

TECHNICAL EXHIBIT
APPLICATION FOR MODIFICATION OF
DTV CONSTRUCTION PERMIT
STATION WCTX-DT
NEW HAVEN, CONNECTICUT
CH 39 100 KW (MAX-DA) 333 M

Technical Narrative

This Technical Exhibit supports an application for modification of the construction permit for WCTX-DT at New Haven, Connecticut. Station WCTX-DT is presently authorized by outstanding construction permit (BPCDT-19991026ABL, Facility ID 33081) to operate on DTV channel 6 with a directional antenna maximum effective radiated power (ERP) of 2.1 kilowatts and a antenna radiation center height above average terrain (HAAT) of 333 meters.

As detailed elsewhere in this application, WCTX-DT proposes to exchange its DTV channel 6 allotment with WEDY-DT on DTV channel 39 at New Haven, Connecticut pursuant to Section 73.623. Therefore, by means of this instant application it is proposed to modify the WCTX-DT construction permit to specify operation on DTV channel 39. Specifically, WCTX-DT proposes to operate on DTV channel 39 from its existing tower located at N41°25'22", W72°57'06". The antenna structure registration number is 1043980. It is proposed to operate with a directional DTV antenna system maximum ERP of 100 kW and an HAAT of 333 meters.¹

Figure 1 provides the horizontal and vertical plane radiation patterns for the proposed Andrew type ALP16M2-HSOC-39, horizontally polarized, directional antenna system.

Figure 2 is a map showing the predicted 41 dBu and 48 dBu, F(50,90), coverage contours. The New Haven city limits were derived from information contained in the 2000 U.S. Census for Connecticut. As indicated, all of New Haven is located within the proposed 48 dBu contour. The distances to the predicted contours were determined in accordance with the provisions of Section 73.625. The average elevations from

¹ It is noted that the technical data set forth herein is the same as the technical data set forth in WEDY-DT's pending application for modification of its construction permit filed on February 1, 2002.

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 the separation study for DTV channel 39 from the proposed WCTX-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 WCTX-DT operation are summarized below.

An 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).² 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. Interference calculations for the proposed WCTX-DT DTV operation are summarized below. It is noted that the summary only includes stations with which interference (masked or unmasked) is calculated.

² 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 2 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.

Protected NTSC/DTV Station	FCC Service Population	Current Interference	Proposed <i>Unique Interference</i> Population*
WWOR-DT DTV Ch. 38 (Allotment) Secaucus, NJ	17,902,720	0.5%	7,652 (0.0%)
WSBK-DT, DTV Ch. 39 (CP) Boston, MA	6,226,241	0.5%	14,322 (0.2%)
WSBK-DT, DTV Ch. 39, (Allotment) Boston, MA	6,226,241	0.6%	16,563 (0.3%)
WRGB-DT, DTV Ch. 39 (Application) Schenectady, NY	1,451,608	0.7%	3,631 (0.3)%
WRGB-DT, DTV Ch. 39 (Allotment) Schenectady, NY	1,451,608	0.7%	6,920 (0.5)%
WLVT-TV NTSC Ch. 39 (License) Allentown, PA	2,858,785	14.6%	240 (0.0%)
WGGB, NTSC Ch. 40 (License) Springfield, MA	2,713,820	3.8%	37,491 (1.4%)
WXTV-DT DTV Ch. 40 (CP) Patterson, NJ	16,545,286	0.6%	10,604 (0.0%)
WSAH, NTSC Ch. 43 Bridgeport, CT	3,018,157	8.4%	14,766 (0.5%)

*Considers interference "masking" from other NTSC and DTV assignments.

From the above, it is apparent that the proposed WCTX-DT DTV operation on channel 39 complies with the FCC's 2%/10% interference standard towards all authorized analog and DTV assignments.

There are no known authorized full service AM stations within 5 kilometers (3 miles) of the proposed transmitter site. Figure 4 provides a tabulation of all known authorized full service FM and TV stations within 16 kilometers (10 miles) of the proposed site. Although no adverse electromagnetic impact is expected, the applicant recognizes its responsibility to correct problems, which are a result of its proposed operation.

The proposed transmitter site is located 399 kilometers from the closest point of the Canadian border, or 1 kilometer within the US/Canadian border area. Hence, coordination of the proposed WCTX-DT operation on channel 39 with Canada may be necessary.

The proposed site is more than 2500 kilometers from the closest point of the Mexican border. The closest FCC monitoring station is at Canandaigua, New York, approximately 392 kilometers to the west. The closest point of the National Radio Quiet Zone (VA/WV) is more than 528 kilometers to the southwest. The closest point of the Table Mountain Radio Quiet Zone (CO) is more than 2700 kilometers to the west. The closest radio astronomy site operating on TV channel 37 is at Hancock, New Hampshire, located more than 185 kilometers to the north-northeast. These separations are sufficient to not be a concern for coordination purposes.

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 236 meters above ground level. The maximum DTV ERP is 100 kW (horizontal polarization). A "worst-case" vertical plane relative field value of 0.15 (for angles below 60 degrees downward) is assumed for the antenna's downward radiation (see Sheet 4 of Figure 1). The calculated power density at a point 2 meters above ground level is 0.0014 mW/cm^2 . This is 0.3% of the FCC's recommended limit of 0.42 mW/cm^2 for TV channel 39 for an "uncontrolled" environment. Therefore, based on the responsibility threshold of 5%, the proposal will comply with the 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 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.

