Comprehensive Technical Exhibit

Application for Construction Permit

Digital Flash-Cut

WEDE-CA – Arlington Heights, Illinois

First United, Inc.

September, 2008

Application for Construction Permit

The following engineering statement and attached exhibits have been prepared for **First United, Inc.**, licensee of class-A television station WEDE-CA at Arlington Heights, Illinois and are in support of their application for construction permit to modify that facility.[1] First United proposes to flash-cut the existing facilities from analog to digital operation on its current channel of operation.

At present, WEDE-CA operates as an analog class-A television station on channel 34 with a maximum effective radiated power of 50 kW utilizing a directional antenna. It is proposed that WEDE-CA continue to operation on channel 34, but as a digital facility. In order to facilitate the change to digital operation, First United would replace the existing antenna with another antenna with a different directional pattern. The proposed change would be consistent with the Commission's Rules.

The antenna proposed for use by the digital WEDE-CA facilities is a Dielectric Communications model TUA-C2-06/12U-T. This is a panel style antenna, which would be oriented at 180 degrees true in order to provide requisite interference protection to other facilities. Exhibits E-1 through E-6 provide the technical data for the proposed antenna. Utilizing this antenna, the proposed facility would operate with a maximum effective radiated power of 15 kW consistent with Sections 73.6007 and 74.735 of the Commission's Rules.

The proposed facility will comply with the applicable interference requirements. Sections 73.6016 through 73.6019 reference various portions of Section 74.793 of the Commission's Rules. Exhibits E-7 and E-8 depict the interference study for the proposed facility relative to other DTV, LPTV, and Class A facilities. These two exhibits demonstrate that the proposed facility would not

[1] The facility ID for WEDE-CA is 66978.

cause interference to any proposed, authorized, licensed, or allocated facility in excess of that permitted under the FCC rules. Exhibits E-9 and E-10 depict the interference situation relative to pertinent NTSC facilities and similarly demonstrate that interference in excess of that permitted under the FCC rules is not predicted to occur from the proposed facility.[2]

Section 73.6020 refers to Section 74.709 of the Commission's Rules. That section discusses interference protection requirements to facilities operating in the Land Mobile Service. Although Chicago, Illinois is one of the areas identified in this particular section, the proposed facility operates on channel 34, therefore rendering this section of the Commission's Rules not applicable in this particular instance.

The proposed facility would comply with Sections 73.6027, 73.1030, and 0.121 of the Commission's Rules. WEDE-CA is not located in close proximity to any radio astronomy facility identified in the Commission's Rules. In addition, the proposed facility is not located in proximity to any protected FCC field installation. WEDE-CA is not expected to adversely affect any facility described under the above referenced sections of the Commission's Rules.

The proposed WEDE-CA facility would not constitute a substantial environmental impact. Although a change in the antennas would be made, no excavation or additional environmental impact would result. In addition, an RF exposure hazard would not result to the general public from the proposed facility. The rooftop level of Sears Tower is a restricted access area, to which

[2] Interference predicted to occur to WNIT(TV) is not relevant as that facility has ceased NTSC operations ahead of February 2009. See BDISTTL-20080728AAX where WMYS-LP submitted application for construction permit to utilize channel 34 in the South Bend, Indiana area. This application also references the cessation of NTSC operations on channel 34 by WNIT(TV) as does the CDBS indicating WNIT(TV) to be licensed and silent. The facility ID for WMYS-LP is 71426 and for WNIT(TV) is 41761.

only persons trained in the hazards and exposure mitigation procedures relevant to non-ionizing radiation are granted access.

Since the rooftop of the building is a controlled access area, the controlled environment condition of the applicable safety standard is applicable. Due to the physical dimensions of the building, all points on the rooftop lie within a depression angle between 60.0 and 90 degrees from the antenna. The maximum relative field within this range is 0.193 at 60 degrees. Neglecting trigonometric dimensions and assuming the distance is simply the vertical distance above the rooftop of the antenna (20 feet), the maximum predicted power density from the proposed WEDE-CA proposed facility 501.5 $\mu W/cm^2$, which is considerably less than the 1970 $\mu W/cm^2$ permissible under the controlled environment condition of the applicable safety standard.

In order to ensure that the proposed facility does not result in the creation of additional restricted areas on the rooftop levels of the building, a survey of the rooftop non-ionizing radiation levels will be performed following construction of the facility. Such surveys are performed regularly at Sears Tower and are also completed following the installation of new or additional broadcast facility.

WEDE-CA will coordinate with other users of the broadcast platform to ensure that workers are not exposed to levels of non-ionizing radiation which may exceed the applicable safety standards. Sears Tower utilizes an RF safety program with a solitary RF safety contractor responsible for all coordination and notification of antenna work. During such periods of work, the contractor requires affected facilities to switch to alternate antennas, reduce power, or cease operation as necessary to protect workers.

The structure utilized for the facilities described in this application has been registered with the Commission. Specifically an Antenna Structure Registration Number of 1032959 has been assigned to the structure.

Affidavit

The preceding statement and attached exhibits have been prepared by me, or under my direction, and are true and accurate to the best of my belief and knowledge.

Above signature is digitized copy of actual signature
License Expires November 30, 2009

