

TECHNICAL EXHIBIT
APPLICATION FOR MODIFICATION OF
DTV CONSTRUCTION PERMIT
DTV STATION WHSP-DT
VINELAND, NEW JERSEY

October 9, 2001

CH 66 500 KW (MAX-DA) 396 M

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Table of Contents

Technical Narrative

Figure 1	Proposed Antenna and Supporting Structure
Figure 2	Antenna Data
Figure 3	Predicted Coverage Contours
Figure 4	DTV-TV Allocation Study
Figure 5	FM/TV Within

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Technical Narrative

This Technical Exhibit supports an application for modification of the DTV construction permit for station WHSP-DT on digital channel 66 at Vineland, New Jersey. Station WHSP-DT is presently authorized (BPCDT-19980806KG) for operation on channel 66 (782-788 MHz) with a maximum directional effective radiated power (ERP) of 200 kilowatts and an antenna radiation center height above average terrain (HAAT) of 280 meters.

By means of this application, WHSP-DT proposes to relocate to a different transmitter site, increase ERP, change directional antenna system, and increase its antenna radiation center height above average terrain (HAAT).

Specifically, WHSP-DT will operate with an Andrew ATW30H3-ETC1U-65H "elliptically" polarized antenna on a proposed 383 meter (1257 foot) tower. It is proposed to operate with a maximum directional DTV ERP of 500 kilowatts (500 kilowatts horizontal polarization and 100 kilowatts vertical polarization) and an antenna radiation center height above average terrain (HAAT) of 396 meters.

Figure 1 is a sketch of antenna showing the location of the proposed WHSP-DT antenna system. The Federal Aviation Administration (FAA) has been notified of the proposed 1257 foot tower (Aeronautical Study No. 01-AEA-1211-OE), however a Determination of No Hazard has not yet been issued. Once a Determination of No Hazard has been issued, the tower will be registered and its registration number will be provided.

The proposed transmitter site is located 48 kilometers northwest of the WHSP-TV authorized construction

permit site. The tower location is uniquely described by the following geographic coordinates (NAD 27):

40° 02' 30" North Latitude

75° 14' 11" West Longitude

Figure 2 provides the horizontal and vertical plane radiation patterns for the proposed Andrew type ATW30H3-ETC1L-65H, elliptically polarized, directional antenna system. The antenna will incorporate 0.65° of electrical beam tilt. Sheets 1 and 2 of Figure 2 show the horizontal relative field pattern data for the proposed antenna.

There are two authorized full service AM stations within 5 kilometers (3 miles) of the authorized transmitter site. Station WNWR(AM) is located 0.5 kilometer away, and station WHAT(AM) is located 5.0 kilometers away from the authorized site. With respect to FM and TV stations, the proposed transmitter site is located in an antenna farm where various other broadcasters operate. Figure 5 provides a tabulation of the FM and TV within 16 kilometers of the proposed site. Although no adverse electromagnetic impact is expected, the applicant recognizes its responsibility to correct problems that result from its proposed operation.

The transmitter site is located approximately 419 kilometers from the closest point of the US/Canadian border area. The proposed site is also more than 2300 kilometers from the closest point of the Mexican border. The closest FCC monitoring station is at Laurel, Maryland, approximately 167 kilometers to the southwest. The closest point of the National Radio Quiet Zone (VA/WV) is approximately 293 kilometers to the west-southwest. The closest point of the Table Mountain Radio Quiet Zone (CO) is more than 2500 kilometers to the west. The closest radio astronomy site operating on TV channel 37 is at Hancock, New Hampshire,

located approximately 420 kilometers to the northeast. These separations are sufficient to not be a concern for coordination purposes.

The distances to the predicted 41 and 48 dBu, F(50,90) coverage contours were determined in accordance with the provisions of Section 73.625. The average elevations from 3.2 to 16.1 kilometers from the transmitter site, were obtained from the NGDC 30-second terrain database and were used for determining the distances to coverage contours.

Figure 3 is a map showing the predicted 41 and 48 dBu, F(50,90), coverage contours. The Vineland city limits were derived from information contained in the 2000 U.S. Census for New Jersey.

Figure 4 is the separation study for DTV channel 66 from the proposed WHSP-DT site. The study has been used to determine the assignments requiring interference studies using the procedures outlined in the FCC's OET-69 bulletin. Interference calculations for the proposed WHSP-DT DTV operation are summarized below.

A DTV interference analysis has been conducted using the procedures outlined in the FCC's OET-69 bulletin which demonstrates that the proposal complies with the interference protection provisions of Section 73.623(c)(2).¹ The interference analysis was based on the presumption that other DTV facilities are operating at the DTV power level specified for their allotment and at their allotment site and HAAT. **A nominal grid size resolution of 1 km was employed.**

¹ The du Treil, Lundin & Rackley, Inc. DTV interference analysis program is based on the program and procedures outlined by the FCC in the Sixth Report and Order; subsequent Memorandum Opinion and Order; and FCC OET Bulletin No. 69. **A nominal grid size resolution of 1 km was employed.** An Alpha based processor computer system was employed. The results have been found to be in very close agreement with the results of the FCC implementation of OET Bulletin No. 69.

Interference calculations for the proposed WHSP-DT DTV operation are summarized below.

Protected NTSC/DTV Station	FCC Service Population	Proposed Interference Population
WIVE NTSC Ch. 51 Reading, PA Licensed (BLCT-19800521KW) Application (BPCT-19940630KG) CP MOD (BMPCT-19940811KL) Application (BMPCT-20010430AAL)	2,839,287 3,602,266 7,222,504 3,838,826	2,729 (0.1%) 2,639 (0.1%) 0 (0.0%) 1,150 (0.0%)
WNJT NTSC Ch. 52 Trenton, NJ	8,832,453	0 (0.0%)
WNJB NTSC Ch. 58 New Brunswick, NJ	No Interference Calculated	
NTSC Ch. 59 Vineland, NJ BPCT-19960920YV BPCT-19960920LO	No Interference Calculated	
WPHA NTSC Ch. 62 Atlantic City, NJ	1,506,459	0 (0.0%)
NEW NTSC Ch. 62 Dallas, PA	No Interference Calculated	
WMBC-TV NTSC Ch. 63 Newton, NJ Licensed (BLCT-19940913KE) CP (BPCT-19980126KH)	No Interference Calculated	
WHSP-TV NTSC Ch. 65 Vineland, NJ CP (BPCT-19960716KJ) Licensed (BLCT-19810721KI)	6,736,320 6,026,390	3,735 (0.06%) 4,820 (0.08%)
WHSB-TV NTSC Ch. 66 Marlborough, MA Licensed (BLCT-19980929KL)	No Interference Calculated	
WFME-TV NTSC Ch. 66 West Milford, NJ Licensed (BLET-19960409KE)	4,048,739	68,541 (1.7%)
WPXW NTSC Ch. 66 Manassas, VA	4,102,079	3,171 (0.1%)
WMPB NTSC Ch. 67 Baltimore, MD Licensed (BLET-312) CP (BPET-20000502ABF)	No Interference Calculated	
WCAU-DT DTV Ch. 67 Philadelphia, PA DTV Allotment	No Interference Calculated	
WHSE-TV NTSC Ch. 68 Newark, NJ Licensed (BLCT-19950901KG)	No Interference Calculated	

Protected NTSC/DTV Station	FCC Service Population	Proposed Interference Population
WFMZ-TV NTSC Ch. 69 Allentown, PA Licensed (BLCT-19990205KE) CP (BPCT-19980706KE)	2,468,151 (0.0%) 4,788,481 (0.0%)	

From the above, it is apparent that the proposed WHSP-DT DTV operation on channel 66 complies with the FCC's 2%/10% interference standard toward all authorized analog and DTV assignments.

The proposed facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed DTV antenna is located 372 meters above ground level. The maximum DTV ERP is 600 kW, which is the sum of the 500 kW (horizontal polarization) plus 100 kW (vertical polarization). A conservative vertical plane relative field value of 0.1 (for angles below 60 degrees downward) is assumed for the antenna's downward radiation (see Figure 2). The calculated power density at a point 2 meters above ground level is 0.0015 mW/cm². This is 0.3% of the FCC's recommended limit of 0.52 mW/cm² for DTV channel 66 for an "uncontrolled" environment. Therefore, based on the new responsibility threshold of 5%, the proposal will comply with the new RF emission rules.

Access to the transmitting site will be restricted and appropriately marked with warning signs. Furthermore, as this is a multi-user site, an agreement will be in effect with the other stations in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time,

wearing RF protective clothing or scheduling work when the stations are at reduced power or shut down.