W. Jeffrey Reynolds

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February 25, 2002



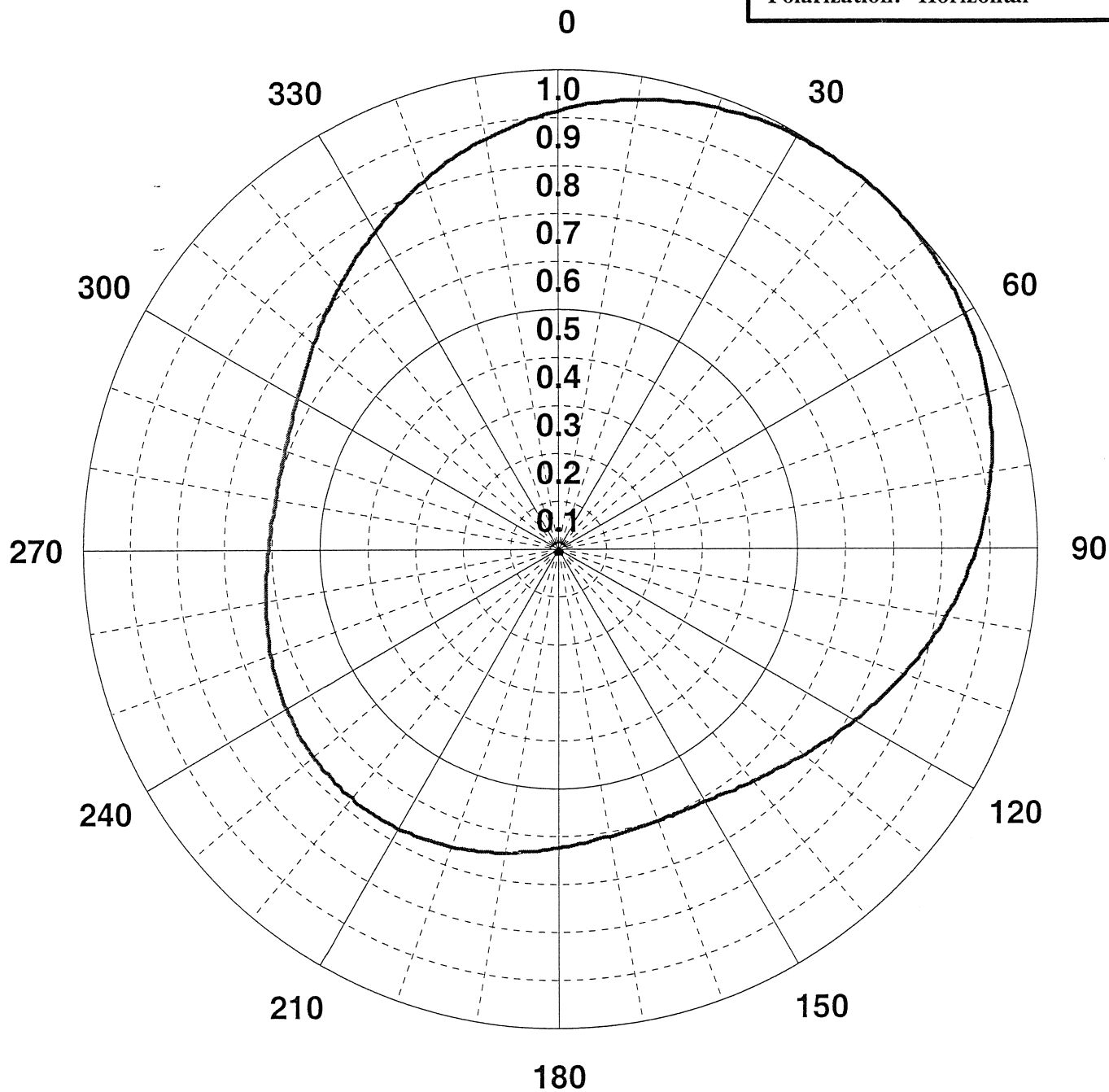
ANDREW

Channel: 39

Type: ALP-OC

Gain: 1.7 (2.3 dB)

Polarization: Horizontal



ANDREW CORPORATION
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

Company:
Site:
Proposal Number:



Angle	Amp	dB	Angle	Amp	dB	Angle	Amp	dB	Angle	Amp	dB	Angle	Amp	dB
0	0.915	-0.77	72	0.945	-0.49	144	0.621	-4.14	216	0.675	-3.41	288	0.606	-4.35
1	0.919	-0.73	73	0.942	-0.52	145	0.618	-4.18	217	0.676	-3.40	289	0.607	-4.34
2	0.923	-0.70	74	0.938	-0.56	146	0.616	-4.21	218	0.676	-3.40	290	0.609	-4.31
3	0.927	-0.66	75	0.935	-0.58	147	0.614	-4.24	219	0.676	-3.40	291	0.610	-4.29
4	0.931	-0.62	76	0.931	-0.62	148	0.612	-4.26	220	0.676	-3.40	292	0.612	-4.26
5	0.935	-0.58	77	0.927	-0.66	149	0.611	-4.28	221	0.676	-3.40	293	0.614	-4.24
6	0.938	-0.56	78	0.923	-0.70	150	0.609	-4.31	222	0.676	-3.40	294	0.616	-4.21
7	0.941	-0.53	79	0.919	-0.73	151	0.607	-4.34	223	0.676	-3.40	295	0.619	-4.17
8	0.945	-0.49	80	0.915	-0.77	152	0.606	-4.35	224	0.675	-3.41	296	0.621	-4.14
9	0.948	-0.46	81	0.911	-0.81	153	0.605	-4.36	225	0.674	-3.43	297	0.624	-4.10
10	0.951	-0.44	82	0.907	-0.85	154	0.604	-4.38	226	0.674	-3.43	298	0.626	-4.07
11	0.954	-0.41	83	0.903	-0.89	155	0.604	-4.38	227	0.674	-3.43	299	0.629	-4.03
12	0.957	-0.38	84	0.898	-0.93	156	0.603	-4.39	228	0.673	-3.44	300	0.631	-4.00
13	0.960	-0.35	85	0.893	-0.98	157	0.603	-4.39	229	0.672	-3.45	301	0.634	-3.96
14	0.963	-0.33	86	0.889	-1.02	158	0.602	-4.41	230	0.672	-3.45	302	0.638	-3.90
15	0.966	-0.30	87	0.885	-1.06	159	0.602	-4.41	231	0.671	-3.47	303	0.641	-3.86
16	0.969	-0.27	88	0.880	-1.11	160	0.602	-4.41	232	0.670	-3.48	304	0.644	-3.82
17	0.971	-0.26	89	0.876	-1.15	161	0.602	-4.41	233	0.669	-3.49	305	0.648	-3.77
18	0.974	-0.23	90	0.871	-1.20	162	0.602	-4.41	234	0.668	-3.50	306	0.652	-3.72
19	0.976	-0.21	91	0.866	-1.25	163	0.602	-4.41	235	0.666	-3.53	307	0.656	-3.66
20	0.978	-0.19	92	0.861	-1.30	164	0.603	-4.39	236	0.665	-3.54	308	0.660	-3.61
21	0.980	-0.18	93	0.856	-1.35	165	0.603	-4.39	237	0.663	-3.57	309	0.664	-3.56
22	0.982	-0.16	94	0.851	-1.40	166	0.604	-4.38	238	0.662	-3.58	310	0.668	-3.50
23	0.984	-0.14	95	0.846	-1.45	167	0.605	-4.36	239	0.660	-3.61	311	0.673	-3.44
24	0.986	-0.12	96	0.841	-1.50	168	0.606	-4.35	240	0.659	-3.62	312	0.677	-3.39
25	0.988	-0.10	97	0.836	-1.56	169	0.607	-4.34	241	0.658	-3.64	313	0.682	-3.32
26	0.989	-0.10	98	0.831	-1.61	170	0.608	-4.32	242	0.656	-3.66	314	0.686	-3.27
27	0.990	-0.09	99	0.825	-1.67	171	0.609	-4.31	243	0.654	-3.69	315	0.691	-3.21
28	0.992	-0.07	100	0.820	-1.72	172	0.610	-4.29	244	0.653	-3.70	316	0.695	-3.16
29	0.993	-0.06	101	0.815	-1.78	173	0.612	-4.26	245	0.651	-3.73	317	0.700	-3.10
30	0.994	-0.05	102	0.810	-1.83	174	0.613	-4.25	246	0.649	-3.76	318	0.705	-3.04
31	0.995	-0.04	103	0.804	-1.89	175	0.615	-4.22	247	0.648	-3.77	319	0.710	-2.97
32	0.996	-0.03	104	0.799	-1.95	176	0.616	-4.21	248	0.646	-3.80	320	0.715	-2.91
33	0.997	-0.03	105	0.793	-2.01	177	0.618	-4.18	249	0.644	-3.82	321	0.720	-2.85
34	0.998	-0.02	106	0.788	-2.07	178	0.619	-4.17	250	0.642	-3.85	322	0.725	-2.79
35	0.998	-0.02	107	0.783	-2.12	179	0.621	-4.14	251	0.640	-3.88	323	0.730	-2.73
36	0.999	-0.01	108	0.778	-2.18	180	0.623	-4.11	252	0.638	-3.90	324	0.735	-2.67
37	0.999	-0.01	109	0.772	-2.25	181	0.625	-4.08	253	0.636	-3.93	325	0.741	-2.60
38	1.000	0.00	110	0.767	-2.30	182	0.627	-4.05	254	0.634	-3.96	326	0.746	-2.55
39	1.000	0.00	111	0.762	-2.36	183	0.628	-4.04	255	0.632	-3.99	327	0.751	-2.49
40	1.000	0.00	112	0.756	-2.43	184	0.630	-4.01	256	0.630	-4.01	328	0.756	-2.43
41	1.000	0.00	113	0.751	-2.49	185	0.632	-3.99	257	0.629	-4.03	329	0.761	-2.37
42	1.000	0.00	114	0.746	-2.55	186	0.634	-3.96	258	0.627	-4.05	330	0.767	-2.30
43	1.000	0.00	115	0.741	-2.60	187	0.636	-3.93	259	0.625	-4.08	331	0.773	-2.24
44	0.999	-0.01	116	0.735	-2.67	188	0.638	-3.90	260	0.623	-4.11	332	0.778	-2.18
45	0.998	-0.02	117	0.730	-2.73	189	0.640	-3.88	261	0.621	-4.14	333	0.783	-2.12
46	0.998	-0.02	118	0.725	-2.79	190	0.642	-3.85	262	0.619	-4.17	334	0.788	-2.07
47	0.997	-0.03	119	0.720	-2.85	191	0.644	-3.82	263	0.618	-4.18	335	0.794	-2.00
48	0.996	-0.03	120	0.715	-2.91	192	0.646	-3.80	264	0.616	-4.21	336	0.799	-1.95
49	0.995	-0.04	121	0.710	-2.97	193	0.648	-3.77	265	0.615	-4.22	337	0.805	-1.88
50	0.994	-0.05	122	0.705	-3.04	194	0.649	-3.76	266	0.613	-4.25	338	0.810	-1.83
51	0.993	-0.06	123	0.700	-3.10	195	0.651	-3.73	267	0.612	-4.26	339	0.815	-1.78
52	0.992	-0.07	124	0.695	-3.16	196	0.653	-3.70	268	0.610	-4.29	340	0.820	-1.72
53	0.991	-0.08	125	0.690	-3.22	197	0.654	-3.69	269	0.609	-4.31	341	0.826	-1.66
54	0.989	-0.10	126	0.686	-3.27	198	0.656	-3.66	270	0.608	-4.32	342	0.831	-1.61
55	0.988	-0.10	127	0.681	-3.34	199	0.658	-3.64	271	0.607	-4.34	343	0.836	-1.56
56	0.986	-0.12	128	0.677	-3.39	200	0.659	-3.62	272	0.606	-4.35	344	0.841	-1.50
57	0.984	-0.14	129	0.672	-3.45	201	0.661	-3.60	273	0.605	-4.36	345	0.846	-1.45
58	0.982	-0.16	130	0.668	-3.50	202	0.662	-3.58	274	0.604	-4.38	346	0.851	-1.40
59	0.980	-0.18	131	0.664	-3.56	203	0.664	-3.56	275	0.604	-4.38	347	0.856	-1.35
60	0.978	-0.19	132	0.660	-3.61	204	0.665	-3.54	276	0.603	-4.39	348	0.861	-1.30
61	0.976	-0.21	133	0.656	-3.66	205	0.667	-3.52	277	0.602	-4.41	349	0.866	-1.25
62	0.974	-0.23	134	0.652	-3.72	206	0.668	-3.50	278	0.602	-4.41	350	0.871	-1.20
63	0.972	-0.25	135	0.648	-3.77	207	0.669	-3.49	279	0.602	-4.41	351	0.875	-1.16
64	0.969	-0.27	136	0.644	-3.82	208	0.670	-3.48	280	0.602	-4.41	352	0.880	-1.11
65	0.966	-0.30	137	0.641	-3.86	209	0.671	-3.47	281	0.602	-4.41	353	0.884	-1.07
66	0.963	-0.33	138	0.638	-3.90	210	0.672	-3.45	282	0.602	-4.41	354	0.889	-1.02
67	0.960	-0.35	139	0.635	-3.94	211	0.673	-3.44	283	0.603	-4.39	355	0.893	-0.98
68	0.957	-0.38	140	0.631	-4.00	212	0.673	-3.44	284	0.603	-4.39	356	0.898	-0.93
69	0.954	-0.41	141	0.629	-4.03	213	0.674	-3.43	285	0.604	-4.38	357	0.902	-0.90
70	0.951	-0.44	142	0.626	-4.07	214	0.674	-3.43	286	0.604	-4.38	358	0.907	-0.85
71	0.948	-0.46	143	0.623	-4.11	215	0.675	-3.41	287	0.605	-4.36	359	0.911	-0.81