Jeremy D. Ruck, PE
September 12, 2008

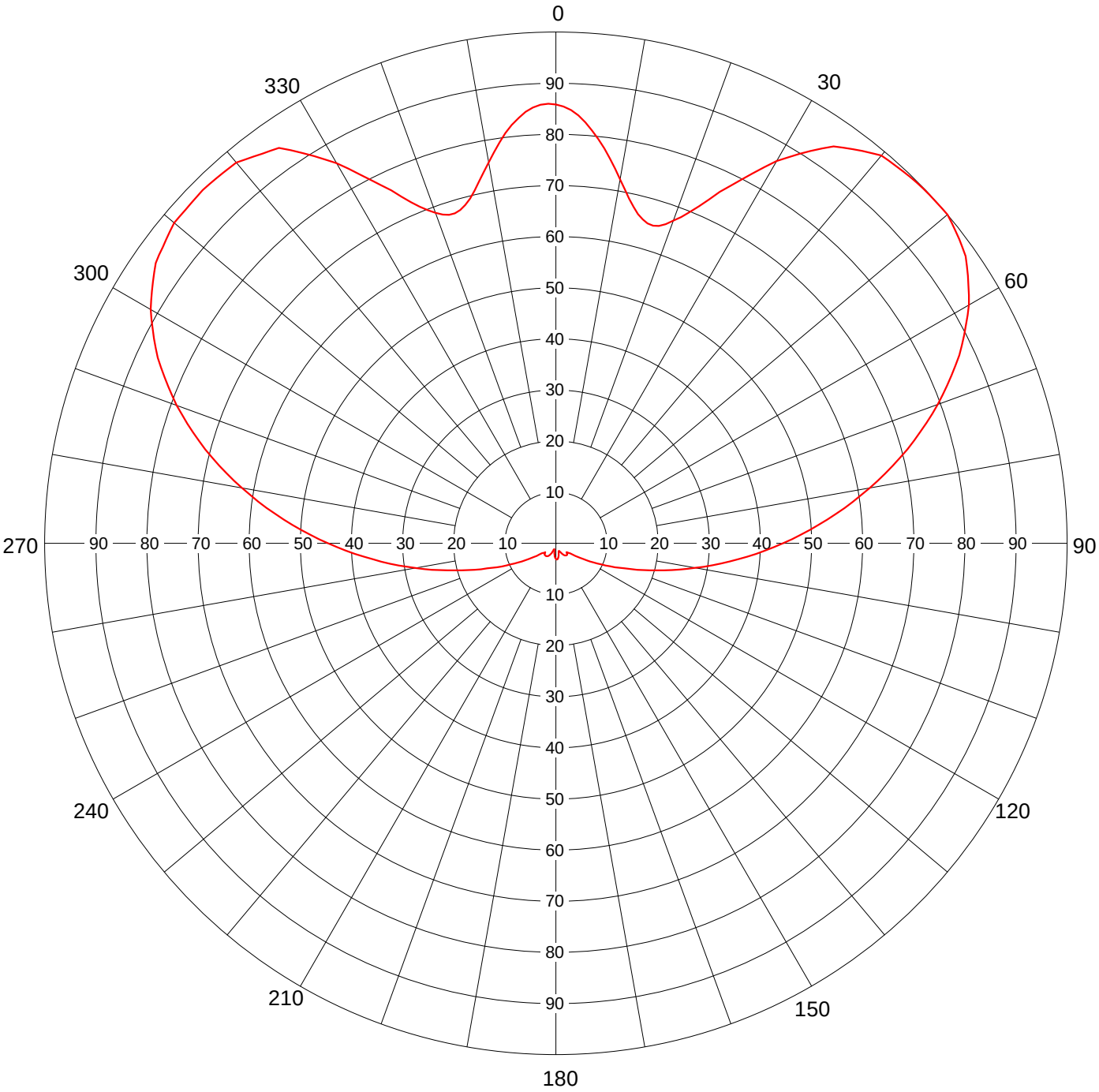
Exhibit No.
E-1

Dielectric

Date	**11 Sep 2008**		
Call Letters	**WEDE-CA**	Channel	**34**
Location	**Arlington Heights, IL**		
Customer	**First United, Inc.**		
Antenna Type	**TUA-C2-06/12U-T**		

AZIMUTH PATTERN

Gain	**2.90 (4.62 dB)**	Frequency	**593 MHz**
Calculated / Measured	**Calculated**	Drawing #	**TUA-C2**



Remarks: Actual rotation of antenna not employed for this plot.

Exhibit No.
E-2

Dielectric

Date	**11 Sep 2008**		
Call Letters	**WEDE-CA**	Channel	**34**
Location	**Arlington Heights, IL**		
Customer	**First United, Inc.**		
Antenna Type	**TUA-C2-06/12U-T**		

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **TUA-C2**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.858	45	0.998	90	0.444	135	0.032	180	0.031	225	0.032	270	0.446	315	0.977
1	0.855	46	0.999	91	0.427	136	0.032	181	0.030	226	0.031	271	0.463	316	0.976
2	0.848	47	0.999	92	0.409	137	0.032	182	0.029	227	0.030	272	0.481	317	0.975
3	0.838	48	0.999	93	0.392	138	0.031	183	0.028	228	0.029	273	0.499	318	0.974
4	0.826	49	1.000	94	0.375	139	0.031	184	0.027	229	0.028	274	0.517	319	0.973
5	0.811	50	1.000	95	0.358	140	0.031	185	0.026	230	0.027	275	0.534	320	0.972
6	0.795	51	0.996	96	0.342	141	0.031	186	0.024	231	0.029	276	0.552	321	0.966
7	0.778	52	0.992	97	0.325	142	0.030	187	0.023	232	0.030	277	0.570	322	0.960
8	0.760	53	0.988	98	0.309	143	0.030	188	0.021	233	0.032	278	0.588	323	0.954
9	0.742	54	0.983	99	0.293	144	0.029	189	0.019	234	0.033	279	0.606	324	0.949
10	0.723	55	0.979	100	0.277	145	0.028	190	0.018	235	0.034	280	0.623	325	0.944
11	0.706	56	0.970	101	0.262	146	0.027	191	0.016	236	0.040	281	0.641	326	0.928
12	0.689	57	0.961	102	0.247	147	0.026	192	0.015	237	0.045	282	0.658	327	0.911
13	0.675	58	0.952	103	0.233	148	0.025	193	0.013	238	0.051	283	0.676	328	0.893
14	0.664	59	0.942	104	0.218	149	0.024	194	0.012	239	0.056	284	0.693	329	0.876
15	0.656	60	0.933	105	0.203	150	0.023	195	0.012	240	0.061	285	0.710	330	0.859
16	0.651	61	0.921	106	0.191	151	0.022	196	0.012	241	0.069	286	0.726	331	0.838
17	0.650	62	0.909	107	0.179	152	0.021	197	0.012	242	0.076	287	0.742	332	0.817
18	0.653	63	0.896	108	0.167	153	0.020	198	0.013	243	0.083	288	0.758	333	0.798
19	0.660	64	0.883	109	0.155	154	0.019	199	0.014	244	0.090	289	0.774	334	0.779
20	0.672	65	0.871	110	0.143	155	0.018	200	0.015	245	0.097	290	0.789	335	0.762
21	0.684	66	0.856	111	0.134	156	0.017	201	0.017	246	0.106	291	0.803	336	0.743
22	0.699	67	0.841	112	0.125	157	0.016	202	0.018	247	0.116	292	0.818	337	0.725
23	0.716	68	0.826	113	0.116	158	0.016	203	0.020	248	0.125	293	0.832	338	0.710
24	0.736	69	0.810	114	0.106	159	0.016	204	0.021	249	0.134	294	0.846	339	0.698
25	0.758	70	0.795	115	0.097	160	0.016	205	0.022	250	0.143	295	0.859	340	0.688
26	0.778	71	0.779	116	0.090	161	0.017	206	0.024	251	0.155	296	0.871	341	0.680
27	0.798	72	0.762	117	0.083	162	0.018	207	0.025	252	0.168	297	0.882	342	0.676
28	0.819	73	0.745	118	0.076	163	0.019	208	0.026	253	0.180	298	0.893	343	0.675
29	0.841	74	0.729	119	0.069	164	0.020	209	0.027	254	0.192	299	0.904	344	0.678
30	0.863	75	0.712	120	0.061	165	0.021	210	0.028	255	0.204	300	0.915	345	0.685
31	0.881	76	0.694	121	0.056	166	0.023	211	0.029	256	0.219	301	0.924	346	0.695
32	0.898	77	0.677	122	0.051	167	0.024	212	0.030	257	0.234	302	0.932	347	0.708
33	0.915	78	0.659	123	0.045	168	0.025	213	0.030	258	0.248	303	0.940	348	0.723
34	0.932	79	0.641	124	0.040	169	0.027	214	0.031	259	0.263	304	0.948	349	0.739
35	0.947	80	0.623	125	0.034	170	0.028	215	0.031	260	0.278	305	0.956	350	0.757
36	0.956	81	0.605	126	0.033	171	0.029	216	0.031	261	0.294	306	0.959	351	0.775
37	0.965	82	0.587	127	0.031	172	0.030	217	0.031	262	0.311	307	0.963	352	0.792
38	0.974	83	0.569	128	0.030	173	0.030	218	0.032	263	0.327	308	0.967	353	0.808
39	0.982	84	0.551	129	0.029	174	0.031	219	0.032	264	0.343	309	0.971	354	0.823
40	0.990	85	0.533	130	0.027	175	0.031	220	0.032	265	0.359	310	0.975	355	0.835
41	0.992	86	0.515	131	0.028	176	0.032	221	0.032	266	0.377	311	0.975	356	0.846
42	0.994	87	0.497	132	0.029	177	0.032	222	0.032	267	0.394	312	0.975	357	0.854
43	0.995	88	0.479	133	0.030	178	0.031	223	0.032	268	0.411	313	0.975	358	0.858
44	0.997	89	0.462	134	0.031	179	0.031	224	0.032	269	0.428	314	0.976	359	0.860

