

**Page 1**  
**Ritmo Broadcasting, LLC.**  
**Identification of Facilities**  
**Millville, NJ**

CALL FORMAT LATITUDE	ST	CITY ARN LONGITUDE	FREQ OWNER HAAT:m AMSL:m	CHN	CL	ERP	STAT
Proposed	NJ	MILLVILLE	104.10000		D	100.00	CP MOD
Unknown or New	CP	0000099548	RITMO BROADCASTING, LLC.				
39-27-31.9 N		75-12-10.5 W	129.035 152.000				
<b>W289BY</b>	NJ	MILLVILLE	105.70000		D	55.00	LIC
Unknown or New	CP	BLFT-20161012AAQ	RITMO BROADCASTING, LLC.				
39-25-19.4 N		75-01-16.6 W	51.009 72.000				
<b>W289BY</b>	NJ	MILLVILLE	104.10000		D	175.00	CP MOD
Unknown or New	CP	0000099548	RITMO BROADCASTING, LLC.				
39-27-31.9 N		75-12-10.5 W	149.035 172.000				
WRFF	PA	PHILADELPHIA	104.50000		B	11500.00	LIC
Unknown or New	CP	BMLH-20090513AAG	AMFM RADIO LICENSES, L.L.C.				
40-02-30.4 N		75-14-22.6 W	290.406 376.000				
W281BH	NJ	ABSECON	104.10000		D	250.00	LIC
Unknown or New	CP	BLFT-20181231AAP	HOPE CHRISTIAN CHURCH OF MARLTON, INC.				
39-22-35.4 N		74-33-42.6 W	96.094 101.000				
WMGM	NJ	ATLANTIC CITY	103.70000		B	50000.00	LIC
Unknown or New	CP	BLH-19971121KA	LONGPORT MEDIA, LLC				
39-23-24.4 N		74-30-43.5 W	107.356 112.000				
W279CN	NJ	CHERRY HILL	104.10000		D	40.00	LIC
Unknown or New	CP	0000099038	PRIORITY RADIO, INC.				
39-48-44.2 N		74-55-31.8 W	75.314 102.700				
WAEB-FM	PA	ALLENTOWN	104.10000		B	50000.00	LIC
Unknown or New	CP	BLH-7006	CAPSTAR TX, LLC				
40-43-13.3 N		75-35-42.6 W	139.096 353.000				
WXY	MD	HAVRE DE GRACE	103.70000		B	37000.00	LIC
Unknown or New	CP	BLH-20021015ABT	FM RADIO LICENSES, LLC				
39-33-52.4 N		76-06-05.8 W	157.515 217.000				
WXY	MD	HAVRE DE GRACE	103.70000		B	39000.00	CP MOD
Unknown or New	CP	BPH-20160309ABL	FM RADIO LICENSES, LLC				
39-33-55.4 N		76-07-06.8 W	161.496 220.500				
WPHI-FM	PA	JENKINTOWN	103.90000		A	270.00	LIC
Unknown or New	CP	BLH-20070111AAX	RADIO ONE LICENSES, LLC				
40-02-30.0 N		75-14-10.0 W	314.517 403.000				

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W228EH NJ LAKEWOOD TOWNSHIP 104.10000 D 225.00 LIC  
 Unknown or New CP 0000094164 TOWNSQUARE MEDIA MONMOUTH-OCEAN LICENSE, LLC  
 39-52-31.4 N 74-09-55.8 W 141.777 149.000

WPRS-FM MD WALDORF 104.10000 B 20000.00 LIC  
 Unknown or New CP BMLH-20070809ABE RADIO ONE LICENSES, LLC  
 38-37-07.8 N 76-50-37.9 W 240.556 295.000

WZFT MD BALTIMORE 104.30000 B 13000.00 LIC  
 Unknown or New CP BLH-20090123AAG CITICASTERS LICENSES, INC.  
 39-20-10.4 N 76-38-57.9 W 288.264 378.000

