

Exhibit 13.1 - Copy of Existing Antenna Structure Registration



Registration Detail

Reg Number	1036004	Status	Constructed
File Number	A1033813	Constructed	12/01/1984
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type

Location (in NAD83 Coordinates)

Lat/Long	38-22-58.0 N 075-18-57.0 W	Address	11210 BELL RD
City, State	WHALEYVILLE , MD		
Zip	21872	County	WORCESTER
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	9.1	Overall Height Above Ground (AGL)	106.1
Overall Height Above Mean Sea Level	115.2	Overall Height Above Ground w/o Appurtenances	96.0

Painting and Lighting Specifications

FCC Paragraphs 1, 3, 12, 21

FAA Notification

FAA Study	84-AEA-0956-OE	FAA Issue Date	05/15/1984
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Owner & Contact Information

FRN	0023816143	Owner Entity Type	Limited Liability Company
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Owner

Clearview Tower Company II, LLC
26 Yolanda Drive
Edison , NJ 08817

P: (732)744-0652
F:
E: smejia@clearviewtower.net

Contact

Mejia , Steven
26 Yolanda Drive
Edison , NJ 08817

P: (732)744-0652
F:
E: smejia@clearviewtower.net

Last Action Status

Status	Constructed	Received	06/01/2016
Purpose	Notification	Entered	06/01/2016
Mode	Interactive		

Related Applications

06/01/2016	A1033813 - Notification (NT)
06/01/2016	A1033812 - Change Owner (OC)
03/24/2015	A0939133 - Change Owner (OC)

Related applications (5)

Comments

Comments

04/03/1998	OWNERSHIP INFO UPDATED AS A RESULT OF MOD OF 'O' APPLICATION PROCESSED
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History

Date	Event
06/02/2016	Registration Printed
06/02/2016	Change of Ownership Letter Sent
06/01/2016	Construction Notification Received
All History (10)	

Automated Letters

06/02/2016	Authorization, Reference
06/02/2016	Ownership Change, Reference 915417
03/29/2016	Construction Reminder, Reference 907604
All letters (6)	

Exhibit 13.2

Vertical Plan of Antenna System

THE SITE IS LOCATED AT 11210 BELL ROAD;
THE CITY OF WHALEYVILLE; WORCESTER COUNTY; THE STATE OF MARYLAND.

Antenna Structure Registration No.