Remarks: Non-rotated horizontal plane radiation pattern.

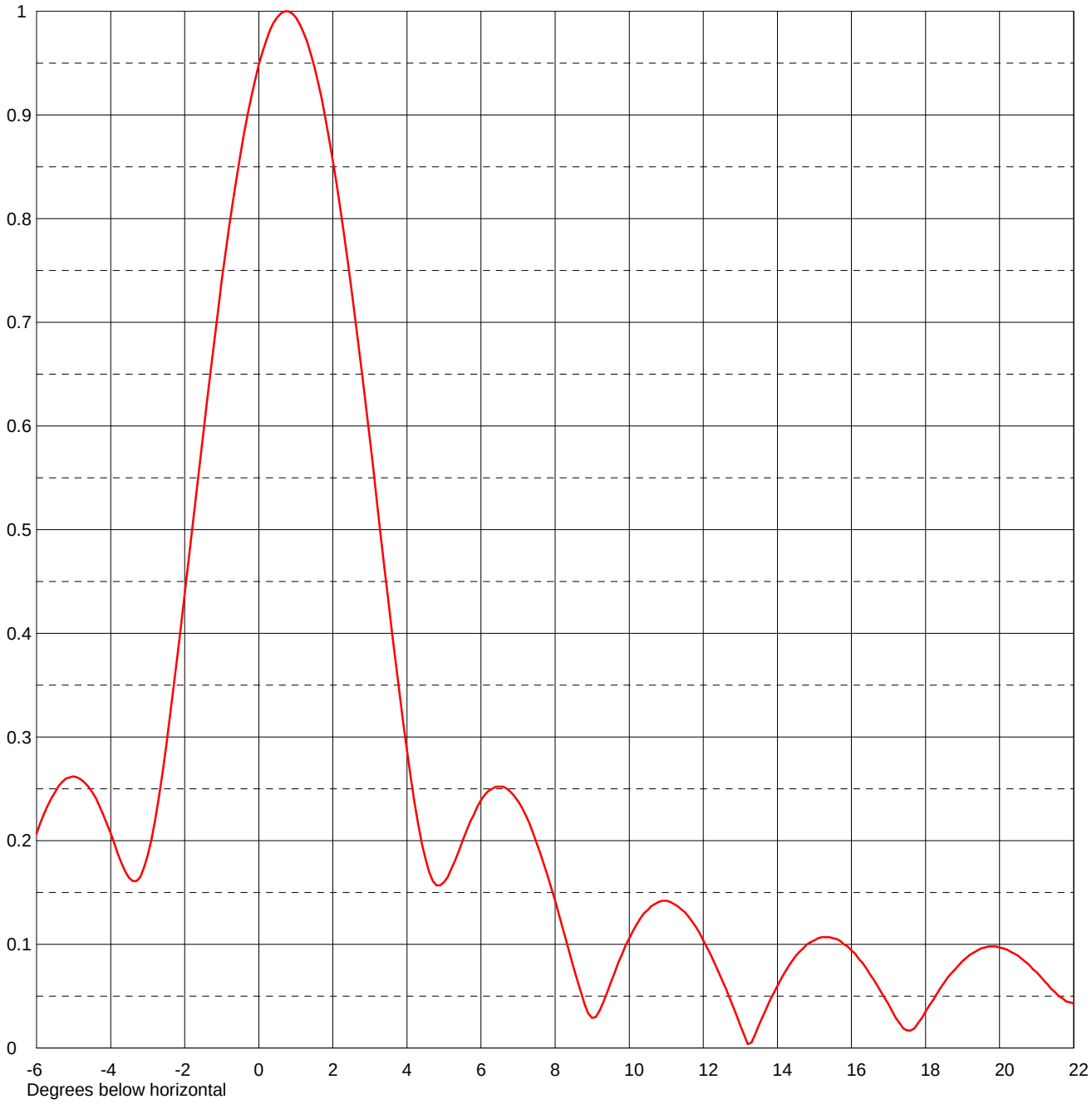
Exhibit No.
E-3

Dielectric

Date	**11 Sep 2008**		
Call Letters	**WEDE-CA**	Channel	**34**
Location	**Arlington Heights, IL**		
Customer	**First United, Inc.**		
Antenna Type	**TUA-C2-06/12U-T**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**13.3 (11.24 dB)**	Beam Tilt	**0.75 Degrees**
RMS Gain at Horizontal	**12.0 (10.79 dB)**	Frequency	**593.00 MHz**
Calculated / Measured	**Calculated**	Drawing #	**06U133075**



Remarks:

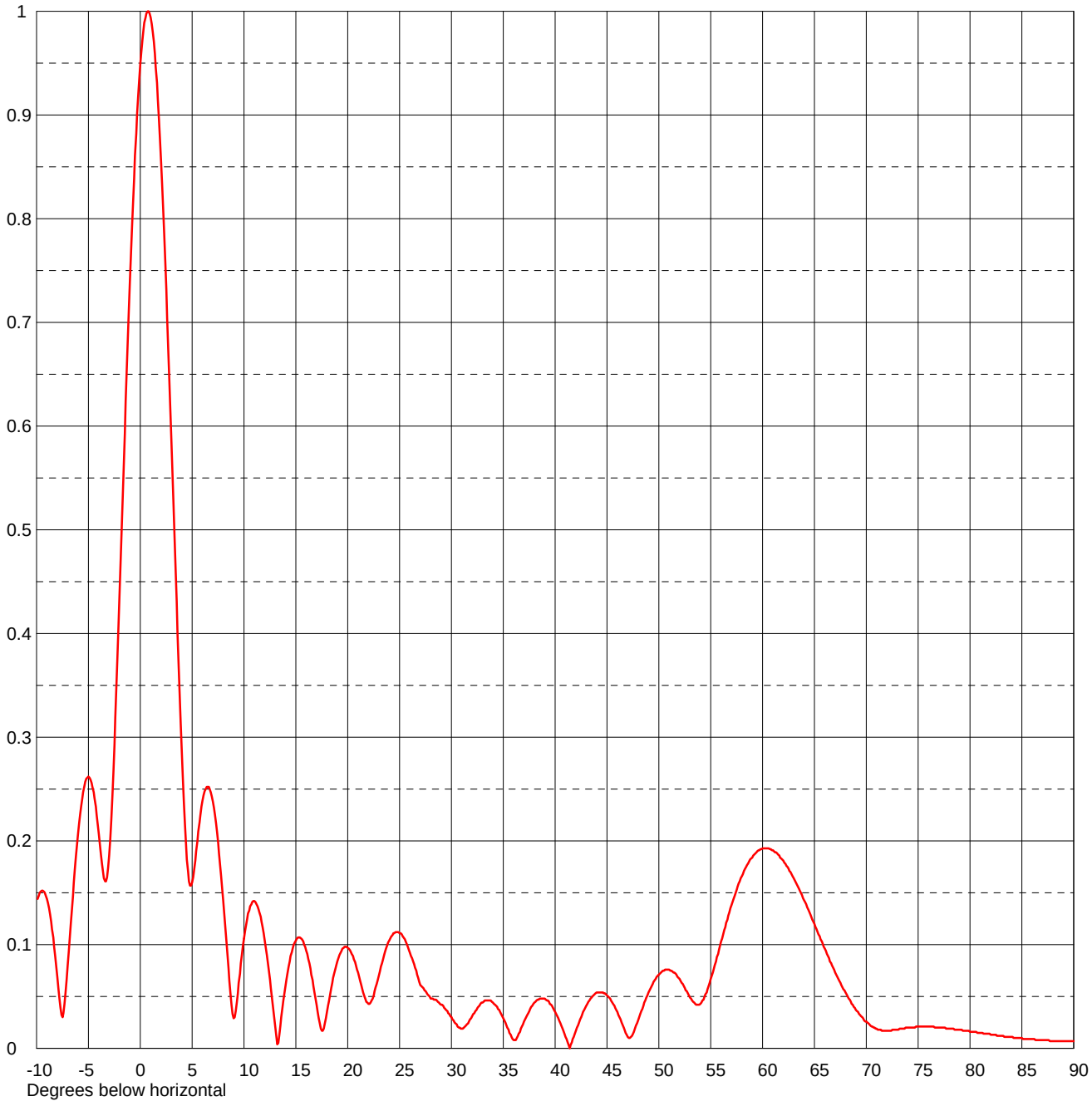
Exhibit No.
E-4

Dielectric

Date	**11 Sep 2008**		
Call Letters	**WEDE-CA**	Channel	**34**
Location	**Arlington Heights, IL**		
Customer	**First United, Inc.**		
Antenna Type	**TUA-C2-06/12U-T**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**13.3 (11.24 dB)**	Beam Tilt	**0.75 Degrees**
RMS Gain at Horizontal	**12.0 (10.79 dB)**	Frequency	**593.00 MHz**
Calculated / Measured	**Calculated**	Drawing #	**06U133075-90**



Remarks:

Exhibit No.
E-5

Dielectric

Date	**11 Sep 2008**		
Call Letters	**WEDE-CA**	Channel	**34**
Location	**Arlington Heights, IL**		
Customer	**First United, Inc.**		
Antenna Type	**TUA-C2-06/12U-T**		