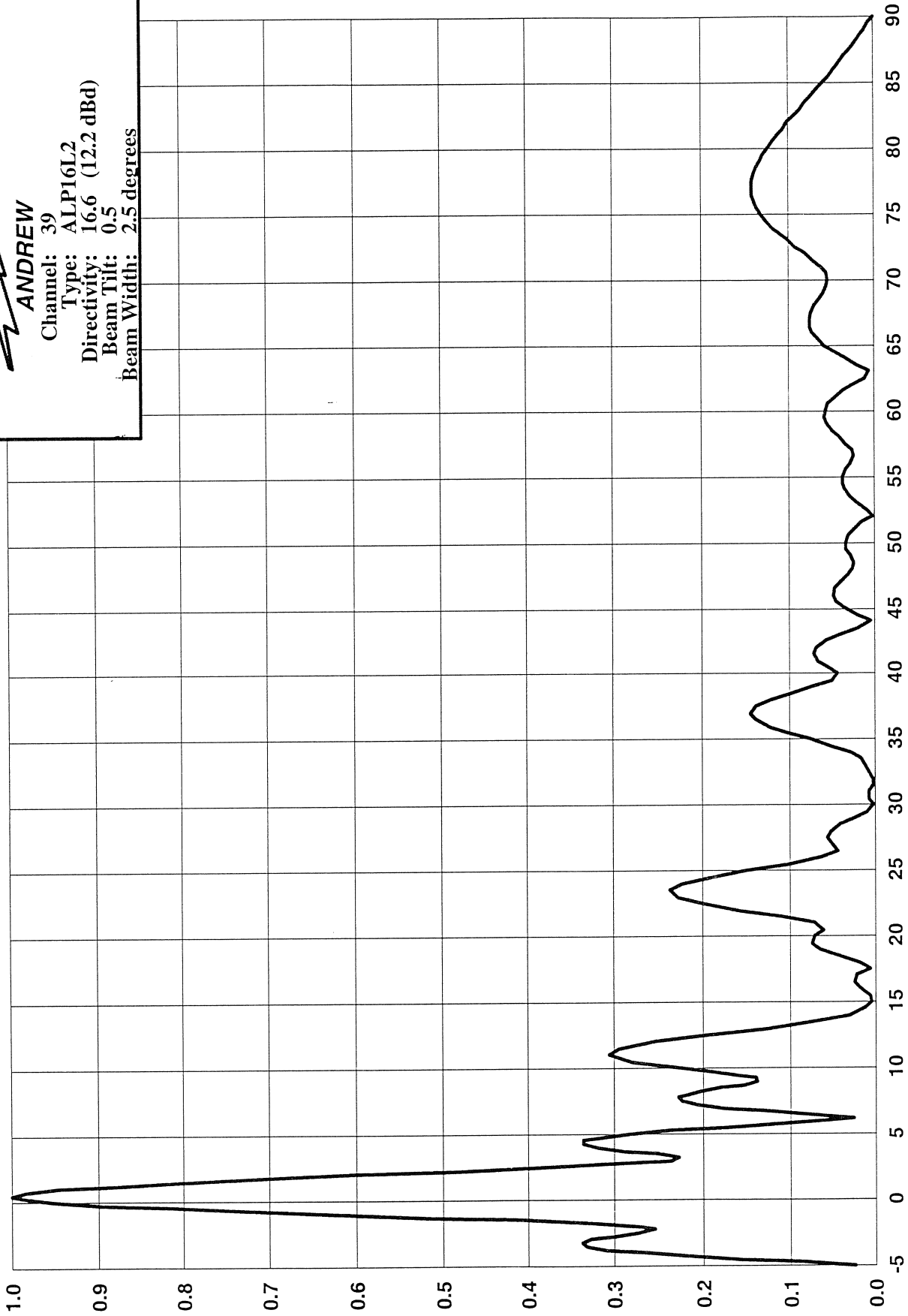
ANDREW CORPORATION
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

