

**W281BH  
MINOR MODIFICATIONS**

W281BH as modified will rebroadcast WSJO HD2 (facility ID # 57357).

**Allocation discussion:**

All exhibits utilize the USGS 3 second terrain database.

- E1 Channel study
- E1AA Interference plot to W281BN
- E1A Interference analysis to WMGM
- E1B Aerial photograph of interference area
- E2 57 and 60 dBu contours
- E3 ASR

A channel study is included as E1 demonstrating compliance with §74.1204 with the exception of 2nd adjacent channel station WMGM. A plot of the proposed 60 dBu contour is provided as E2 showing that it overlaps the recently modified and constructed W281BH 60 dBu contour for which a form 350 has been filed and that the 57 dBu is entirely contained within primary station WSJO's 57 dBu.

**WMGM analyses:**

The proposed facility will be located inside the protected contours of WMGM on 279B. Interference analyses have been conducted based on the U/D ratio of +40 dB at the proposed site and the TFC-2K 4 bay antenna vertical elevation pattern are included as E1A and E1B. The worst case interference contour is 9.1 meters 5.0 meters.

It is clear from E1A and E1B that the interference contour will not reach any populated area or major highways. Based on this showing, a waiver of Section 74.1204 is requested in accordance with *Living Way Ministries, Inc.* (FCC 08-242).

**RF Exposure Calculation:**

The proposed facility will utilize a Bext TFC-2K four bay 0.85 wavelength spaced circularly polarized antenna with a center of radiation at 95 meters AGL on existing tower

ASR#1053552. The RF contribution of the proposed translator was calculated using a worst case F factor of 1.0 and the formula included below to be 1.9  $\mu\text{Watts}/\text{cm}^2$  or 1.0% of the maximum permissible 200 microwatts/cm<sup>2</sup> exposure for general population/uncontrolled exposure, and well below the 5% of that limit which requires consideration. The proposed translator clearly complies with Commission RF radiation limits.

$$S \text{ (RF in } \mu\text{Watts}/\text{cm}^2) = \frac{33.4 (F^2 \text{ Vertical Factor}) \times (H \text{ ERP} + V \text{ ERP in Watts})}{R^2 \text{ (distance to radiation center in meters} - 2 \text{ m)}}$$

Charles M. Anderson 4-27-2016

# E1 CHANNEL STUDY

REFERENCE  
39 22 35.0 N.  
74 33 44.0 W.

CH# 281D - 104.1 MHz, Pwr= 0.25 kW DA, HAAT= 94.8 M, COR= 101 M  
Average Protected F(50-50)= 12.53 km  
Standard Directional

DISPLAY DATES  
DATA 04-27-16  
SEARCH 04-27-16

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
279B Atlantic City	WMGM	LIC DCN NJ		70.5 250.5	4.53 BLH19971121KA	39 23 24.0 74 30 45.0	50.000 106	5.0 112	57.9 Longport Media, LLC	-13.2*	-54.9* (1)
281D Absecon	<del>W281BH</del>	CP _C_ NJ		65.8 245.8	0.60 BMPFT20160418AAQ	39 22 43.0 74 33 21.0	0.250	26.5 43	7.9 Hope Christian Church of M	-38.6*	-51.1*
281D Hammonton	W281BN	CP DC_ NJ		329.1 148.9	46.43 BNPFT20130822ADH	39 44 04.0 74 50 28.0	0.063	40.9 249	11.3 Edward A. Schober	-2.2	3.4
281D Turnersville	W281BN	APP DC_ NJ		316.5 136.2	57.34 BMPFT20160119ABD	39 44 58.6 75 01 26.4	0.250	37.4 107	11.0 Edward A. Schober	10.7	15.6
281B Allentown	WAEB-FM	LIC _CN PA		329.8 149.2	173.37 BLH7006	40 43 13.0 75 35 44.0	50.000 152	146.9 353	72.4 Capstar Tx, LLC	17.3	56.2
283B Philadelphia	WRFF	LIC _C_ PA		322.1 141.7	93.97 BMLH20090513AAG	40 02 30.0 75 14 24.0	11.500 308	5.5 376	68.5 Amfm Radio Licenses, L.L.C	79.3	24.2
281D Dover	W281BD	LIC _C_ DE		243.2 62.6	95.97 BLFT20140801AJP	38 59 01.0 75 33 14.0	0.110	39.9 128	11.8 Delmarva Broadcasting Comp	45.0	48.4
280A Jenkintown	WPPZ-FM	LIC _CX PA		322.3 141.8	93.78 BLH20070111AAX	40 02 29.6 75 14 11.4	0.270 338	39.5 403	25.8 Radio One Licenses, LLC	45.1	55.1

Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM  
In & Out distances between contours are shown at closest points. Reference zone= East Zone, Co to 3rd adjacent.  
All separation margins (if shown) include rounding. Call signs with strikeout 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)  
"\*"affixed to 'IN' or 'OUT' values = site inside restricted contour.