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **06U133075-90**

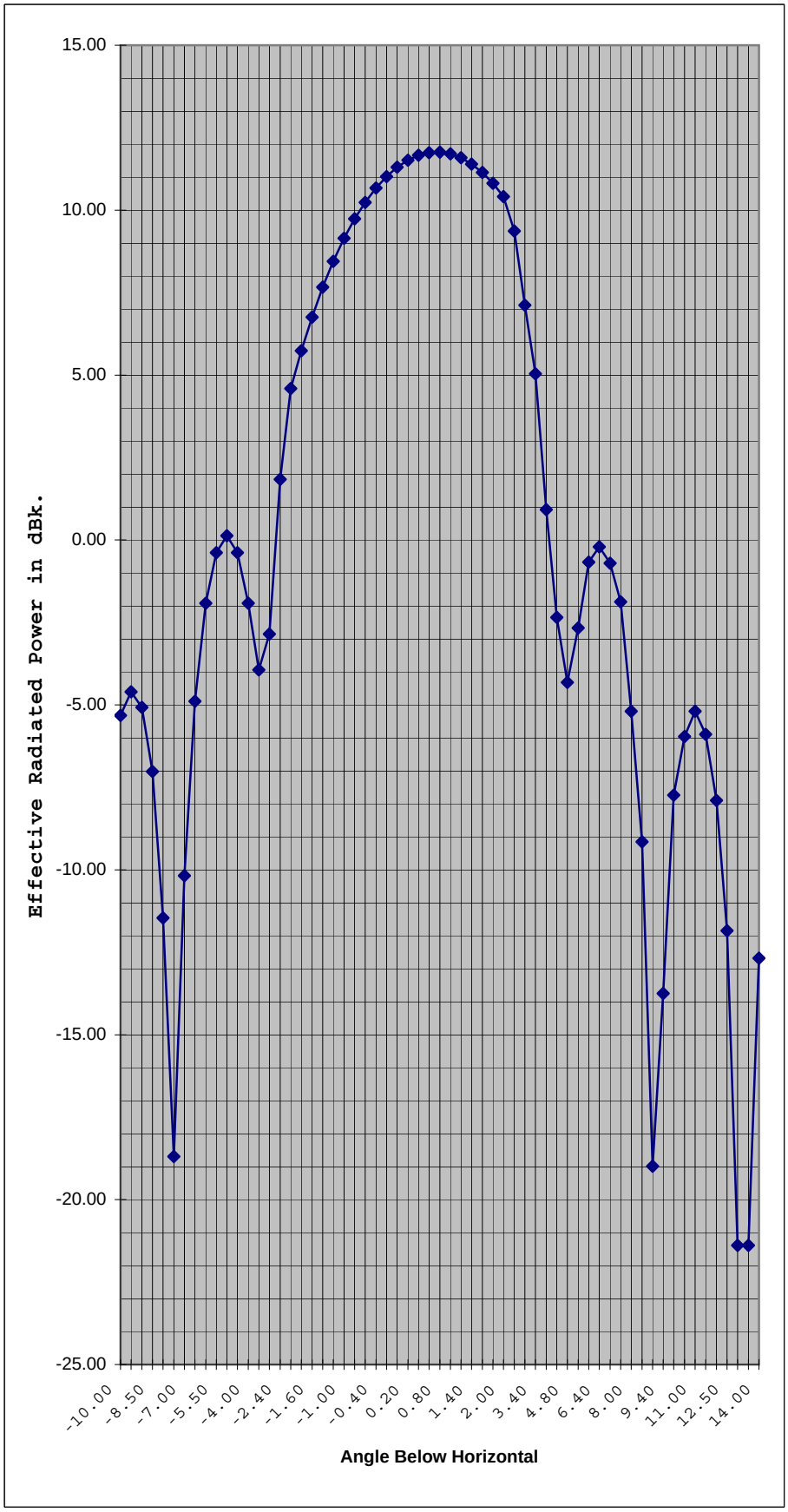
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.140	2.4	0.759	10.6	0.137	30.5	0.023	51.0	0.076	71.5	0.017
-9.5	0.152	2.6	0.704	10.8	0.141	31.0	0.019	51.5	0.073	72.0	0.017
-9.0	0.144	2.8	0.646	11.0	0.142	31.5	0.023	52.0	0.067	72.5	0.018
-8.5	0.115	3.0	0.586	11.5	0.131	32.0	0.031	52.5	0.058	73.0	0.018
-8.0	0.069	3.2	0.524	12.0	0.104	32.5	0.039	53.0	0.049	73.5	0.019
-7.5	0.030	3.4	0.461	12.5	0.066	33.0	0.044	53.5	0.043	74.0	0.020
-7.0	0.080	3.6	0.400	13.0	0.022	33.5	0.046	54.0	0.043	74.5	0.020
-6.5	0.147	3.8	0.342	13.5	0.022	34.0	0.044	54.5	0.052	75.0	0.021
-6.0	0.207	4.0	0.287	14.0	0.060	34.5	0.038	55.0	0.067	75.5	0.021
-5.5	0.247	4.2	0.237	14.5	0.089	35.0	0.029	55.5	0.084	76.0	0.021
-5.0	0.262	4.4	0.197	15.0	0.104	35.5	0.018	56.0	0.103	76.5	0.021
-4.5	0.247	4.6	0.170	15.5	0.106	36.0	0.008	56.5	0.121	77.0	0.020
-4.0	0.207	4.8	0.157	16.0	0.094	36.5	0.014	57.0	0.138	77.5	0.020
-3.5	0.164	5.0	0.160	16.5	0.071	37.0	0.026	57.5	0.153	78.0	0.019
-3.0	0.186	5.2	0.173	17.0	0.042	37.5	0.036	58.0	0.166	78.5	0.018
-2.8	0.220	5.4	0.190	17.5	0.017	38.0	0.044	58.5	0.177	79.0	0.018
-2.6	0.266	5.6	0.209	18.0	0.035	38.5	0.048	59.0	0.184	79.5	0.017
-2.4	0.319	5.8	0.225	18.5	0.063	39.0	0.048	59.5	0.190	80.0	0.016
-2.2	0.377	6.0	0.239	19.0	0.084	39.5	0.043	60.0	0.193	80.5	0.016
-2.0	0.438	6.2	0.248	19.5	0.096	40.0	0.035	60.5	0.193	81.0	0.015
-1.8	0.500	6.4	0.252	20.0	0.097	40.5	0.024	61.0	0.191	81.5	0.014
-1.6	0.562	6.6	0.252	20.5	0.089	41.0	0.011	61.5	0.187	82.0	0.013
-1.4	0.624	6.8	0.247	21.0	0.073	41.5	0.003	62.0	0.181	82.5	0.013
-1.2	0.683	7.0	0.238	21.5	0.054	42.0	0.017	62.5	0.173	83.0	0.012
-1.0	0.740	7.2	0.225	22.0	0.043	42.5	0.030	63.0	0.164	83.5	0.011
-0.8	0.792	7.4	0.208	22.5	0.051	43.0	0.041	63.5	0.154	84.0	0.011
-0.6	0.839	7.6	0.188	23.0	0.070	43.5	0.049	64.0	0.143	84.5	0.010
-0.4	0.882	7.8	0.166	23.5	0.090	44.0	0.054	64.5	0.132	85.0	0.010
-0.2	0.918	8.0	0.142	24.0	0.104	44.5	0.054	65.0	0.120	85.5	0.009
0.0	0.949	8.2	0.116	24.5	0.111	45.0	0.051	65.5	0.108	86.0	0.009
0.2	0.972	8.4	0.090	25.0	0.111	45.5	0.044	66.0	0.096	86.5	0.008
0.4	0.989	8.6	0.065	25.5	0.105	46.0	0.035	66.5	0.084	87.0	0.008
0.6	0.998	8.8	0.042	26.0	0.092	46.5	0.023	67.0	0.073	87.5	0.008
0.8	1.000	9.0	0.029	26.5	0.078	47.0	0.011	67.5	0.063	88.0	0.007
1.0	0.994	9.2	0.036	27.0	0.061	47.5	0.014	68.0	0.054	88.5	0.007
1.2	0.980	9.4	0.053	27.5	0.055	48.0	0.027	68.5	0.045	89.0	0.007
1.4	0.959	9.6	0.072	28.0	0.048	48.5	0.041	69.0	0.037	89.5	0.007
1.6	0.931	9.8	0.090	28.5	0.047	49.0	0.054	69.5	0.031	90.0	0.007
1.8	0.897	10.0	0.106	29.0	0.042	49.5	0.064	70.0	0.026		
2.0	0.856	10.2	0.119	29.5	0.037	50.0	0.071	70.5	0.021		
2.2	0.810	10.4	0.130	30.0	0.030	50.5	0.075	71.0	0.019		

Remarks:

Exhibit E-6 - VERTICAL RADIATION PATTERN

Note: Relative field same for all azimuths.
ERP in dBk based on maximum ERP azimuths.

