

TECHNICAL EXHIBIT

IN SUPPORT OF A MINOR CHANGE APPLICATION TO
INCREASE EFFECTIVE RADIATED POWER
AND CORRECT ANTENNA LOCATION AND HEIGHT
W300AO, MANAHAWKIN, NEW JERSEY
AUGUST 2007

This technical statement including the attached exhibits has been prepared on behalf of Jersey Shore Broadcasting Corporation (“JSBC”), licensee of FM translator station, W300AO, Manahawkin, New Jersey, and is in support of an application to increase the station’s effective radiated power and correct the antenna location and height.

W300AO is licensed to operate on Channel 300D (107.9 MHz) with 0.019 kW (H&V) effective radiated power (ERP) and 94 meters antenna height above average terrain using a non-directional antenna. JSBC proposes to modify the license and operate with 0.25 kW (H&V) ERP and 95¹ meters antenna height above average terrain and to utilize a directional FM antenna. The proposed FM antenna would replace the current antenna and will be mounted at the same elevation on the existing tower. The height of the antenna will be 101 meters above ground level and 106 meters AMSL. The antenna structure registration number of the existing tower is 1027616.

The existing antenna site is located east of the Mississippi river, and since the proposed (W300AO) FM translator is a “fill-in” it is limited to a maximum ERP of 0.25 kW. The attached Table I shows the proposed W300AO operation would comply with Section 74.1235 of the Commission’s rules with respect to power limitations. The attached Table II shows the proposed W300AO directional antenna pattern and tabulation.

The proposed W300AO operation would continue to re-broadcast the FM signal of WJRZ-FM, Manahawkin, New Jersey which currently operates on Channel 261A (100.1 MHz). The attached map (Figure 1) shows the computed 1.0 mV/m contour of the

¹ Based on 3 Second US Terrain Database

proposed W300AO's operation in relation to the similar contour of WJRZ-FM which operates with 1.7 kW ERP and 133 meters HAAT. Figure 1 indicates the proposed 1 mV/m contour of W264AM would be entirely inside the similar contour of WJRZ-FM.

The following data provides detail information concerning the proposed FM translator W300AO operation:

Name of the Permittee:	Jersey Shore Broadcasting Corporation	
Principal community to be served:	NJ-Manahawkin	
Primary Station:	WJRZ-FM, Channel 261A, Manahawkin, NJ	
Via:	Off-the-air	
Channel:	300D	
Hours of operation:	Unlimited	
Antenna Coordinates:	North Latitude:	39 deg 41 min 53 sec
	West Longitude:	74 deg 14 min 06 sec
Transmitter:	Type Accepted	
Antenna type:	Directional	
Major lobe directions:	N 80° E Clw N 230° E	
	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the horizontal plane (kW)	0.25	0.25
Height of radiation center above ground (meters)	101.0	101.0
Height of radiation center above means sea level (meters)	106.0	106.0
Antenna structure registration number:	1027616	

Interference

The proposed FM translator operation of W300AO on Channel 300 will comply with Section 74.1204 of the Commission's rules with respect to interference caused to any existing or proposed FM stations and translators. The attached maps (Figure 2 and 3) show the proposed W300AO operation would not cause prohibited contour overlap with any other pertinent FM station or proposal operating on co-channel and on ± 3 channels of Channel 300 with the exception of third adjacent channel station WPUR, Atlantic City, NJ.

WPUR is a class B1 station and currently operates on channel 297 (107.3 MHz) with 13.5 kW ERP and 137 meters HAAT. The licensed WPUR operation has a computed signal level at the W300AO transmitter site of 59.3 dBu. The attached topographic map (Figure 4) shows the computed 99.3 dBu (92.3 mV/m) contours of the present non-directional and the proposed W300AO directional operations and indicates there is no increase in the contour over the current licensed operation where there are existing houses. It is believed that due to the rural nature of the W300AO transmitter site, the minus three channel relationship coupled with the WPUR application (BMPH-20070711ABW) to re-locate to a new site whereby its 57 DBu contour would not overlap the W300AO transmitter site, no interference will result. The attached Table III shows a listing of all FM stations considered in the allocation study.