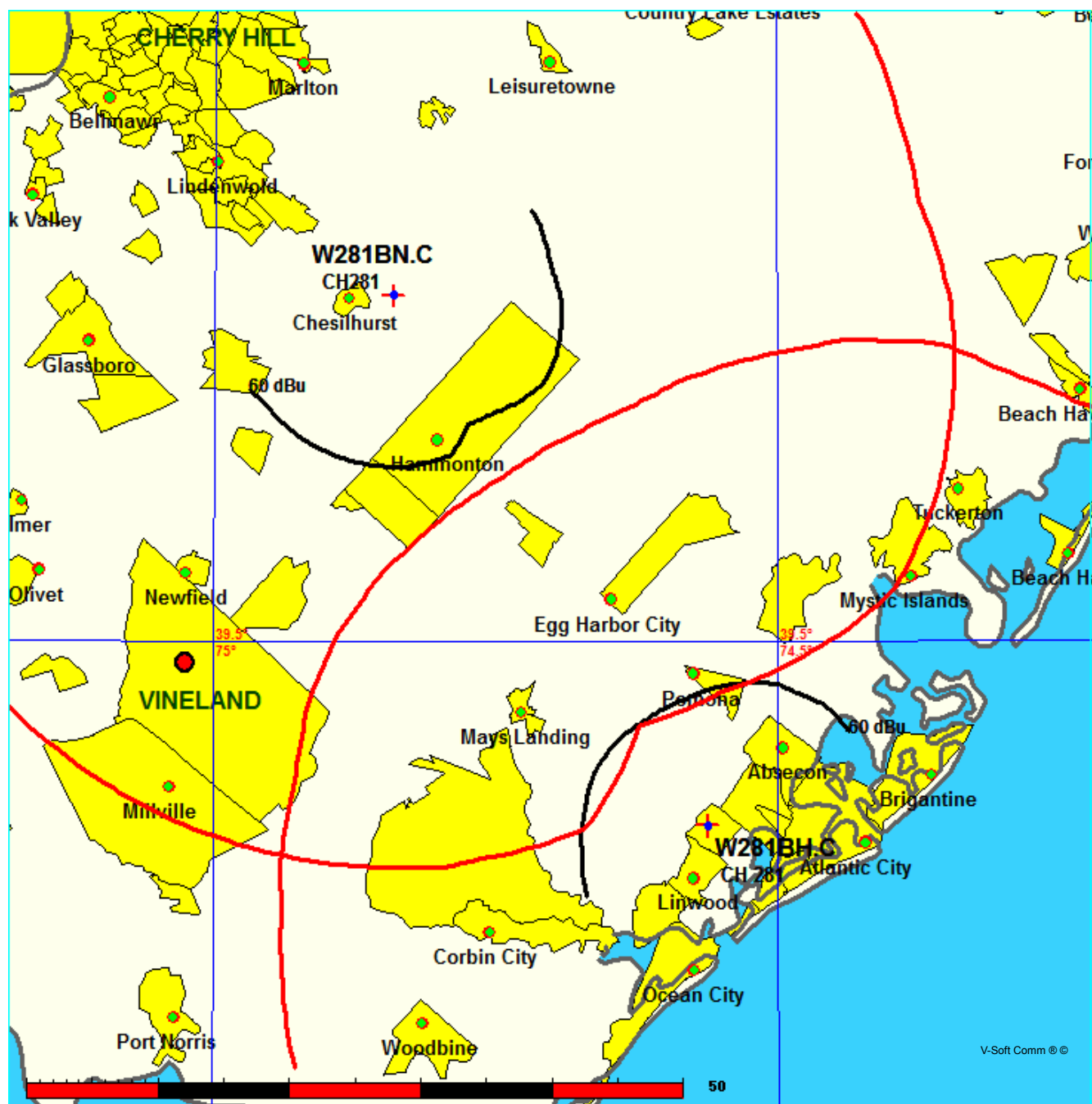
(1) See E1A and E1B for disproval of interference.

# E1AA PLOT TO W281BN

## FMCommander Single Allocation Study - USGS 03 SEC

W281BH CH 281 D DA  
 Lat= 39 22 35.0, Lng= 74 33 42.0  
 0.25 kW 94.8 m HAAT, 101 m COR  
 Prot.= 60 dBu, Intef.= 40 dBu

W281BN CH 281 D DA BNPFT20130822ADH  
 Lat= 39 44 04.0, Lng= 74 50 28.0  
 0.063 kW 0 m HAAT, 249 m COR  
 Prot.= 60 dBu, Intef.= 40 dBu