Angle	Relative Field	ERP dBk.
-10.00	0.140	-5.32
-9.50	0.152	-4.60
-9.00	0.144	-5.07
-8.50	0.115	-7.03
-8.00	0.069	-11.46
-7.50	0.030	-18.70
-7.00	0.080	-10.18
-6.50	0.147	-4.89
-6.00	0.207	-1.92
-5.50	0.247	-0.39
-5.00	0.262	0.13
-4.50	0.247	-0.39
-4.00	0.207	-1.92
-3.50	0.164	-3.94
-3.00	0.186	-2.85
-2.40	0.319	1.84
-2.00	0.438	4.59
-1.80	0.500	5.74
-1.60	0.562	6.76
-1.40	0.624	7.66
-1.20	0.683	8.45
-1.00	0.740	9.15
-0.80	0.792	9.74
-0.60	0.839	10.24
-0.40	0.882	10.67
-0.20	0.918	11.02
0.00	0.949	11.31
0.20	0.972	11.51
0.40	0.989	11.66
0.60	0.998	11.74
0.80	1.000	11.76
1.00	0.994	11.71
1.20	0.980	11.59
1.40	0.959	11.40
1.60	0.931	11.14
1.80	0.897	10.82
2.00	0.856	10.41
2.40	0.759	9.37
3.00	0.586	7.12
3.40	0.461	5.03
4.00	0.287	0.92
4.40	0.197	-2.35
4.80	0.157	-4.32
5.40	0.190	-2.66
6.00	0.239	-0.67
6.40	0.252	-0.21
7.00	0.238	-0.71
7.40	0.208	-1.88
8.00	0.142	-5.19
8.40	0.090	-9.15
9.00	0.029	-18.99
9.40	0.053	-13.75
10.00	0.106	-7.73
10.40	0.130	-5.96
11.00	0.142	-5.19
11.50	0.131	-5.89
12.00	0.104	-7.90
12.50	0.066	-11.85
13.00	0.022	-21.39
13.50	0.022	-21.39
14.00	0.060	-12.68



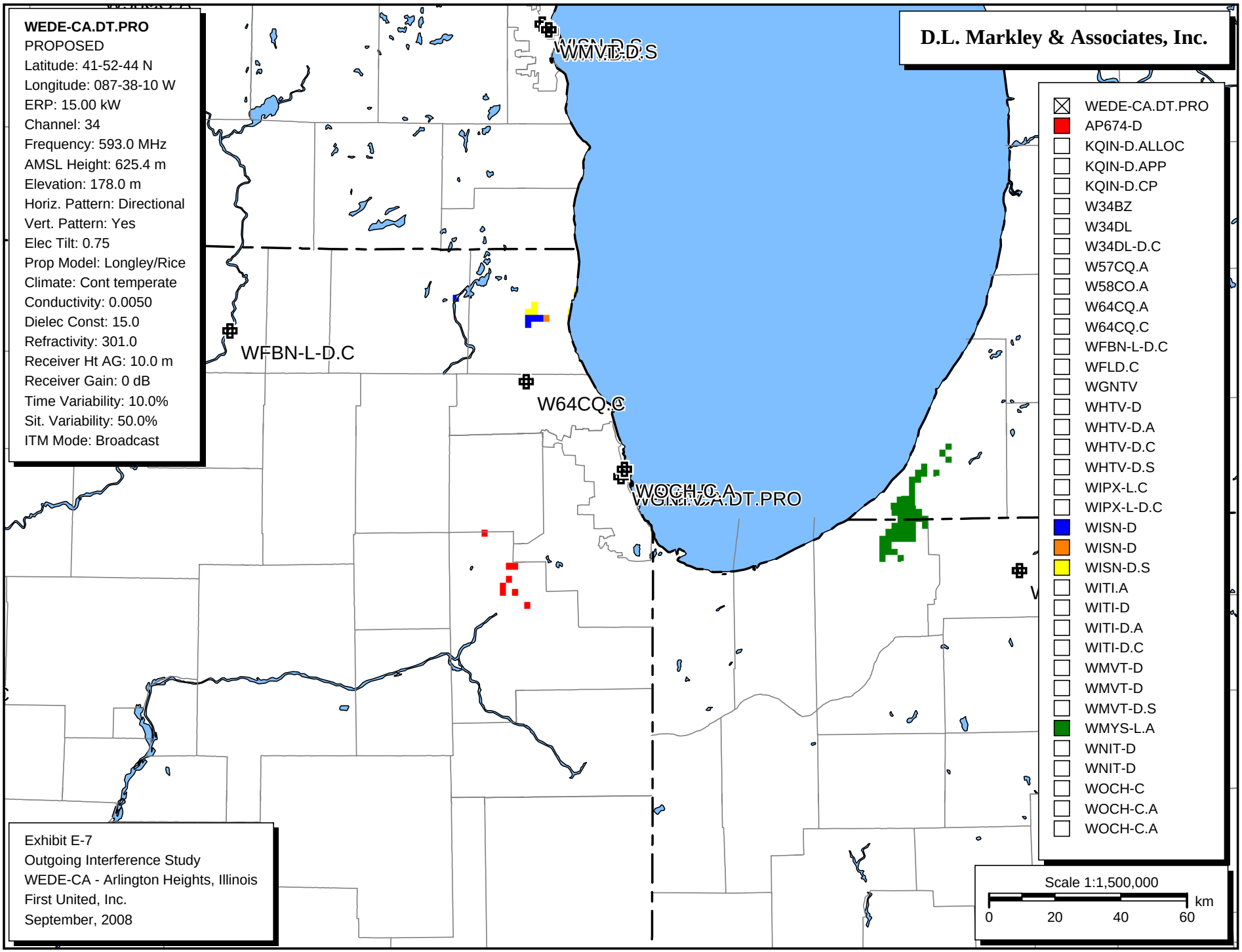

WEDE-CA.DT.PRO
PROPOSED
Latitude: 41-52-44 N
Longitude: 087-38-10 W
ERP: 15.00 kW
Channel: 34
Frequency: 593.0 MHz
AMSL Height: 625.4 m
Elevation: 178.0 m
Horiz. Pattern: Directional
Vert. Pattern: Yes
Elec Tilt: 0.75
Prop Model: Longley/Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 301.0
Receiver Ht AG: 10.0 m
Receiver Gain: 0 dB
Time Variability: 10.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast
D.L. Markley & Associates, Inc.
WMVT-D.S
WFBN-L-D.C
W64CQ.C
WOCH-C.A
WEDE-CA.DT.PRO
WEDE-CA.DT.PRO
AP674-D
KQIN-D.ALLOC
KQIN-D.APP
KQIN-D.CP
W34BZ
W34DL
W34DL-D.C
W57CQ.A
W58CO.A
W64CQ.A
W64CQ.C
WFBN-L-D.C
WFLD.C
WGNTV
WHTV-D
WHTV-D.A
WHTV-D.C
WHTV-D.S
WIPX-L.C
WIPX-L-D.C
WISN-D
WISN-D
WISN-D.S
WITI.A
WITI-D
WITI-D.A
WITI-D.C
WMVT-D
WMVT-D
WMVT-D.S
WMYS-L.A
WNIT-D
WNIT-D
WOCH-C
WOCH-C.A
WOCH-C.A
Exhibit E-7
Outgoing Interference Study
WEDE-CA - Arlington Heights, Illinois
First United, Inc.
September, 2008
Scale 1:1,500,000
0
20
40
60
km