WNNK-FM PA HARRISBURG 104.10000 B 22500.00 LIC  
 Unknown or New CP BMLH-20050804ADH CUMULUS LICENSING LLC  
 40-18-59.3 N 76-57-02.9 W 171.980 379.000

W281BI NJ TRENTON 104.10000 D 250.00 LIC  
 Unknown or New CP BLFT-20160930ABF AMFM RADIO LICENSES, L.L.C.  
 40-16-37.1 N 74-49-32.4 W 46.620 98.000

WQHQ MD OCEAN CITY-SALISBURY 104.70000 B 33000.00 LIC  
 Unknown or New CP BLH-19800505AB CAPSTAR TX, LLC  
 38-23-15.4 N 75-17-28.6 W 180.925 189.000

W278AK PA VILLAGE GREEN 103.50000 D 80.00 LIC  
 Unknown or New CP BLFT-19980402TE PRIORITY RADIO, INC.  
 39-50-07.4 N 75-25-23.7 W 72.157 122.000

W280CP PA WAGONTOWN 103.90000 D 5.00 LIC  
 Unknown or New CP BLFT-19871026TB WDAC RADIO COMPANY  
 40-00-44.3 N 75-50-32.8 W -8.903 177.000

WAXQ NY NEW YORK 104.30000 B 6000.00 LIC  
 Unknown or New CP BLH-19960426KA AMFM RADIO LICENSES, L.L.C.  
 40-44-54.3 N 73-59-08.5 W 412.708 429.000

WOCQ MD BERLIN 103.90000 A 6000.00 LIC  
 Unknown or New CP BLH-19980630KF ADAMS RADIO OF DELMARVA PENINSULA, LLC  
 38-22-58.4 N 75-18-56.7 W 102.029 111.000

WTOP-FM DC WASHINGTON 103.50000 B 44000.00 LIC  
 Unknown or New CP BMLH-20110215ABQ WASHINGTON DC FCC LICENSE SUB, LLC  
 38-56-10.4 N 77-05-31.9 W 150.733 228.000

WTOP-FM DC WASHINGTON 103.50000 B 44000.00 LIC  
 Unknown or New CP 0000108449 WASHINGTON DC FCC LICENSE SUB, LLC  
 38-56-10.4 N 77-05-31.9 W 150.352 228.000

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**Ritmo Broadcasting, LLC.**  
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**Millville, NJ**

W282AW MD SALISBURY 104.30000 D 250.00 LIC  
 Unknown or New CP BLFT-20170501AAH ADAMS RADIO OF DELMARVA PENINSULA, LLC  
 38-23-09.4 N 75-35-30.7 W 132.830 143.000

W284BE MD HAVRE DE GRACE 104.70000 D 250.00 LIC  
 Unknown or New CP BLFT-20151013AEM HOPE CHRISTIAN CHURCH OF MARLTON, INC.  
 39-33-52.4 N 76-06-05.8 W 130.113 207.000

WJKI-FM DE BETHANY BEACH 103.50000 A 1450.00 LIC  
 Unknown or New CP BLH-19960611KA THE VOICE RADIO, LLC  
 38-34-21.4 N 75-06-56.6 W 145.834 148.000

WKTU NY LAKE SUCCESS 103.50000 B 6000.00 LIC  
 Unknown or New CP BLH-20030604ACH AMFM RADIO LICENSES, L.L.C.  
 40-44-54.4 N 73-59-08.5 W 412.867 429.000

WAYZ MD HAGERSTOWN 104.70000 B 8300.00 LIC  
 Unknown or New CP BLH-19900814KF HJV LIMITED PARTNERSHIP  
 39-41-47.3 N 77-30-45.9 W 400.752 720.000

WCNM NJ HAZLET 103.90000 D 10.00 LIC  
 Unknown or New CP BLED-20130702ACK CANTICO NUEVO MINISTRY, INC.  
 40-22-55.6 N 74-12-37.7 W 76.645 112.200