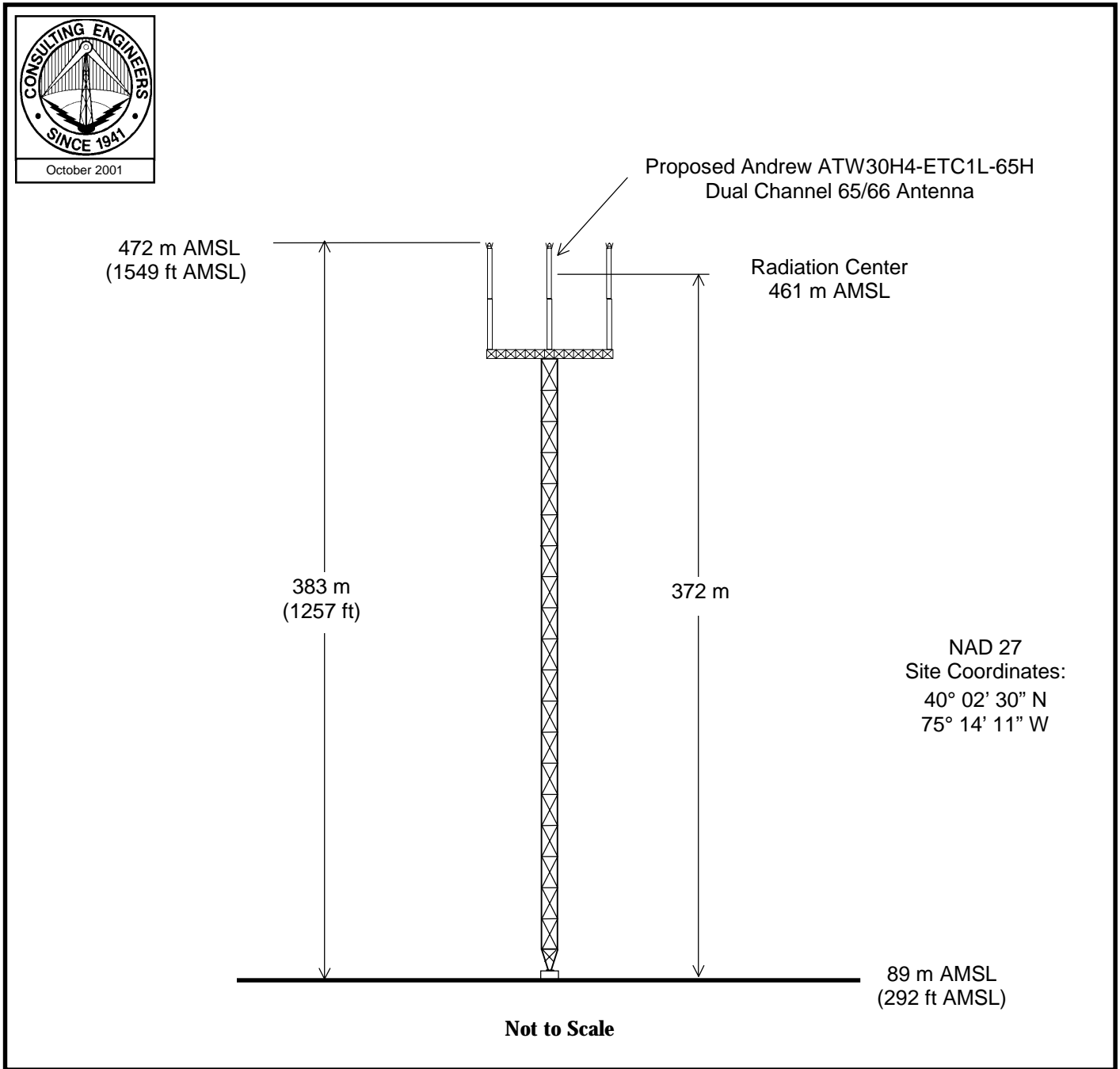
If there are questions concerning the technical portion of this application, please contact the office of the undersigned.

Jerome J. Manarchuck

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237-6019
(941) 329-6000

October 9, 2001

Figure 1



PROPOSED ANTENNA AND SUPPORTING STRUCTURE

STATION WHSP-DT

VINELAND, NEW JERSEY

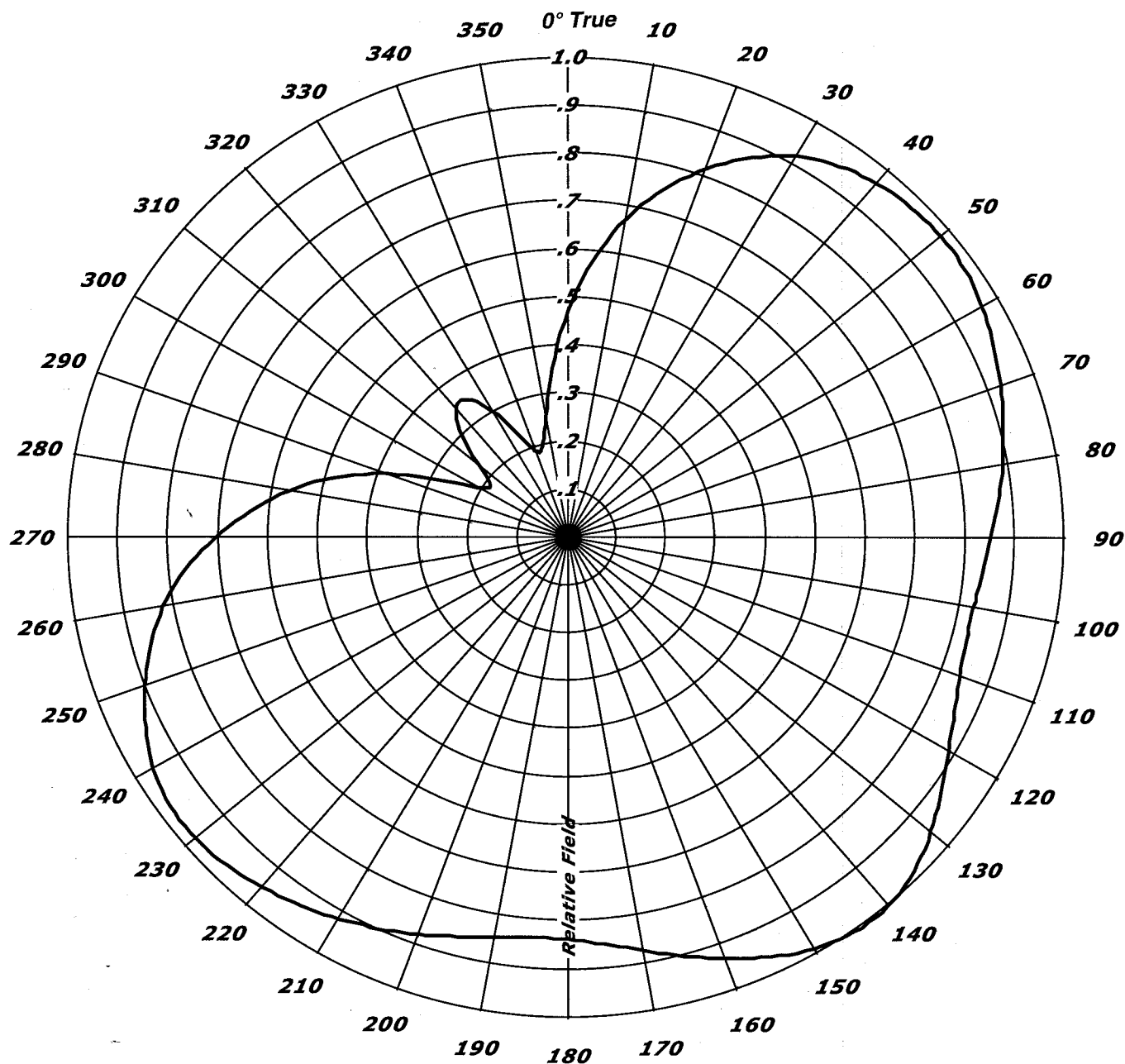
CH 66 500 KW (MAX-DA) 396 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

ANDREW
AZIMUTH PATTERN

Type: CH65AZ-H-BID-CX

	Numeric	dBd
Directivity:	<u>1.70</u>	<u>(2.30)</u>
Peak(s) At:	<u></u>	
Polarization:	<u>Horizontal</u>	
Channel:	<u>NTSC 65 & DTV 66</u>	
Location:	<u>Vineland, NJ</u>	



