.9	211.1	000.0001	-0080.2	000.9	69.13
146.0	000.0014	-0165.4	002.0	210.4	000.0001	-0081.5	000.9	68.92
147.0	000.0015	-0161.3	002.0	209.8	000.0001	-0083.1	000.9	68.66
148.0	000.0015	-0161.2	002.0	209.3	000.0001	-0085.3	001.0	68.37
149.0	000.0016	-0164.8	002.1	208.8	000.0001	-0087.6	001.0	68.07
150.0	000.0017	-0170.7	002.1	208.6	000.0001	-0089.3	001.1	67.75
151.0	000.0018	-0176.0	002.1	208.6	000.0001	-0089.1	001.1	67.41
152.0	000.0019	-0176.2	002.1	208.7	000.0001	-0088.3	001.2	67.06
153.0	000.0019	-0171.0	002.1	208.9	000.0001	-0087.2	001.2	66.71
154.0	000.0020	-0163.2	002.2	209.1	000.0001	-0086.1	001.2	66.36
155.0	000.0021	-0155.8	002.2	209.4	000.0001	-0084.8	001.3	66.01
156.0	000.0021	-0150.0	002.2	209.8	000.0001	-0083.0	001.3	65.66
157.0	000.0022	-0146.2	002.2	210.3	000.0001	-0081.6	001.4	65.27
158.0	000.0023	-0144.0	002.2	210.8	000.0001	-0080.6	001.4	64.88
159.0	000.0023	-0143.4	002.2	211.3	000.0001	-0080.0	001.4	64.49
160.0	000.0024	-0144.1	002.3	211.8	000.0001	-0079.6	001.5	64.10
161.0	000.0024	-0145.1	002.3	212.3	000.0001	-0079.4	001.5	53.12
162.0	000.0025	-0145.3	002.3	212.9	000.0001	-0079.3	001.6	52.58
163.0	000.0026	-0145.5	002.3	213.4	000.0001	-0079.3	001.6	52.04

*Exhibit 13-A1
Ithaca, NY*

164.0	000.0026	-0146.7	002.3	213.9	000.0001	-0079.3	001.6	51.49
165.0	000.0027	-0147.0	002.3	214.5	000.0001	-0079.3	001.7	50.94
166.0	000.0027	-0144.7	002.3	215.3	000.0001	-0079.1	001.7	50.36
167.0	000.0027	-0142.1	002.3	216.1	000.0001	-0079.1	001.7	49.78
168.0	000.0028	-0141.6	002.3	216.8	000.0001	-0079.4	001.8	49.19
169.0	000.0028	-0142.5	002.3	217.6	000.0001	-0080.2	001.8	48.60
170.0	000.0028	-0141.5	002.3	218.3	000.0001	-0081.2	001.8	48.01
171.0	000.0029	-0137.1	002.4	219.0	000.0001	-0082.0	001.9	47.42
172.0	000.0029	-0129.5	002.4	219.6	000.0001	-0082.3	001.9	46.83
173.0	000.0029	-0124.5	002.4	220.3	000.0001	-0082.3	002.0	46.23
174.0	000.0030	-0123.8	002.4	220.9	000.0001	-0082.2	002.0	45.63
175.0	000.0030	-0123.4	002.4	221.5	000.0000	-0082.1	002.0	45.02
176.0	000.0030	-0123.8	002.4	222.3	000.0000	-0081.5	002.1	44.37
177.0	000.0030	-0126.4	002.4	223.1	000.0000	-0080.2	002.1	43.71
178.0	000.0030	-0133.4	002.4	223.9	000.0000	-0077.8	002.1	43.05

07-11-2013 Terrain Data: NGDC 30 SEC FM0ver Analysis

W269AW BLFT19870213TC

636723

Channel = 269D
Max ERP = 0.009 kW
RCAMSL = 306 M
N. Lat. 42 24 56.0
W. Lng. 76 29 00.0
Protected
60 dBu