Since W300AO will not be operating on Channels 201-220, Section 74.1205 is not pertinent.

Unattended Operation

It is proposed to operate W300AO unattended in accordance with Section 74.124 of the Commission's rules.

Multiple Translators

The applicant does not have any interest in an FM translator or applications which serve the same area and re-broadcast the same signal as W300AO.

Environmental Protection Act

As stated above, the proposed W300AO site would be located on its current licensed existing tower. The environmental concerns listed in Section 1.1307(a) of the Commission's rules are not pertinent, therefore, those issues have not been addressed.

An evaluation has been made to determine compliance with the Commission's specified standards for human exposure to RF fields as set forth in the FCC OET Bulletin No. 65 dated August 1997. For a maximum effective radiated power of 0.5 kW and a radiation center of 101 meters above ground level, the proposed W300AO operation would have a maximum of 0.2 microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$) RF field at 2 meters above the base of the supporting structure assuming 0.3 antenna relative field in the downward direction.

Non-commercial station WNJM is also located on the tower structure operating with effective radiated power of 0.201 kW and a radiation center of 85 meters above ground level. The WNJM operation would have a maximum of 0.1 microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$) RF field at 2 meters above the base of the supporting structure assuming 0.3 antenna relative field in the downward direction. The Commission's guidelines for the FM band are 1,000 $\mu\text{W}/\text{cm}^2$ for the

occupational/controlled and $200 \mu\text{W}/\text{cm}^2$ for the general population/uncontrolled environment.

Therefore, members of the public and personnel working around the proposed W300AO facility would not be exposed to RF fields exceeding the Commission's guidelines. With respect to work performed on the tower, station W300AO, in coordination with other users, has established procedures to ensure that workers are not exposed to RF fields above the Commission's guidelines, by reducing or turning off the power, as appropriate.

TABLE I
COMPUTED 1.0 mV/m CONTOUR
FOR THE PROPOSED FM TRANSLATOR OPERATION OF
W300AO, MANHAWKIN, NEW JERSEY
AUGUST 2007

Call Letters: W300AO

Latitude: 39-41-53 N

Longitude: 074-12-06 W

ERP: 0.25 kW

Channel: 300

Frequency: 107.9 MHz

AMSL Antenna Height: 106 m

Elevation: 5.1 m

Horiz. Antenna Pattern: Directional

Vert. Elevation Pattern: No

Type of contour: FCC

Location Variability: 50.0 %

Time Variability: 50.0 %

Field Strength: 1.0 mV/m (60.00 dBuV/m)

Primary Terrain: V-Soft 3 Second US Terrain

<u>Bearing (deg)</u>	<u>Distance (km)</u>	<u>HAAT (m)</u>
0.0	6.4	89.3
30.0	7.0	105.6
60.0	13.2	105.8
90.0	13.2	105.8
120.0	13.2	105.8
150.0	13.2	105.9
180.0	13.2	105.7
210.0	13.2	105.3
240.0	12.1	92.0
270.0	6.1	80.9
300.0	6.0	78.8
330.0	5.8	72.7