Exhibit E-8
Outgoing Interference Population Report

WEDE-CA.DT.PRO (34) Arlington Heights, IL - PROPOSED
Broadcast Type: Digital Service: C [Simple Emission Mask]
Lat: 41-52-44 N Lng: 087-38-10 W ERP: 15.0 kW AMSL: 625.4 m
TV Outgoing Interference Study
Signal Resolution: 2.0 km
Consider NTSC Taboo: Yes
KWX error points are considered to
     be interference free coverage.
Default # of radials computed for contours: 72
Contours calculated using 8 radial HAAT.
LR Profile Spacing Increment: 1.0 km
Masked interference points are being
     counted as interference.
Pop Centroid DB: 2000 US Census (SF1)

Study Date: 9/10/2008
TV Database Date: 9/10/2008

Primary Terrain: V-Soft 3 Second US Terrain
Secondary Terrain: V-Soft 30 Second US Database

Population Database: 2000 US Census (SF1)

Stations Considered:

Call Letters	City	State	Dist	Bear
AP674-D (33)	Chicago	IL	2.5	26.0
KQIN-D.ALLOC (34)	DAVENPORT	IA	237.2	255.5
KQIN-D.APP (34)	Davenport	IA	237.2	255.5
KQIN-D.CP (34)	Davenport	IA	237.2	255.5
W34BZ (34Z)	Ludington	MI	265.2	23.2
W34DL (34Z)	Champaign	IL	195.8	192.0
W34DL-D.C (34)	Champaign	IL	195.8	192.0
W57CQ.A (34+)	Lafayette	IN	177.6	158.4
W58CO.A (34+)	Madison	WI	219.0	313.2
W64CQ.A (42-)	Arlington Heights	IL	40.6	315.1
W64CQ.C (42-)	Arlington Heights	IL	40.6	315.1
WFBN-L-D.C (35)	Rockford	IL	126.3	290.5
WFLD.C (31)	Chicago	IL	0.0	90.0
WGNTV (19)	Chicago	IL	0.0	90.0
WHTV-D (34)	JACKSON	MI	264.2	75.8
WHTV-D.A (34)	Jackson	MI	283.5	70.4
WHTV-D.C (34)	Jackson	MI	283.5	70.4
WHTV-D.S (34)	Jackson	MI	270.4	80.2
WIPX-L.C (34+)	Indianapolis	IN	251.2	150.9
WIPX-L-D.C (34)	Indianapolis	IN	248.8	150.0

WISN-D (34)	Milwaukee	WI	139.0	350.1
WISN-D (34)	MILWAUKEE	WI	139.0	350.1
WISN-D.S (34)	Milwaukee	WI	139.0	350.1
WITI.A (33)	Milwaukee	WI	136.3	351.0
WITI-D (33)	MILWAUKEE	WI	136.2	351.0
WITI-D.A (33)	Milwaukee	WI	136.3	351.0
WITI-D.C (33)	Milwaukee	WI	137.0	350.8
WMVT-D (35)	Milwaukee	WI	137.0	350.8
WMVT-D (35)	MILWAUKEE	WI	137.0	350.8
WMVT-D.S (35)	Milwaukee	WI	137.0	350.8
WMYS-L.A (34-)	South Bend	IN	124.2	103.2
WNIT-D (35)	SOUTH BEND	IN	123.9	103.3
WNIT-D (35)	South Bend	IN	123.9	103.3
WOCH-C (41Z)	Chicago	IL	2.5	26.0
WOCH-C.A (41Z)	Chicago	IL	2.5	26.0
WOCH-C.A (41Z)	Chicago	IL	2.5	26.0

Call	Area	HUnits	Contour	Masked Ix	Unmasked Ix	%
AP674-D (33)	65.7	6,766	4,545,652	0	18,244	0.4
KQIN-D.ALLOC (34	0.0	0	421,540	0	0	0.0
KQIN-D.APP (34)	0.0	0	629,046	0	0	0.0
KQIN-D.CP (34)	0.0	0	422,110	0	0	0.0
W34BZ (34Z)	0.0	0	28	0	0	0.0
W34DL (34Z)	0.0	0	173,681	0	0	0.0
W34DL-D.C (34)	0.0	0	277,060	0	0	0.0
W57CQ.A (34+)	0.0	0	153,325	0	0	0.0
W58CO.A (34+)	0.0	0	97,288	0	0	0.0
W64CQ.A (42-)	0.0	0	948,498	0	0	0.0
W64CQ.C (42-)	0.0	0	948,498	0	0	0.0
WFBN-L-D.C (35)	0.0	0	336,038	0	0	0.0
WFLD.C (31)	0.0	0	7,544,439	0	0	0.0
WGNTV (19)	0.0	0	7,220,626	0	0	0.0
WHTV-D (34)	0.0	0	1,422,914	0	0	0.0
WHTV-D.A (34)	0.0	0	3,223,449	0	0	0.0
WHTV-D.C (34)	0.0	0	822,967	0	0	0.0
WHTV-D.S (34)	0.0	0	283,779	0	0	0.0
WIPX-L.C (34+)	0.0	0	1,363,088	0	0	0.0
WIPX-L-D.C (34)	0.0	0	1,547,706	0	0	0.0
WISN-D (34)	61.5	4,018	2,692,886	0	10,816	0.4
WISN-D (34)	61.5	4,018	2,692,814	0	10,816	0.4
WISN-D.S (34)	39.8	1,539	2,560,492	0	3,075	0.1
WITI.A (33)	0.0	0	1,667,573	0	0	0.0
WITI-D (33)	0.0	0	2,941,523	0	0	0.0
WITI-D.A (33)	0.0	0	2,683,803	0	0	0.0
WITI-D.C (33)	0.0	0	3,144,353	0	0	0.0
WMVT-D (35)	0.0	0	2,780,771	0	0	0.0
WMVT-D (35)	0.0	0	2,778,643	0	0	0.0
WMVT-D.S (35)	0.0	0	2,256,971	0	0	0.0
WMYS-L.A (34-)	186.1	3,049	615,623	0	6,993	1.1
WNIT-D (35)	0.0	0	1,213,551	0	0	0.0
WNIT-D (35)	0.0	0	1,215,635	0	0	0.0