WMMR PA PHILADELPHIA 93.30000 B 16500.00 LIC  
 Unknown or New CP BMLH-20061205ADU BEASLEY MEDIA GROUP LICENSES, LLC  
 39-57-09.4 N 75-10-03.6 W 260.194 292.000

WMMR PA PHILADELPHIA 93.30000 B 25000.00 LIC  
 Unknown or New CP BMLH-19931004KB BEASLEY MEDIA GROUP LICENSES, LLC  
 39-57-06.4 N 75-09-37.6 W 200.170 232.000

WJBR-FM DE WILMINGTON 99.50000 B 50000.00 LIC  
 Unknown or New CP BMLH-20080516AAX BEASLEY MEDIA GROUP LICENSES, LLC  
 39-50-02.4 N 75-31-25.7 W 158.583 221.000

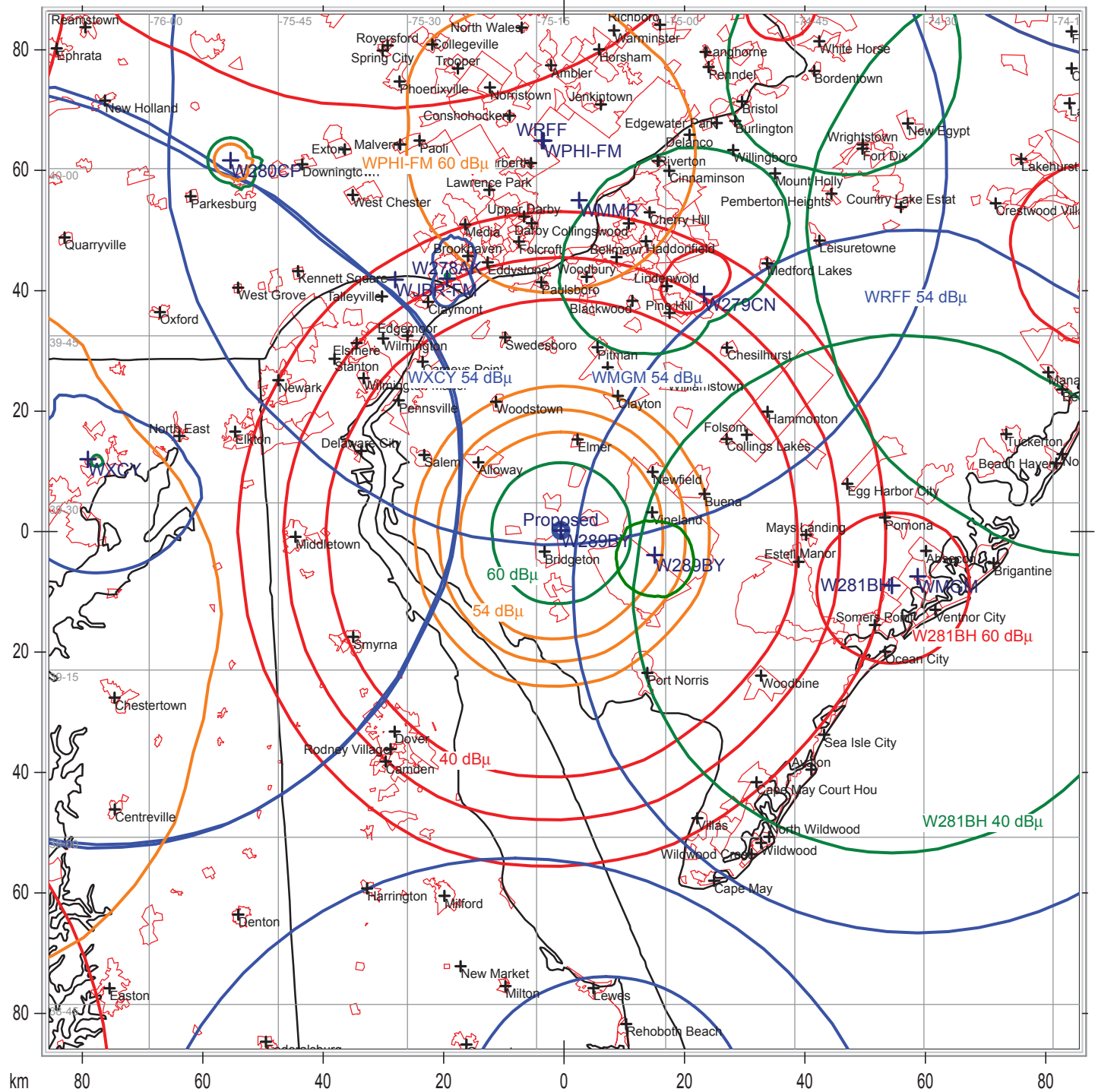
**Terrain Data is calculated using USGS 3 ARC second Data.**