Average HAAT for radials shown: 96.0 m

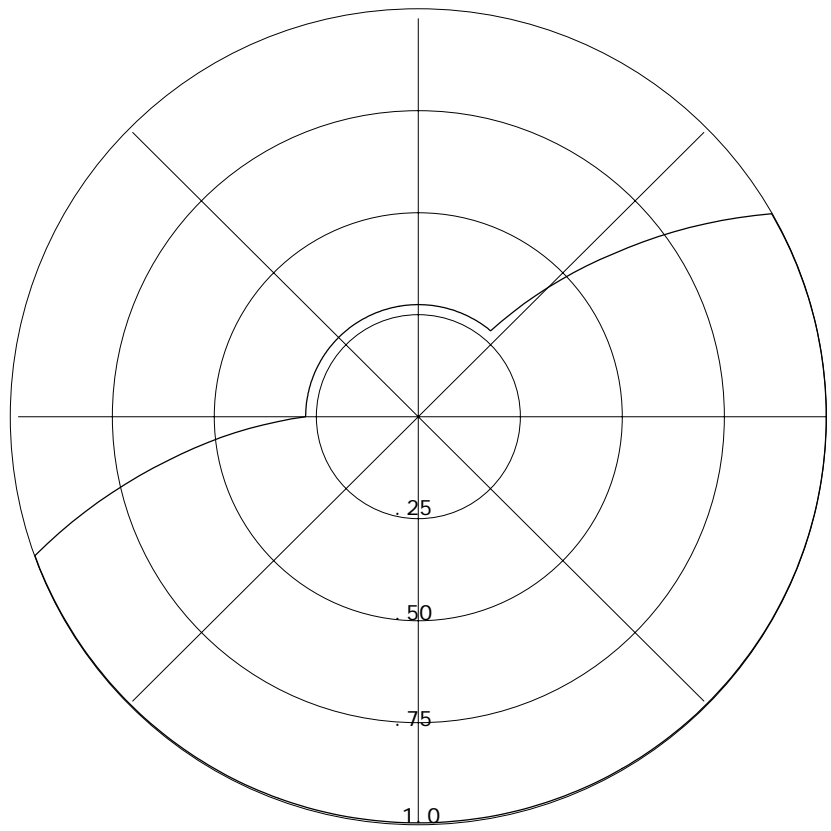
08-16-2007

RMS(V) = .777

Bearing Field % Voltage

Graph is Percent Relative Field Voltage

000	=	0.276
010	=	0.276
020	=	0.276
030	=	0.276
040	=	0.276
050	=	0.624
060	=	1.000
070	=	1.000
080	=	1.000
090	=	1.000
100	=	1.000
110	=	1.000
120	=	1.000
130	=	1.000
140	=	1.000
150	=	1.000
160	=	1.000
170	=	1.000
180	=	1.000
190	=	1.000
200	=	1.000
210	=	1.000
220	=	1.000
230	=	1.000
240	=	1.000
250	=	1.000
260	=	0.624
270	=	0.276
280	=	0.276
290	=	0.276
300	=	0.276
310	=	0.276
320	=	0.276
330	=	0.276
340	=	0.276
350	=	0.276



Jersey Shore Broadcasting Corporation
W300A0 Allocation Study

REFERENCE
39 41 53.0 N.
74 14 06.0 W.

CH# 300D - 107.9 MHz, Pwr= 0.019 kW, HAAT=96.0 M, COR= 105.9 M
Average Protected F(50-50)= 6.69 km