Company:
Site:
Proposal Number:

(Note: Angle referenced to 0 degrees true)



Channel: 39
Type: ALP16L2
Directivity: 16.6 (12.2 dBd)
Beam Tilt: 0.5
Beam Width: 2.5 degrees



Company:
Site:
Proposal Number:

ANDREW CORPORATION
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

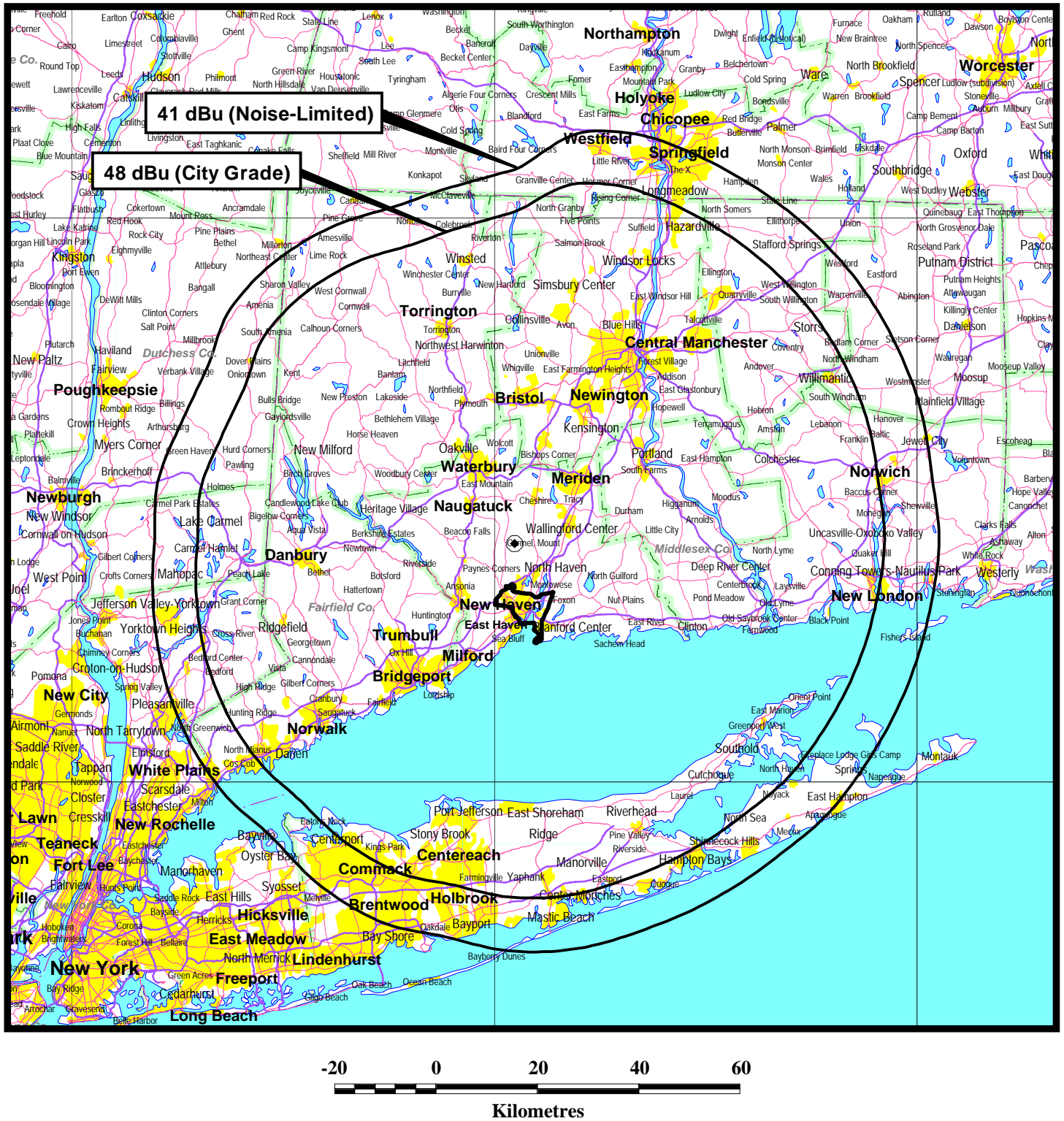


Angle	Amp	dB	Angle	Amp	dB	Angle	Amp	dB	Angle	Amp	dB
-5.00	0.024	-32.40	9.00	0.138	-17.20	36.00	0.123	-18.20	63.50	0.021	-33.56
-4.75	0.086	-21.31	9.25	0.139	-17.14	36.50	0.138	-17.20	64.00	0.035	-29.12
-4.50	0.155	-16.19	9.50	0.159	-15.97	37.00	0.144	-16.83	64.50	0.047	-26.56
-4.25	0.218	-13.23	9.75	0.190	-14.42	37.50	0.138	-17.20	65.00	0.058	-24.73
-4.00	0.270	-11.37	10.00	0.224	-13.00	38.00	0.123	-18.20	65.50	0.066	-23.61
-3.75	0.309	-10.20	10.50	0.280	-11.06	38.50	0.100	-20.00	66.00	0.072	-22.85
-3.50	0.331	-9.60	11.00	0.306	-10.29	39.00	0.073	-22.73	66.50	0.075	-22.50
-3.25	0.337	-9.45	11.50	0.295	-10.60	39.50	0.050	-26.02	67.00	0.075	-22.50
-3.00	0.326	-9.74	12.00	0.253	-11.94	40.00	0.044	-27.13	67.50	0.073	-22.73
-2.75	0.302	-10.40	12.50	0.193	-14.29	40.50	0.054	-25.35	68.00	0.070	-23.10
-2.50	0.273	-11.28	13.00	0.127	-17.92	41.00	0.066	-23.61	68.50	0.064	-23.88
-2.25	0.256	-11.84	13.50	0.070	-23.10	41.50	0.071	-22.97	69.00	0.059	-24.58
-2.00	0.270	-11.37	14.00	0.031	-30.17	42.00	0.068	-23.35	69.50	0.055	-25.19
-1.75	0.324	-9.79	14.50	0.013	-37.72	42.50	0.057	-24.88	70.00	0.054	-25.35
-1.50	0.410	-7.74	15.00	0.005	-46.02	43.00	0.040	-27.96	70.50	0.056	-25.04
-1.25	0.512	-5.81	15.50	0.006	-44.44	43.50	0.020	-33.98	71.00	0.062	-24.15
-1.00	0.619	-4.17	16.00	0.018	-34.89	44.00	0.005	-46.02	71.50	0.071	-22.97
-0.75	0.723	-2.82	16.50	0.025	-32.04	44.50	0.021	-33.56	72.00	0.080	-21.94
-0.50	0.817	-1.76	17.00	0.022	-33.15	45.00	0.036	-28.87	72.50	0.091	-20.82
-0.25	0.895	-0.96	17.50	0.007	-43.10	45.50	0.045	-26.94	73.00	0.101	-19.91
0.00	0.954	-0.41	18.00	0.018	-34.89	46.00	0.048	-26.38	73.50	0.110	-19.17
0.25	0.989	-0.10	18.50	0.044	-27.13	46.50	0.046	-26.74	74.00	0.119	-18.49
0.50	1.000	0.00	19.00	0.065	-23.74	47.00	0.040	-27.96	74.50	0.126	-17.99
0.75	0.985	-0.13	19.50	0.074	-22.62	47.50	0.031	-30.17	75.00	0.132	-17.59
1.00	0.946	-0.48	20.00	0.071	-22.97	48.00	0.026	-31.70	75.50	0.137	-17.27