Channel = 266D
Max ERP = 0.045 kW
RCAMSL = 275 M
N. Lat. 42 25 24.0
W. Lng. 76 30 08.0
Interfering
100 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)
239.0	000.0000	-0030.7	001.5	169.8	000.0028	-0141.9	001.6	65.99	
240.0	000.0001	-0037.4	001.6	174.5	000.0030	-0123.5	001.7	66.05	
241.0	000.0001	-0041.8	001.6	174.9	000.0030	-0123.3	001.7	66.31	
242.0	000.0001	-0043.2	001.6	175.3	000.0030	-0123.6	001.6	66.55	
243.0	000.0001	-0041.4	001.6	175.7	000.0030	-0123.9	001.6	66.79	
244.0	000.0001	-0038.2	001.6	176.1	000.0030	-0123.7	001.6	67.04	
245.0	000.0001	-0035.8	001.6	176.4	000.0030	-0123.9	001.5	67.28	
246.0	000.0001	-0035.5	001.6	176.8	000.0030	-0125.2	001.5	67.53	
247.0	000.0001	-0036.3	001.6	177.2	000.0030	-0127.7	001.5	78.26	
248.0	000.0001	-0036.3	001.6	177.6	000.0030	-0130.2	001.5	78.42	
249.0	000.0001	-0034.6	001.6	177.9	000.0030	-0132.7	001.4	78.57	
250.0	000.0001	-0031.4	001.6	178.3	000.0030	-0135.4	001.4	78.74	
251.0	000.0001	-0027.8	001.6	178.6	000.0030	-0138.1	001.4	78.90	
252.0	000.0001	-0024.8	001.6	179.0	000.0030	-0140.6	001.4	79.07	
253.0	000.0001	-0023.4	001.6	179.3	000.0030	-0140.9	001.3	79.25	
254.0	000.0001	-0023.6	001.6	179.6	000.0030	-0137.1	001.3	79.42	
255.0	000.0001	-0025.6	001.6	180.0	000.0030	-0133.4	001.3	79.60	
256.0	000.0001	-0028.0	001.6	180.3	000.0030	-0129.9	001.3	79.79	
257.0	000.0001	-0030.0	001.6	180.6	000.0030	-0126.3	001.2	79.98	
258.0	000.0001	-0031.1	001.6	180.9	000.0030	-0123.1	001.2	80.18	
259.0	000.0001	-0033.3	001.6	181.2	000.0030	-0119.8	001.2	80.38	
260.0	000.0001	-0035.1	001.6	181.5	000.0030	-0116.7	001.1	80.59	
261.0	000.0001	-0036.2	001.6	181.8	000.0030	-0113.4	001.1	80.80	
262.0	000.0001	-0036.6	001.6	182.0	000.0030	-0110.9	001.1	81.02	
263.0	000.0001	-0035.7	001.6	182.3	000.0030	-0109.5	001.1	81.24	
264.0	000.0001	-0033.9	001.6	182.5	000.0030	-0108.8	001.0	81.47	
265.0	000.0001	-0030.3	001.6	182.7	000.0030	-0107.6	001.0	81.70	
266.0	000.0001	-0028.2	001.6	182.9	000.0030	-0106.3	001.0	81.95	

