

Exhibit 12.1 - Copy of Existing Antenna Structure Registration

Registration Detail

Reg Number	1244740	Status	Constructed
File Number	A0462096	Constructed	08/10/2004
FAA Study	2004-ANE-673-OE	EMI	No
FAA Issue Date	07/30/2004	NEPA	No

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Communications Purposes

Location (in NAD83 Coordinates)

Lat/Long 42-55-49.9 N 072-17-58.2 W 0.23 mi s-sw of intersection West Street and SR 9

City, State Keene , NH

Center of
AM Array

Heights (meters)

Elevation of Site Above Mean Sea Level Overall Height Above Ground (AGL)

143.3 54.5

Overall Height Above Mean Sea Level Overall Height Above Ground w/o Appurtenances

197.8 53.5

Painting and Lighting Specifications

None

Owner & Contact Information

FRN	0009269861	Licensee ID	L00123948
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Owner

Saga Communications of New Hampshire, LLC
Attention To: Gregory Urbiel
73 Kercheval Avenue, Suite 201
Grosse Pointe Farms , MI 48236

P: (313)886-7070
E: gurbiel@sagacom.com

Contact

Smithwick , Gary S Esq
5028 Wisconsin Avenue NW, Suite 301
Washington , DC 20016

P: (202)363-4560
E: gsmithwick@fccworld.com

Last Action Status

Status	Constructed	Received	08/24/2005
Purpose	Notification	Entered	08/24/2005
Mode	Interactive		

Related Applications

08/24/2005	A0462096 - Notification (NT)
08/11/2004	A0390355 - Modification (MD)
08/10/2004	A0390273 - New (NE)
	Related applications (4)



Exhibit 12.2

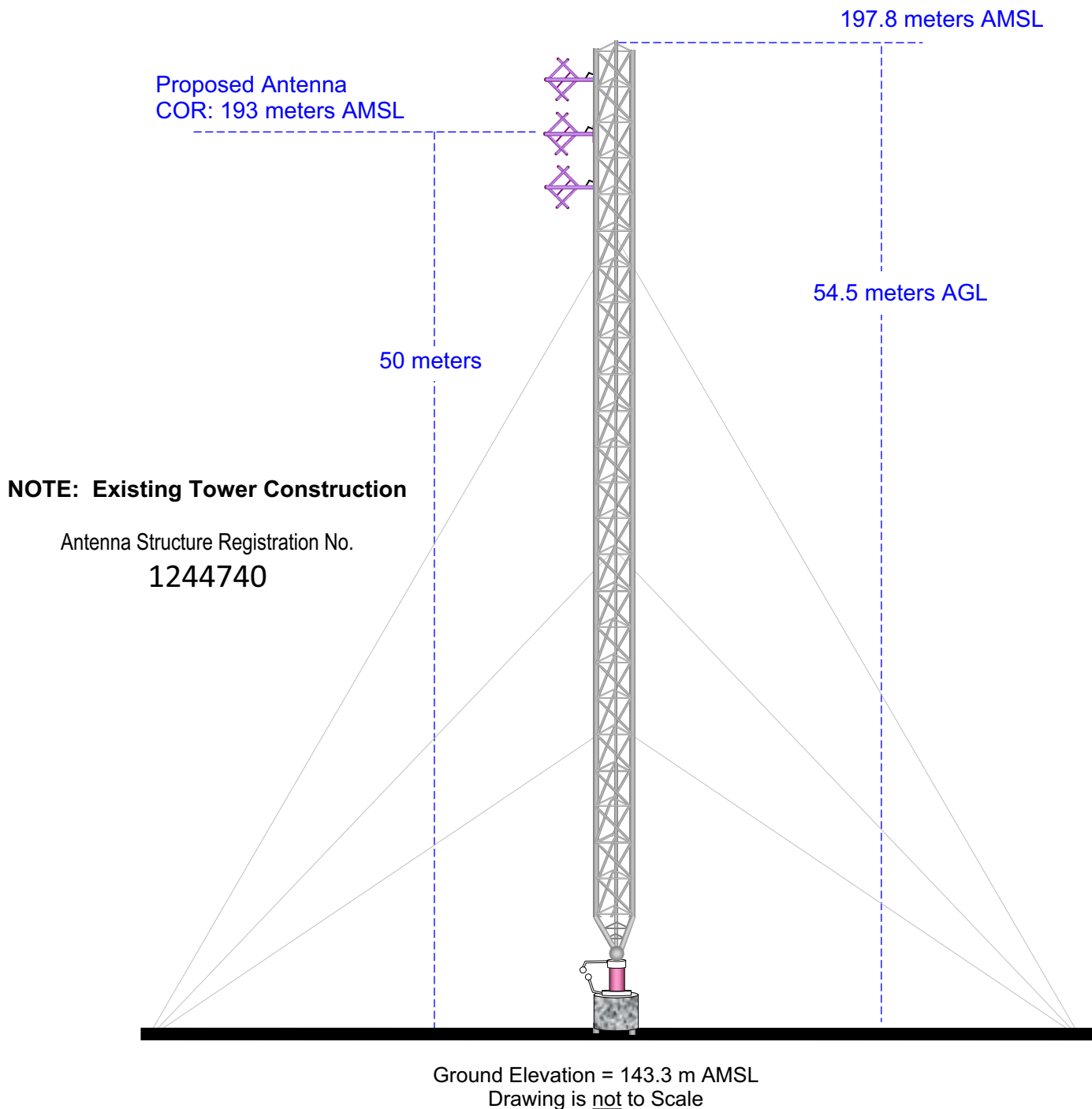
Vertical Plan of Antenna System

The site is located 0.23 mi SSW of the intersection of West Street and SR 9.
City of Keene, Cheshire County, New Hampshire

Site Location (NAD 27)

NL: 42° 55' 50"

WL: 72° 18' 00"



MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036

CH281D
Proposed Operation
Latitude: 42-55-50 N
Longitude: 072-18-00 W
ERP: 0.059 kW
Channel: 276
Frequency: 103.1 MHz
AMSL Height: 193.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