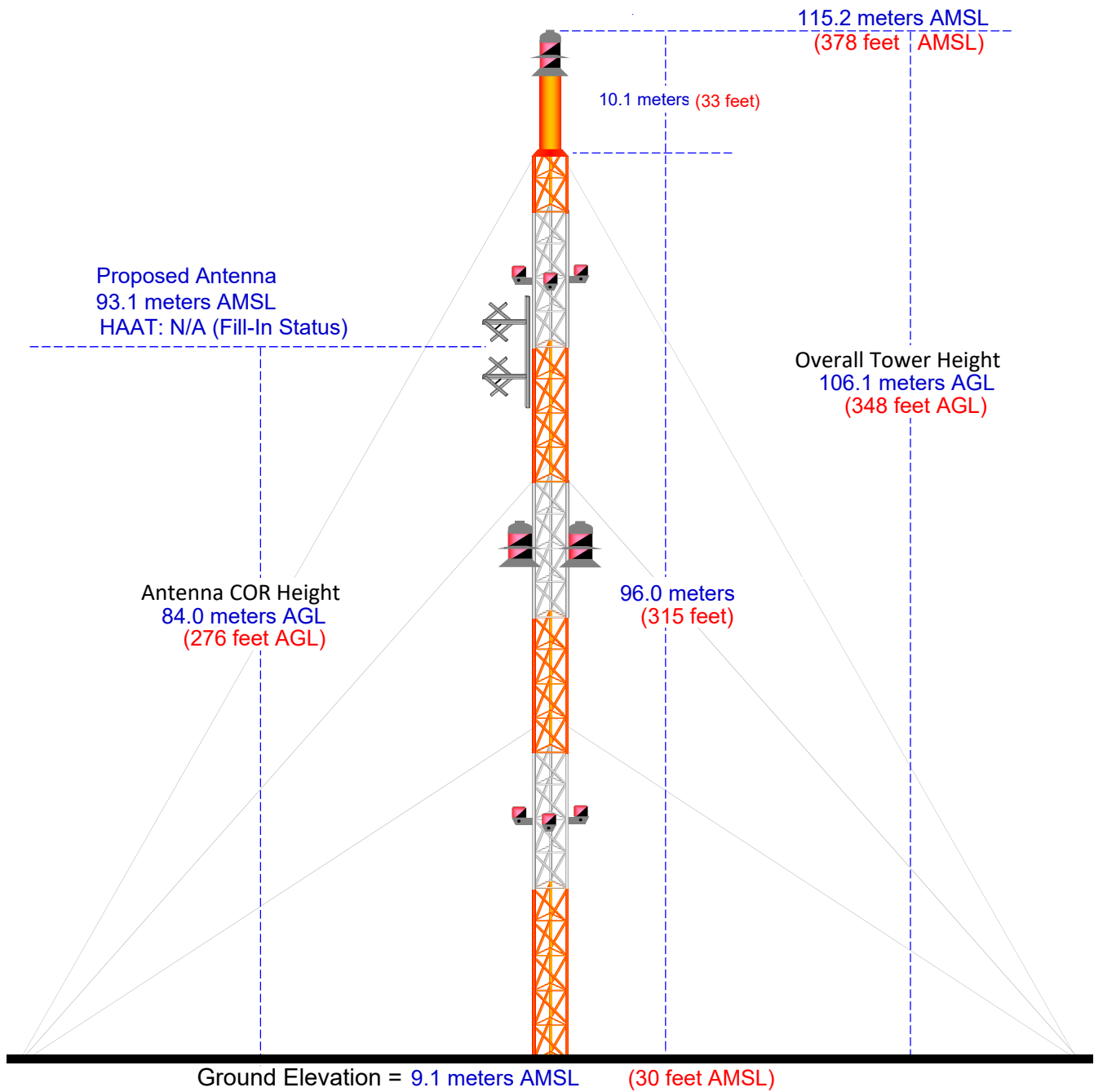
1036004

Latitude (D M S)

Longitude (D M S)