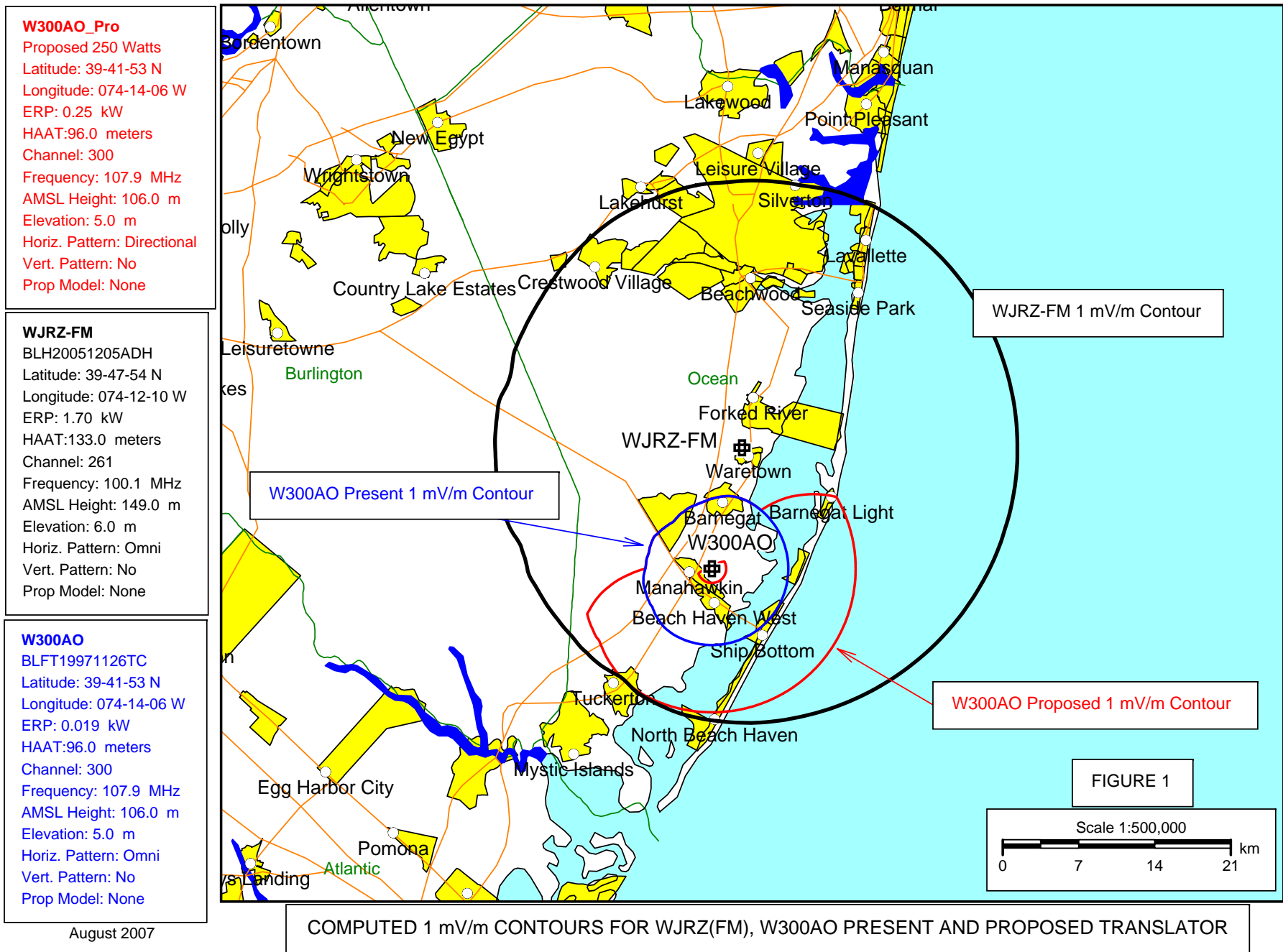
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DATA 08-15-07
SEARCH 08-15-07