CH278D
Present Operation
Latitude: 42-55-57 N
Longitude: 072-07-18 W
ERP: 0.135 kW
Channel: 278
Frequency: 103.5 MHz
AMSL Height: 381.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

Exhibit 12.3 Present & Proposed Service Contour Study

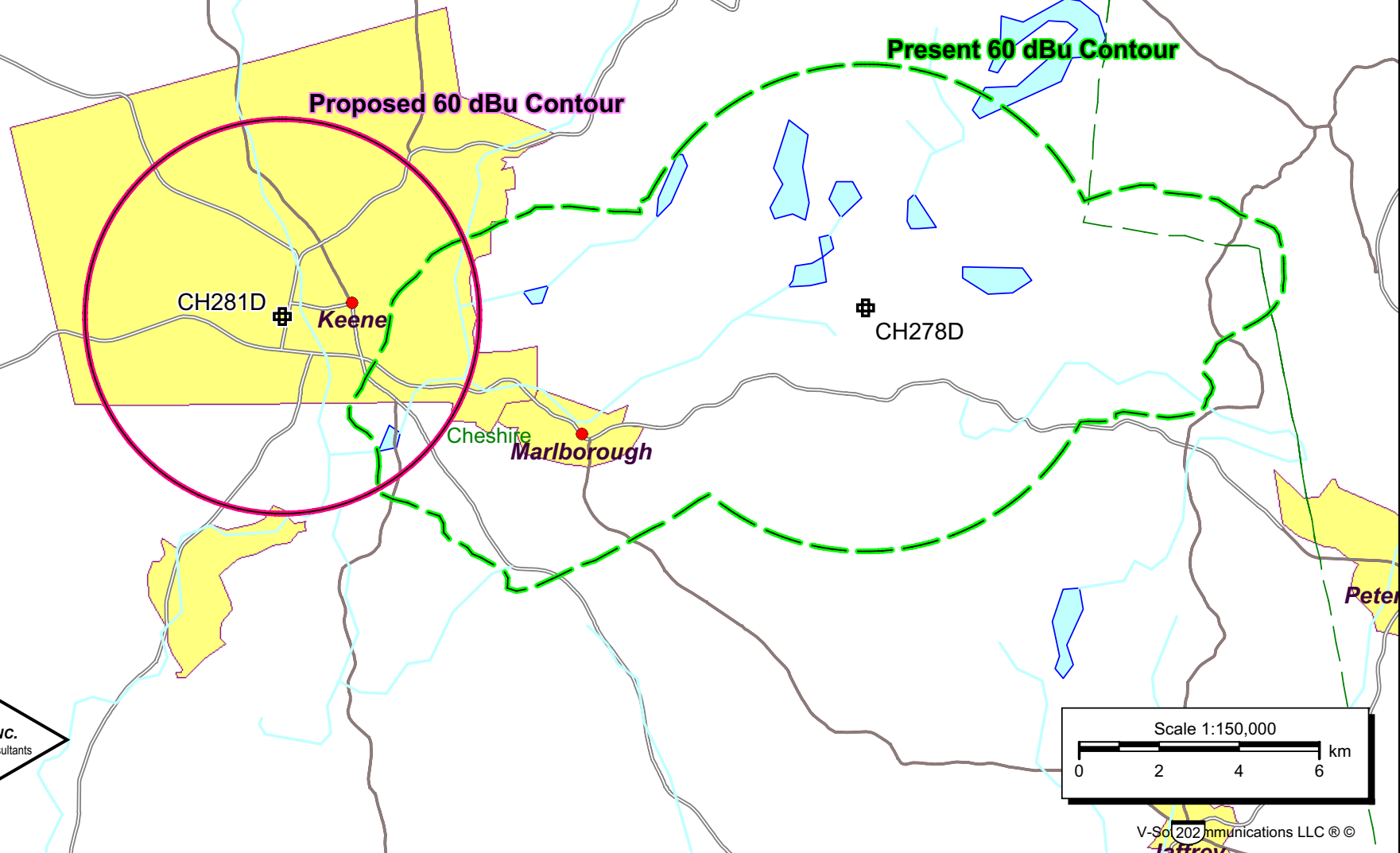


Exhibit 12.4 Present vs. Primary Service Contour Study

WKNE(FM)
BMLH20070212AAW
Latitude: 43-02-00 N
Longitude: 072-22-04 W
ERP: 12.00 kW
HAAT: 302.0 m
Channel: 279
Frequency: 103.7 MHz
AMSL Height: 576.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

WKBK.L
Present Daytime
Freq: 1290 kHz
Class: B
Latitude: 42-56-46 N
Longitude: 072-18-33 W
Power: 5 kW
RMS: 675.92 mV/m @1km
Towers: 2

CH281D
Proposed Operation
Latitude: 42-55-50 N
Longitude: 072-18-00 W
ERP: 0.059 kW
Channel: 281
Frequency: 104.1 MHz
AMSL Height: 193.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

WKBK(AM) - 25 mile Radius

WKBK(AM) - Daytime 2.0 mV/m

Proposed - 60 dBu f(50:50)

WKNE(FM) 54 dBu f(50:50)

Scale 1:650,000
0 9 18 27 km

V-Soft Communications LLC ©

MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

Exhibit 12.5

Tabulation of Proposed Translator Allocation

Tabulations of contours will be supplied upon request.
Saga Communications Of New England, Llc

REFERENCE CH# 281D - 104.1 MHz, Pwr= 0.059 kW, HAAT= -91.4 M, COR= 193 M DISPLAY DATES
42 55 50.0 N. Average Protected F(50-50)= 4.9 km DATA 03-29-08
72 18 00.0 W. SEARCH 04-02-08