NAD 27 datum values: 38 22 57.58404 75 18 58.30740

NAD 83 datum values: 38 22 58.00000 75 18 57.00000



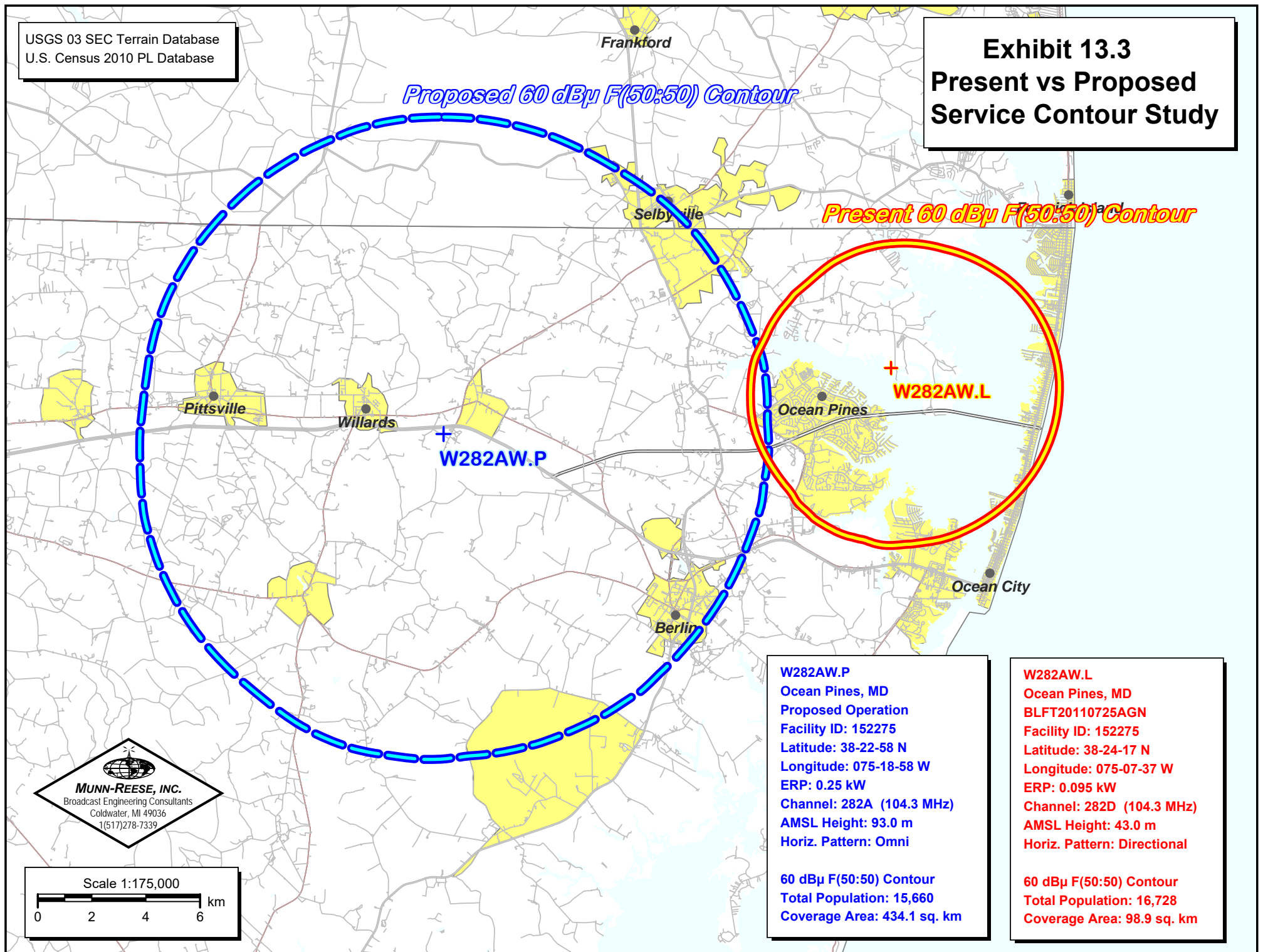
Drawing is not to Scale

Munn-Reese

Broadcast Engineering Consultants
Coldwater, MI 49036

USGS 03 SEC Terrain Database
U.S. Census 2010 PL Database

Exhibit 13.3 Present vs Proposed Service Contour Study



Sussex

Primary 60 dBμ F(50:50) Contour

Proposed 60 dBμ F(50:50) Contour

Wicomico

Worcester

+
WOCQ(FM)
W282AW.P

Exhibit 13.4 Proposed vs Primary Service Contour Study

WOCQ(FM)
Berlin, MD
BLH19980630KF
Facility ID: 47107
Latitude: 38-22-58 N
Longitude: 075-18-58 W
ERP: 6.00 kW
Channel: 280A (103.9 MHz)
AMSL Height: 111.0 m
Horiz. Pattern: Omni

W282AW.P
Ocean Pines, MD
Proposed Operation
Facility ID: 152275
Latitude: 38-22-58 N
Longitude: 075-18-58 W
ERP: 0.25 kW
Channel: 282A (104.3 MHz)
AMSL Height: 93.0 m
Horiz. Pattern: Omni