# E1A WMGM INTERFERENCE ANALYSIS

W281BH ATLANTIC CITY, NJ

74.1204(d) Showing

Translator or LPFM Maximum Licensed ERP = 0.25

Translator or LPFM Antenna Height AG = 95 Meters

W281BH Antenna Model = BEXT TFC-2K-4 -85% WAVE

Protected Station's Contour = 101.7309 dBu

Translator's or LPFM's full Interference contour 141.7309

Review Azimuth = 0 Degrees True

Relative Field on the horizon at Review Azimuth = 1.000

Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW

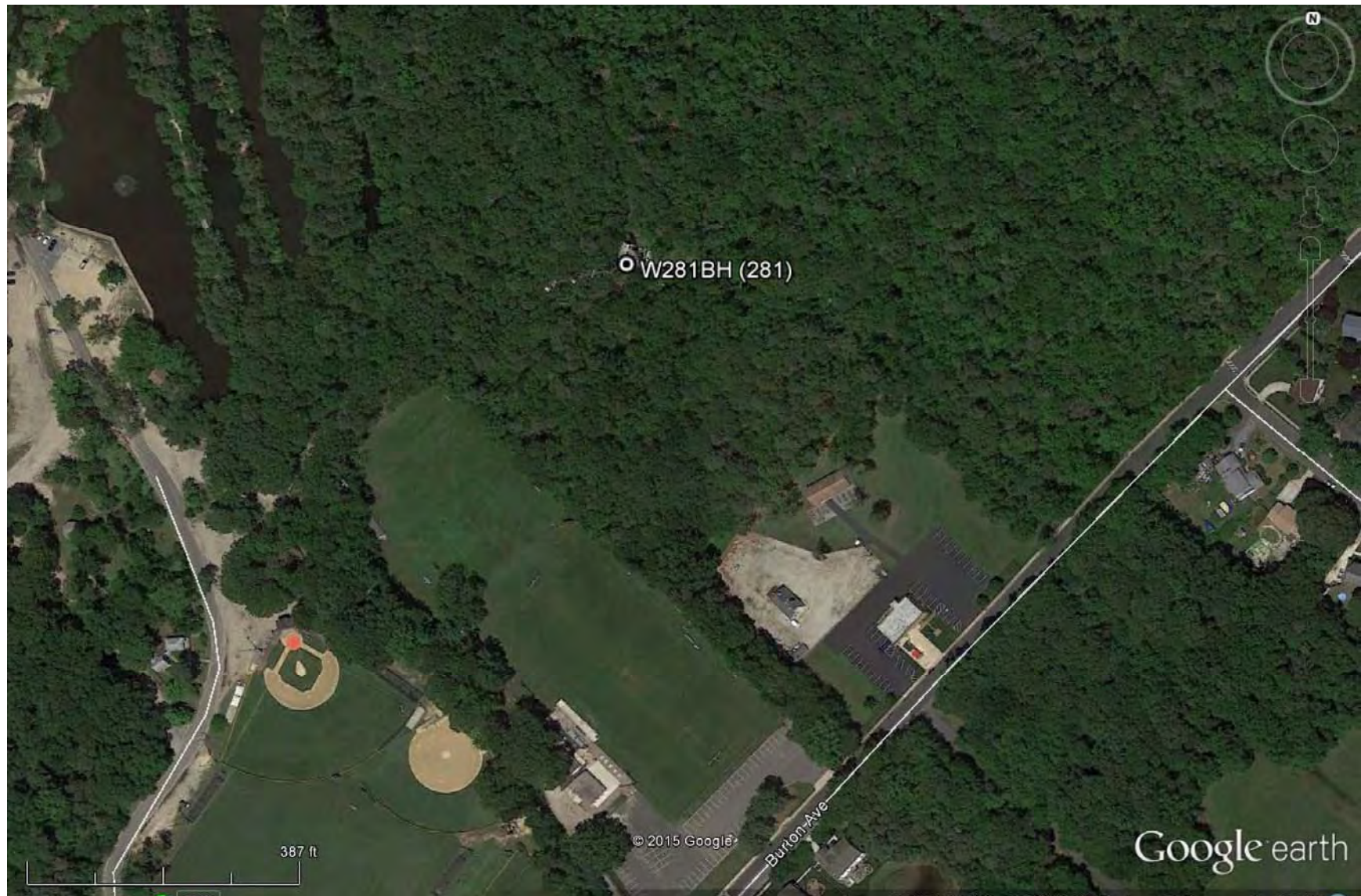
Distance between stations = 4.5 km

Protected Station= WMGM, 50 kW, 112 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.2500	009.0871	009.0871	095.000
05.00	0.853	1.0	0.1817	007.7467	007.7173	094.325
10.00	0.522	1.0	0.0681	004.7435	004.6714	094.176
15.00	0.155	1.0	0.0060	001.4085	001.3605	094.635
20.00	0.123	1.0	0.0038	001.1177	001.0503	094.618
25.00	0.24	1.0	0.0144	002.1809	001.9766	094.078
30.00	0.204	1.0	0.0104	001.8538	001.6054	094.073
35.00	0.062	1.0	0.0009	000.5589	000.4578	094.679
40.00	0.09	1.0	0.0020	000.8178	000.6265	094.474
45.00	0.174	1.0	0.0076	001.5812	001.1180	093.882
50.00	0.176	1.0	0.0077	001.5993	001.0280	093.775
55.00	0.121	1.0	0.0036	001.0950	000.6281	094.103
60.00	0.05	1.0	0.0006	000.4544	000.2272	094.607
65.00	0.01	1.0	0.0000	000.0863	000.0365	094.922
70.00	0.043	1.0	0.0005	000.3907	000.1336	094.633
75.00	0.054	1.0	0.0007	000.4884	000.1264	094.528
80.00	0.049	1.0	0.0006	000.4453	000.0773	094.561
85.00	0.031	1.0	0.0002	000.2817	000.0246	094.719
90.00	0.017	1.0	0.0001	000.1545	000.0000	094.846