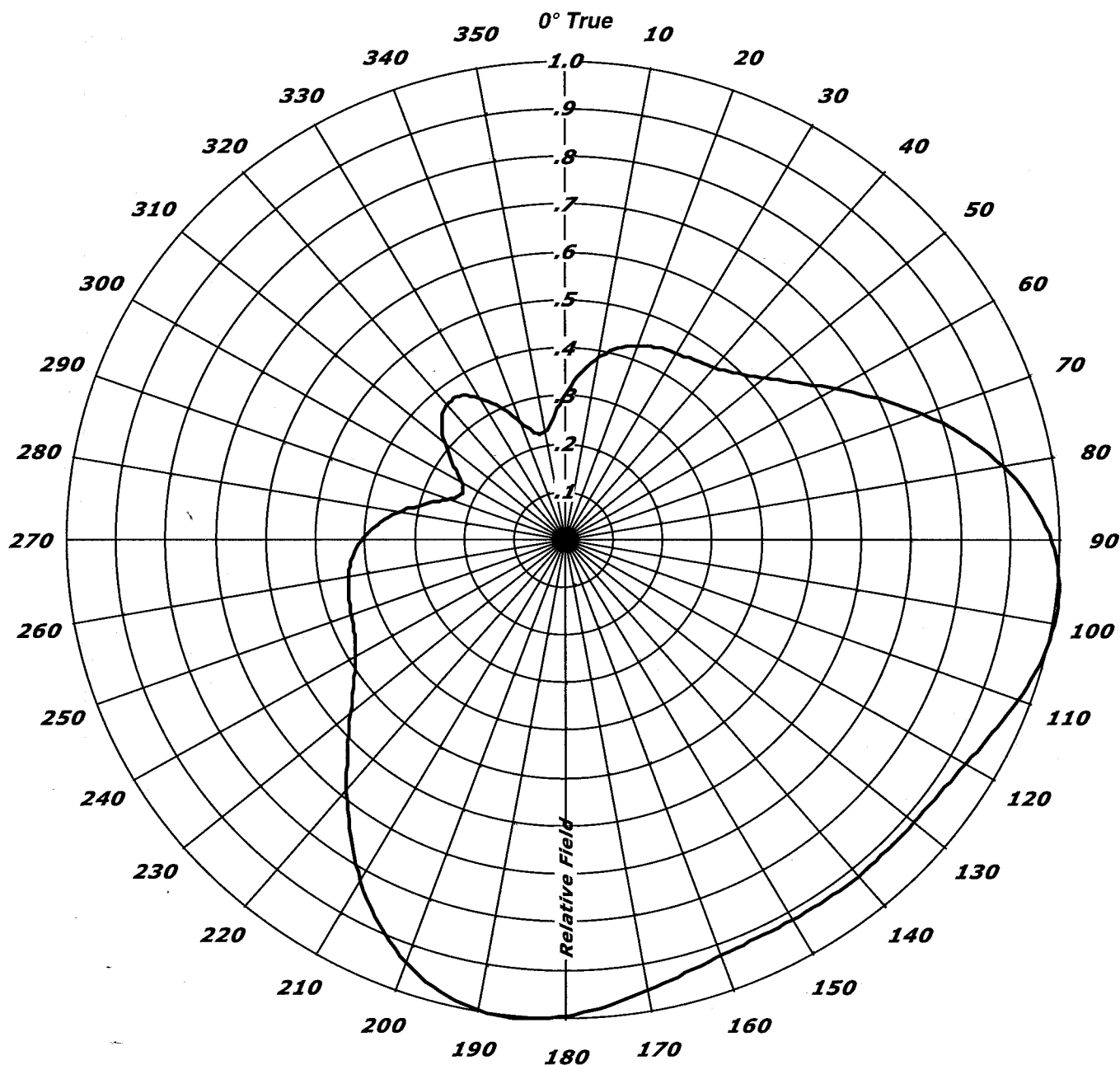

TABULATED DATA FOR AZIMUTH PATTERN
TYPE : CH65AZ-H-BID-CX

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
0	0.471	-6.54	110	0.836	-1.56	220	0.950	-0.45	330	0.305	-10.31
2	0.517	-5.73	112	0.842	-1.49	222	0.956	-0.39	332	0.279	-11.09
4	0.560	-5.04	114	0.850	-1.41	224	0.962	-0.34	334	0.252	-11.97
6	0.601	-4.42	116	0.859	-1.32	226	0.967	-0.29	336	0.227	-12.88
8	0.639	-3.89	118	0.869	-1.22	228	0.971	-0.26	338	0.207	-13.68
10	0.674	-3.43	120	0.881	-1.10	230	0.974	-0.23	340	0.194	-14.24
12	0.707	-3.01	122	0.893	-0.98	232	0.975	-0.22	342	0.188	-14.52
14	0.737	-2.65	124	0.907	-0.85	234	0.974	-0.23	344	0.192	-14.33
16	0.766	-2.32	126	0.921	-0.71	236	0.971	-0.26	346	0.205	-13.76
18	0.793	-2.01	128	0.935	-0.58	238	0.966	-0.30	348	0.226	-12.92
20	0.818	-1.74	130	0.949	-0.45	240	0.958	-0.37	350	0.256	-11.84
22	0.842	-1.49	132	0.962	-0.34	242	0.949	-0.45	352	0.292	-10.69
24	0.863	-1.28	134	0.974	-0.23	244	0.938	-0.56	354	0.333	-9.55
26	0.883	-1.08	136	0.984	-0.14	246	0.926	-0.67	356	0.378	-8.45
28	0.901	-0.91	138	0.992	-0.07	248	0.913	-0.79	358	0.425	-7.43
30	0.917	-0.75	140	0.997	-0.03	250	0.900	-0.92	360	0.471	-6.54
32	0.930	-0.63	142	1.000	0.00	252	0.886	-1.05			
34	0.941	-0.53	144	1.000	0.00	254	0.872	-1.19			
36	0.950	-0.45	146	0.997	-0.03	256	0.857	-1.34			
38	0.957	-0.38	148	0.992	-0.07	258	0.841	-1.50			
40	0.963	-0.33	150	0.985	-0.13	260	0.823	-1.69			
42	0.968	-0.28	152	0.976	-0.21	262	0.804	-1.89			
44	0.972	-0.25	154	0.966	-0.30	264	0.782	-2.14			
46	0.974	-0.23	156	0.954	-0.41	266	0.759	-2.40			
48	0.976	-0.21	158	0.942	-0.52	268	0.733	-2.70			
50	0.977	-0.20	160	0.930	-0.63	270	0.707	-3.01			
52	0.976	-0.21	162	0.918	-0.74	272	0.680	-3.35			
54	0.974	-0.23	164	0.905	-0.87	274	0.652	-3.72			
56	0.971	-0.26	166	0.893	-0.98	276	0.624	-4.10			
58	0.966	-0.30	168	0.881	-1.10	278	0.596	-4.50			
60	0.960	-0.35	170	0.870	-1.21	280	0.566	-4.94			
62	0.954	-0.41	172	0.860	-1.31	282	0.535	-5.43			
64	0.947	-0.47	174	0.852	-1.39	284	0.502	-5.99			
66	0.939	-0.55	176	0.844	-1.47	286	0.467	-6.61			
68	0.932	-0.61	178	0.839	-1.52	288	0.429	-7.35			
70	0.924	-0.69	180	0.835	-1.57	290	0.389	-8.20			
72	0.916	-0.76	182	0.834	-1.58	292	0.347	-9.19			
74	0.909	-0.83	184	0.834	-1.58	294	0.307	-10.26			
76	0.901	-0.91	186	0.835	-1.57	296	0.269	-11.40			
78	0.893	-0.98	188	0.839	-1.52	298	0.237	-12.51			
80	0.886	-1.05	190	0.843	-1.48	300	0.212	-13.47			
82	0.878	-1.13	192	0.849	-1.42	302	0.196	-14.15			
84	0.870	-1.21	194	0.855	-1.36	304	0.190	-14.42			
86	0.862	-1.29	196	0.862	-1.29	306	0.195	-14.20			
88	0.855	-1.36	198	0.869	-1.22	308	0.208	-13.64			
90	0.848	-1.43	200	0.877	-1.14	310	0.230	-12.77			
92	0.841	-1.50	202	0.885	-1.06	312	0.256	-11.84			
94	0.836	-1.56	204	0.893	-0.98	314	0.284	-10.93			
96	0.831	-1.61	206	0.901	-0.91	316	0.311	-10.14			
98	0.828	-1.64	208	0.908	-0.84	318	0.333	-9.55			
100	0.826	-1.66	210	0.916	-0.76	320	0.349	-9.14			
102	0.825	-1.67	212	0.923	-0.70	322	0.357	-8.95			
104	0.826	-1.66	214	0.930	-0.63	324	0.355	-9.00			
106	0.827	-1.65	216	0.937	-0.57	326	0.345	-9.24			
108	0.831	-1.61	218	0.943	-0.51	328	0.328	-9.68			

ANDREW **AZIMUTH PATTERN**

Type: CH65AZ-V-BID

	Numeric	dBd
Directivity:	<u>2.00</u>	<u>(3.01)</u>
Peak(s) At:	<u></u>	
Polarization:	<u>Vertical</u>	
Channel:	<u>NTSC 65 & DTV 66</u>	
Location:	<u>Vineland, NJ</u>	