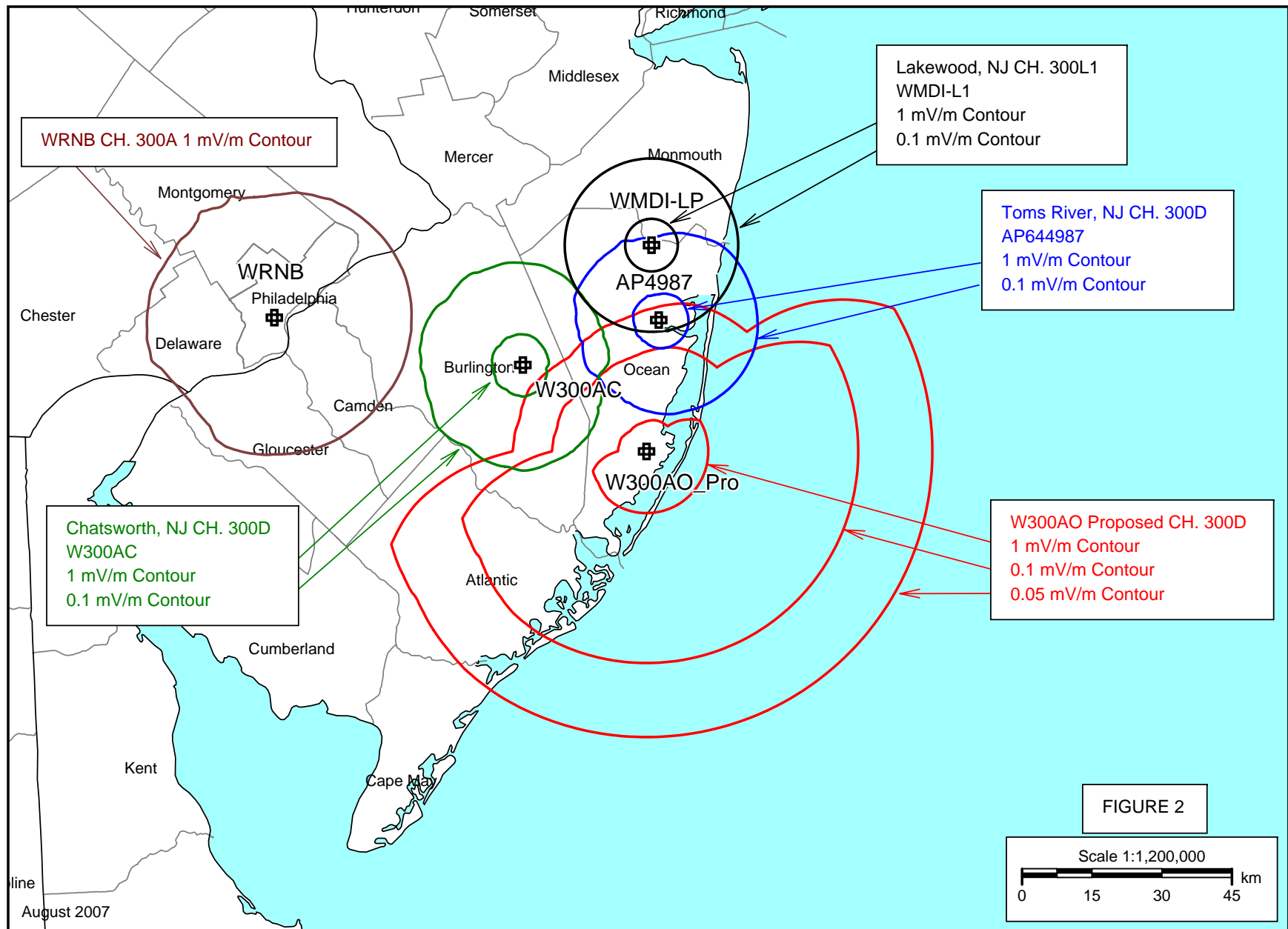
CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
300A	AL1922	RSV	___	297.1	75.40	40 00 12.0	6.000	87.3	28.8	-14.99	36.52
Pennsauken		NJ		116.6	RM10615	75 01 19.0	100	120			
297B1	WPUR	LIC	DCX	202.8	40.58	39 21 40.0	13.500	4.0	45.0	29.60	-4.86*
Atlantic City		NJ		22.7	BLH20050519AEJ	74 25 05.0	137	138	Millennium Atlantic City L		
300A	WRNB	LIC	ZCX	289.8	84.73	39 57 09.0	0.780	82.5	29.4	-0.87	45.24
Pennsauken		NJ		109.2	BLH20050622AAL	75 10 05.0	276	304	Radio One Licenses, Lic		
297B1	WPUR	APP	_CX	218.2	45.46	39 22 35.0	25.000	4.0	44.0	34.54	1.07
Atlantic City		NJ		38.0	BMPH20070711ABW	74 33 44.0	100	105	Millennium Atlantic City L		
300D	AP4987	APP	_C_	5.3	28.28	39 57 06.0	0.020	19.7	6.0	5.15	11.38
Toms River		NJ		185.3	BNPFT20030317BFV	74 12 16.0		87	Wyr's Broadcasting		
300D	W300AC	LIC	_HN	305.1	32.33	39 51 52.0	0.035	19.4	5.8	9.89	16.66
Chatsworth, Etc.		NJ		124.9	BLFT19930806TD	74 32 41.0	68	96	Mercer County Community Co		
299D	AP8054	APP	_C_	5.6	28.31	39 57 06.6	0.038	9.4	6.6	15.47	16.80
Toms River		NJ		185.6	BNPFT20030314BSY	74 12 09.5		79	Susan Clinton		
300L1	WMDI -LP	LIC	___	1.4	44.21	40 05 46.0	0.100	18.6	5.6	22.30	27.84
Lakewood		NJ		181.4	BLL20040524ANV	74 13 21.0	7	32	American Institute For Jew		
299A	RADD	ADD	___	234.1	85.13	39 14 47.0	6.000	42.6	27.6	35.93	48.25
Port Norris		NJ		53.5		75 02 04.0	100	105	Dana J. Puopolo		
299D	AP5019	APP	_C_	333.7	47.71	40 04 58.0	0.055	8.2	5.8	36.46	37.57
New Egypt		NJ		153.6	BNPFT20030317BFY	74 29 00.0		92	Wyr's Broadcasting		