1.25	0.884	-1.07	20.50	0.061	-24.29	48.50	0.025	-32.04	76.00	0.140	-17.08
1.50	0.802	-1.92	21.00	0.071	-22.97	49.00	0.029	-30.75	76.50	0.142	-16.95
1.75	0.705	-3.04	21.50	0.109	-19.25	49.50	0.033	-29.63	77.00	0.142	-16.95
2.00	0.598	-4.47	22.00	0.157	-16.08	50.00	0.034	-29.37	77.50	0.142	-16.95
2.25	0.487	-6.25	22.50	0.201	-13.94	50.50	0.031	-30.17	78.00	0.140	-17.08
2.50	0.381	-8.38	23.00	0.229	-12.80	51.00	0.024	-32.40	78.50	0.137	-17.27
2.75	0.292	-10.69	23.50	0.238	-12.47	51.50	0.015	-36.48	79.00	0.133	-17.52
3.00	0.237	-12.51	24.00	0.225	-12.96	52.00	0.003	-50.46	79.50	0.129	-17.79
3.25	0.228	-12.84	24.50	0.194	-14.24	52.50	0.009	-40.92	80.00	0.124	-18.13
3.50	0.253	-11.94	25.00	0.150	-16.48	53.00	0.020	-33.98	80.50	0.118	-18.56
3.75	0.289	-10.78	25.50	0.102	-19.83	53.50	0.029	-30.75	81.00	0.112	-19.02
4.00	0.319	-9.92	26.00	0.062	-24.15	54.00	0.035	-29.12	81.50	0.106	-19.49
4.25	0.336	-9.47	26.50	0.044	-27.13	54.50	0.038	-28.40	82.00	0.100	-20.00
4.50	0.335	-9.50	27.00	0.049	-26.20	55.00	0.037	-28.64	82.50	0.093	-20.63
4.75	0.317	-9.98	27.50	0.055	-25.19	55.50	0.033	-29.63	83.00	0.086	-21.31
5.00	0.284	-10.93	28.00	0.052	-25.68	56.00	0.028	-31.06	83.50	0.080	-21.94
5.25	0.237	-12.51	28.50	0.041	-27.74	56.50	0.025	-32.04	84.00	0.073	-22.73
5.50	0.180	-14.89	29.00	0.025	-32.04	57.00	0.026	-31.70	84.50	0.066	-23.61
5.75	0.116	-18.71	29.50	0.010	-40.00	57.50	0.033	-29.63	85.00	0.060	-24.44
6.00	0.052	-25.68	30.00	0.002	-53.98	58.00	0.041	-27.74	85.50	0.053	-25.51
6.25	0.026	-31.70	30.50	0.008	-41.94	58.50	0.049	-26.20	86.00	0.047	-26.56
6.50	0.081	-21.83	31.00	0.008	-41.94	59.00	0.055	-25.19	86.50	0.041	-27.74
6.75	0.133	-17.52	31.50	0.003	-50.46	59.50	0.058	-24.73	87.00	0.035	-29.12
7.00	0.176	-15.09	32.00	0.003	-50.46	60.00	0.057	-24.88	87.50	0.029	-30.75
7.25	0.206	-13.72	32.50	0.008	-41.94	60.50	0.054	-25.35	88.00	0.023	-32.77
7.50	0.224	-13.00	33.00	0.012	-38.42	61.00	0.046	-26.74	88.50	0.017	-35.39
7.75	0.228	-12.84	33.50	0.017	-35.39	61.50	0.036	-28.87	89.00	0.011	-39.17
8.00	0.220	-13.15	34.00	0.029	-30.75	62.00	0.024	-32.40	89.50	0.006	-44.44
8.25	0.203	-13.85	34.50	0.050	-26.02	62.50	0.011	-39.17	90.00	0.000	---
8.50	0.179	-14.94	35.00	0.075	-22.50	63.00	0.007	-43.10			
8.75	0.154	-16.25	35.50	0.101	-19.91	63.50	0.021	-33.56			