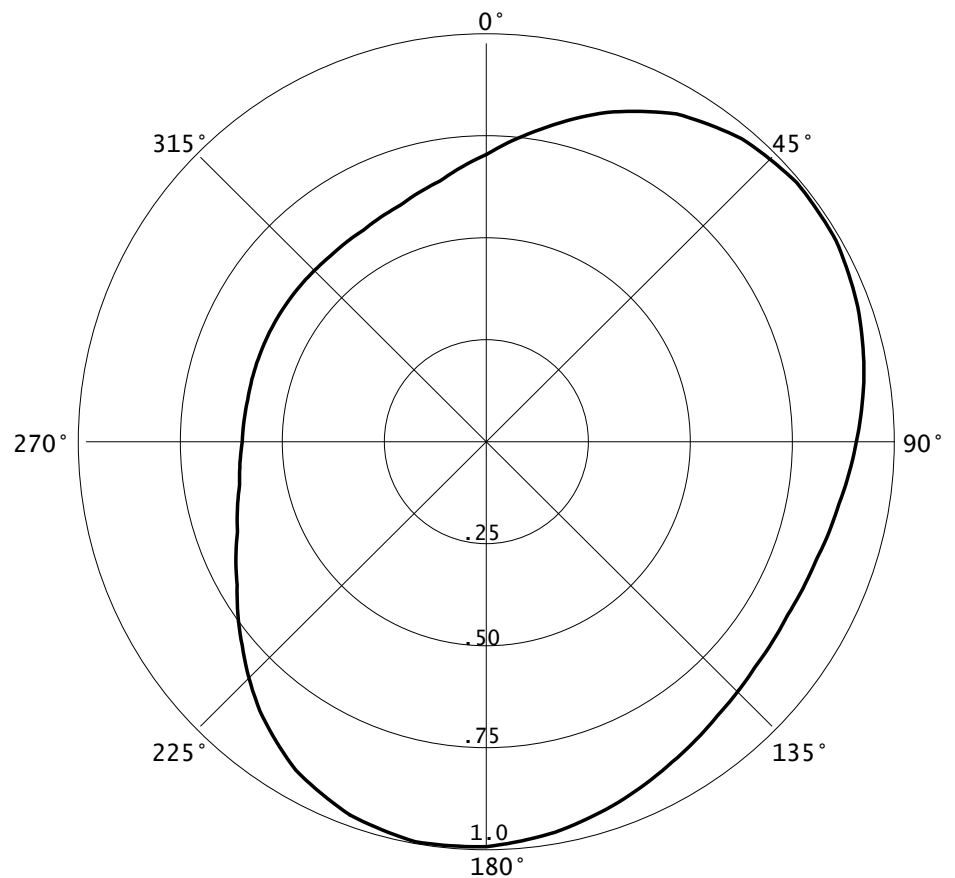


## E1B AERIAL VIEW OF PROPOSED SITE

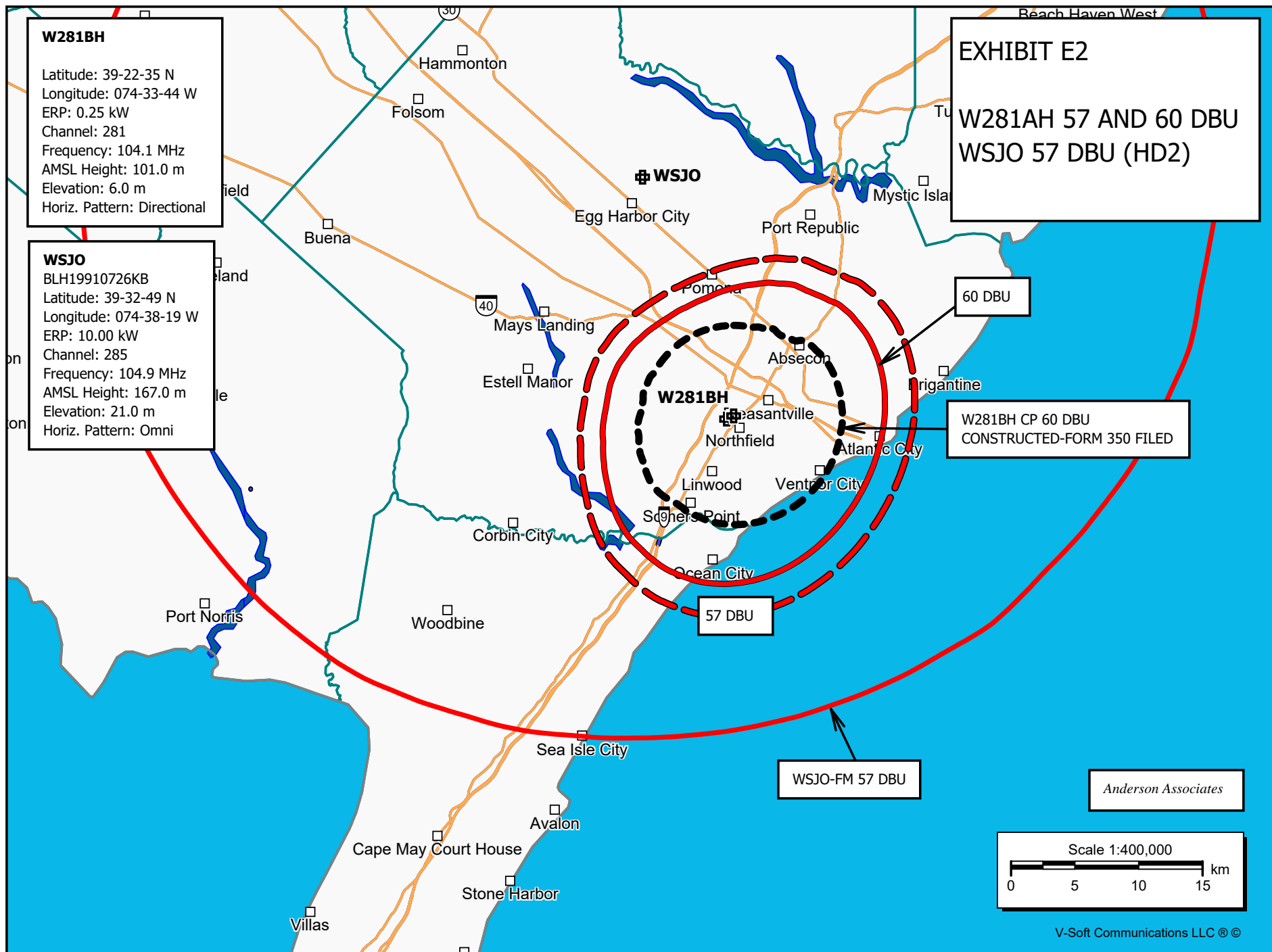


Graph is Relative Field

Azi	Field	dBk	kw
000	0.707	-09.032	0.125
010	0.782	-08.156	0.153
020	0.863	-07.300	0.186
030	0.932	-06.632	0.217
040	0.974	-06.249	0.237
050	0.993	-06.082	0.247
060	0.990	-06.108	0.245
070	0.969	-06.294	0.235
080	0.940	-06.558	0.221
090	0.907	-06.868	0.206
100	0.878	-07.151	0.193
110	0.859	-07.341	0.184
120	0.853	-07.402	0.182
130	0.861	-07.321	0.185
140	0.881	-07.121	0.194
150	0.911	-06.830	0.207
160	0.945	-06.512	0.223
170	0.976	-06.232	0.238
180	0.997	-06.047	0.249
190	1.000	-06.021	0.250
200	0.978	-06.214	0.239
210	0.934	-06.614	0.218
220	0.864	-07.290	0.187
230	0.781	-08.168	0.152
240	0.705	-09.057	0.124
250	0.649	-09.776	0.105
260	0.614	-10.257	0.094
270	0.598	-10.487	0.089
280	0.594	-10.545	0.088
290	0.595	-10.530	0.089
300	0.596	-10.516	0.089
310	0.596	-10.516	0.089
320	0.596	-10.516	0.089
330	0.602	-10.429	0.091
340	0.619	-10.187	0.096
350	0.652	-09.736	0.106



TFC-2K 4 BAY (0.85 WAVELENGTH SPACED) ORIENTED AT 120 DEGREES TRUE. THE PATTERN ABOVE IS AFTER ROTATION. THE MANUFACTURER'S PUBLISHED PATTERN IS APPENDED TO THIS REPORT.





# E3 Registration 1053552

 [Map Registration](#)

## Registration Detail

Reg Number	1053552	Status	Constructed
File Number	A0859218	Constructed	09/06/2003
EMI	No	Dismantled	
NEPA	No		

## Antenna Structure

Structure Type GTOWER - Guyed Structure Used for Communication Purposes

### Location (in NAD83 Coordinates)

Lat/Long	39-22-35.7 N 074-33-42.2 W	Address	BURTON AVE. (000062)
City, State	NORTHFIELD , NJ		
Zip	08225	County	ATLANTIC
Center of AM Array		Position of Tower in Array	

### Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
5.5	107.5
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
113.0	106.6

## Painting and Lighting Specifications

FAA Chapters 4, 8, 12

Paint and Light in Accordance with FAA Circular Number 70/7460-1K

## FAA Notification

FAA Study	2013-AEA-3440-OE	FAA Issue Date	09/11/2013
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## Owner & Contact Information

FRN	0011498342	Owner Entity Type	Limited Liability Company
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### Owner

American Towers, LLC  
Attention To: Regulatory Compliance FAA FCC  
10 Presidential Way  
Woburn , MA 01801

P: (678)564-3236  
F:  
E: faa-fcc@americantower.com

### Contact

Attention To: FAA FCC  
10 Presidential Way  
Woburn , MA 01801

P: (678)564-3236  
F:  
E: faa-fcc@americantower.com

## Last Action Status

Status	Constructed	Received	09/20/2013
Purpose	Notification	Entered	09/20/2013
Mode	Interactive		

## Related Applications

09/20/2013	A0859218	- Notification (NT)
09/20/2013	A0859217	- Modification (MD)
01/15/2013	A0815299	- Change Owner (OC)

## Output from NADCON for station

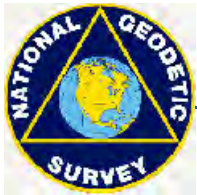
# North American Datum Conversion

NAD 83 to NAD 27

NADCON Program Version 2.11

Transformation #: 1                      Region: Conus

	Latitude	Longitude
NAD 27 datum values:	39 22 35.28108	74 33 43.64186
NAD 83 datum values:	39 22 35.70000	74 33 42.20000
NAD 27 - NAD 83 shift values:	-0.41892	1.44186(secs.)
	-12.919	34.511 (meters)
Magnitude of total shift:		36.850(meters)