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*
279B WKNE¹ Keene		LIC CX NH	334.3 154.2	12.69 BMLH20070212AAW	43 02 00.0 72 22 04.0	12.000 302	5.7 576	70.3 Saga Communications Of New	2.09	-58.65*<
281B WBCN Boston		LIC CN MA	122.7 303.5	119.00 BLH19911018KD	42 20 50.0 71 04 59.0	21.000 235	126.8 258	63.8 Hemisphere Broadcasting Co	-12.76*<	31.87
283B WXLO² Fitchburg		LIC CN MA	140.4 320.8	60.91 BMLH19910920KB	42 30 27.0 71 49 37.0	37.000 172	5.2 404	59.6 Citadel Broadcasting Compa	50.82	0.25
278D W225BE³ Peterborough		CP V NH	89.1 269.2	14.56 BPFT20080303AJE	42 55 57.0 72 07 18.0	0.135 381	0.8 381	12.1 Saga Communications Of New	8.83	1.92
282C3 RDEL Hartford		DEL VT	356.6 176.6	80.53	43 39 15.0 72 21 32.0	25.000 100	72.6 360	49.2 Nassau Broadcasting Iii, L	3.01	24.35
282C3 WWOD Hartford		LIC NCN VT	356.6 176.6	80.53 BLH19960919KA	43 39 15.0 72 21 32.0	5.600 151	59.8 411	40.4 Nassau Broadcasting Iii, L	15.82	33.18
281A WMNV Rupert		LIC H VT	296.1 115.4	86.33 BLH20041015ABS	43 16 01.0 73 15 21.0	4.300 61	60.7 379	14.4 Capital Media Corporation	20.71	56.05
281B WURH Waterbury		LIC DCN CT	196.6 16.2	158.58 BLH19880223KK	41 33 41.0 72 50 39.0	18.000 255	123.2 354	63.0 Capstar Tx Limited Partner	30.44	72.20
284D W284AB Jamaica Translator For WVAYFM, Wilmington, VT		LIC DHN VT	290.2 109.8	53.86 BLFT19930211TF	43 05 45.0 72 55 16.0	0.010 654	0.2 1187	13.4 Nassau Broadcasting Iii, L	48.76	39.97
282A RADD Enfield		ADD NH	9.0 189.1	80.00	43 38 30.0 72 08 42.0	6.000 100	23.5 440	15.8 Nassau Broadcasting Iii, L	51.60	57.27
282D W282AF Concord Translator for WBCI, Bath, ME		LIC CN NH	65.0 245.6	77.02 BLFT19970421TE	43 13 10.0 71 26 25.0	0.003 170	9.2 323	6.3 Concord Bible Fellowship	62.89	63.74

Terrain database is USGS 03 SEC Distance + R = 73.215 or FCC spacings in KM, Distance + M = Margin in KM
Contour distances are on direct line to and from reference station. Reference Zone = 1. With 3rd Adj Channels.
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- AM tower

- 1. Protection towards WKNE(FM)- Keene, NH has been documented in Exhibit 12.6. A downward radiation study has been supplied demonstrating the calculated interference area will not reach the ground nor an artificial plane 9 meters above ground level representing a standard second story building. The applicant would like to note the qualifications of §74.1204(e) have been met as the calculated interference area has been shown to not reach the. In addition, the qualifications of §74.1204(e) have been further met as the facility will actually rebroadcast WKBK(AM) 1290 kHz under a recently filed STA. WKNE(FM) has been listed as the primary station due to CDBS limitations regarding AM rebroadcast.**
- 2. WXLO(FM) - Fitchburg, MA has been offered full contour protection as noted in Exhibit 12.7.**
- 3. W225BE - BLFT-20080303AJ, is actually now W278BG, under recently filed license application BLFT-20080401ASS. W225BE/W278BG is the translator this application proposed modification to.**

Exhibit 12.6

2nd Adjacent Channel

Interference Waiver Request

Toward WKNE(FM) - Keene, NH

WKNE(FM)

This downward radiation study has been supplied demonstrating the calculated interference area will not reach the ground nor an artificial plane 9 meters above ground level representing a standard second story building. Information concerning the antenna has been included at the end of this exhibit. The applicant would like to note the qualifications of §74.1204(e) have been met as the calculated interference area has been shown to not reach the ground. In addition, the qualifications of §74.1204(e) have been further met as the facility will actually rebroadcast WKBK(AM) 1290 kHz under a recently filed STA. WKNE(FM) has been listed as the primary station due to CDBS limitations regarding AM rebroadcast.

WKNE(FM)
BMLH20070212AAW
Latitude: 43-02-00 N
Longitude: 072-22-04 W
ERP: 12.00 kW
HAAT: 302.0 m
Channel: 279
Frequency: 103.7 MHz
AMSL Height: 576.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

CH281D
Proposed Operation
Latitude: 42-55-50 N
Longitude: 072-18-00 W
ERP: 0.059 kW
Channel: 276
Frequency: 103.1 MHz
AMSL Height: 193.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

128 dBu f(50:10)

CH281D

88 dBu f(50:50)

Proposed Antenna: 3 Bay Shively 6812B-3 Proposed Power: 0.059 kW Antenna Height AGL: 50 meters Interference Contour: 128 dBu f(50:10) Artificial Ground Plane Height: 9 meters Distance (Free Space) Equation: $= (10^{((106.92 - [\text{desired dBu}] + [\text{ERP in dBk}]/20))}) * 1000$ Field Strength (dBu) Equation: $= 106.92 - (20 * (\text{LOG10}[\text{DistMeters}/1000])) + [\text{ERP in dBk}]$								
Depression	Antenna	ERP	ERP	Distance	Distance	Field Strength	Distance	Field Strength
Angle	Relative			from Ant.	from Ant.	in dBu @	from Ant.	in dBu @
Below	Field	in kW	in dBk	to Interference	Artificial Plane	Artificial Plane	to Ground Level	Ground Level
Horizon			Contour					
0°	1.000	0.059	-12.29	21.45 m	infinite	---	---	---
-5°	0.926	0.051	-12.96	19.86 m	470.42 m	100.51 dBu	573.69 m	98.79 dBu
-10°	0.723	0.031	-15.11	15.51 m	236.11 m	104.35 dBu	287.94 m	102.63 dBu
-15°	0.443	0.012	-19.36	9.50 m	158.41 m	103.56 dBu	193.19 m	101.84 dBu
-20°	0.155	0.001	-28.48	3.32 m	119.88 m	96.86 dBu	146.19 m	95.14 dBu
-25°	0.081	0.000	-34.12	1.74 m	97.01 m	93.06 dBu	118.31 m	91.34 dBu
-30°	0.227	0.003	-25.17	4.87 m	82.00 m	103.47 dBu	100.00 m	101.75 dBu
-35°	0.274	0.004	-23.54	5.88 m	71.48 m	106.30 dBu	87.17 m	104.58 dBu
-40°	0.236	0.003	-24.83	5.06 m	63.78 m	105.99 dBu	77.79 m	104.27 dBu
-45°	0.146	0.001	-29.00	3.13 m	57.98 m	102.65 dBu	70.71 m	100.93 dBu
-50°	0.036	0.000	-41.17	0.77 m	53.52 m	91.18 dBu	65.27 m	89.46 dBu
-55°	0.066	0.000	-35.90	1.42 m	50.05 m	97.03 dBu	61.04 m	95.31 dBu
-60°	0.141	0.001	-29.31	3.02 m	47.34 m	104.11 dBu	57.74 m	102.38 dBu
-65°	0.183	0.002	-27.04	3.93 m	45.24 m	106.77 dBu	55.17 m	105.04 dBu
-70°	0.191	0.002	-26.67	4.10 m	43.63 m	107.45 dBu	53.21 m	105.73 dBu
-75°	0.170	0.002	-27.68	3.65 m	42.45 m	106.68 dBu	51.76 m	104.96 dBu
-80°	0.127	0.001	-30.22	2.72 m	41.63 m	104.32 dBu	50.77 m	102.59 dBu
-85°	0.069	0.000	-35.51	1.48 m	41.16 m	99.12 dBu	50.19 m	97.39 dBu
-90°	0.001	0.000	-72.29	0.02 m	41.00 m	62.37 dBu	50.00 m	60.65 dBu