USGS 03 SEC Terrain Database
U.S. Census 2010 PL Database

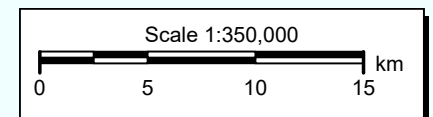


Exhibit 13.5

Tabulation of Proposed Allocation

REFERENCE CH# 282D - 104.3 MHz, Pwr= 0.25 kw, HAAT= 82.6 M, COR= 93 M											
Average Protected F(50-50)= 11.75 km											
Omni-directional											
DISPLAY DATES											
DATA 10-19-16											
SEARCH 10-20-16											
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)	
284B	WQHQ	LIC	CN	76.1	2.19	38 23 15.0	33.000	5.8	64.0	-15.7*<	-63.3*<
Ocean City-Salisbur	MD			256.2	BLH19800505AB	75 17 30.0	186	189	Capstar Tx, Llc		
282D	W282AW	LIC	DV_	81.5	16.66	38 24 17.0	0.095	17.1	5.2	-12.5*	-30.0*
Ocean Pines	MD			261.6	BLFT20110725AGN	75 07 37.0	40	43	Adams Radio Of Delmarva Pe		
280A	WOCQ	LIC	CN	0.0	0.00	38 22 58.0	6.000	2.8	28.3	-14.5*<	-29.4*<
Berlin	MD			0.0	BLH19980630KF	75 18 58.0	100	111	Adams Radio Of Delmarva Pe		
228B	WZBH	LIC	ZCX	5.6	15.67	38 31 24.0	50.000	2.9	38.0	14.5R	1.2M
Millsboro	DE			185.6	BLH20160425AAP	75 17 55.0	150	160	Adams Radio Of Delmarva Pe		
282B	WZFT	LIC	ZCX	313.0	156.72	39 20 10.0	13.000	134.3	70.3	10.9	30.6
Baltimore	MD			132.1	BLH20090123AAG	76 38 59.0	294	378	Citicasters Licenses, Inc.		
281D	W281BD	LIC	_C_	342.9	69.91	38 59 01.0	0.110	16.2	11.2	42.1	41.7
Dover	DE			162.8	BLFT20140801AJP	75 33 14.0		128	Delmarva Broadcasting Comp		
281B	WPRS-FM	LIC	_CX	281.6	135.51	38 37 07.4	20.000	78.7	66.6	45.7	45.6
Waldorf	MD			100.7	BMLH20070809ABE	76 50 39.0	244	295	Radio One Licenses, Llc		
279D	W279BA	LIC	_C_	293.3	70.08	38 37 48.6	0.019	0.3	6.7	58.4	62.3
East New Market	MD			112.9	BLFT20070313AAU	76 03 25.2	99	102	Tblc Virginia Stations, L		
279B	WMGM	LIC	DCN	31.6	131.81	39 23 24.0	50.000	5.2	59.2	114.9	71.1
Atlantic City	NJ			212.1	BLH19971121KA	74 30 45.0	106	112	Longport Media, Llc		
279B	WXCX	APP	ZCX	332.4	148.65	39 33 55.0	39.000	5.7	64.6	131.3	82.6
Havre De Grace	MD			151.9	BPH20160309ABL	76 07 08.0	168	221	Delmarva Broadcasting Comp		
279B	WXCX	LIC	DCX	332.9	147.89	39 33 52.0	37.000	5.6	63.8	130.7	82.6
Havre De Grace	MD			152.4	BLH20021015ABT	76 06 07.0	168	217	Delmarva Broadcasting Comp		
283B	WNVZ	LIC	_C_	210.6	173.07	37 02 17.6	50.000	77.8	64.8	83.4	83.2
Norfolk	VA			30.0	BMLH20040816AAN	76 18 28.7	146	148	Entercom License, Llc		
285A	WIGO-FM	LIC	_CX	232.4	119.29	37 43 25.0	4.100	2.7	28.7	104.9	89.5
White Stone	VA			51.8	BLH20070820ACF	76 23 28.8	122	127	Two Rivers Communications,		
283B	WRFH	LIC	_C_	2.0	184.55	40 02 30.0	11.500	79.0	67.1	93.8	92.8
Philadelphia	PA			182.1	BMLH20090513AAG	75 14 24.0	308	376	Amfm Radio Licenses, L.L.c		
285B1	WSJO	LIC	NCN	24.1	142.06	39 32 49.0	10.000	3.8	44.6	126.5	95.9
Egg Harbor City	NJ			204.6	BLH19910726KB	74 38 19.0	155	167	Townsquare Media Atlantic		
281D	W281BH	CP	DC_	30.3	128.29	39 22 35.0	0.250	18.2	12.3	98.4	99.0
Absecon	NJ			210.8	BPFT20160427ABL	74 33 44.0		101	Hope Christian Church Of M		
281D	W281BH	LIC	_C_	30.5	128.79	39 22 43.0	0.250	11.6	8.2	105.5	103.6
Absecon	NJ			211.0	BLFT20160419AAR	74 33 21.0		43	Hope Christian Church Of M		

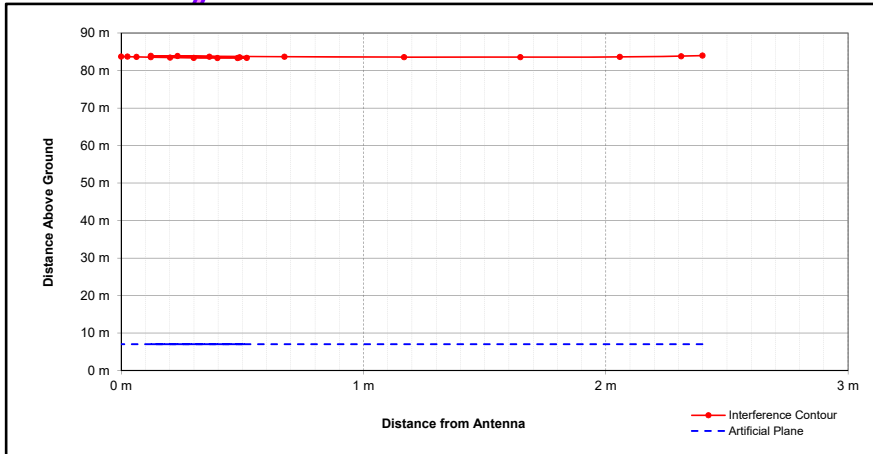
Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference zone= East Zone, Co to 3rd adjacent.
 All separation margins (if shown) include rounding. Call signs with strikeout 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.
 < = Contour Overlap

Green Text denotes the facility to be modified by this proposal. This facility need not be protected.

Yellow Highlighted Text denotes the existence of a §74.1204(d) Second/Third Adjacent Channel Given Interference Waiver Request toward WQHQ(FM) - Ocean City-Salisbury, MD (CH284B) and WOCQ(FM) - Berlin, MD (CH280A) as noted in **Exhibit 13.6**. Protection has been based on the worst case calculated 153.3 dBu F(50:10) Interference Contour, corresponding to the worst case 113.3 dBu F(50:50) Full Service Protected Contour. Protection has been demonstrated through a downward vertical radiation study. Full protection will be afforded the facility as the interference area will not reach the ground nor a seven meter artificial plane representing a standard two story home when taking into account the downward radiation characteristics of the antenna as supplied by the antenna manufacturer. A copy of the antenna manufacturer's specifications has also been included in **Exhibit 13.7**.