**NGS HOME PAGE**

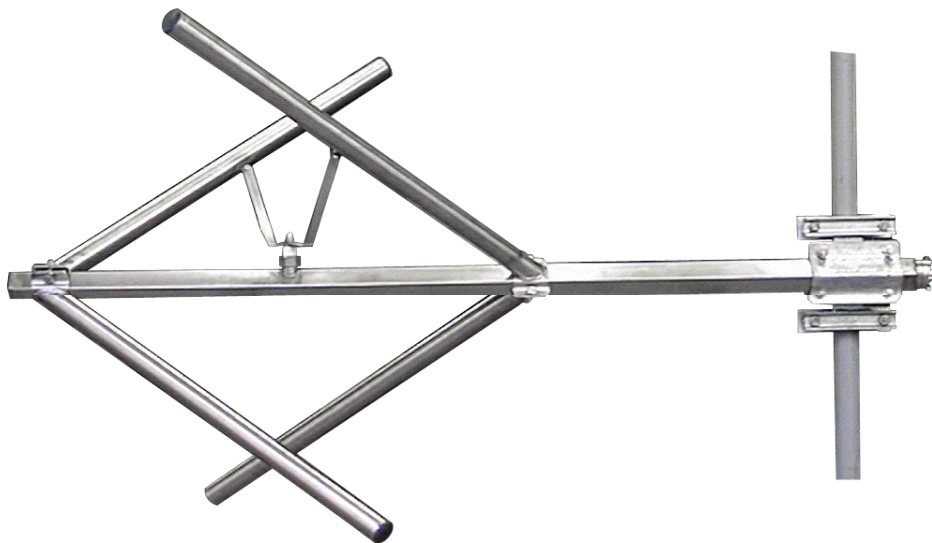
## 4 Bay TFC2K 96.1MHz (%)

**TX station:**

**Site name:**

**Frequency: 96.10 MHz**

**Date: 07/04/2011**

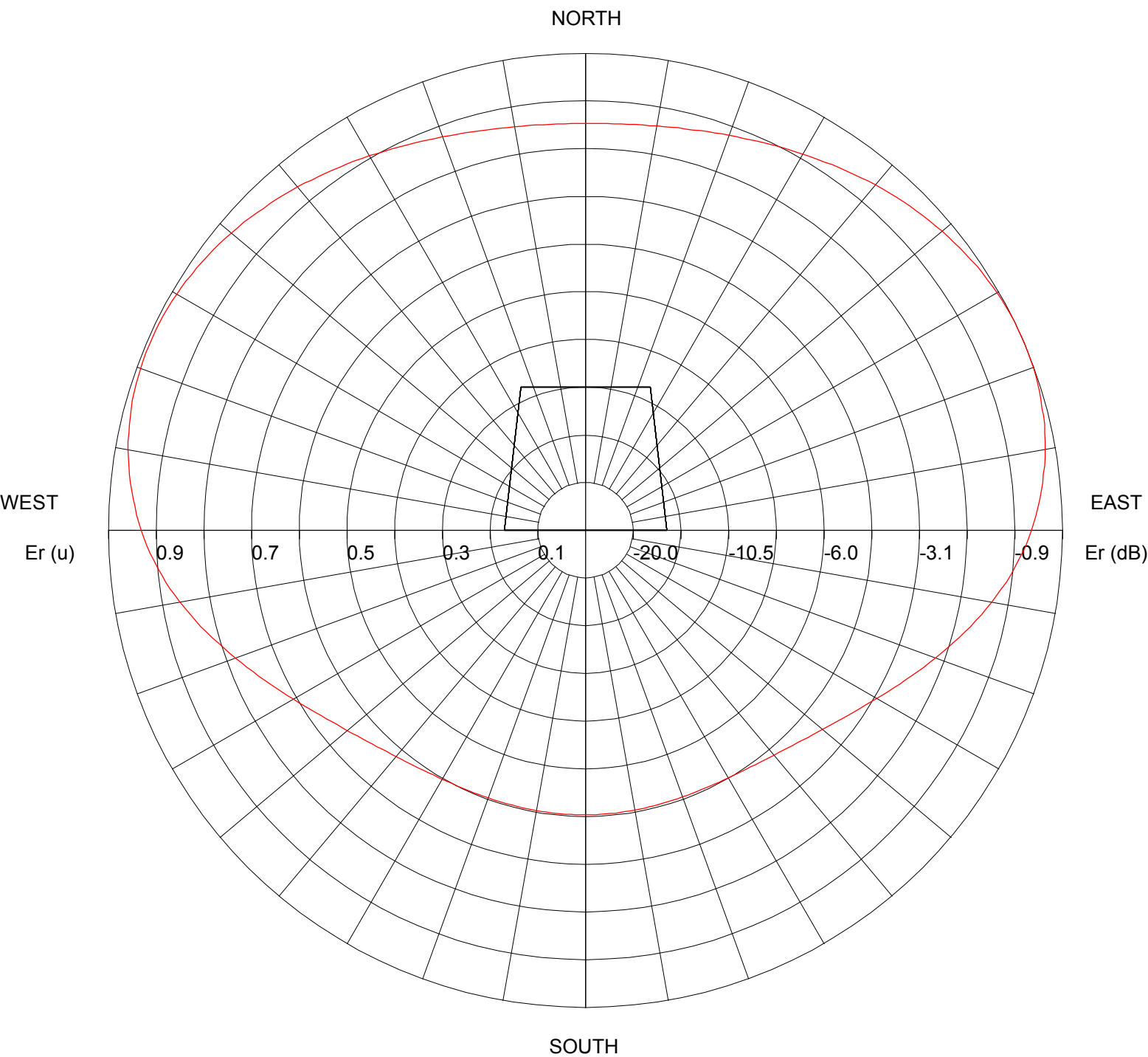


**Geometrical and electrical data of antenna system**

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°/N)	<i>Phase</i> (°)	<i>V dist.</i> (m)	<i>Scr-D</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)	
1	25.000	0	0	0	+0.0	3.90	0.0	0.0	1	1	0.0	0.0
2	25.000	0	0	0	+0.0	1.30	0.0	0.0	1	1	0.0	0.0
3	25.000	0	0	0	+0.0	-1.30	0.0	0.0	1	1	0.0	0.0
4	25.000	0	0	0	+0.0	-3.90	0.0	0.0	1	1	0.0	0.0

Frequency: 96.10 MHz

Horizontal diagram



0.0° Tilt (Total antenna), Gain (dBd): 2.50 ERP T.max (KW): 1.779

Frequency: 96.10 MHz

Horizontal diagram at 0.0° tilt (Total antenna)