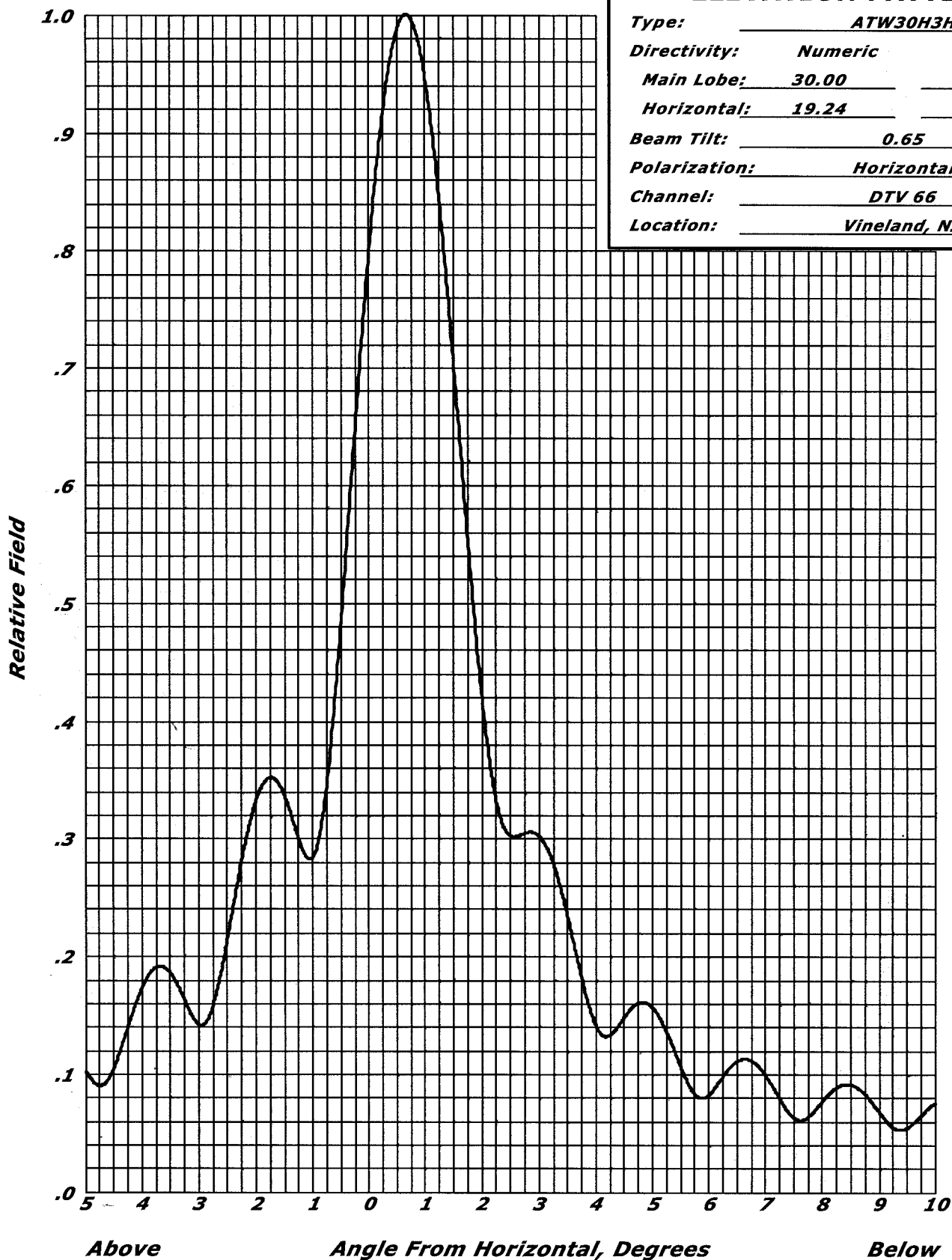



TABULATED DATA FOR AZIMUTH PATTERN
TYPE : CH65AZ-V-BID

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
0	0.303	-10.37	110	0.969	-0.27	220	0.684	-3.30	330	0.344	-9.27
2	0.322	-9.84	112	0.960	-0.35	222	0.657	-3.65	332	0.330	-9.63
4	0.340	-9.37	114	0.951	-0.44	224	0.632	-3.99	334	0.315	-10.03
6	0.357	-8.95	116	0.943	-0.51	226	0.607	-4.34	336	0.298	-10.52
8	0.373	-8.57	118	0.936	-0.57	228	0.584	-4.67	338	0.280	-11.06
10	0.387	-8.25	120	0.929	-0.64	230	0.563	-4.99	340	0.264	-11.57
12	0.399	-7.98	122	0.924	-0.69	232	0.544	-5.29	342	0.249	-12.08
14	0.410	-7.74	124	0.919	-0.73	234	0.527	-5.56	344	0.237	-12.51
16	0.420	-7.54	126	0.916	-0.76	236	0.512	-5.81	346	0.230	-12.77
18	0.427	-7.39	128	0.914	-0.78	238	0.498	-6.06	348	0.228	-12.84
20	0.433	-7.27	130	0.913	-0.79	240	0.487	-6.25	350	0.231	-12.73
22	0.438	-7.17	132	0.913	-0.79	242	0.478	-6.41	352	0.239	-12.43
24	0.442	-7.09	134	0.913	-0.79	244	0.471	-6.54	354	0.252	-11.97
26	0.446	-7.01	136	0.913	-0.79	246	0.465	-6.65	356	0.267	-11.47
28	0.448	-6.97	138	0.914	-0.78	248	0.460	-6.74	358	0.285	-10.90
30	0.451	-6.92	140	0.914	-0.78	250	0.456	-6.82	360	0.303	-10.37
32	0.453	-6.88	142	0.914	-0.78	252	0.453	-6.88			
34	0.456	-6.82	144	0.914	-0.78	254	0.451	-6.92			
36	0.460	-6.74	146	0.914	-0.78	256	0.448	-6.97			
38	0.465	-6.65	148	0.913	-0.79	258	0.446	-7.01			
40	0.471	-6.54	150	0.913	-0.79	260	0.442	-7.09			
42	0.478	-6.41	152	0.913	-0.79	262	0.438	-7.17			
44	0.487	-6.25	154	0.913	-0.79	264	0.433	-7.27			
46	0.498	-6.06	156	0.914	-0.78	266	0.427	-7.39			
48	0.512	-5.81	158	0.916	-0.76	268	0.420	-7.54			
50	0.527	-5.56	160	0.919	-0.73	270	0.410	-7.74			
52	0.544	-5.29	162	0.924	-0.69	272	0.399	-7.98			
54	0.563	-4.99	164	0.929	-0.64	274	0.387	-8.25			
56	0.584	-4.67	166	0.936	-0.57	276	0.373	-8.57			
58	0.607	-4.34	168	0.943	-0.51	278	0.357	-8.95			
60	0.632	-3.99	170	0.951	-0.44	280	0.340	-9.37			
62	0.657	-3.65	172	0.960	-0.35	282	0.322	-9.84			
64	0.684	-3.30	174	0.969	-0.27	284	0.303	-10.37			
66	0.711	-2.96	176	0.977	-0.20	286	0.285	-10.90			
68	0.739	-2.63	178	0.984	-0.14	288	0.267	-11.47			
70	0.767	-2.30	180	0.991	-0.08	290	0.252	-11.97			
72	0.795	-1.99	182	0.996	-0.03	292	0.239	-12.43			
74	0.822	-1.70	184	0.999	-0.01	294	0.231	-12.73			
76	0.848	-1.43	186	1.000	0.00	296	0.228	-12.84			
78	0.872	-1.19	188	0.999	-0.01	298	0.230	-12.77			
80	0.896	-0.95	190	0.995	-0.04	300	0.237	-12.51			
82	0.917	-0.75	192	0.988	-0.10	302	0.249	-12.08			
84	0.936	-0.57	194	0.979	-0.18	304	0.264	-11.57			
86	0.953	-0.42	196	0.967	-0.29	306	0.280	-11.06			
88	0.967	-0.29	198	0.953	-0.42	308	0.298	-10.52			
90	0.979	-0.18	200	0.936	-0.57	310	0.315	-10.03			
92	0.988	-0.10	202	0.917	-0.75	312	0.330	-9.63			
94	0.995	-0.04	204	0.896	-0.95	314	0.344	-9.27			
96	0.999	-0.01	206	0.872	-1.19	316	0.355	-9.00			
98	1.000	0.00	208	0.848	-1.43	318	0.364	-8.78			
100	0.999	-0.01	210	0.822	-1.70	320	0.369	-8.66			
102	0.996	-0.03	212	0.795	-1.99	322	0.370	-8.64			
104	0.991	-0.08	214	0.767	-2.30	324	0.369	-8.66			
106	0.984	-0.14	216	0.739	-2.63	326	0.364	-8.78			
108	0.977	-0.20	218	0.711	-2.96	328	0.355	-9.00			

ANDREW **ELEVATION PATTERN**

Type:	ATW30H3H	
Directivity:	Numeric	dBd
Main Lobe:	30.00	(14.77)
Horizontal:	19.24	(12.84)
Beam Tilt:	0.65	
Polarization:	Horizontal	
Channel:	DTV 66	
Location:	Vineland, NJ	