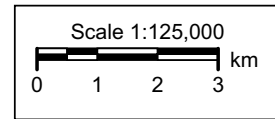


Exhibit 12.6
2nd Adjacent Channel Interference Waiver Request
Toward WKNE(FM) - Keene, NH

Shively Labs

Antenna Mfr.: Shively Labs

Date: 12/29/2004

Antenna Type: 6812B or 6602B 3-Bay, full-wave-spaced

Frequency: 98.1

6812B Gain (Max)

1.55

1.91 dB

6602B Gain (Max)

3.10

4.91 dB

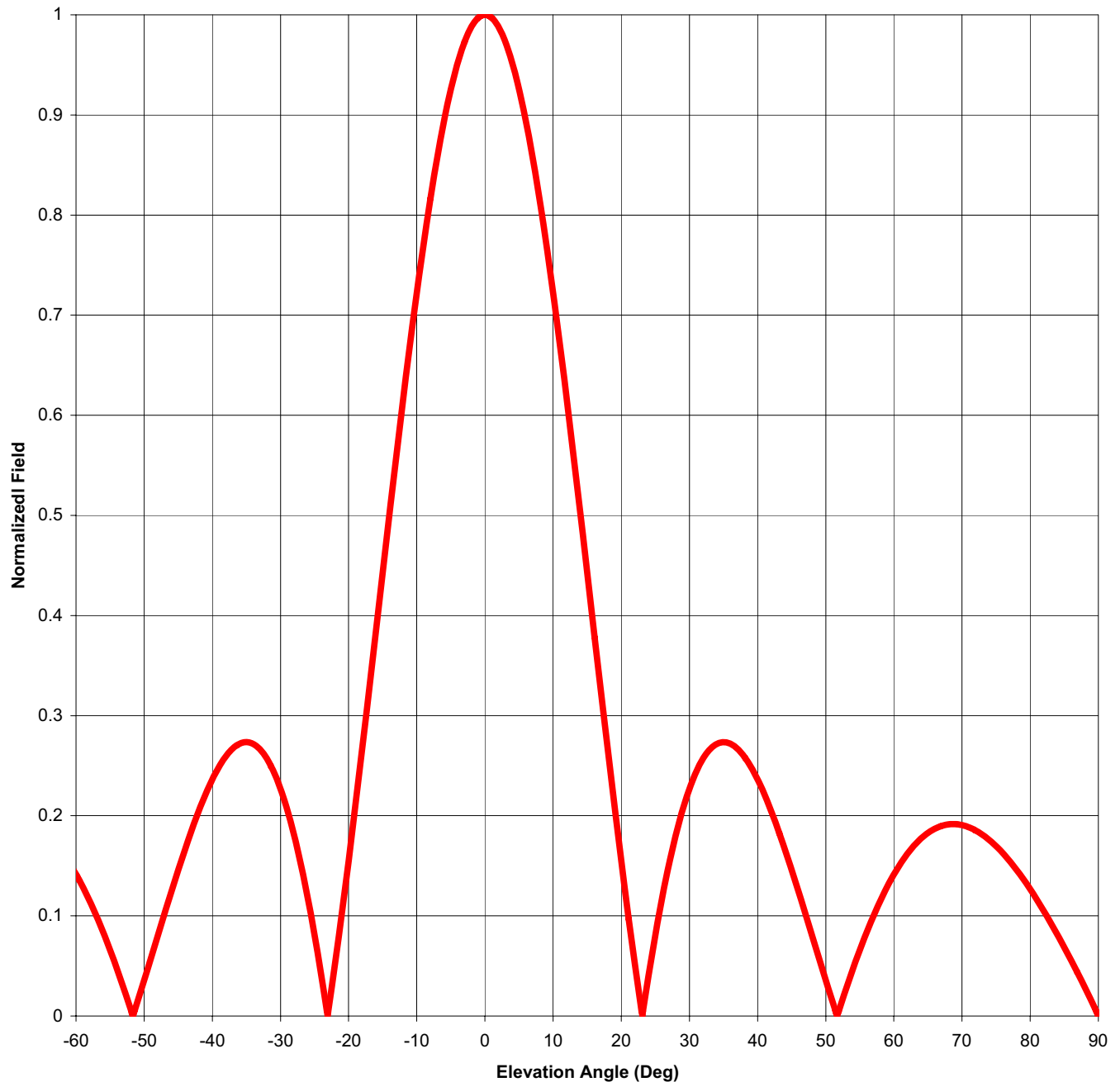


Exhibit 12.6

2nd Adjacent Channel Interference Waiver Request Toward WKNE(FM) - Keene, NH

Elevation Pattern Tabulation, 6602B and 6812B 3-Bay Full-Wave-Spaced

Relative Field at 0° Depression = 1.000

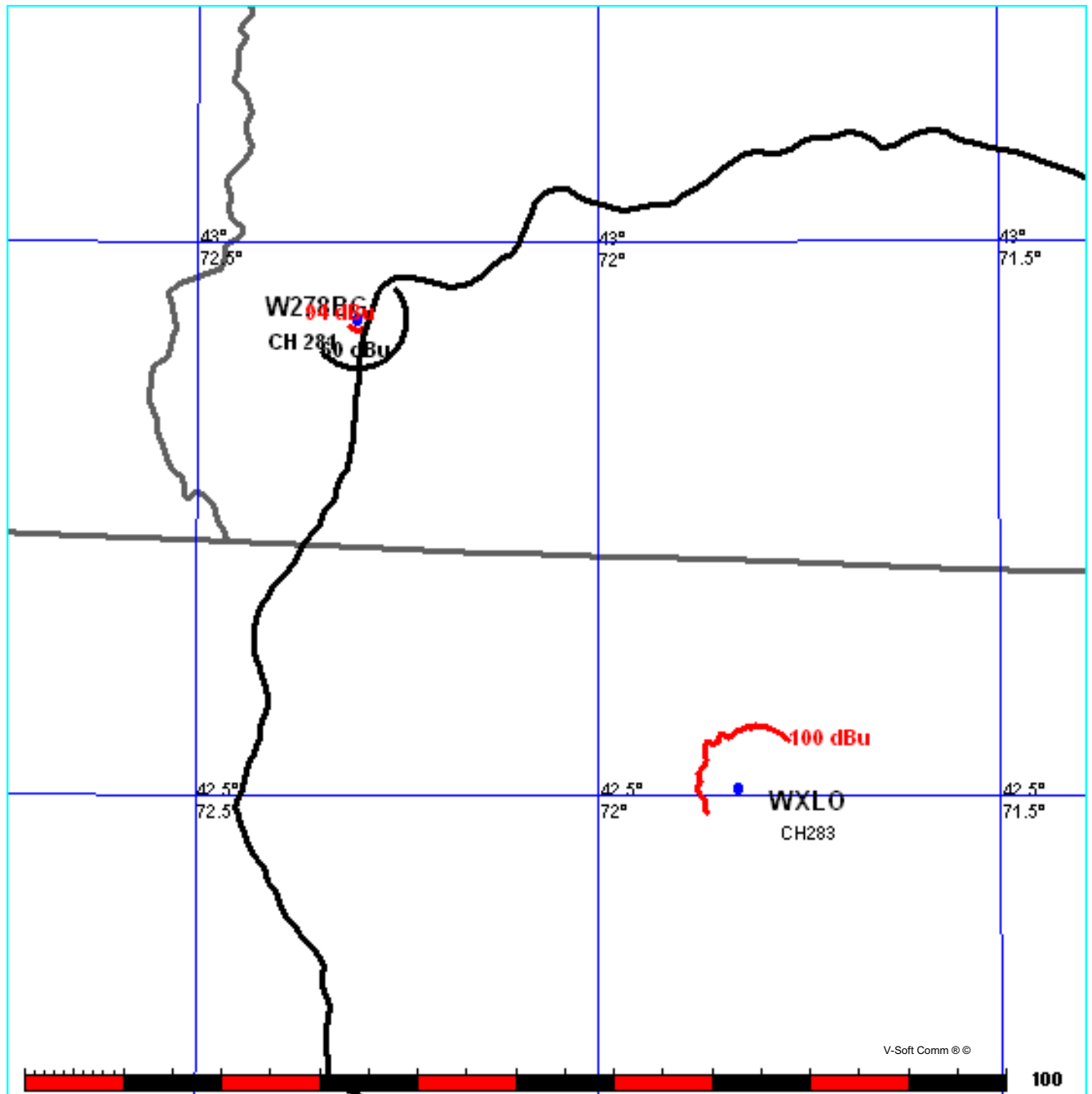
Degrees	Rel. Field	Degrees	Rel. Field	Degrees	Rel. Field	Degrees	Rel. Field	Degrees	Rel. Field
1	0.997	19	0.210	37	0.267	55	0.066	73	0.181
2	0.988	20	0.155	38	0.260	56	0.083	74	0.176
3	0.973	21	0.102	39	0.249	57	0.100	75	0.170
4	0.952	22	0.052	40	0.236	58	0.115	76	0.163
5	0.926	23	0.004	41	0.221	59	0.129	77	0.155
6	0.894	24	0.040	42	0.205	60	0.141	78	0.146
7	0.858	25	0.081	43	0.186	61	0.153	79	0.137
8	0.816	26	0.118	44	0.167	62	0.162	80	0.127
9	0.771	27	0.151	45	0.146	63	0.171	81	0.116
10	0.723	28	0.181	46	0.124	64	0.177	82	0.105
11	0.671	29	0.206	47	0.103	65	0.183	83	0.093
12	0.616	30	0.227	48	0.080	66	0.187	84	0.081
13	0.560	31	0.244	49	0.058	67	0.190	85	0.069
14	0.502	32	0.257	50	0.036	68	0.191	86	0.056
15	0.443	33	0.266	51	0.014	69	0.192	87	0.042
16	0.384	34	0.272	52	0.007	70	0.191	88	0.029
17	0.325	35	0.274	53	0.028	71	0.189	89	0.015
18	0.267	36	0.272	54	0.047	72	0.185	90	0.000

Exhibit 12.7 - Contour Protection Studies Toward Select Station(s)