Az (°)	Er (%)	ERP (KW)	Az (°)	Er (%)	ERP (KW)	Az (°)	Er (%)	ERP (KW)
0.0	85.3	1.05	60.0	99.7	1.44	120.0	70.5	0.72
1.0	85.3	1.05	61.0	99.8	1.44	121.0	69.8	0.70
2.0	85.3	1.05	62.0	99.8	1.44	122.0	69.1	0.69
3.0	85.4	1.05	63.0	99.9	1.44	123.0	68.6	0.68
4.0	85.4	1.05	64.0	100.0	1.45	124.0	68.0	0.67
5.0	85.5	1.06	65.0	100.0	1.45	125.0	67.4	0.66
6.0	85.6	1.06	66.0	100.0	1.45	126.0	66.8	0.65
7.0	85.7	1.06	67.0	100.0	1.45	127.0	66.3	0.64
8.0	85.8	1.06	68.0	100.0	1.45	128.0	65.8	0.63
9.0	85.9	1.07	69.0	99.9	1.44	129.0	65.3	0.62
10.0	86.1	1.07	70.0	99.9	1.44	130.0	64.9	0.61
11.0	86.2	1.07	71.0	99.8	1.44	131.0	64.4	0.60
12.0	86.4	1.08	72.0	99.7	1.44	132.0	64.0	0.59
13.0	86.6	1.08	73.0	99.5	1.43	133.0	63.6	0.59
14.0	86.7	1.09	74.0	99.3	1.43	134.0	63.2	0.58
15.0	86.9	1.09	75.0	99.1	1.42	135.0	62.9	0.57
16.0	87.2	1.10	76.0	99.0	1.42	136.0	62.6	0.57
17.0	87.4	1.10	77.0	98.7	1.41	137.0	62.2	0.56
18.0	87.6	1.11	78.0	98.4	1.40	138.0	62.0	0.56
19.0	87.9	1.12	79.0	98.2	1.39	139.0	61.7	0.55
20.0	88.1	1.12	80.0	97.8	1.38	140.0	61.4	0.55
21.0	88.4	1.13	81.0	97.5	1.37	141.0	61.2	0.54
22.0	88.6	1.14	82.0	97.2	1.36	142.0	61.0	0.54
23.0	88.9	1.14	83.0	96.7	1.35	143.0	60.8	0.53
24.0	89.2	1.15	84.0	96.4	1.34	144.0	60.6	0.53
25.0	89.5	1.16	85.0	95.9	1.33	145.0	60.5	0.53
26.0	89.8	1.17	86.0	95.5	1.32	146.0	60.3	0.53
27.0	90.2	1.18	87.0	95.0	1.30	147.0	60.2	0.52
28.0	90.5	1.18	88.0	94.5	1.29	148.0	60.1	0.52
29.0	90.8	1.19	89.0	94.0	1.28	149.0	60.0	0.52
30.0	91.1	1.20	90.0	93.4	1.26	150.0	59.8	0.52
31.0	91.4	1.21	91.0	92.9	1.25	151.0	59.8	0.52
32.0	91.7	1.22	92.0	92.3	1.23	152.0	59.7	0.52
33.0	92.0	1.22	93.0	91.6	1.21	153.0	59.6	0.51
34.0	92.5	1.24	94.0	91.0	1.20	154.0	59.6	0.51
35.0	92.8	1.24	95.0	90.3	1.18	155.0	59.5	0.51
36.0	93.1	1.25	96.0	89.6	1.16	156.0	59.5	0.51
37.0	93.4	1.26	97.0	88.9	1.14	157.0	59.5	0.51
38.0	93.8	1.27	98.0	88.0	1.12	158.0	59.4	0.51
39.0	94.2	1.28	99.0	87.2	1.10	159.0	59.4	0.51
40.0	94.5	1.29	100.0	86.4	1.08	160.0	59.4	0.51
41.0	94.8	1.30	101.0	85.6	1.06	161.0	59.4	0.51
42.0	95.2	1.31	102.0	84.8	1.04	162.0	59.4	0.51
43.0	95.5	1.32	103.0	83.9	1.02	163.0	59.4	0.51
44.0	95.8	1.33	104.0	83.2	1.00	164.0	59.4	0.51
45.0	96.2	1.34	105.0	82.3	0.98	165.0	59.4	0.51
46.0	96.4	1.34	106.0	81.4	0.96	166.0	59.4	0.51
47.0	96.7	1.35	107.0	80.6	0.94	167.0	59.4	0.51
48.0	97.1	1.36	108.0	79.8	0.92	168.0	59.5	0.51
49.0	97.3	1.37	109.0	78.9	0.90	169.0	59.5	0.51
50.0	97.6	1.38	110.0	78.1	0.88	170.0	59.5	0.51
51.0	97.8	1.38	111.0	77.2	0.86	171.0	59.5	0.51
52.0	98.1	1.39	112.0	76.4	0.84	172.0	59.5	0.51
53.0	98.3	1.40	113.0	75.6	0.83	173.0	59.5	0.51
54.0	98.5	1.40	114.0	74.8	0.81	174.0	59.6	0.51
55.0	98.7	1.41	115.0	74.0	0.79	175.0	59.5	0.51
56.0	99.0	1.42	116.0	73.3	0.78	176.0	59.6	0.51
57.0	99.2	1.42	117.0	72.6	0.76	177.0	59.6	0.51
58.0	99.3	1.43	118.0	71.9	0.75	178.0	59.6	0.51
59.0	99.4	1.43	119.0	71.1	0.73	179.0	59.6	0.51