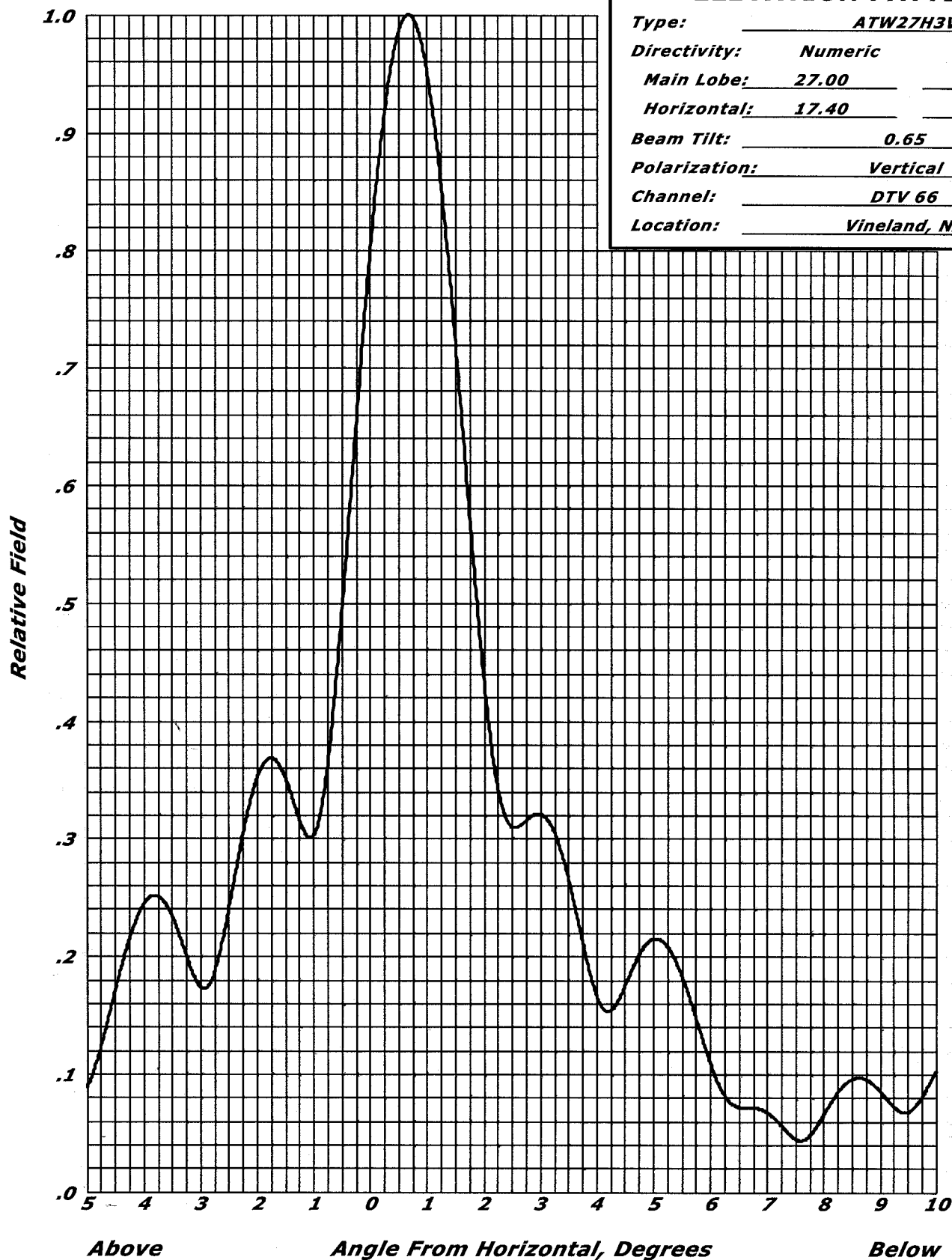



TABULATED DATA FOR ELEVATION PATTERN
TYPE : ATW30H3H

<i>Angle Field dB -5 To 10 In 0.25 Increments</i>	<i>Angle Field dB 10 To 90 In 0.5 Increments</i>	<i>Angle Field dB</i>	<i>Angle Field dB</i>
-5.00 0.084-21.50	8.75 0.110-19.15	35.00 0.023-32.76	62.50 0.027-31.23
-4.75 0.058-24.72	9.00 0.097-20.25	35.50 0.030-30.45	63.00 0.030-30.57
-4.50 0.052-25.66	9.25 0.080-21.95	36.00 0.026-31.55	63.50 0.027-31.30
-4.25 0.083-21.64	9.50 0.069-23.21	36.50 0.017-35.64	64.00 0.021-33.60
-4.00 0.119-18.50	9.75 0.073-22.78	37.00 0.018-34.80	64.50 0.012-38.45
-3.75 0.142-16.98	10.00 0.084-21.52	37.50 0.027-31.30	65.00 0.005-45.79
-3.50 0.143-16.91	10.50 0.092-20.70	38.00 0.028-31.02	65.50 0.012-38.36
-3.25 0.120-18.41	11.00 0.069-23.21	38.50 0.020-34.00	66.00 0.021-33.64
-3.00 0.081-21.82	11.50 0.058-24.74	39.00 0.015-36.64	66.50 0.027-31.32
-2.75 0.067-23.53	12.00 0.076-22.41	39.50 0.023-32.72	67.00 0.030-30.40
-2.50 0.116-18.68	12.50 0.073-22.79	40.00 0.029-30.82	67.50 0.030-30.55
-2.25 0.181-14.86	13.00 0.050-25.95	40.50 0.025-32.05	68.00 0.026-31.77
-2.00 0.229-12.81	13.50 0.055-25.25	41.00 0.016-36.18	68.50 0.019-34.37
-1.75 0.245-12.21	14.00 0.067-23.47	41.50 0.017-35.64	69.00 0.011-39.52
-1.50 0.221-13.10	14.50 0.055-25.15	42.00 0.026-31.75	69.50 0.002-52.78
-1.25 0.161-15.85	15.00 0.039-28.09	42.50 0.029-30.80	70.00 0.009-40.76
-1.00 0.120-18.38	15.50 0.052-25.68	43.00 0.023-32.80	70.50 0.018-35.02
-0.75 0.216-13.32	16.00 0.057-24.83	43.50 0.014-37.00	71.00 0.025-32.12
-0.50 0.385-8.28	16.50 0.042-27.57	44.00 0.018-34.96	71.50 0.030-30.54
-0.25 0.570-4.88	17.00 0.036-28.95	44.50 0.026-31.54	72.00 0.032-29.82
0.00 0.742-2.59	17.50 0.049-26.14	45.00 0.028-30.96	72.50 0.032-29.78
0.25 0.881-1.10	18.00 0.048-26.39	45.50 0.022-33.18	73.00 0.030-30.37
0.50 0.970-0.26	18.50 0.032-29.80	46.00 0.013-37.41	73.50 0.026-31.63
0.75 1.001 0.01	19.00 0.035-29.08	46.50 0.018-35.13	74.00 0.021-33.74
1.00 0.972-0.24	19.50 0.046-26.73	47.00 0.026-31.60	74.50 0.014-37.18
1.25 0.891-1.00	20.00 0.040-28.02	47.50 0.029-30.76	75.00 0.007-43.64
1.50 0.772-2.25	20.50 0.027-31.53	48.00 0.024-32.48	75.50 0.002-56.33
1.75 0.637-3.91	21.00 0.035-29.18	48.50 0.015-36.59	76.00 0.008-41.69
2.00 0.514-5.79	21.50 0.042-27.49	49.00 0.015-36.40	76.50 0.015-36.63
2.25 0.428-7.38	22.00 0.033-29.55	49.50 0.024-32.37	77.00 0.020-33.80
2.50 0.389-8.20	22.50 0.025-32.15	50.00 0.029-30.69	77.50 0.025-32.02
2.75 0.379-8.42	23.00 0.035-29.07	50.50 0.027-31.37	78.00 0.029-30.88
3.00 0.369-8.66	23.50 0.039-28.13	51.00 0.019-34.49	78.50 0.031-30.19
3.25 0.341-9.35	24.00 0.029-30.83	51.50 0.012-38.27	79.00 0.032-29.84
3.50 0.293-10.66	24.50 0.023-32.60	52.00 0.018-34.81	79.50 0.032-29.77
3.75 0.237-12.51	25.00 0.034-29.26	52.50 0.026-31.60	80.00 0.032-29.95
4.00 0.192-14.34	25.50 0.037-28.75	53.00 0.029-30.73	80.50 0.030-30.33
4.25 0.178-15.01	26.00 0.026-31.84	53.50 0.025-32.01	81.00 0.028-30.91
4.50 0.189-14.45	26.50 0.022-33.13	54.00 0.016-35.72	81.50 0.026-31.67
4.75 0.203-13.84	27.00 0.033-29.68	54.50 0.011-39.19	82.00 0.023-32.61
5.00 0.203-13.85	27.50 0.034-29.32	55.00 0.018-34.85	82.50 0.021-33.73
5.25 0.185-14.66	28.00 0.024-32.45	55.50 0.026-31.63	83.00 0.018-35.02
5.50 0.155-16.22	28.50 0.021-33.54	56.00 0.029-30.65	83.50 0.015-36.49
5.75 0.125-18.03	29.00 0.031-30.15	56.50 0.026-31.57	84.00 0.012-38.15
6.00 0.115-18.81	29.50 0.033-29.75	57.00 0.018-34.67	84.50 0.010-40.00
6.25 0.125-18.07	30.00 0.023-32.69	57.50 0.010-39.86	85.00 0.008-42.06
6.50 0.140-17.08	30.50 0.020-33.84	58.00 0.013-37.49	85.50 0.006-44.33
6.75 0.146-16.73	31.00 0.030-30.51	58.50 0.022-33.06	86.00 0.005-46.80
7.00 0.137-17.23	31.50 0.032-29.92	59.00 0.028-31.02	86.50 0.003-49.45
7.25 0.118-18.56	32.00 0.023-32.72	59.50 0.029-30.79	87.00 0.002-52.23
7.50 0.096-20.35	32.50 0.018-34.95	60.00 0.024-32.27	87.50 0.002-55.06
7.75 0.085-21.37	33.00 0.027-31.32	60.50 0.016-35.96	88.00 0.001-57.89
8.00 0.092-20.70	33.50 0.031-30.07	61.00 0.008-42.19	88.50 0.001-60.00
8.25 0.106-19.52	34.00 0.024-32.26	61.50 0.012-38.39	89.00 0.001-60.00
8.50 0.113-18.91	34.50 0.016-36.01	62.00 0.021-33.54	89.50 0.001-60.00

ANDREW **ELEVATION PATTERN**

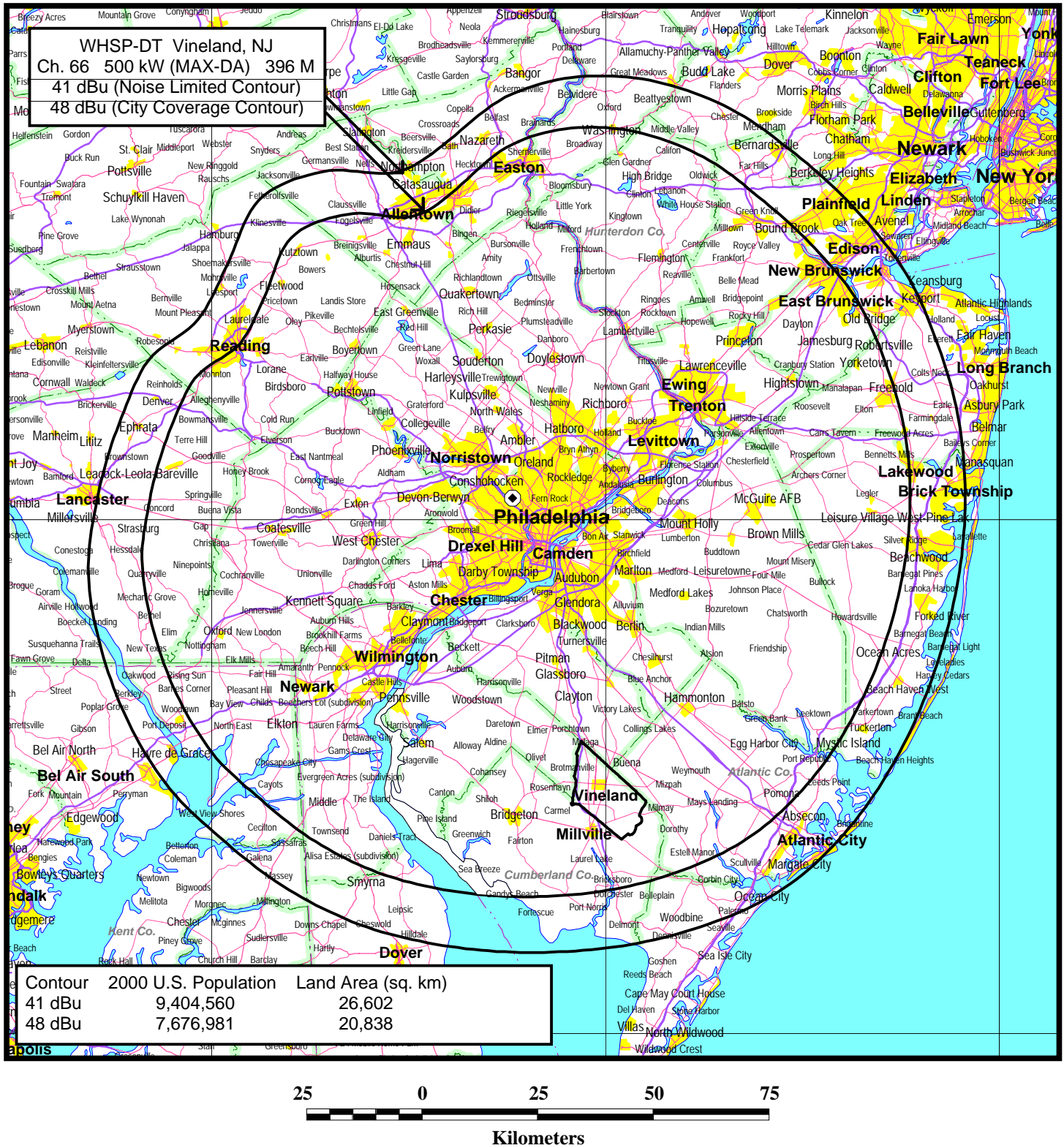
Type:	ATW27H3V	
Directivity:	Numeric	dBd
Main Lobe:	27.00	(14.30)
Horizontal:	17.40	(12.41)
Beam Tilt:	0.65	
Polarization:	Vertical	
Channel:	DTV 66	
Location:	Vineland, NJ.	