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267.0	000.0001	-0029.0	001.6	183.1	000.0030	-0104.7	000.9	82.20
268.0	000.0001	-0031.0	001.6	183.3	000.0030	-0103.1	000.9	82.46
269.0	000.0001	-0033.0	001.6	183.5	000.0030	-0101.7	000.9	82.73
270.0	000.0001	-0035.0	001.6	183.6	000.0030	-0100.5	000.9	83.00
271.0	000.0001	-0036.7	001.6	183.7	000.0030	-0099.3	000.8	83.29
272.0	000.0001	-0037.6	001.6	183.8	000.0030	-0098.5	000.8	83.59
273.0	000.0001	-0039.2	001.6	183.8	000.0030	-0098.0	000.8	83.89
274.0	000.0001	-0040.8	001.6	183.8	000.0030	-0098.0	000.8	84.21
275.0	000.0001	-0041.8	001.6	183.8	000.0030	-0098.0	000.7	84.54
276.0	000.0001	-0043.0	001.6	183.7	000.0030	-0099.1	000.7	84.88
277.0	000.0001	-0043.4	001.6	183.6	000.0030	-0100.3	000.7	85.24
278.0	000.0001	-0044.1	001.6	183.4	000.0030	-0102.1	000.6	85.61
279.0	000.0001	-0044.7	001.6	183.2	000.0030	-0103.9	000.6	86.00
280.0	000.0001	-0044.7	001.6	182.9	000.0030	-0106.7	000.6	86.40
281.0	000.0001	-0044.4	001.6	182.5	000.0030	-0108.8	000.6	86.83
282.0	000.0001	-0043.7	001.6	182.0	000.0030	-0110.8	000.5	87.27
283.0	000.0001	-0042.3	001.6	181.5	000.0030	-0116.4	000.5	87.73
284.0	000.0001	-0040.8	001.6	180.8	000.0030	-0124.7	000.5	88.22
285.0	000.0001	-0039.6	001.6	179.9	000.0030	-0134.0	000.4	88.74
286.0	000.0001	-0039.2	001.6	178.9	000.0030	-0140.1	000.4	89.28
287.0	000.0001	-0040.2	001.6	177.6	000.0030	-0130.8	000.4	89.84
288.0	000.0001	-0041.8	001.6	176.2	000.0030	-0123.7	000.4	90.44
289.0	000.0001	-0043.3	001.6	174.4	000.0030	-0123.6	000.3	91.04
290.0	000.0001	-0044.1	001.6	172.3	000.0029	-0127.8	000.3	91.56
291.0	000.0001	-0043.9	001.6	169.6	000.0028	-0142.2	000.3	92.09
292.0	000.0001	-0043.1	001.6	166.5	000.0027	-0143.0	000.3	92.70
293.0	000.0001	-0042.1	001.6	162.7	000.0026	-0145.4	000.2	93.16
294.0	000.0001	-0041.0	001.6	158.1	000.0023	-0143.9	000.2	93.37
295.0	000.0001	-0040.0	001.6	152.4	000.0019	-0174.9	000.2	93.31
296.0	000.0001	-0038.9	001.6	145.7	000.0014	-0167.3	000.2	92.56
297.0	000.0001	-0037.7	001.6	137.9	000.0004	-0118.7	000.2	88.09
298.0	000.0001	-0036.7	001.6	129.0	000.0000	-0118.7	000.2	76.32
299.0	000.0001	-0035.8	001.6	119.7	000.0000	-0075.3	000.2	74.88
300.0	000.0002	-0035.2	001.6	110.3	000.0000	-0062.1	000.2	74.77
301.0	000.0002	-0034.4	001.6	101.4	000.0000	-0091.7	000.2	74.40
302.0	000.0002	-0033.2	001.6	093.5	000.0000	-0126.9	000.2	73.87
303.0	000.0003	-0031.5	001.6	086.6	000.0000	-0125.2	000.2	73.21
304.0	000.0004	-0029.1	001.6	080.8	000.0000	-0122.1	000.2	75.51
305.0	000.0004	-0026.0	001.6	076.0	000.0002	-0131.7	000.2	82.64
306.0	000.0005	-0022.3	001.6	072.0	000.0009	-0149.0	000.3	88.03
307.0	000.0006	-0018.0	001.5	079.0	000.0001	-0124.1	000.3	74.99
308.0	000.0006	-0013.2	001.6	067.1	000.0029	-0140.6	000.3	91.61
309.0	000.0007	-0007.9	001.7	055.3	000.0117	-0035.2	000.3	97.50
310.0	000.0008	-0002.5	001.7	044.7	000.0206	-0042.8	000.3	99.46
311.0	000.0009	0002.8	001.8	036.2	000.0269	-0057.7	000.4	99.87
312.0	000.0010	0008.1	001.8	029.7	000.0320	-0071.3	000.4	99.77
313.0	000.0011	0013.5	001.9	024.7	000.0353	-0075.7	000.5	99.30
314.0	000.0012	0019.0	001.9	021.0	000.0376	-0067.6	000.5	98.73
315.0	000.0013	0024.6	002.0	018.2	000.0391	-0051.5	000.5	98.09
316.0	000.0015	0030.3	002.0	015.3	000.0405	-0038.1	000.6	97.40
317.0	000.0016	0036.2	002.2	002.0	000.0446	0034.8	000.8	95.63
318.0	000.0017	0042.3	002.5	354.7	000.0440	0094.9	001.0	93.65
319.0	000.0018	0048.5	002.7	349.9	000.0432	0141.9	001.2	91.81
320.0	000.0020	0055.2	002.9	347.2	000.0418	0145.8	001.4	90.25
321.0	000.0021	0062.5	003.1	345.5	000.0409	0143.7	001.6	87.12
322.0	000.0023	0070.7	003.3	344.2	000.0402	0144.0	001.8	85.52
323.0	000.0024	0079.8	003.6	343.1	000.0397	0146.4	002.1	83.89
324.0	000.0026	0089.3	003.9	342.4	000.0394	0148.3	002.4	82.28
325.0	000.0028	0099.0	004.2	342.0	000.0392	0149.1	002.7	80.73
326.0	000.0029	0109.5	004.4	341.8	000.0391	0149.4	003.0	79.28
327.0	000.0031	0121.1	004.7	341.8	000.0391	0149.4	003.3	77.92
328.0	000.0033	0132.8	005.0	342.0	000.0392	0149.1	003.6	76.70
329.0	000.0035	0144.0	005.3	342.3	000.0393	0148.4	003.9	75.50