FMCommander Single Allocation Study
04-02-2008

W278BG CH 281 D
0.059 kW 193 M COR
Prot. = 60 dBu
Intef. = 94 dBu

WXLO CH 283 B BMLH19910920KB
37.0 kW, 404 M COR
Prot. = 54 dBu
Intef. = 100 dBu



04-02-2008

USGS 03 SEC Terrain Data

FMOver Analysis

W278BG

Channel = 281D

Max ERP = 0.059 kW

RCAMSL = 193 M

N. Lat. 42 55 50.0

W. Lng. 72 18 00.0

Protected

60 dBu

WXLO

BMLH19910920KB

Channel = 283B

Max ERP = 37 kW

RCAMSL = 404 M

N. Lat. 42 30 27.0

W. Lng. 71 49 37.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
095.0	000.0590	-0147.2	004.9	324.2	037.0000	0149.2	057.6	59.47
096.0	000.0590	-0141.0	004.9	324.2	037.0000	0149.1	057.5	59.48
097.0	000.0590	-0135.0	004.9	324.1	037.0000	0149.0	057.4	59.50
098.0	000.0590	-0132.9	004.9	324.1	037.0000	0148.9	057.4	59.52
099.0	000.0590	-0132.1	004.9	324.0	037.0000	0148.8	057.3	59.54
100.0	000.0590	-0132.0	004.9	323.9	037.0000	0148.7	057.2	59.55
101.0	000.0590	-0130.3	004.9	323.9	037.0000	0148.5	057.2	59.57
102.0	000.0590	-0130.1	004.9	323.8	037.0000	0148.3	057.1	59.58
103.0	000.0590	-0127.3	004.9	323.8	037.0000	0148.1	057.1	59.59
104.0	000.0590	-0122.9	004.9	323.7	037.0000	0147.9	057.0	59.60
105.0	000.0590	-0119.0	004.9	323.6	037.0000	0147.6	057.0	59.60
106.0	000.0590	-0113.4	004.9	323.6	037.0000	0147.3	056.9	59.60
107.0	000.0590	-0107.6	004.9	323.5	037.0000	0146.9	056.9	59.61
108.0	000.0590	-0105.5	004.9	323.4	037.0000	0146.6	056.8	59.61
109.0	000.0590	-0107.6	004.9	323.3	037.0000	0146.3	056.8	59.61
110.0	000.0590	-0111.4	004.9	323.3	037.0000	0145.9	056.7	59.61
111.0	000.0590	-0113.8	004.9	323.2	037.0000	0145.6	056.7	59.61
112.0	000.0590	-0117.6	004.9	323.1	037.0000	0145.3	056.6	59.61
113.0	000.0590	-0121.5	004.9	323.1	037.0000	0145.0	056.6	59.60
114.0	000.0590	-0123.6	004.9	323.0	037.0000	0144.6	056.5	59.60
115.0	000.0590	-0124.3	004.9	322.9	037.0000	0144.2	056.5	59.60
116.0	000.0590	-0124.6	004.9	322.8	037.0000	0143.8	056.5	59.59
117.0	000.0590	-0125.7	004.9	322.7	037.0000	0143.4	056.4	59.58
118.0	000.0590	-0125.6	004.9	322.7	037.0000	0142.9	056.4	59.57
119.0	000.0590	-0123.4	004.9	322.6	037.0000	0142.5	056.4	59.56
120.0	000.0590	-0118.9	004.9	322.5	037.0000	0142.0	056.3	59.54
121.0	000.0590	-0114.9	004.9	322.4	037.0000	0141.5	056.3	59.53
122.0	000.0590	-0113.0	004.9	322.3	037.0000	0141.0	056.3	59.51
123.0	000.0590	-0113.2	004.9	322.3	037.0000	0140.4	056.2	59.49
124.0	000.0590	-0112.8	004.9	322.2	037.0000	0139.9	056.2	59.48
125.0	000.0590	-0111.5	004.9	322.1	037.0000	0139.4	056.2	59.46
126.0	000.0590	-0111.7	004.9	322.0	037.0000	0138.9	056.2	59.44
127.0	000.0590	-0113.1	004.9	321.9	037.0000	0138.4	056.1	59.42
128.0	000.0590	-0107.4	004.9	321.8	037.0000	0137.8	056.1	59.40
129.0	000.0590	-0099.1	004.9	321.8	037.0000	0137.2	056.1	59.37
130.0	000.0590	-0089.2	004.9	321.7	037.0000	0136.7	056.1	59.35
131.0	000.0590	-0077.2	004.9	321.6	037.0000	0136.1	056.1	59.33