TABULATED DATA FOR ELEVATION PATTERN
TYPE : ATW27H3V

<i>Angle Field dB -5 To 10 In 0.25 Increments</i>	<i>Angle Field dB 10 To 90 In 0.5 Increments</i>	<i>Angle Field dB</i>	<i>Angle Field dB</i>
-5.00 0.089-21.00	8.75 0.096-20.37	35.00 0.068-23.36	62.50 0.034-29.37
-4.75 0.125-18.09	9.00 0.086-21.32	35.50 0.049-26.27	63.00 0.029-30.87
-4.50 0.172-15.27	9.25 0.073-22.79	36.00 0.030-30.32	63.50 0.023-32.74
-4.25 0.216-13.30	9.50 0.068-23.29	36.50 0.021-33.55	64.00 0.022-33.34
-4.00 0.245-12.22	9.75 0.081-21.80	37.00 0.016-36.17	64.50 0.025-32.01
-3.75 0.251-11.99	10.00 0.103-19.75	37.50 0.009-41.31	65.00 0.030-30.40
-3.50 0.234-12.62	10.50 0.133-17.52	38.00 0.009-40.74	65.50 0.034-29.44
-3.25 0.201-13.96	11.00 0.122-18.24	38.50 0.014-37.38	66.00 0.034-29.28
-3.00 0.174-15.19	11.50 0.082-21.74	39.00 0.013-37.43	66.50 0.032-29.81
-2.75 0.188-14.52	12.00 0.045-26.86	39.50 0.020-33.89	67.00 0.029-30.67
-2.50 0.242-12.31	12.50 0.031-30.20	40.00 0.039-28.24	67.50 0.028-30.97
-2.25 0.306-10.29	13.00 0.019-34.35	40.50 0.058-24.73	68.00 0.032-29.85
-2.00 0.353 -9.05	13.50 0.036-28.85	41.00 0.070-23.12	68.50 0.040-27.90
-1.75 0.369 -8.66	14.00 0.055-25.13	41.50 0.070-23.11	69.00 0.050-26.04
-1.50 0.352 -9.08	14.50 0.051-25.81	42.00 0.059-24.59	69.50 0.059-24.60
-1.25 0.316-10.01	15.00 0.044-27.12	42.50 0.042-27.50	70.00 0.066-23.63
-1.00 0.304-10.35	15.50 0.073-22.74	43.00 0.028-31.12	70.50 0.070-23.10
-0.75 0.366 -8.73	16.00 0.101-19.89	43.50 0.022-33.14	71.00 0.071-22.96
-0.50 0.497 -6.07	16.50 0.102-19.80	44.00 0.020-34.09	71.50 0.069-23.19
-0.25 0.654 -3.68	17.00 0.077-22.24	44.50 0.014-36.80	72.00 0.065-23.75
0.00 0.803 -1.90	17.50 0.044-27.08	45.00 0.009-40.62	72.50 0.059-24.60
0.25 0.920 -0.73	18.00 0.022-33.25	45.50 0.012-38.56	73.00 0.052-25.65
0.50 0.987 -0.11	18.50 0.008-42.22	46.00 0.015-36.69	73.50 0.046-26.74
0.75 0.997 -0.02	19.00 0.017-35.52	46.50 0.014-36.80	74.00 0.042-27.55
1.00 0.949 -0.45	19.50 0.034-29.42	47.00 0.020-33.87	74.50 0.041-27.77
1.25 0.851 -1.40	20.00 0.037-28.70	47.50 0.036-28.99	75.00 0.043-27.38
1.50 0.717 -2.88	20.50 0.032-29.78	48.00 0.053-25.60	75.50 0.046-26.65
1.75 0.569 -4.90	21.00 0.052-25.61	48.50 0.065-23.77	76.00 0.051-25.88
2.00 0.433 -7.26	21.50 0.082-21.78	49.00 0.069-23.27	76.50 0.055-25.23
2.25 0.342 -9.33	22.00 0.095-20.49	49.50 0.063-23.99	77.00 0.058-24.76
2.50 0.310-10.17	22.50 0.084-21.46	50.00 0.051-25.85	77.50 0.060-24.49
2.75 0.316-10.00	23.00 0.059-24.59	50.50 0.037-28.59	78.00 0.060-24.40
3.00 0.321 -9.86	23.50 0.033-29.59	51.00 0.029-30.78	78.50 0.060-24.50
3.25 0.305-10.32	24.00 0.017-35.31	51.50 0.028-30.95	79.00 0.058-24.76
3.50 0.265-11.54	24.50 0.006-44.59	52.00 0.029-30.82	79.50 0.055-25.16
3.75 0.212-13.49	25.00 0.013-37.49	52.50 0.025-31.90	80.00 0.052-25.69
4.00 0.166-15.58	25.50 0.024-32.43	53.00 0.019-34.48	80.50 0.048-26.34
4.25 0.154-16.22	26.00 0.024-32.44	53.50 0.014-37.09	81.00 0.044-27.08
4.50 0.176-15.11	26.50 0.026-31.65	54.00 0.015-36.37	81.50 0.040-27.90
4.75 0.202-13.89	27.00 0.049-26.19	54.50 0.018-35.10	82.00 0.036-28.78
5.00 0.215-13.34	27.50 0.074-22.67	55.00 0.017-35.52	82.50 0.033-29.69
5.25 0.208-13.62	28.00 0.084-21.50	55.50 0.015-36.52	83.00 0.029-30.61
5.50 0.184-14.72	28.50 0.076-22.36	56.00 0.020-33.78	83.50 0.027-31.51
5.75 0.147-16.64	29.00 0.055-25.16	56.50 0.033-29.59	84.00 0.024-32.38
6.00 0.109-19.22	29.50 0.033-29.69	57.00 0.047-26.61	84.50 0.022-33.23
6.25 0.082-21.72	30.00 0.018-34.71	57.50 0.057-24.88	85.00 0.020-34.06
6.50 0.072-22.82	30.50 0.009-40.63	58.00 0.062-24.18	85.50 0.018-34.90
6.75 0.072-22.88	31.00 0.006-44.85	58.50 0.060-24.42	86.00 0.016-35.79
7.00 0.068-23.37	31.50 0.015-36.32	59.00 0.053-25.54	86.50 0.014-36.78
7.25 0.057-24.93	32.00 0.019-34.38	59.50 0.042-27.47	87.00 0.013-37.94
7.50 0.045-26.88	32.50 0.019-34.23	60.00 0.033-29.72	87.50 0.011-39.35
7.75 0.049-26.25	33.00 0.034-29.41	60.50 0.029-30.78	88.00 0.009-41.12
8.00 0.067-23.51	33.50 0.057-24.87	61.00 0.032-30.01	88.50 0.007-43.49
8.25 0.085-21.37	34.00 0.075-22.53	61.50 0.035-29.01	89.00 0.005-46.91
8.50 0.096-20.34	34.50 0.079-22.09	62.00 0.037-28.73	89.50 0.002-52.87

Figure 3



PREDICTED COVERAGE CONTOURS

STATION WHSP-DT
 VINELAND, NEW JERSEY
 CH 66 500 kW (MAX-DA) 396 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

DTV - DTV Separation Study

Job Title :WHSP-DT

Separation Buffer 161 km

Zone : 1

Channel 66 (782-788 MHz)

Coordinates : 40-02-30 75-14-11

Call	City	Channel	ERP(kW)	Latitude	Bear.	Dist.	Req.
Status	St	FCC File No.	Zone	HAAT(m)	Longitude	True (km)	(km)

WHSP-D	VINELAND	66	200	DA	39-44-07	135.2	47.95	
CP	NJ BPCDT -19980806	I	280		74-50-29			
DWHSPTV	VINELAND	66	107.8		39-44-07	135.2	47.95	
DTVALT	NJ	I	280		74-50-29			
DWCAU	PHILADELPHIA	67	791.8		40-02-36	352.3	0.19	24.0/110.0
DTVALT	PA	I	354		75-14-12		23.81	CLEAR
WCAU-D	PHILADELPHIA	67	112		40-02-31	322.5	0.05	24.0/110.0
CP MOD	PA B MPCDT-19980826	I	262		75-14-12		23.95	CLEAR