300D	AP2600	APP	DC_	11.7	56.13	40 11 34.5	0.080	12.0	3.8	40.62	41.12
Glendola		NJ		191.8	BNPFT20030313BOW	74 06 02.4		51	Best Media, Inc.		
299D	AP2852	APP	DC_	305.4	52.96	39 58 21.5	0.250	8.0	5.7	41.89	42.94
Ewansville		NJ		125.1	BNPFT20030313BPJ	74 44 27.4		41	Best Media, Inc.		
300B	WEBE	LIC	_C_	28.2	186.22	41 10 14.0	50.000	137.3	64.7	45.32	104.68
Westport		CT		208.8	BMLH19890329KD	73 11 05.0	117	147	Cumulus Licensing Lic		
300D	AP5748	APP	_C_	3.7	77.65	40 23 45.0	0.010	23.2	6.9	51.08	59.88
Holmdel		NJ		183.8	BNPFT20030317FLO	74 10 30.0		174	New Jersey Public Broadcas		
297D	AP6178	APP	_C_	305.6	58.43	40 00 08.7	0.013	0.3	3.4	55.14	54.98
Mount Holly		NJ		125.3	BNPFT20030312BGP	74 47 31.0		47	Burlington County College		
298B	WBLS	LIC	_CN	10.2	118.53	40 44 54.0	4.200	3.9	62.4	111.12	56.01
New York		NY		190.3	BLH19940204KN	73 59 10.0	415	429	Urban Radio I, L. I. c.		
300D	AP3113	APP	_C_	345.0	81.28	40 24 16.6	0.055	19.5	5.9	58.64	65.34
East Brunswick		NJ		164.8	BNPFT20030317IXM	74 29 03.5		86	Radio Assist Ministry, Inc		
298D	AP5149	APP	_C_	298.5	64.44	39 58 21.0	0.025	0.4	5.4	60.96	58.96
Moorestown		NJ		118.1	BNPFT20030317EWZ	74 53 54.0		66	New Jersey Public Broadcas		
300D	AP4144	APP	_C_	10.9	72.90	40 20 33.0	0.002	6.7	2.2	62.72	59.52
Red Bank		NJ		191.0	BNPFT20030312ASF	74 04 18.0		44	Calvary Chapel Four Winds		
300D	WWPH	LIC	_HN	334.2	75.08	40 18 20.0	0.017	11.5	3.6	60.51	61.73
Princeton Junction		NJ		153.9	BLED19800422AA	74 37 16.0	11	44	West Windsor-plainsboro Re		