Exhibit 13.6 **\$74.1204(d) 2nd/3rd Adjacent Channel** **Given Interference Waiver Request** **WQHQ(FM) - Ocean City-Salisbury, MD (CH284B)** **WOCQ(FM) - Berlin, MD (CH280A)**

Yellow Highlighted Text denotes the existence of a §74.1204(d) Second/Third Adjacent Channel Given Interference Waiver Request toward WQHQ(FM) - Ocean City-Salisbury, MD (CH284B) and WOCQ(FM) - Berlin, MD (CH280A) as noted in **Exhibit 13.6**. Protection has been based on the worst case calculated 153.3 dBμ F(50:10) Interference Contour, corresponding to the worst case 113.3 dBμ F(50:50) Full Service Protected Contour. Protection has been demonstrated through a downward vertical radiation study. Full protection will be afforded the facility as the interference area will not reach the ground nor a seven meter artificial plane representing a standard two story home when taking into account the downward radiation characteristics of the antenna as supplied by the antenna manufacturer. A copy of the antenna manufacturer specifications has also been included in **Exhibit 13.7**.

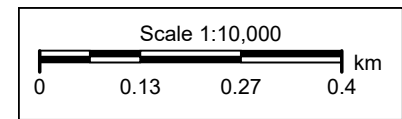


Proposed Antenna: BKG77/2L Two Bay 0.75 λ Spaced
Proposed Power: 0.25 kW
Antenna Height AGL: 84 meters
Interference Contour: 153.30 dBμ F(50:10)
Artificial Ground Plane Height: 7 meters
Distance (Free Space) Equation: $= (10^{\frac{1}{20}((106.92 - [\text{desired dB}\mu] + [\text{ERP in dBk}]) / 20)}) * 1000$
Field Strength (dBu) Equation: $= 106.92 - 20 * (\text{LOG10}[\text{DistMeters} / 1000]) + [\text{ERP in dBk}]$

Depression Angle	Antenna Relative Field	ERP in kW	ERP in dBk	Distance from Ant. to Interference Contour	Distance from Ant. to Artificial Plane	Field Strength in dBu @ Artificial Plane	Distance from Ant. to Ground Level	Field Strength in dBu @ Ground Level
0°	1.000	0.250	-6.02	2.40 m	infinite	---	---	---
-5°	0.967	0.234	-6.31	2.32 m	853.48 m	101.68 dBu	963.79 m	100.93 dBu
-10°	0.871	0.190	-7.22	2.09 m	443.43 m	106.76 dBu	483.74 m	106.01 dBu
-15°	0.711	0.126	-8.96	1.71 m	297.51 m	108.47 dBu	324.55 m	107.71 dBu
-20°	0.518	0.067	-11.73	1.24 m	225.13 m	108.14 dBu	245.60 m	107.38 dBu
-25°	0.310	0.024	-16.19	0.74 m	182.20 m	105.52 dBu	198.76 m	104.76 dBu
-30°	0.112	0.003	-25.04	0.27 m	154.00 m	98.13 dBu	168.00 m	97.38 dBu
-35°	0.062	0.001	-30.17	0.15 m	134.25 m	94.19 dBu	146.45 m	93.43 dBu
-40°	0.198	0.010	-20.09	0.47 m	119.79 m	105.26 dBu	130.68 m	104.51 dBu
-45°	0.288	0.021	-16.83	0.69 m	108.89 m	109.35 dBu	118.79 m	108.59 dBu
-50°	0.336	0.028	-15.49	0.81 m	100.52 m	111.38 dBu	109.65 m	110.63 dBu
-55°	0.349	0.030	-15.16	0.84 m	94.00 m	112.29 dBu	102.55 m	111.54 dBu
-60°	0.331	0.027	-15.62	0.79 m	88.91 m	112.32 dBu	96.99 m	111.56 dBu
-65°	0.295	0.022	-16.62	0.71 m	84.96 m	111.71 dBu	92.68 m	110.96 dBu
-70°	0.246	0.015	-18.20	0.59 m	81.94 m	110.45 dBu	89.39 m	109.69 dBu
-75°	0.197	0.010	-20.13	0.47 m	79.72 m	108.76 dBu	86.96 m	108.00 dBu
-80°	0.151	0.006	-22.44	0.36 m	78.19 m	106.62 dBu	85.30 m	105.86 dBu
-85°	0.122	0.004	-24.29	0.29 m	77.29 m	104.86 dBu	84.32 m	104.11 dBu
-90°	0.117	0.003	-24.66	0.28 m	77.00 m	104.53 dBu	84.00 m	103.78 dBu