** End of DTV Separation Study for Channel 66 **

Figure 5
Sheet 1 of 2

FM WITHIN

Rec Type	Fac Id	Call	Status	Chan	Svc Class	Class	City	St	DA	Latitude	Longitude	ERP (kW)	HAAT (m)	RCAMSL (m)	Bear	Dist. (km)
C	9622	WOGL-F	LIC	251	FM	B	PHILADELPHIA	PA		40-02-31	075-14-11	12.5	305.0	373.0	9.7	0.0
C	20349	WUSL	LIC	255	FM	B	PHILADELPHIA	PA		40-02-31	075-14-11	18	253.0	321.0	9.7	0.0
C	30572	WPHI-F	LIC	280	FM	A	JENKINTOWN	PA		40-02-26	075-14-20	0.34	305.0	372.0	239.8	0.3
C	65190	WRTI	LIC	211	FM	B	PHILADELPHIA	PA	D	40-02-21	075-14-13	12	308.0	374.0	189.1	0.3
C	74213	WXTU	LIC	223	FM	B	PHILADELPHIA	PA	D	40-02-21	075-14-13	15.5	274.0	341.0	189.1	0.3
C	74213	WXTU	CP	223	FM	B	PHILADELPHIA	PA	D	40-02-21	075-14-13	15	277.0	341.0	189.1	0.3
C	22308	WMWX	CP	239	FM	B	PHILADELPHIA	PA	N	40-02-21	075-14-13	8.9	350.0	416.0	189.1	0.3
C	22308	WMWX	LIC	239	FM	B	PHILADELPHIA	PA	N	40-02-21	075-14-13	8.9	350.0	416.0	189.1	0.3
C	51434	WPTP	LIC	243	FM	B	PHILADELPHIA	PA		40-02-21	075-14-13	17	264.0	330.0	189.1	0.3
C	71382	WBEB	LIC	266	FM	B	PHILADELPHIA	PA		40-02-21	075-14-13	14	287.0	354.0	189.1	0.3
C	25094	WMGK	LIC	275	FM	B	PHILADELPHIA	PA	N	40-02-21	075-14-13	8.9	350.0	416.0	189.1	0.3
C	72336	WHYY-F	LIC	215	FM	B	PHILADELPHIA	PA		40-02-30	075-14-24	13.5	280.0	347.0	270.0	0.3
C	28628	WYSP	LIC	231	FM	B	PHILADELPHIA	PA		40-02-30	075-14-24	16	274.0	340.0	270.0	0.3
C	53969	WLCE	LIC	283	FM	B	PHILADELPHIA	PA	N	40-02-30	075-14-24	16	266.0	334.0	270.0	0.3
C	71316	WDAS-F	LIC	287	FM	B	PHILADELPHIA	PA	N	40-02-30	075-14-24	16.5	266.0	334.0	270.0	0.3
C	20349	WUSL	CP	255	FM	B	PHILADELPHIA	PA	N	40-02-37	075-14-32	27	204.0	271.0	293.5	0.5
C	20348	WIOQ	LIC	271	FM	B	PHILADELPHIA	PA		40-02-37	075-14-32	27	204.0	271.0	293.5	0.5
C	20348	WIOQ	LIC	271	FM	B	PHILADELPHIA	PA	N	40-02-37	075-14-32	27	204.0	271.0	293.5	0.5
C	68229	WXPB	LIC	203	FM	B	PHILADELPHIA	PA	N	40-02-36	075-14-33	5	280.0	349.0	289.6	0.6
C	25079	WPLY	CP	262	FM	B	MEDIA	PA	D	40-02-36	075-14-33	17	263.0	329.0	289.6	0.6
C	22308	WMWX	LIC	239	FM	B	PHILADELPHIA	PA		40-03-33	075-14-20	50	153.0	225.0	353.7	2.0
C	53973	WJJZ	LIC	291	FM	B	PHILADELPHIA	PA		40-04-58	075-10-54	22.5	226.0	291.0	45.5	6.5
C	59344	WHHS	LIC	300	FM	D	HAVERTOWN	PA	N	39-58-59	075-18-10	0.014	49.0	113.0	221.0	8.6
C	70229	WXVU	LIC	206	FM	A	VILLANOVA	PA	D	40-01-58	075-20-15				263.5	8.7
C	71637	WPEB	CP	201	FM	D	PHILADELPHIA	PA	N	39-57-33	075-12-13	0.001	15.0	49.0	163.1	9.6
C	71637	WPEB	LIC	201	FM	D	PHILADELPHIA	PA	N	39-57-26	075-12-07	0.001	60.0	94.0	162.6	9.8
C	17596	WKDU	LIC	219	FM	A	PHILADELPHIA	PA	D	39-57-36	075-11-27	0.8	47.0	84.0	156.9	9.9
C	25438	WMMR	LIC	227	FM	B	PHILADELPHIA	PA	N	39-57-09	075-10-05	18	252.0	280.0	149.6	11.5
C	25438	WMMR	APP	227	FM	B	PHILADELPHIA	PA	N	39-57-09	075-10-05	16.5	264.0	292.0	149.6	11.5
C	8127	WYBF	LIC	206	FM	A	RADNOR	PA	D	40-03-22	075-22-30				277.8	11.9

Figure 5
Sheet 2 of 2

TV WITHIN

<i>Rec Type</i>	<i>Facility Id</i>	<i>Call</i>	<i>Status</i>	<i>Chan</i>	<i>Svc Class</i>	<i>City</i>	<i>St</i>	<i>DA</i>	<i>Latitude</i>	<i>Longitude</i>	<i>ERP (kW)</i>	<i>HAAT (m)</i>	<i>RCAMSL (m)</i>	<i>Bearing</i>	<i>Dist. (km)</i>
C	53579	WXHL-L	APP	14	CA	WILMINGTON	DE	C	40-02-30	075-14-11	146.000		436	94.58	0
C	51984	WPPX	APP	31	DT	WILMINGTON	DE	D	40-02-30	075-14-11	200.000	374	439	94.58	0
C	28480	WYBE	APP	34	DT	PHILADELPHIA	PA	N	40-02-30	075-14-11	500.000	343	408	94.58	0
C	73879	WPHL-T	APP	54	DT	PHILADELPHIA	PA	D	40-02-30	075-14-11	500.000	354	419	94.58	0
C	12499	WPSG	APP	32	DT	PHILADELPHIA	PA	D	40-02-30	075-14-11	250.000	400	465	94.58	0
C	28480	WYBE	APP	35	TV	PHILADELPHIA	PA	N	40-02-30	075-14-11	1000.00	343	408	94.58	0
C	63153	WCAU	CP	67	DT	PHILADELPHIA	PA	N	40-02-31	075-14-12	759.000	262	330	322.1	0.04
C	63153	WCAU	LIC	10	TV	PHILADELPHIA	PA	N	40-02-36	075-14-12	191.000	354	422	351.7	0.19
C	28480	WYBE	LIC	35	TV	PHILADELPHIA	PA	D	40-02-26	075-14-20	1910.00	284	349	239.8	0.25
C	51568	WTXF-T	LIC	29	TV	PHILADELPHIA	PA		40-02-26	075-14-20	5000.00	347	407	239.8	0.25
C	74216	WXTV-L	LIC	28	CA	PHILADELPHIA	PA	D	40-02-21	075-14-13	10.900		226	189.0	0.28
C	12499	WPSG	CP	32	DT	PHILADELPHIA	PA	D	40-02-21	075-14-13	107.000	296.8	360	189.0	0.28
C	72338	WHYY-T	CP	55	DT	WILMINGTON	DE	D	40-02-30	075-14-23	337.000	259	323	269.9	0.28
C	12499	WPSG	LIC	57	TV	PHILADELPHIA	PA	D	40-02-21	075-14-13	5000.00	353	419	189.0	0.28
C	12499	WPSG	CP	57	TV	PHILADELPHIA	PA	N	40-02-21	075-14-13	3470.00	359	425	189.0	0.28
C	72338	WHYY-T	LIC	12	TV	WILMINGTON	DE	D	40-02-30	075-14-24	309.000	294	360	269.9	0.31
C	73879	WPHL-T	LIC	17	TV	PHILADELPHIA	PA		40-02-30	075-14-24	2340.00	320	389	269.9	0.31
C	60560	WHSP-T	CP	65	TV	VINELAND	NJ	D	40-02-30	075-14-24	4070.00	391	456	269.9	0.31
C	8616	WPVI-T	LIC	6	TV	PHILADELPHIA	PA	N	40-02-39	075-14-26	74.100	332	404	308.0	0.45
C	25453	KYW-TV	LIC	3	TV	PHILADELPHIA	PA		40-02-39	075-14-26	100.000	305	375	308.0	0.45
C	25453	KYW-TV	CP	26	DT	PHILADELPHIA	PA	N	40-02-33	075-14-33	770.000	375	440	280.1	0.53
C	8616	WPVI-T	CP	64	DT	PHILADELPHIA	PA	N	40-02-33	075-14-33	500.000	390	456	280.1	0.53
C	7623	WGTV	CP	27	DT	BURLINGTON	NJ	D	40-02-36	075-14-33	225.000	335	405	289.6	0.55
C	7623	WGTV	LIC	48	TV	BURLINGTON	NJ	N	40-02-36	075-14-33	2340.00	335	415	289.6	0.55
C	51568	WTXF-T	APP	42	DT	PHILADELPHIA	PA	D	40-03-33	075-14-21	1000.00	163	234	352.9	1.96
C	51568	WTXF-T	CP	42	DT	PHILADELPHIA	PA	N	40-03-33	075-14-21	305.000	161	231	352.9	1.96

Federal Communications Commission Washington, D.C. 20554	Approved by OMB 3060-0027 (May 1999)	FOR FCC USE ONLY
FCC 301		
APPLICATION FOR CONSTRUCTION PERMIT FOR COMMERCIAL BROADCAST STATION		FOR COMMISSION USE ONLY FILE NO. -
Read INSTRUCTIONS Before Filling Out Form		