Terrain database is USGS 03 SEC

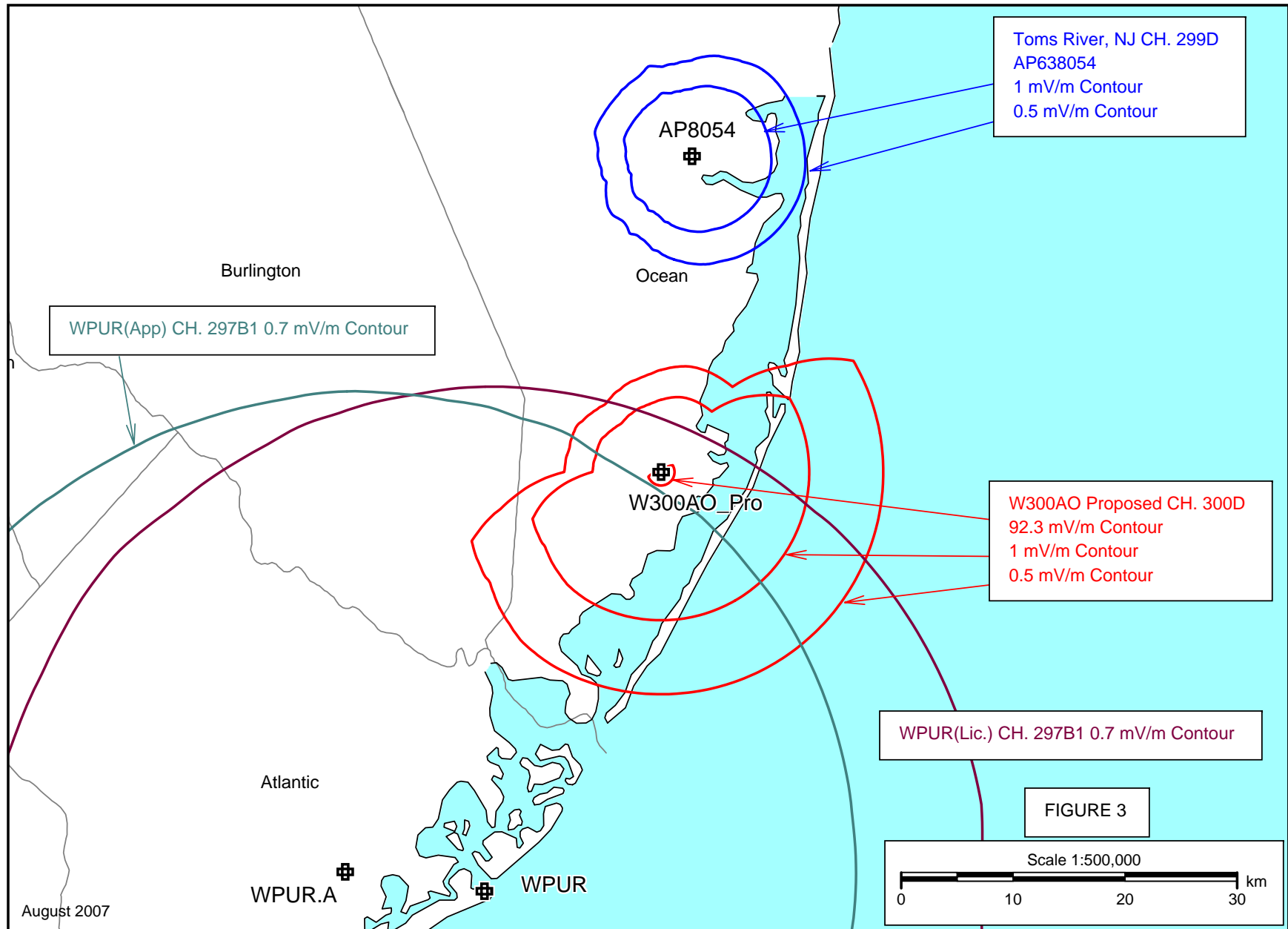
ERP and HAAT are on direct line to and from reference station.

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.