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
132.0	000.0590	-0066.5	004.9	321.5	037.0000	0135.7	056.1	59.31
133.0	000.0590	-0056.9	004.9	321.4	037.0000	0135.2	056.0	59.28
134.0	000.0590	-0048.8	004.9	321.3	037.0000	0134.7	056.0	59.26
135.0	000.0590	-0047.0	004.9	321.2	037.0000	0134.3	056.0	59.24
136.0	000.0590	-0051.4	004.9	321.1	037.0000	0133.9	056.0	59.22
137.0	000.0590	-0059.0	004.9	321.1	037.0000	0133.5	056.0	59.20
138.0	000.0590	-0064.3	004.9	321.0	037.0000	0133.1	056.0	59.18
139.0	000.0590	-0067.5	004.9	320.9	037.0000	0132.6	056.0	59.16
140.0	000.0590	-0070.9	004.9	320.8	037.0000	0132.3	056.0	59.14
141.0	000.0590	-0075.9	004.9	320.7	037.0000	0132.0	056.0	59.13
142.0	000.0590	-0078.1	004.9	320.6	037.0000	0131.7	056.0	59.11
143.0	000.0590	-0079.7	004.9	320.5	037.0000	0131.4	056.0	59.10
144.0	000.0590	-0081.4	004.9	320.4	037.0000	0131.2	056.0	59.08
145.0	000.0590	-0083.2	004.9	320.4	037.0000	0130.9	056.0	59.06
146.0	000.0590	-0085.2	004.9	320.3	037.0000	0130.6	056.0	59.04
147.0	000.0590	-0085.7	004.9	320.2	037.0000	0130.3	056.0	59.02
148.0	000.0590	-0084.6	004.9	320.1	037.0000	0129.9	056.0	59.00
149.0	000.0590	-0083.5	004.9	320.0	037.0000	0129.5	056.1	58.97
150.0	000.0590	-0080.1	004.9	319.9	037.0000	0129.2	056.1	58.94
151.0	000.0590	-0075.1	004.9	319.8	037.0000	0128.7	056.1	58.91
152.0	000.0590	-0071.0	004.9	319.8	037.0000	0128.3	056.1	58.88
153.0	000.0590	-0067.7	004.9	319.7	037.0000	0127.8	056.1	58.85
154.0	000.0590	-0061.7	004.9	319.6	037.0000	0127.3	056.1	58.82
155.0	000.0590	-0054.8	004.9	319.5	037.0000	0126.8	056.2	58.78
156.0	000.0590	-0049.0	004.9	319.4	037.0000	0126.3	056.2	58.74
157.0	000.0590	-0041.8	004.9	319.3	037.0000	0125.8	056.2	58.70
158.0	000.0590	-0037.0	004.9	319.2	037.0000	0125.3	056.2	58.67
159.0	000.0590	-0029.8	004.9	319.2	037.0000	0124.8	056.3	58.63
160.0	000.0590	-0020.8	004.9	319.1	037.0000	0124.3	056.3	58.59
161.0	000.0590	-0011.0	004.9	319.0	037.0000	0123.8	056.3	58.55
162.0	000.0590	0000.8	004.9	318.9	037.0000	0123.3	056.4	58.51
163.0	000.0590	0007.5	004.9	318.8	037.0000	0122.9	056.4	58.47
164.0	000.0590	0012.9	004.9	318.8	037.0000	0122.4	056.4	58.43
165.0	000.0590	0017.3	004.9	318.7	037.0000	0121.9	056.5	58.39
166.0	000.0590	0018.8	004.9	318.6	037.0000	0121.4	056.5	58.35
167.0	000.0590	0019.7	004.9	318.5	037.0000	0121.0	056.6	58.31
168.0	000.0590	0022.0	004.9	318.5	037.0000	0120.5	056.6	58.27
169.0	000.0590	0024.9	004.9	318.4	037.0000	0120.0	056.7	58.22
170.0	000.0590	0026.1	004.9	318.3	037.0000	0119.5	056.7	58.18
171.0	000.0590	0023.9	004.9	318.2	037.0000	0119.1	056.7	58.14
172.0	000.0590	0017.8	004.9	318.2	037.0000	0118.7	056.8	58.10
173.0	000.0590	0003.8	004.9	318.1	037.0000	0118.3	056.8	58.05
174.0	000.0590	-0017.0	004.9	318.0	037.0000	0117.9	056.9	58.01
175.0	000.0590	-0034.9	004.9	317.9	037.0000	0117.5	056.9	57.97
176.0	000.0590	-0044.8	004.9	317.9	037.0000	0117.0	057.0	57.92
177.0	000.0590	-0044.0	004.9	317.8	037.0000	0116.6	057.0	57.88
178.0	000.0590	-0037.9	004.9	317.7	037.0000	0116.1	057.1	57.83
179.0	000.0590	-0028.0	004.9	317.7	037.0000	0115.7	057.2	57.78
180.0	000.0590	-0019.5	004.9	317.6	037.0000	0115.3	057.2	57.74
181.0	000.0590	-0016.0	004.9	317.6	037.0000	0114.8	057.3	57.69
182.0	000.0590	-0012.4	004.9	317.5	037.0000	0114.4	057.3	57.64

04-02-2008 USGS 03 SEC Terrain Data

WXLO BMLH19910920KB
 Channel = 283B
 Max ERP = 37 kW
 RCAMSL = 404 M
 N. Lat. 42 30 27.0
 W. Lng. 71 49 37.0
 Protected
 54 dBu

W278BG
 Channel = 281D
 Max ERP = 0.059 kW
 RCAMSL = 193 M
 N. Lat. 42 55 50.0
 W. Lng. 72 18 00.0
 Interfering
 94 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
276.0	037.0000	0074.6	048.9	193.2	000.0590	-0014.3	043.2	25.28
277.0	037.0000	0074.4	048.9	193.3	000.0590	-0013.9	042.4	25.53
278.0	037.0000	0074.0	048.8	193.3	000.0590	-0014.0	041.5	25.78
279.0	037.0000	0073.2	048.6	193.1	000.0590	-0014.7	040.6	26.04
280.0	037.0000	0072.9	048.5	193.1	000.0590	-0014.7	039.8	26.31
281.0	037.0000	0074.0	048.8	193.5	000.0590	-0012.9	039.0	26.58
282.0	037.0000	0075.3	049.1	194.1	000.0590	-0009.8	038.1	26.85
283.0	037.0000	0077.8	049.7	195.0	000.0590	-0005.4	037.3	27.14
284.0	037.0000	0079.9	050.2	195.8	000.0590	-0005.5	036.4	27.43
285.0	037.0000	0082.0	050.6	196.6	000.0590	-0008.3	035.6	27.74
286.0	037.0000	0084.5	051.2	197.5	000.0590	-0012.0	034.7	28.05
287.0	037.0000	0086.1	051.5	198.1	000.0590	-0012.7	033.8	28.38
288.0	037.0000	0087.2	051.8	198.6	000.0590	-0011.4	032.9	28.72
289.0	037.0000	0087.7	051.9	198.7	000.0590	-0010.6	032.0	29.06
290.0	037.0000	0087.7	051.9	198.7	000.0590	-0010.6	031.1	29.44
291.0	037.0000	0087.3	051.8	198.5	000.0590	-0011.6	030.2	29.85
292.0	037.0000	0086.3	051.6	198.0	000.0590	-0012.8	029.3	30.29
293.0	037.0000	0086.1	051.5	197.8	000.0590	-0012.9	028.4	30.77
294.0	037.0000	0084.7	051.2	197.0	000.0590	-0010.5	027.6	31.26
295.0	037.0000	0082.9	050.8	196.0	000.0590	-0005.9	026.7	31.75
296.0	037.0000	0082.0	050.6	195.2	000.0590	-0005.3	025.9	32.28
297.0	037.0000	0081.4	050.5	194.5	000.0590	-0007.0	025.1	32.83
298.0	037.0000	0081.4	050.5	194.1	000.0590	-0009.6	024.2	33.41
299.0	037.0000	0081.3	050.5	193.5	000.0590	-0013.0	023.4	34.01
300.0	037.0000	0081.2	050.5	192.8	000.0590	-0015.8	022.5	34.62
301.0	037.0000	0080.2	050.2	191.5	000.0590	-0014.1	021.8	35.19
302.0	037.0000	0079.6	050.1	190.4	000.0590	-0016.5	021.0	35.79
303.0	037.0000	0080.7	050.3	190.1	000.0590	-0017.1	020.1	36.49
304.0	037.0000	0080.7	050.3	189.1	000.0590	-0018.1	019.3	37.13
305.0	037.0000	0079.9	050.2	187.5	000.0590	-0015.2	018.6	37.71
306.0	037.0000	0080.8	050.4	186.7	000.0590	-0015.0	017.7	38.43
307.0	037.0000	0083.0	050.8	186.7	000.0590	-0015.0	016.7	39.27
308.0	037.0000	0083.8	051.0	185.6	000.0590	-0018.8	015.8	40.00
309.0	037.0000	0084.1	051.1	184.0	000.0590	-0015.2	015.1	40.68