Section I - General Information

1.	Legal Name of the Applicant UNIVISION PARTNERSHIP OF VINELAND		
	Mailing Address 1999 AVENUE OF THE STARS SUITE 3050		
	City LOS ANGELES	State or Country (if foreign address) CA	ZIP Code 90067 -
	Telephone Number (include area code) 3105567600	E-Mail Address (if available)	
		Call Sign WHSP-DT	Facility Identifier 60560
2.	Contact Representative (if other than applicant) LAUREN LYNCH FLICK	Firm or Company Name SHAW PITTMAN LLP	
	Telephone Number (include area code) 2026638000	E-Mail Address (if available) LAUREN.LYNCH.FLICK@SHAWPITTMAN.COM	
3.	If this application has been submitted without a fee, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114): <input type="radio"/> Governmental Entity <input type="radio"/> Other		
4.	Application Purpose <input type="radio"/> New station <input type="radio"/> Major Change in licensed facility <input type="radio"/> Minor Change in licensed facility <input type="radio"/> Major Modification of construction permit <input checked="" type="radio"/> Minor Modification of construction permit <input type="radio"/> Major Amendment to pending application <input type="radio"/> Minor Amendment to pending application (a) File number of original construction permit: BPCDT-19980806KG <input type="checkbox"/> NA (b) Service Type: <input type="radio"/> AM <input type="radio"/> FM <input type="radio"/> TV <input checked="" type="radio"/> DTV (c) Community of License: City: VINELAND State: NJ (d) Facility Type <input checked="" type="radio"/> Main <input type="radio"/> Auxiliary If an amendment, submit as an Exhibit a listing by Section and Question Number the portions of the pending application that are being revised. [Exhibit 1]		

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

Section II - Legal

1.	Certification. Applicant certifies that it has answered each question in this application based on its review of the application instructions and worksheets. Applicant further certifies that where it has made an affirmative certification below, this certification constitutes its representation that the application satisfies each of the pertinent standards and criteria set forth in the application instructions and worksheets.	<input checked="" type="radio"/> Yes <input type="radio"/> No
2.	Parties to the Application. a. List the applicant, and, if other than a natural person, its officers, directors, stockholders with attributable interests, non-insulated partners and/or members. If a corporation or partnership holds an attributable interest in the applicant, list separately its officers, directors, stockholders with attributable interests, non-insulated partners and/or members. Create a separate row for each individual or entity. Attach additional pages if necessary. (1) Name and address of the applicant and, if (2) Citizenship. applicable, its officers, directors, stockholders, or partners (if other than individual also show name, address and citizenship of natural person authorized to vote the stock). List the applicant first, officers next, then directors and, thereafter, remaining stockholders and partners. (3) Positional Interest: Officer, director, general partner, limited partner, LLC member, etc (4) Percentage of votes. (5) Percentage of equity. [Enter Parties/Owners Information] <hr/> <hr/> b. Applicant certifies that equity interests not set forth above are non-attributable.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A See Explanation in [Exhibit 2]
3.	Other Authorizations. List call signs, locations, and facility identifiers of all other broadcast stations in which applicant or any party to the application has an attributable interest.	<input type="checkbox"/> N/A [Exhibit 3]
4.	Multiple Ownership. a. Applicant certifies that the proposed facility: <ol style="list-style-type: none"> 1. complies with the Commission's multiple and cross-ownership rules; 2. does not present an issue under the Commission's cross-interest policy; 3. does not present an issue under the Commission's policies relating to media interests of immediate family members; 4. complies with the Commission's policies relating to future ownership interests; and 5. complies with the Commission's restrictions relating to the insulation and non-participation of non-party investors and creditors. b. Radio Applicants Only. If the grant of the application would result in certain principal community service contour overlaps, see Local Radio Ownership Worksheet, Question 1, applicant certifies that all relevant information has been placed in public inspection file(s) and submitted to the Commission.	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 4] <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A See Explanation in [Exhibit 5]
5.	Character Issues. Applicant certifies that neither applicant nor any party to the application has or has had any interest in or connection with: <ol style="list-style-type: none"> a. any broadcast application in any proceeding where character issues were left unresolved or were resolved adversely against the applicant or party to the application; or b. any pending broadcast application in which character issues have been raised. 	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 6]
6.	Adverse Findings. Applicant certifies that, with respect to the applicant and any party to the application, no adverse finding has been made, nor has an adverse final action been taken by any court or administrative body in a civil or criminal proceeding brought under the provisions of any law related to any of the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another government unit; or discrimination.	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 7]

7.	Alien Ownership and Control. Applicant certifies that it complies with the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments.	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 8]
8.	Program Service Certification. Applicant certifies that it is cognizant of and will comply with its obligations as a commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area.	<input type="radio"/> Yes <input type="radio"/> No
9.	Local Public Notice. Applicant certifies that it has or will comply with the public notice requirements of 47 C.F.R. Section 73.3580.	<input type="radio"/> Yes <input type="radio"/> No
10.	Auction Authorization. If the application is being submitted to obtain a construction permit for which the applicant was the winning bidder in an auction, then the applicant certifies, pursuant to 47 C.F.R. Section 73.5005(a), that it has attached an exhibit containing the information required by 47 C.F.R. Sections 1.2107(d), 1.2110(i), 1.2112(a) and 1.2112(b), if applicable. An exhibit is required unless this question is inapplicable.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A [Exhibit 9]
11.	Anti-Drug Abuse Act Certification. Applicant certifies that neither applicant nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.	<input checked="" type="radio"/> Yes <input type="radio"/> No

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing ROBERT V. CAHILL	Typed or Printed Title of Person Signing VICE CHAIRMAN OF UNIVISION COMMUNICATIONS INC.
Signature	Date

SECTION III-D - DTV ENGINEERING DATA
Complete Questions 1-5 of the Certification Checklist and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.
Certification Checklist: A correct answer of "Yes" to all of the questions below will ensure an expeditious grant of a construction permit. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.

1.	The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:	
	(a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622.	<input checked="" type="radio"/> Yes <input type="radio"/> No
	(b) It will operate from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this location as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input checked="" type="radio"/> No
	(c) It will operate with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input checked="" type="radio"/> No
2.	The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. Applicant must submit the Exhibit called for in Item 13.	<input checked="" type="radio"/> Yes <input type="radio"/> No
3.	Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community.	<input checked="" type="radio"/> Yes <input type="radio"/> No
4.	The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable.	<input checked="" type="radio"/> Yes <input type="radio"/> No
5.	The antenna structure to be used by this facility has been registered by the Commission and will not require registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.	<input type="radio"/> Yes <input checked="" type="radio"/> No

SECTION III-D - DTV Engineering

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1.	Channel Number: DTV 66 Analog TV, if any 65
2.	Zone: I <input checked="" type="radio"/> II <input type="radio"/> III <input type="radio"/>
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 40 Minutes 02 Seconds 30 <input checked="" type="radio"/> North <input type="radio"/> South Longitude: Degrees 75 Minutes 14 Seconds 11 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 89 meters
6.	Overall Tower Height Above Ground Level: 383 meters
7.	Height of Radiation Center Above Ground Level: 372 meters
8.	Height of Radiation Center Above Average Terrain : 396 meters
9.	Maximum Effective Radiated Power : 500 kW
10.	Antenna Specifications: a. Manufacturer AND Model ATW30H4-ETC1L-65H

b. Electrical Beam Tilt:

0.65 degrees ☐ Not Applicable

c. Mechanical Beam Tilt:

degrees toward azimuth

degrees True ☒ Not Applicable

Attach as an Exhibit all data specified in 47 C.F.R. Section 73.685.

[Exhibit 39]

d. Polarization:

☐ Horizontal ☐ Circular ☒ Ellipticale. Directional Antenna Relative Field Values: ☐ Not applicable (Nondirectional)

[For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.]
[Relative Field Values]

10e. Directional Antenna Relative Field Values

[Fill in this subform for a composite directional (not off-the-shelf) antenna, only.]

e. Directional Antenna Relative Field Values:

Rotation (Degrees): ☒ No Rotation

Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0	.471	10	.674	20	.818	30	.917	40	.963	50	.977
60	.96	70	.924	80	.886	90	.848	100	.826	110	.836
120	.881	130	.949	140	.997	150	.985	160	.93	170	.87
180	.835	190	.843	200	.877	210	.916	220	.95	230	.974
240	.958	250	.9	260	.823	270	.707	280	.566	290	.389
300	.212	310	.23	320	.349	330	.305	340	.194	350	.256
Additional Azimuths		142	1	144	1						

If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. **Exhibit required.**

[Exhibit 40]

11. Does the proposed facility satisfy the interference protection provisions of 47 C.F.R. Section 73.623(a)? (Applicable only if **Certification Checklist** items 1(a), (b), or (c) are answered "No".) ☒ Yes ☐ No
- If No, attach as an Exhibit justification therefore, including a summary of any previously granted waivers.

[Exhibit 41]

12. If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefore. (Applicable only if **Certification Checklist** item 3 is answered "No".)

[Exhibit 42]

13.	<p>Environmental Protection Act. Submit in an Exhibit the following: [Exhibit 43]</p> <p>If Certification Checklist Item 2 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.</p> <p>By checking "Yes" to Certification Checklist Item 2, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.</p> <p>If Certification Checklist Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.</p>
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PREPARERS CERTIFICATION ON PAGE 3 MUST BE COMPLETED AND SIGNED.

SECTION III - PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name JEROME J. MANARCHUCK	Relationship to Applicant (e.g., Consulting Engineer) TECHNICAL CONSULTANT	
Signature	Date 10/09/2001	
Mailing Address 201 FLETCHER AVE.		
City SARASOTA	State or Country (if foreign address) FL	Zip Code 34237 -
Telephone Number (include area code) 9413296014	E-Mail Address (if available) JERRY@DLR.COM	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

Exhibits

Exhibit 40

Description: SEE EXHIBIT 43 - FIGURE 2

Exhibit 41

Description: SEE EXHIBIT 43 - NARRATIVE

Exhibit 43

Description: COMPREHENSIVE TECHNICAL EXHIBIT

TECHNICAL NARRATIVE
 FIGURE 1 PROPOSED ANTENNA AND SUPPORTING STRUCTURE
 FIGURE 2 ANTENNA DATA
 FIGURE 3 PREDICTED COVERAGE CONTOURS

FIGURE 4 TV/DTV ALLOCATION STUDY
FIGURE 5 FM/TV WITHIN