ANDREW CORPORATION
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

Company:
Site:
Proposal Number:

Figure 2



PREDICTED DTV F(50,90) COVERAGE CONTOURS
STATION WCTX-DT
NEW HAVEN, CONNECTICUT
CH 39 100 KW (MAX-DA) 333 M

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

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

WEDH LIC	HARTFORD CT	BLET -341	*24(o) I	813 262		41-46-27 72-48-20	17.2	40.89 -16.79	24.1/80.5 SHORT
WNYE-T LIC	NEW YORK NY	BLET -19920220	*25(o) I	2450 395	DA	40-44-54 73-59-10	229.5	114.75 34.25	24.1/80.5 CLEAR
WLVT-T LIC	ALLENTOWN PA	BLET -429	*39(o) I	575 302		40-33-58 75-26-06	246.3	229.61 12.31	217.3 CLOSE
WGGB-T LIC	SPRINGFIELD MA	BLCT -19990429	40(o) I	4270 324	DA	42-14-30 72-38-57	15.3	94.37 -11.63	12.0/106.0 SHORT
WXTV LIC	PATERSON NJ	BLCT -19920218	41(-) I	2340 421	DA	40-44-54 73-59-10	229.5	114.75 34.25	24.1/80.5 CLEAR
WSAH LIC	BRIDGEPORT CT	BLCT -19871009	43(-) I	2290 156	DA	41-21-43 73-06-48	243.4	15.13 8.97	24.1/80.5 CLOSE
WNJU APP	LINDEN NJ	BMPCT -20001121	47(+) I	3330 408	DA	40-44-54 73-59-10	229.5	114.75 34.25	24.1/80.5 CLEAR
WEDN LIC	NORWICH CT	BLET -19860124	*53(o) I	794 207		41-31-11 72-10-04	80.4	66.37 -14.13	24.1/80.5 SHORT
WEDN CP	NORWICH CT	BPET -20011003	*53(o) I	630 204		41-31-14 72-10-03	80.3	66.41 -14.09	24.1/80.5 SHORT
WTBY LIC	POUGHKEEPSIE NY	BLCT -19921016	54(+) I	5000 490	DA	41-43-09 73-59-47	291.1	93.16 12.66	24.1/80.5 CLOSE