+
WQHQ(FM).L

USGS 03 SEC Terrain Database
U.S. Census 2010 PL Database



(WOCQ(FM).L & W282AW.P are co-located resulting in no interference area)

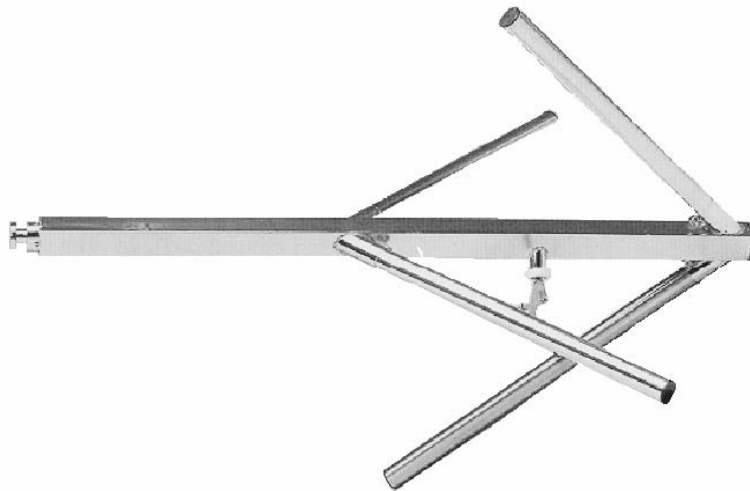
+
W282AW.P
WOCQ(FM).L
WQHQ(FM) - 113.3 F(50:50)dBμ Contour

W282AW.P
Ocean Pines, MD
Proposed Operation
Facility ID: 152275
Latitude: 38-22-58 N
Longitude: 075-18-58 W
ERP: 0.25 kW
Channel: 282A (104.3 MHz)
AMSL Height: 93.0 m
Horiz. Pattern: Omni

WOCQ(FM).L
Berlin, MD
BLH19980630KF
Facility ID: 47107
Latitude: 38-22-58 N
Longitude: 075-18-58 W
ERP: 6.00 kW
Channel: 280A (103.9 MHz)
AMSL Height: 111.0 m
Horiz. Pattern: Omni

WQHQ(FM).L
Ocean City-salisbur, MD
BLH19800505AB
Facility ID: 28166
Latitude: 38-23-15 N
Longitude: 075-17-30 W
ERP: 33.00 kW
Channel: 284B (104.7 MHz)
AMSL Height: 189.0 m
Horiz. Pattern: Omni

Exhibit 13.7 - Manufacturer's Vertical Radiation Pattern Data



NICOM
BKG77
Low Power

**Broadband
FM Circular
Polarization
Antenna**
*Antena de
FM Banda Ancha
Polarizacion Circular*

This antenna, constructed completely of stainless steel, offers circular polarization for better coverage especially in urban areas. In order to facilitate and decrease shipping costs, this model is simple to break down and reassemble when ready to be installed. It is insulated with Teflon, and with the appropriate connector has a maximum input of 0.5 kw.

Esta antena, fabricada completamente de acero inoxidable, le ofrece polarización circular para mejor alcance, especialmente en zonas urbanas. Para facilitar y disminuir los costos de transportación, este modelo es fácil de desarmar y volver a montar tan pronto que la quiera instalar. Está aislada con Teflon, y con el conector apropiado tiene una entrada máxima de 0.5 kw.



TECHNICAL SPECIFICATIONS (per bay)

Antenna type	circular polarization dipole	Front-to-back ratio	3 dB
Frequency range	87.5 - 108 MHz	Lightening protection	all parts grounded
Bandwidth	500 kHz max	Max wind velocity	119 mph (190 km/h)
Impedance	50 ohms	Wind load	8 Lbs (3.6 kg)
Connectors	N type (0.5 kw)	Wind surface	0.3 ft ² (0.04 m ²)
Power rating	500 Watts max	Materials (external)	stainless steel
VSWR	< 1.1:1	Mounting	from 2" to 4"
Polarization	vertical and horizontal	Weight	7.7 Lbs (3.5 kg)
Gain	- 3 dBd (referred to half-wave dipole)	Dimensions	58"×32"×32" (1450×800×800mm)
H plane	omnidirectional ±1.5 dB (with a 4" mast)	Packing	72"×6"×6" (1500×152×152mm)
V plane	omnidirectional ±3 dB (with a 4" mast)		