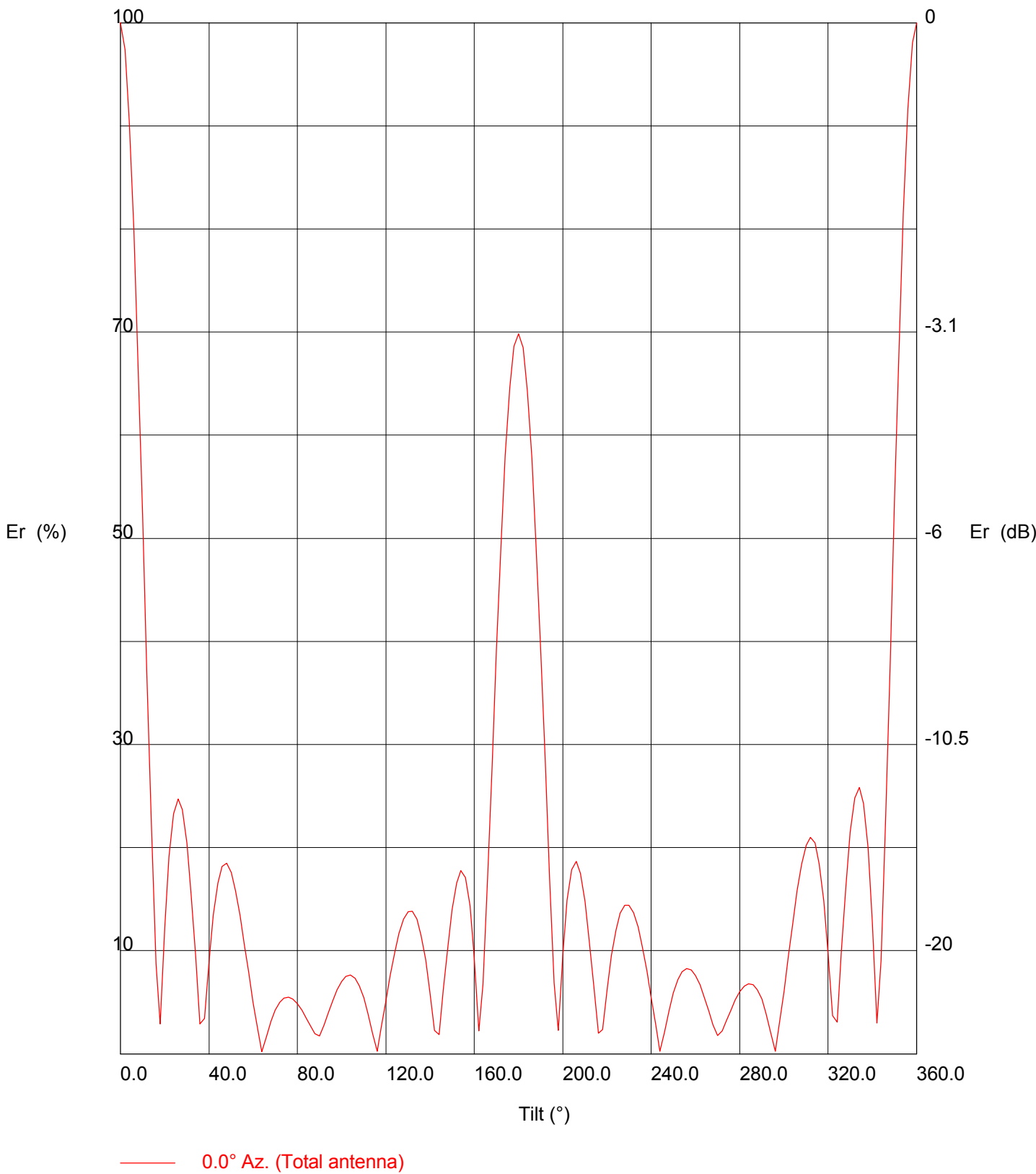
Frequency: 96.10 MHz

Horizontal diagram at 0.0° tilt (Total antenna)

Az (°)	Er (%)	ERP (KW)	Az (°)	Er (%)	ERP (KW)	Az (°)	Er (%)	ERP (KW)
180.0	59.6	0.51	240.0	70.7	0.72	300.0	99.0	1.42
181.0	59.6	0.51	241.0	71.4	0.74	301.0	98.9	1.41
182.0	59.6	0.51	242.0	72.1	0.75	302.0	98.7	1.41
183.0	59.6	0.51	243.0	72.8	0.77	303.0	98.5	1.40
184.0	59.6	0.51	244.0	73.5	0.78	304.0	98.4	1.40
185.0	59.6	0.51	245.0	74.2	0.80	305.0	98.2	1.39
186.0	59.6	0.51	246.0	75.0	0.81	306.0	97.9	1.39
187.0	59.6	0.51	247.0	75.8	0.83	307.0	97.7	1.38
188.0	59.6	0.51	248.0	76.6	0.85	308.0	97.5	1.37
189.0	59.6	0.51	249.0	77.4	0.87	309.0	97.3	1.37
190.0	59.6	0.51	250.0	78.2	0.88	310.0	96.9	1.36
191.0	59.6	0.51	251.0	79.0	0.90	311.0	96.7	1.35
192.0	59.6	0.51	252.0	79.8	0.92	312.0	96.5	1.35
193.0	59.6	0.51	253.0	80.6	0.94	313.0	96.2	1.34
194.0	59.6	0.51	254.0	81.4	0.96	314.0	95.8	1.33
195.0	59.6	0.51	255.0	82.3	0.98	315.0	95.5	1.32
196.0	59.6	0.51	256.0	83.2	1.00	316.0	95.3	1.31
197.0	59.6	0.51	257.0	83.9	1.02	317.0	95.0	1.30
198.0	59.6	0.51	258.0	84.7	1.04	318.0	94.6	1.29
199.0	59.6	0.51	259.0	85.5	1.06	319.0	94.3	1.29
200.0	59.6	0.51	260.0	86.3	1.08	320.0	94.0	1.28
201.0	59.7	0.51	261.0	87.1	1.10	321.0	93.6	1.27
202.0	59.7	0.52	262.0	87.9	1.12	322.0	93.2	1.26
203.0	59.7	0.52	263.0	88.7	1.14	323.0	92.9	1.25
204.0	59.8	0.52	264.0	89.4	1.15	324.0	92.6	1.24
205.0	59.8	0.52	265.0	90.1	1.17	325.0	92.3	1.23
206.0	59.9	0.52	266.0	90.8	1.19	326.0	91.9	1.22
207.0	59.9	0.52	267.0	91.4	1.21	327.0	91.6	1.21
208.0	60.0	0.52	268.0	92.0	1.22	328.0	91.3	1.21
209.0	60.1	0.52	269.0	92.6	1.24	329.0	91.0	1.20
210.0	60.2	0.52	270.0	93.2	1.26	330.0	90.7	1.19
211.0	60.3	0.53	271.0	93.6	1.27	331.0	90.3	1.18
212.0	60.4	0.53	272.0	94.2	1.28	332.0	89.9	1.17
213.0	60.5	0.53	273.0	94.6	1.29	333.0	89.7	1.16
214.0	60.7	0.53	274.0	95.1	1.31	334.0	89.4	1.16
215.0	60.8	0.54	275.0	95.5	1.32	335.0	89.1	1.15
216.0	61.0	0.54	276.0	95.9	1.33	336.0	88.8	1.14
217.0	61.2	0.54	277.0	96.4	1.34	337.0	88.5	1.13
218.0	61.4	0.54	278.0	96.7	1.35	338.0	88.3	1.13
219.0	61.6	0.55	279.0	97.1	1.36	339.0	88.0	1.12
220.0	61.9	0.55	280.0	97.4	1.37	340.0	87.8	1.11
221.0	62.1	0.56	281.0	97.7	1.38	341.0	87.5	1.11
222.0	62.4	0.56	282.0	97.9	1.39	342.0	87.3	1.10
223.0	62.6	0.57	283.0	98.2	1.39	343.0	87.1	1.10
224.0	63.0	0.57	284.0	98.4	1.40	344.0	86.9	1.09
225.0	63.3	0.58	285.0	98.6	1.41	345.0	86.7	1.09
226.0	63.6	0.59	286.0	98.9	1.41	346.0	86.5	1.08
227.0	64.0	0.59	287.0	99.0	1.42	347.0	86.3	1.08
228.0	64.4	0.60	288.0	99.1	1.42	348.0	86.2	1.07
229.0	64.8	0.61	289.0	99.2	1.42	349.0	86.0	1.07
230.0	65.2	0.62	290.0	99.3	1.43	350.0	85.9	1.07
231.0	65.7	0.62	291.0	99.4	1.43	351.0	85.8	1.06
232.0	66.1	0.63	292.0	99.4	1.43	352.0	85.7	1.06
233.0	66.6	0.64	293.0	99.4	1.43	353.0	85.6	1.06
234.0	67.2	0.65	294.0	99.4	1.43	354.0	85.5	1.06
235.0	67.7	0.66	295.0	99.4	1.43	355.0	85.4	1.05
236.0	68.3	0.67	296.0	99.4	1.43	356.0	85.4	1.05
237.0	68.9	0.69	297.0	99.3	1.43	357.0	85.3	1.05
238.0	69.5	0.70	298.0	99.2	1.42	358.0	85.3	1.05
239.0	70.1	0.71	299.0	99.2	1.42	359.0	85.3	1.05