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**Ritmo Broadcasting, LLC.**  
**Interference Area**  
**Millville, NJ**

The proposed translator will broadcast on 281, which is within the 54 dBu contour of second adjacent station WRFF on channel 283. The WRFF interfering contour at the translator site is 55.0 dBu F(50,50). Using the ratio of 100:1 (translator to WRFF) on the second adjacent channels, the population within the proposed translator 95.0 dBu contour is zero. Applying the antenna manufacturer's vertical radiation pattern the area of interference is able to be more accurately calculated geometrically than just by using the free space equation alone. This particular antenna is a six bay full-wave spaced PSI FML. It was determined from the manufacturer's vertical plan that at 50 degrees and from 60 degrees to 80 degrees below horizontal the interference area would reach the ground and extend 125.9 meters horizontally. We have proposed the antenna radiation center will be 121 meters above ground with an Effective Radiated Power of 100 watts. There are no occupied structures or elevated roadways within the interference area of the translator.

Therefore, the application is in compliance with the following: §74.1204 (d) "The provisions of this section concerning prohibited overlap will not apply where the area of such overlap lies entirely over water. In addition, an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable."

# Allocation Study



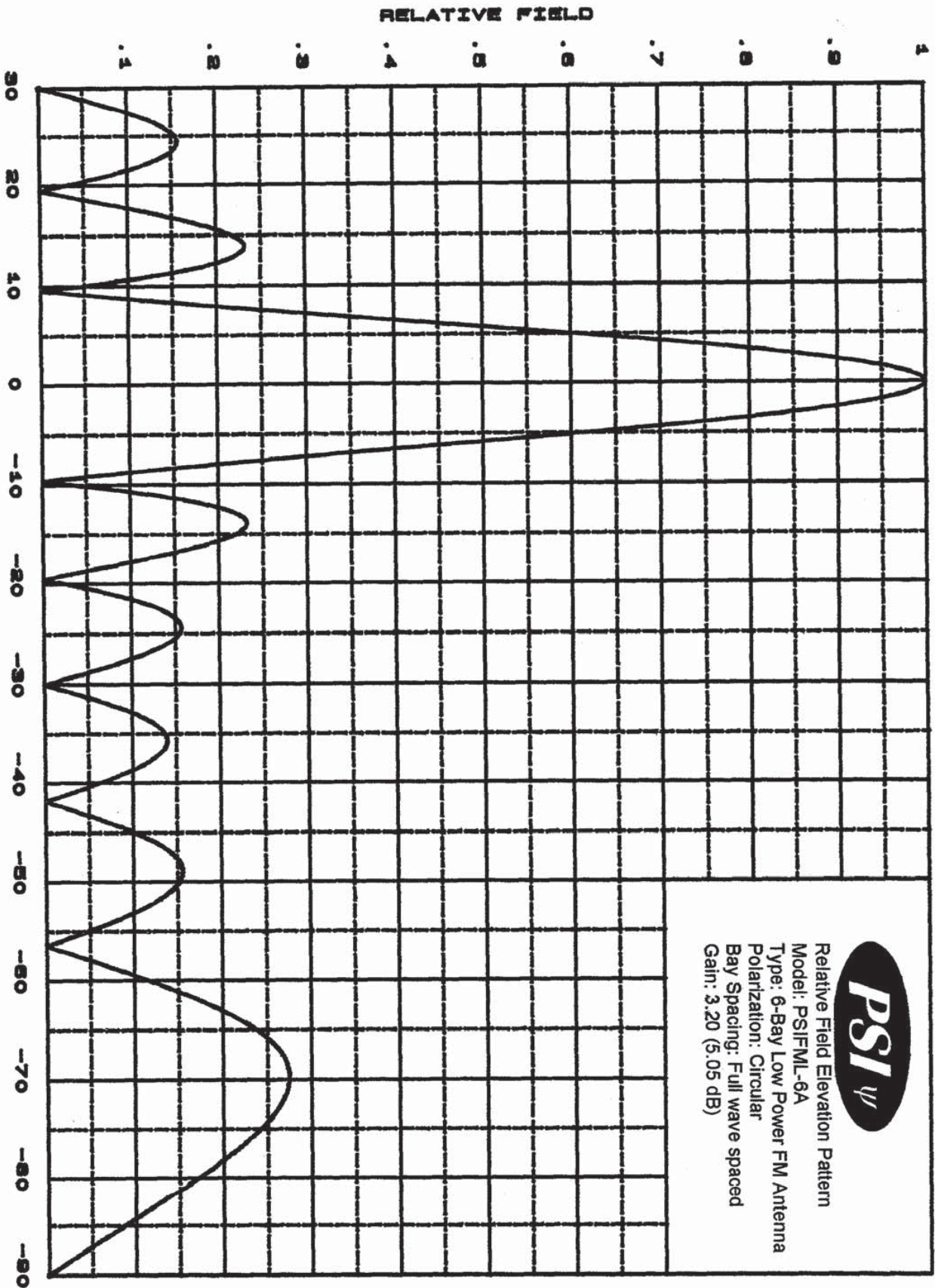
**Figure 1**  
**Ritmo Broadcasting, LLC.**  
**Allocation Study**  
**Millville, NJ**