Exhibit 13.7 - Manufacturer's Vertical Radiation Pattern Data



TX station: BKG77/2 GENERIC

Site name: 3/4 WAVE SEPARATION

Frequency: 98.10 MHz

Vertical diagram

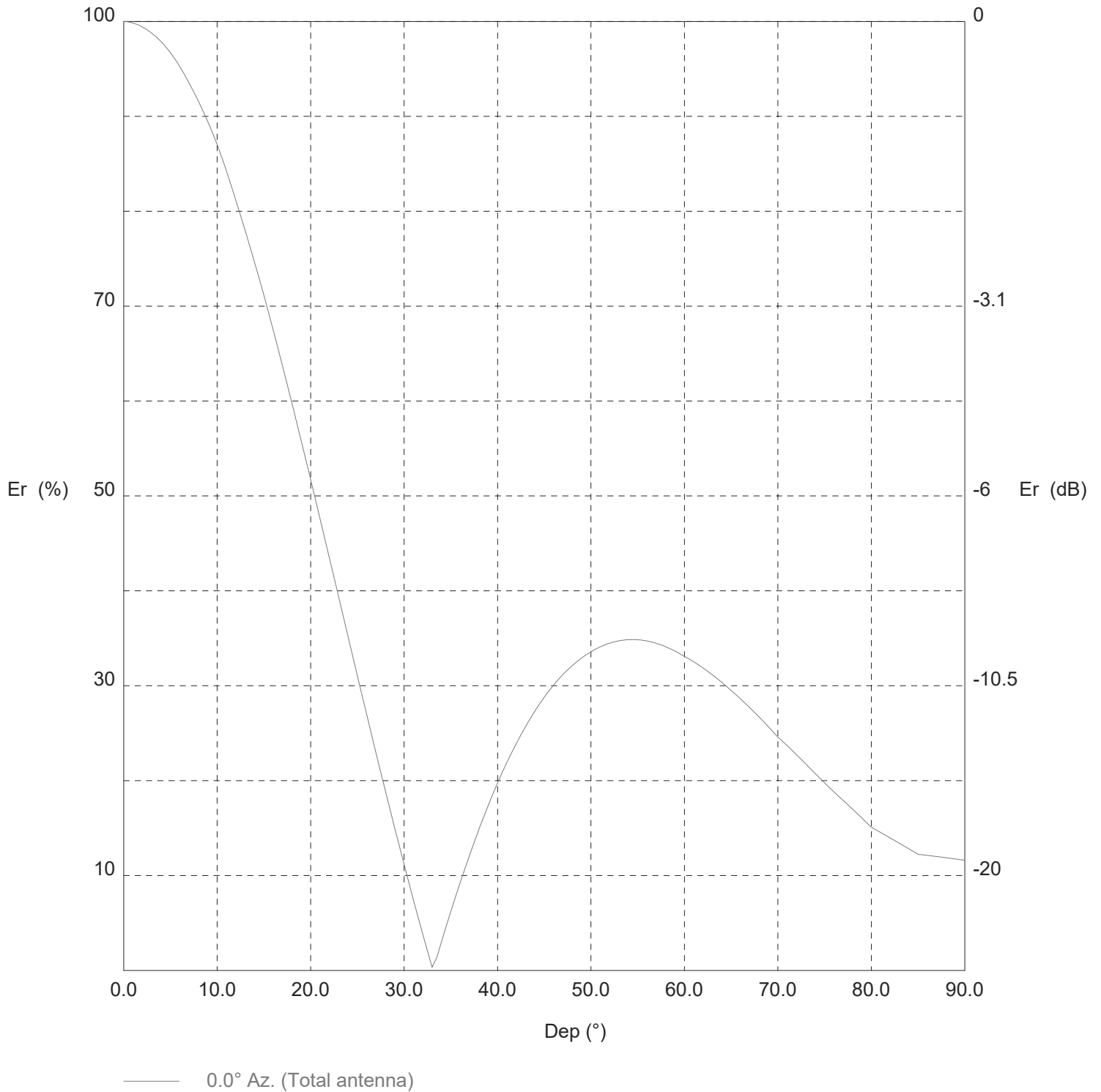


Exhibit 13.7 - Manufacturer's Vertical Radiation Pattern Data



TX station: BKG77/2 GENERIC

Site name: 3/4 WAVE SEPARATION

Frequency: 98.10 MHz

Vertical diagram at an azimuth of 0° degrees

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.0	914.2	30.0	11.2	11.5	60.0	33.1	100.1
0.5	100.0	913.3	30.5	9.3	7.9	60.5	32.8	98.4
1.0	99.8	911.3	31.0	7.5	5.1	61.0	32.5	96.7
1.5	99.7	908.1	31.5	5.6	2.9	61.5	32.2	94.8
2.0	99.4	903.9	32.0	3.8	1.3	62.0	31.9	92.8
2.5	99.1	898.4	32.5	2.1	0.4	62.5	31.5	90.8
3.0	98.8	891.9	33.0	0.3	0.0	63.0	31.1	88.7
3.5	98.4	884.3	33.5	1.4	0.2	63.5	30.8	86.5
4.0	97.9	875.7	34.0	3.0	0.8	64.0	30.4	84.2
4.5	97.3	865.9	34.5	4.6	2.0	64.5	29.9	81.9
5.0	96.7	855.2	35.0	6.2	3.5	65.0	29.5	79.5
5.5	96.0	842.7	35.5	7.8	5.5	65.5	29.1	77.2
6.0	95.2	829.2	36.0	9.3	7.9	66.0	28.6	74.8
6.5	94.4	814.9	36.5	10.7	10.5	66.5	28.2	72.5
7.0	93.5	799.7	37.0	12.1	13.5	67.0	27.7	70.0
7.5	92.6	783.6	37.5	13.5	16.7	67.5	27.2	67.6
8.0	91.6	766.9	38.0	14.9	20.2	68.0	26.7	65.1
8.5	90.5	749.4	38.5	16.1	23.8	68.5	26.2	62.7
9.0	89.4	731.2	39.0	17.4	27.7	69.0	25.7	60.2
9.5	88.3	712.5	39.5	18.6	31.6	69.5	25.1	57.8
10.0	87.1	693.1	40.0	19.8	35.7	70.0	24.6	55.3
10.5	85.7	670.8	40.5	20.9	39.8	70.5	24.1	53.3
11.0	84.2	648.2	41.0	21.9	43.9	71.0	23.7	51.2
11.5	82.7	625.3	41.5	22.9	48.1	71.5	23.2	49.2
12.0	81.2	602.3	42.0	23.9	52.2	72.0	22.7	47.2
12.5	79.6	579.0	42.5	24.8	56.4	72.5	22.2	45.2