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
310.0	037.0000	0086.1	051.5	183.4	000.0590	-0010.0	014.1	41.80
311.0	037.0000	0088.1	052.0	182.5	000.0590	-0010.2	013.1	43.09
312.0	037.0000	0091.6	052.7	182.5	000.0590	-0010.5	012.0	44.78
313.0	037.0000	0095.2	053.4	182.3	000.0590	-0011.2	010.8	46.66
314.0	037.0000	0098.7	054.1	181.7	000.0590	-0013.3	009.6	48.66
315.0	037.0000	0103.1	054.9	181.6	000.0590	-0013.8	008.4	51.00
316.0	037.0000	0107.0	055.6	180.3	000.0590	-0018.3	007.2	53.50
317.0	037.0000	0111.2	056.4	178.5	000.0590	-0033.8	006.0	56.67
318.0	037.0000	0117.8	057.4	178.0	000.0590	-0037.6	004.5	61.38
319.0	037.0000	0123.8	058.3	174.7	000.0590	-0029.9	003.2	67.54
320.0	037.0000	0129.5	059.2	164.4	000.0590	0015.2	001.9	76.78
321.0	037.0000	0133.2	059.7	128.5	000.0590	-0103.2	001.2	92.80
322.0	037.0000	0138.9	060.6	067.4	000.0590	-0196.0	001.4	91.86
323.0	037.0000	0144.7	061.4	041.1	000.0590	-0143.7	002.4	72.46
324.0	037.0000	0148.8	061.9	036.1	000.0590	-0154.5	003.6	65.27
325.0	037.0000	0150.1	062.1	038.1	000.0590	-0145.5	004.7	60.71
326.0	037.0000	0148.6	061.9	043.3	000.0590	-0139.6	005.7	57.50
327.0	037.0000	0143.7	061.3	050.9	000.0590	-0128.5	006.7	54.80
328.0	037.0000	0137.7	060.4	058.2	000.0590	-0140.4	007.7	52.32
329.0	037.0000	0129.8	059.2	065.7	000.0590	-0190.7	008.8	50.13
330.0	037.0000	0123.1	058.2	070.8	000.0590	-0192.0	010.0	48.01
331.0	037.0000	0120.4	057.8	071.9	000.0590	-0191.1	011.1	46.19
332.0	037.0000	0119.0	057.6	072.0	000.0590	-0191.0	012.1	44.56
333.0	037.0000	0119.7	057.7	070.7	000.0590	-0192.0	013.1	43.14
334.0	037.0000	0121.1	057.9	069.3	000.0590	-0193.2	014.0	41.85
335.0	037.0000	0122.9	058.2	068.0	000.0590	-0196.3	015.0	40.70
336.0	037.0000	0123.8	058.3	067.3	000.0590	-0196.0	016.0	39.82
337.0	037.0000	0124.4	058.4	066.9	000.0590	-0194.8	017.1	38.96
338.0	037.0000	0128.8	059.1	064.9	000.0590	-0187.6	018.1	38.10
339.0	037.0000	0136.6	060.2	061.7	000.0590	-0166.1	019.2	37.17
340.0	037.0000	0143.5	061.2	059.3	000.0590	-0149.1	020.4	36.22
341.0	037.0000	0152.7	062.5	056.6	000.0590	-0129.0	021.7	35.20
342.0	037.0000	0157.2	063.0	055.9	000.0590	-0126.2	023.0	34.30
343.0	037.0000	0157.0	063.0	056.7	000.0590	-0129.3	024.0	33.55
344.0	037.0000	0154.6	062.7	058.1	000.0590	-0139.9	025.0	32.88
345.0	037.0000	0147.1	061.7	060.9	000.0590	-0163.4	025.8	32.36
346.0	037.0000	0139.8	060.7	063.6	000.0590	-0177.2	026.6	31.84
347.0	037.0000	0136.1	060.2	065.2	000.0590	-0188.9	027.5	31.28
348.0	037.0000	0132.0	059.6	066.8	000.0590	-0194.0	028.4	30.76
349.0	037.0000	0129.4	059.2	067.9	000.0590	-0196.3	029.4	30.26
350.0	037.0000	0129.3	059.2	068.3	000.0590	-0196.1	030.4	29.76
351.0	037.0000	0129.0	059.1	068.8	000.0590	-0195.0	031.4	29.32
352.0	037.0000	0129.5	059.2	069.1	000.0590	-0194.1	032.4	28.90
353.0	037.0000	0128.5	059.0	069.7	000.0590	-0192.4	033.4	28.53
354.0	037.0000	0130.0	059.3	069.7	000.0590	-0192.3	034.5	28.14
355.0	037.0000	0134.4	059.9	069.1	000.0590	-0193.9	035.6	27.71
356.0	037.0000	0137.6	060.4	068.9	000.0590	-0194.6	036.8	27.31
357.0	037.0000	0141.8	061.0	068.5	000.0590	-0195.8	038.0	26.90
358.0	037.0000	0147.0	061.7	068.0	000.0590	-0196.3	039.2	26.49
359.0	037.0000	0153.2	062.5	067.4	000.0590	-0196.1	040.5	26.08
000.0	037.0000	0158.6	063.2	067.1	000.0590	-0195.5	041.8	25.69