State Borders City Borders Lat/Lon Grid

**Figure 2**  
**Minimum Ground Clearance**

Depression Angle Below Horizontal	Antenna Relative Field	ERP (Watts)	Distance to interfering Contour from Antenna (m)	Horizontal Distance of Interfering contour from tower (m)	Vertical Clearance of Interfering contour above TGL (m)
5	0.612	37.5	764	761.1	54.4
10	0.042	0.2	56	55.1	111.3
15	0.218	4.8	273	263.7	50.3
20	0.029	0.1	39	36.6	107.7
25	0.155	2.4	193	174.9	39.4
30	0.001	0.0	0	0.0	121.0
35	0.138	1.9	172	140.9	22.3
40	0.061	0.4	79	60.5	70.2
45	0.102	1.0	125	88.4	32.6
50	0.152	2.3	189	121.5	-23.8
55	0.047	0.2	56	32.1	75.1
60	0.118	1.4	148	74.0	-7.3
65	0.239	5.7	298	125.9	149.1
70	0.275	7.6	344	117.7	202.3
75	0.242	5.9	303	78.7	-172.6
80	0.171	2.9	212	36.8	-87.8
85	0.087	0.8	112	9.8	9.4
90	0.001	0.0	0	0.0	121.0
Minimum Clearance above TGL:					0