13.0	78.0	555.7	43.0	25.7	60.4	73.0	21.7	43.2
13.5	76.3	532.4	43.5	26.5	64.4	73.5	21.2	41.3
14.0	74.6	509.1	44.0	27.3	68.3	74.0	20.7	39.3
14.5	72.9	485.8	44.5	28.1	72.1	74.5	20.2	37.4
15.0	71.1	462.7	45.0	28.8	75.8	75.0	19.7	35.5
15.5	69.3	439.1	45.5	29.5	79.3	75.5	19.3	33.9
16.0	67.4	415.8	46.0	30.1	82.7	76.0	18.8	32.4
16.5	65.6	392.9	46.5	30.7	85.9	76.5	18.4	30.8
17.0	63.6	370.3	47.0	31.2	88.9	77.0	17.9	29.3
17.5	61.7	348.1	47.5	31.7	91.8	77.5	17.4	27.8
18.0	59.8	326.5	48.0	32.1	94.4	78.0	17.0	26.4
18.5	57.8	305.3	48.5	32.6	96.9	78.5	16.5	24.9
19.0	55.8	284.7	49.0	32.9	99.2	79.0	16.0	23.5
19.5	53.8	264.7	49.5	33.3	101.2	79.5	15.6	22.1
20.0	51.8	245.3	50.0	33.6	103.1	80.0	15.1	20.8
20.5	49.7	226.1	50.5	33.9	104.8	80.5	14.8	20.0
21.0	47.6	207.5	51.0	34.1	106.3	81.0	14.5	19.3
21.5	45.6	189.8	51.5	34.3	107.6	81.5	14.3	18.6
22.0	43.5	172.8	52.0	34.5	108.7	82.0	14.0	17.8
22.5	41.4	156.7	52.5	34.6	109.6	82.5	13.7	17.1
23.0	39.3	141.3	53.0	34.7	110.3	83.0	13.4	16.4
23.5	37.2	126.8	53.5	34.8	110.8	83.5	13.1	15.7
24.0	35.2	113.0	54.0	34.9	111.1	84.0	12.8	15.0
24.5	33.1	100.1	54.5	34.9	111.2	84.5	12.5	14.4
25.0	31.0	88.1	55.0	34.9	111.1	85.0	12.2	13.7
25.5	29.0	76.8	55.5	34.8	110.7	85.5	12.2	13.6
26.0	26.9	66.3	56.0	34.7	110.2	86.0	12.1	13.4
26.5	24.9	56.7	56.5	34.6	109.4	86.5	12.1	13.3
27.0	22.9	47.9	57.0	34.5	108.5	87.0	12.0	13.2
27.5	20.9	39.9	57.5	34.3	107.5	87.5	11.9	13.0
28.0	18.9	32.7	58.0	34.1	106.3	88.0	11.9	12.9
28.5	17.0	26.3	58.5	33.9	104.9	88.5	11.8	12.8
29.0	15.0	20.6	59.0	33.6	103.5	89.0	11.7	12.6
29.5	13.1	15.7	59.5	33.4	101.8	89.5	11.7	12.5