** End of TV Separation Study for Channel 39 **

DTV to DTV Separation Study

Job Title : Proposed WCTX-DT Separation Buffer 32 km

Zone : 1

Channel 39 (620-626 MHz) Coordinates : 41-25-22 72-57-06

Call Status	City St	FCC File No.	Channel Zone	ERP(kW) HAAT(m)	Latitude Longitude	Bear. True	Dist. (km)	Req. (km)
DWORTV DTVALT	SECAUCUS NJ		38 I	136.4 500	40-42-43 74-00-49	228.8	119.16 9.16	24.0/110.0 CLOSE
WWOR-D CP	SECAUCUS NJ BPCDT	-19990304	38 I	143 448	40-42-43 74-00-49	228.8	119.16 9.16	24.0/110.0 CLOSE
DWEDY DTVALT	NEW HAVEN CT		39 I	50 82	41-19-42 72-54-25	160.4	11.14 -185.16	196.3 SHORT ¹
WEDY-D CP	NEW HAVEN CT BPEDT	-20000419	*39 I	40.7 91	41-19-42 72-54-25	160.4	11.14 -185.16	196.3 SHORT ¹
DWRGB DTVALT	SCHENECTADY NY		39 I	1000 311	42-38-12 73-59-45	327.8	160.18 -36.12	196.3 SHORT
WRGB CP	SCHENECTADY NY BPCDT	-19991029	39 I	746 426	42-37-31 74-00-38	327.2	159.79 -36.51	196.3 SHORT
DWSBKT DTVALT	BOSTON MA		39 I	70.8 354	42-18-12 71-13-08	55.1	173.97 -22.33	196.3 SHORT
WSBK-D CP	BOSTON MA BPCDT	-19991029	39 I	135 390	42-18-37 71-14-14	54.6	173.15 -23.15	196.3 SHORT
DWXTV DTVALT	PATERSON NJ		40 I	69.1 421	40-44-54 73-59-10	229.5	114.74 4.74	24.0/110.0 CLOSE
WXTV-D CP	PATERSON NJ BPCDT	-19991028	40 I	300 421	40-44-54 73-59-10	229.5	114.74 4.74	24.0/110.0 CLOSE

** End of DTV Separation Study for Channel 39 **

¹ As detailed elsewhere in this application, WCTX-DT proposes to exchange its DTV channel 6 allotment with WEDY-DT on DTV channel 39 at New Haven, Connecticut pursuant to Section 73.623.

du Treil, Lundin, and Rackley**Figure 4, Sheet 1 of 2****Proposed WEDY-DT****Coordinates: 412522 725706 Frequency Range: 200-300****Range: 16**

Date: 2/25/02

CDBS FM Inquiry List

Page: 1

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	46968	WPLR	LIC	256	FM	B	NEW HAVEN	CT	N	41-25-22	072-57-06	15	276.0	375.0	103.9	0.0
C	11930	WKCI-F	LIC	267	FM	B	HAMDEN	CT	N	41-25-22	072-57-06	15	267.0	366.0	103.9	0.0
C	11930	WKCI-F	CP	267	FM	B	HAMDEN	CT	N	41-26-03	072-56-48	11	294.0	394.0	18.3	1.3
C	54311	WQAQ	LIC	202	FM	D	HAMDEN	CT		41-25-10	072-53-41	0.016	-25.0	61.0	94.4	4.8
C	54311	WQAQ	CP	251	FM	D	HAMDEN	CT	N	41-25-10	072-53-41	0.016	-25.0	61.0	94.4	4.8
C	74322	WYBC-F	LIC	232	FM	A	NEW HAVEN	CT	D	41-20-59	072-58-23	3	144.0	215.0	192.4	8.3
C	10861	WWEB	LIC	210	FM	D	WALLINGFORD	CT		41-27-34	072-48-48	0.015	-5.0	78.0	70.5	12.3
C	69070	WNHU	LIC	204	FM	A	WEST HAVEN	CT	N	41-17-29	072-57-40	1.7	49.0	79.0	183.1	14.6
C	43530	WRXC	LIC	211	FM	A	SHELTON	CT	N	41-21-43	073-06-48	0.045	147.0	262.0	243.4	15.1

du Treil, Lundin, and Rackley**Figure 4, Sheet 2 of 2****Proposed WEDY-DT****Coordinates: 412522 725706 Channel Range: 2-83****Range: 16**

Date: 2/25/02

CDBS Tv Inquiry List

Page: 1

Rec Type	Facility Id	Call	Status	Chan	Svc Class	City	St	DA	Latitude	Longitude	ERP (kW)	HAAT (m)	RCAMSL (m)	Bearing	Dist. (km)
C	33081	WCTX	CP	6	DT	NEW HAVEN	CT	D	41-25-22	072-57-06	2.100	333	431	103.8	0
C	74109	WTNH	LIC	10	DT	NEW HAVEN	CT	D	41-25-22	072-57-06	7.900	342	440	103.8	0
C	74109	WTNH	APP	10	DT	NEW HAVEN	CT	N	41-25-22	072-57-06	21.000	342	440	103.8	0
C	74109	WTNH	LIC	8	TV	NEW HAVEN	CT	N	41-25-23	072-57-06	166.000	369	465	8.910	0.03
C	74109	WTNH	CP	8	TV	NEW HAVEN	CT	N	41-25-23	072-57-06	174.000	363	460	8.910	0.03
C	33081	WCTX	LIC	59	TV	NEW HAVEN	CT	N	41-25-23	072-57-06	5000.00	314	413	8.910	0.03
C	13595	WEDY	CP	39	DT	NEW HAVEN	CT	N	41-19-42	072-54-25	40.700	91	134	160.4	11.14
C	13595	WEDY	LIC	65	TV	NEW HAVEN	CT		41-19-42	072-54-25	7.940	82	133	160.4	11.14
C	14050	WTXX	LIC	20	TV	WATERBURY	CT		41-31-04	073-01-07	2240.00	366	522	332.1	11.94
C	70493	WSAH	APP	42	DT	BRIDGEPORT	CT	N	41-21-43	073-06-48	778.000	152	267	243.4	15.11
C	70493	WSAH	LIC	43	TV	BRIDGEPORT	CT	D	41-21-43	073-06-48	2290.00	156	272	243.4	15.11