DEGREES BELOW HORIZONTAL





**Propagation Systems Inc.**  
**Elevation Pattern Tabulation**  
**Antenna: PSIFML-6A**  
**Bay spacing: Fullwave**

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-90.0	0.001	-60.000	-50.0	0.152	-16.339	-10.0	0.042	-27.604
-89.0	0.017	-35.177	-49.0	0.156	-16.117	-9.0	0.067	-23.542
-88.0	0.035	-29.156	-48.0	0.153	-16.296	-8.0	0.193	-14.301
-87.0	0.052	-25.634	-47.0	0.143	-16.901	-7.0	0.331	-9.610
-86.0	0.070	-23.136	-46.0	0.126	-18.009	-6.0	0.473	-6.499
-85.0	0.087	-21.213	-45.0	0.102	-19.792	-5.0	0.612	-4.263
-84.0	0.104	-19.639	-44.0	0.074	-22.622	-4.0	0.740	-2.619
-83.0	0.121	-18.318	-43.0	0.042	-27.636	-3.0	0.848	-1.432
-82.0	0.138	-17.181	-42.0	0.007	-43.136	-2.0	0.931	-0.625
-81.0	0.155	-16.193	-41.0	0.028	-31.047	-1.0	0.982	-0.155
-80.0	0.171	-15.322	-40.0	0.061	-24.242	0.0	1.000	0.000
-79.0	0.187	-14.558	-39.0	0.091	-20.828	1.0	0.982	-0.154
-78.0	0.202	-13.881	-38.0	0.115	-18.786	2.0	0.931	-0.625
-77.0	0.217	-13.290	-37.0	0.132	-17.610	3.0	0.848	-1.430
-76.0	0.230	-12.771	-36.0	0.140	-17.106	4.0	0.740	-2.617
-75.0	0.242	-12.325	-35.0	0.138	-17.210	5.0	0.612	-4.259
-74.0	0.253	-11.952	-34.0	0.126	-17.968	6.0	0.473	-6.497
-73.0	0.261	-11.655	-33.0	0.105	-19.551	7.0	0.331	-9.606
-72.0	0.268	-11.431	-32.0	0.076	-22.377	8.0	0.193	-14.294
-71.0	0.273	-11.281	-31.0	0.040	-27.926	9.0	0.067	-23.522
-70.0	0.275	-11.218	-30.0	0.001	-60.000	10.0	0.042	-27.636
-69.0	0.274	-11.242	-29.0	0.041	-27.764	11.0	0.127	-17.895
-68.0	0.270	-11.363	-28.0	0.080	-21.922	12.0	0.188	-14.508
-67.0	0.263	-11.595	-27.0	0.114	-18.843	13.0	0.223	-13.045
-66.0	0.253	-11.952	-26.0	0.140	-17.087	14.0	0.232	-12.691
-65.0	0.239	-12.445	-25.0	0.155	-16.219	15.0	0.218	-13.212
-64.0	0.221	-13.110	-24.0	0.156	-16.126	16.0	0.186	-14.607
-63.0	0.200	-13.979	-23.0	0.144	-16.846	17.0	0.140	-17.096
-62.0	0.176	-15.109	-22.0	0.118	-18.594	18.0	0.085	-21.427
-61.0	0.148	-16.575	-21.0	0.078	-22.104	19.0	0.027	-31.481
-60.0	0.118	-18.538	-20.0	0.029	-30.680	20.0	0.029	-30.725
-59.0	0.086	-21.273	-19.0	0.027	-31.481	21.0	0.078	-22.121
-58.0	0.053	-25.510	-18.0	0.085	-21.443	22.0	0.117	-18.605
-57.0	0.019	-34.315	-17.0	0.140	-17.096	23.0	0.144	-16.846
-56.0	0.014	-36.928	-16.0	0.186	-14.607	24.0	0.156	-16.126
-55.0	0.047	-26.648	-15.0	0.218	-13.212	25.0	0.155	-16.219
-54.0	0.076	-22.342	-14.0	0.232	-12.691	26.0	0.140	-17.087
-53.0	0.103	-19.753	-13.0	0.223	-13.045	27.0	0.114	-18.843
-52.0	0.125	-18.062	-12.0	0.188	-14.508	28.0	0.080	-21.905
-51.0	0.142	-16.975	-11.0	0.128	-17.885	29.0	0.041	-27.764



**Figure 4 Page 1**  
**Aerial Photo of the 125.9 Meter Vicinity Surrounding the Proposed Tower Site**





Figure 4 Page 2  
USGS Quadrangle Photo of the 125.9 Meter Vicinity Surrounding the Proposed Tower Site