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330.0	000.0037	0154.7	005.6	342.7	000.0396	0147.3	004.2	74.40
331.0	000.0039	0165.1	005.9	343.3	000.0398	0146.0	004.5	73.37
332.0	000.0041	0174.7	006.1	343.9	000.0401	0144.5	004.7	72.48
333.0	000.0043	0182.1	006.3	344.7	000.0405	0143.4	004.9	71.79
334.0	000.0046	0186.5	006.5	345.6	000.0409	0143.8	005.1	71.34
335.0	000.0048	0188.4	006.6	346.6	000.0414	0145.2	005.2	71.06
336.0	000.0050	0188.9	006.7	347.6	000.0419	0145.9	005.3	70.81
337.0	000.0053	0188.8	006.7	348.6	000.0425	0144.9	005.5	70.50
338.0	000.0055	0187.7	006.8	349.7	000.0431	0142.6	005.5	70.16
339.0	000.0058	0185.9	006.9	350.8	000.0434	0136.9	005.6	69.65
340.0	000.0061	0184.0	006.9	351.9	000.0435	0126.9	005.7	68.86
341.0	000.0062	0182.5	006.9	353.0	000.0437	0114.8	005.7	67.95
342.0	000.0064	0179.7	006.9	354.1	000.0440	0100.7	005.8	66.73
343.0	000.0066	0174.4	006.9	355.4	000.0442	0086.9	005.8	65.43
344.0	000.0068	0165.9	006.8	356.8	000.0444	0072.5	005.7	64.07
345.0	000.0070	0153.7	006.6	358.4	000.0447	0059.8	005.5	63.05
346.0	000.0073	0137.9	006.3	000.3	000.0449	0045.9	005.2	61.53
347.0	000.0075	0121.5	006.0	002.4	000.0446	0032.4	005.0	59.23
348.0	000.0077	0106.7	005.7	004.6	000.0442	0017.4	004.7	59.48
349.0	000.0079	0094.2	005.3	006.9	000.0438	0001.5	004.4	60.46
350.0	000.0081	0083.9	005.1	009.3	000.0433	-0012.9	004.2	61.39
351.0	000.0082	0074.9	004.8	011.7	000.0423	-0023.4	003.9	62.28
352.0	000.0083	0066.5	004.5	014.3	000.0410	-0034.0	003.7	63.15
353.0	000.0084	0058.6	004.3	016.9	000.0397	-0045.0	003.5	63.92
354.0	000.0085	0051.5	004.0	019.9	000.0383	-0061.6	003.3	64.86
355.0	000.0086	0045.1	003.7	023.1	000.0362	-0074.2	003.1	65.73
356.0	000.0086	0038.7	003.4	027.0	000.0337	-0075.2	002.9	66.80
357.0	000.0087	0032.5	003.2	031.1	000.0309	-0068.2	002.7	67.81
358.0	000.0088	0026.4	003.1	033.4	000.0290	-0063.0	002.6	67.97