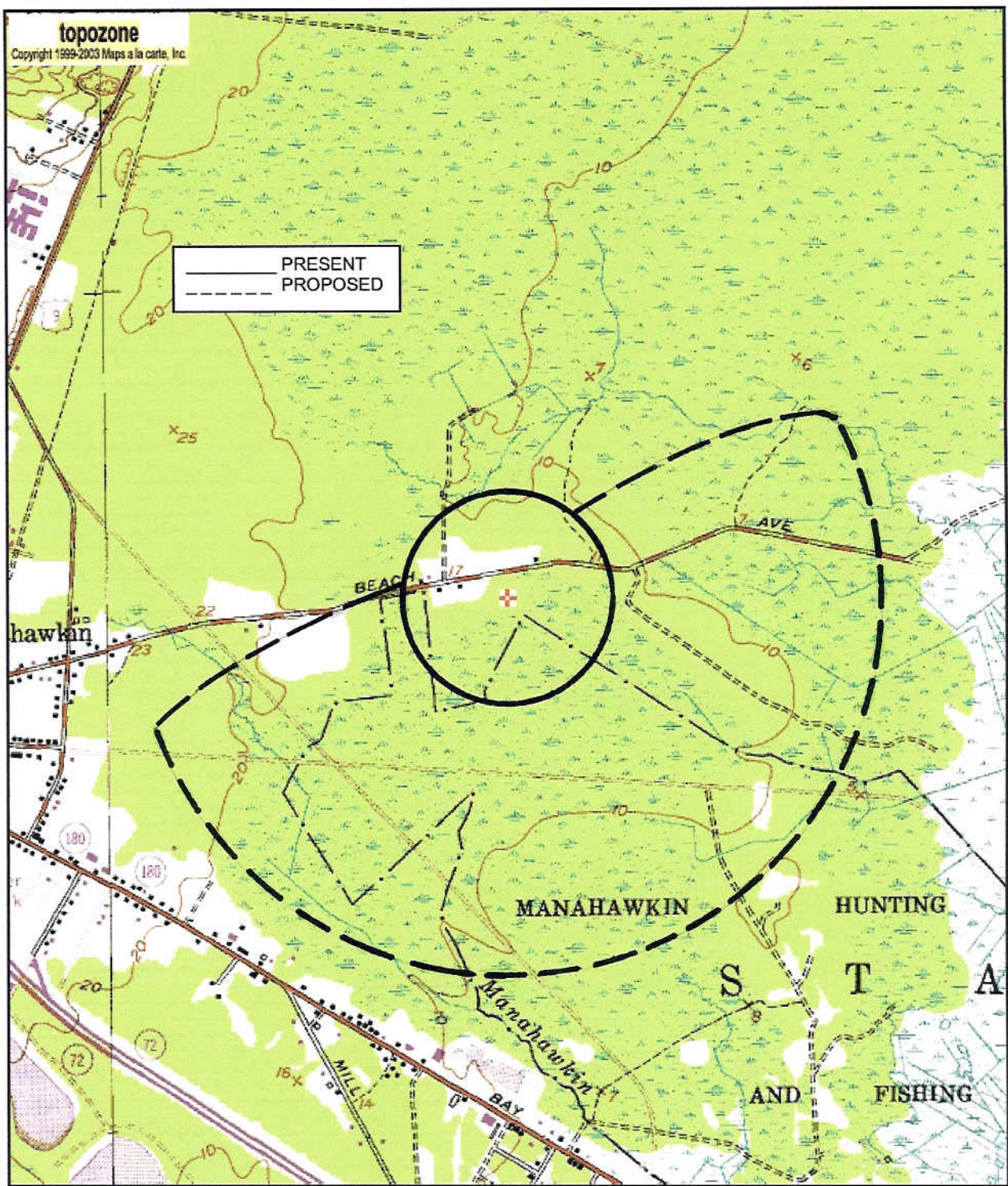




CO-CH ALLOCATION MAP FOR THE PROPOSED W300AO, MANAHAWKIN, NJ TRANSLATOR OPERATION



ADJACENT CHANNEL ALLOCATION MAP FOR THE PROPOSED W300AO, MANAHAWKIN, NJ TRANSLATOR OPERATION



39° 41' 57"N, 74° 14' 05"W (NAD27)
WJRZ Radio Heliport, USGS Ship Bottom (NJ) Quadrangle
 Projection is UTM Zone 18 NAD83 Datum

M*
 G
 M=-12.924
 G=0.489

FIGURE 4
 COMPUTED 99.3 dBu CONTOURS OF THE
 PRESENT LICENSED AND PROPOSED OPERATIONS OF
 W300AO, MANAHAWKIN, NEW JERSEY
 August 2007