Frequency: 96.10 MHz

Vertical diagram



Frequency: 96.10 MHz

Vertical diagram at an azimuth of 0°

Dep (°)	Er (%)	ERP (KW)	Dep (°)	Er (%)	ERP (KW)	Dep (°)	Er (%)	ERP (KW)
0.0	100.0	1.05	120.0	5.2	0.00	240.0	5.5	0.00
2.0	97.4	1.00	122.0	7.6	0.01	242.0	2.9	0.00
4.0	90.5	0.86	124.0	9.8	0.01	244.0	0.3	0.00
6.0	80.0	0.67	126.0	11.7	0.01	246.0	2.1	0.00
8.0	66.9	0.47	128.0	13.1	0.02	248.0	4.2	0.00
10.0	52.2	0.29	130.0	13.8	0.02	250.0	5.9	0.00
12.0	37.0	0.14	132.0	13.8	0.02	252.0	7.2	0.01
14.0	22.2	0.05	134.0	13.1	0.02	254.0	8.0	0.01
16.0	8.8	0.01	136.0	11.5	0.01	256.0	8.3	0.01
18.0	2.9	0.00	138.0	9.1	0.01	258.0	8.2	0.01
20.0	12.3	0.02	140.0	6.0	0.00	260.0	7.6	0.01
22.0	19.1	0.04	142.0	2.3	0.00	262.0	6.7	0.00
24.0	23.3	0.06	144.0	1.9	0.00	264.0	5.5	0.00
26.0	24.7	0.06	146.0	6.2	0.00	266.0	4.1	0.00
28.0	23.7	0.06	148.0	10.4	0.01	268.0	2.8	0.00
30.0	20.4	0.04	150.0	14.0	0.02	270.0	1.8	0.00
32.0	15.5	0.03	152.0	16.6	0.03	272.0	2.2	0.00
34.0	9.4	0.01	154.0	17.8	0.03	274.0	3.2	0.00
36.0	2.9	0.00	156.0	17.1	0.03	276.0	4.3	0.00
38.0	3.4	0.00	158.0	14.4	0.02	278.0	5.2	0.00
40.0	9.0	0.01	160.0	9.4	0.01	280.0	6.0	0.00
42.0	13.5	0.02	162.0	2.2	0.00	282.0	6.6	0.00
44.0	16.6	0.03	164.0	6.8	0.00	284.0	6.8	0.00
46.0	18.2	0.03	166.0	17.1	0.03	286.0	6.7	0.00
48.0	18.5	0.04	168.0	28.1	0.08	288.0	6.2	0.00
50.0	17.6	0.03	170.0	39.1	0.16	290.0	5.3	0.00
52.0	15.8	0.03	172.0	49.3	0.26	292.0	3.9	0.00
54.0	13.4	0.02	174.0	58.0	0.35	294.0	2.0	0.00
56.0	10.7	0.01	176.0	64.6	0.44	296.0	0.3	0.00
58.0	7.8	0.01	178.0	68.6	0.50	298.0	3.0	0.00
60.0	5.0	0.00	180.0	69.8	0.51	300.0	6.1	0.00
62.0	2.5	0.00	182.0	68.5	0.49	302.0	9.4	0.01
64.0	0.2	0.00	184.0	64.3	0.44	304.0	12.7	0.02
66.0	1.7	0.00	186.0	57.7	0.35	306.0	15.8	0.03
68.0	3.1	0.00	188.0	49.2	0.25	308.0	18.4	0.04
70.0	4.3	0.00	190.0	39.1	0.16	310.0	20.2	0.04
72.0	5.0	0.00	192.0	28.2	0.08	312.0	21.0	0.05
74.0	5.4	0.00	194.0	17.3	0.03	314.0	20.5	0.04
76.0	5.5	0.00	196.0	6.9	0.00	316.0	18.4	0.04
78.0	5.3	0.00	198.0	2.3	0.00	318.0	14.8	0.02
80.0	4.9	0.00	200.0	9.7	0.01	320.0	9.8	0.01
82.0	4.2	0.00	202.0	14.9	0.02	322.0	3.7	0.00
84.0	3.5	0.00	204.0	17.9	0.03	324.0	3.1	0.00
86.0	2.7	0.00	206.0	18.7	0.04	326.0	10.0	0.01
88.0	2.0	0.00	208.0	17.5	0.03	328.0	16.3	0.03
90.0	1.7	0.00	210.0	14.8	0.02	330.0	21.5	0.05
92.0	2.8	0.00	212.0	11.0	0.01	332.0	24.8	0.06
94.0	4.0	0.00	214.0	6.6	0.00	334.0	25.8	0.07
96.0	5.2	0.00	216.0	2.0	0.00	336.0	24.3	0.06
98.0	6.2	0.00	218.0	2.4	0.00	338.0	19.9	0.04
100.0	7.0	0.01	220.0	6.3	0.00	340.0	12.8	0.02
102.0	7.5	0.01	222.0	9.5	0.01	342.0	3.0	0.00
104.0	7.6	0.01	224.0	12.0	0.02	344.0	9.1	0.01
106.0	7.3	0.01	226.0	13.6	0.02	346.0	23.1	0.06
108.0	6.6	0.00	228.0	14.4	0.02	348.0	38.2	0.15
110.0	5.5	0.00	230.0	14.4	0.02	350.0	53.7	0.30
112.0	3.9	0.00	232.0	13.7	0.02	352.0	68.5	0.49
114.0	2.0	0.00	234.0	12.3	0.02	354.0	81.5	0.70
116.0	0.3	0.00	236.0	10.4	0.01	356.0	91.6	0.88
118.0	2.7	0.00	238.0	8.1	0.01	358.0	98.0	1.01