WOCH-C (41Z)	0.0	0	5,049,348	0	0	0.0
WOCH-C.A (41Z)	0.0	0	6,162,519	0	0	0.0
WOCH-C.A (41Z)	0.0	0	4,457,860	0	0	0.0

	Housing Units	Population
Illinois		
Cook County		
Total	2,096,121	5,376,741
AP674-D (33)	91	292
DuPage County		
Total	335,621	904,161
AP674-D (33)	1,096	2,949
Lake County		
Total	225,919	644,356
WISN-D (34)	3,473	9,372
WISN-D (34)	3,473	9,372
WISN-D.S (34)	1,539	3,075
McHenry County		
Total	92,908	260,077
WISN-D (34)	545	1,444
WISN-D (34)	545	1,444
Will County		
Total	175,524	502,266
AP674-D (33)	5,579	15,003
Indiana		
LaPorte County		
Total	45,621	110,106
WMYS-L.A (34-)	1,202	2,750
Michigan		
Berrien County		
Total	73,445	162,453
WMYS-L.A (34-)	1,847	4,243

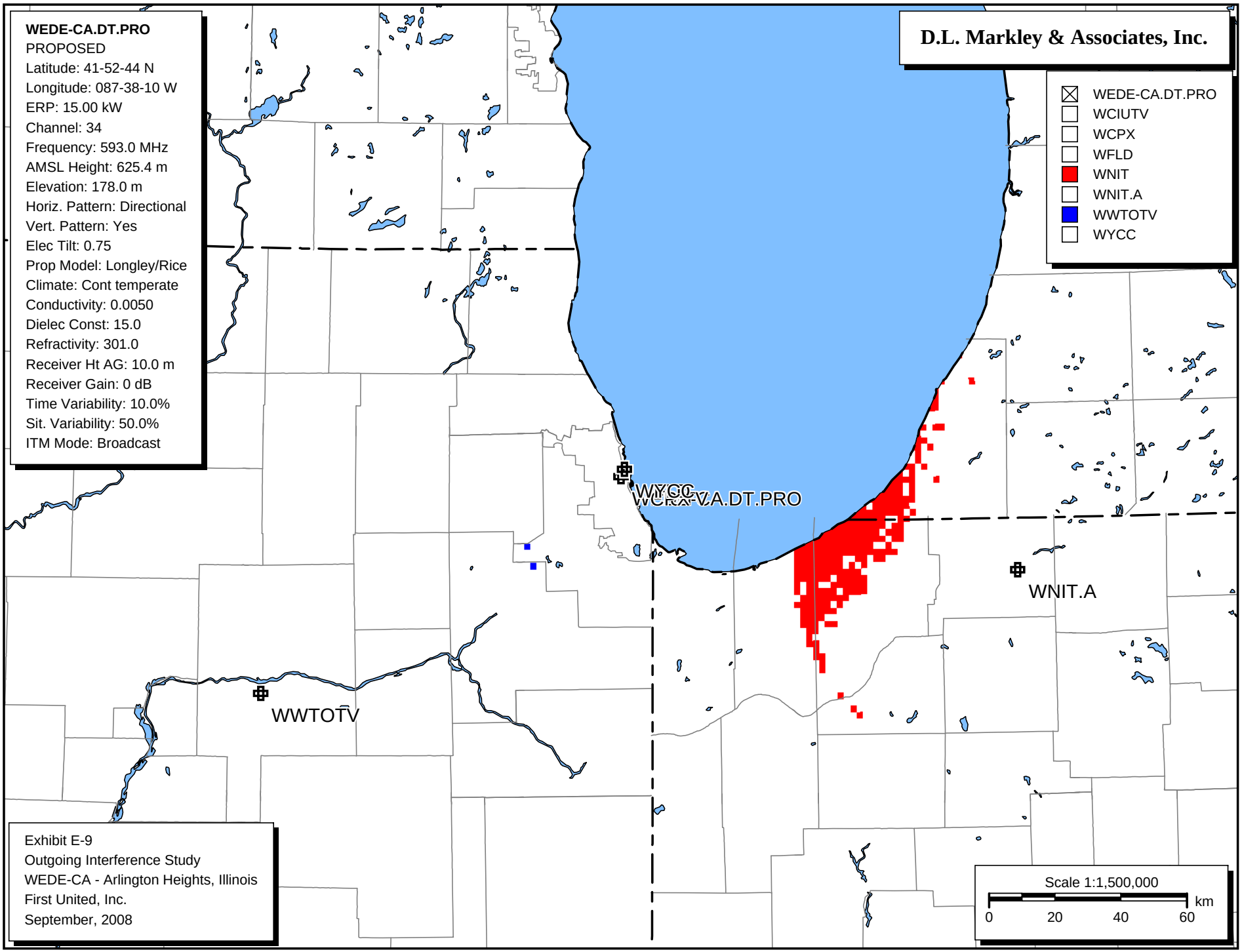

WEDE-CA.DT.PRO
PROPOSED
Latitude: 41-52-44 N
Longitude: 087-38-10 W
ERP: 15.00 kW
Channel: 34
Frequency: 593.0 MHz
AMSL Height: 625.4 m
Elevation: 178.0 m
Horiz. Pattern: Directional
Vert. Pattern: Yes
Elec Tilt: 0.75
Prop Model: Longley/Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 301.0
Receiver Ht AG: 10.0 m
Receiver Gain: 0 dB
Time Variability: 10.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast
D.L. Markley & Associates, Inc.
WEDE-CA.DT.PRO
WCIUTV
WCPX
WFLD
WNIT
WNIT.A
WWTOTV
WYCC
WYCC
WEDE-CA.DT.PRO
WNIT.A
WWTOTV
Exhibit E-9
Outgoing Interference Study
WEDE-CA - Arlington Heights, Illinois
First United, Inc.
September, 2008
Scale 1:1,500,000
0
20
40
60
km

Exhibit E-10
Outgoing Interference Population Report

WEDE-CA.DT.PRO (34) Arlington Heights, IL - PROPOSED
Broadcast Type: Digital Service: C [Simple Emission Mask]
Lat: 41-52-44 N Lng: 087-38-10 W ERP: 15.0 kW AMSL: 625.4 m
TV Outgoing Interference Study
Signal Resolution: 2.0 km
Consider NTSC Taboo: Yes
KWX error points are considered to
     be interference free coverage.
Default # of radials computed for contours: 72
Contours calculated using 8 radial HAAT.
LR Profile Spacing Increment: 1.0 km
Masked interference points are being
     counted as interference.
Pop Centroid DB: 2000 US Census (SF1)

Study Date: 9/10/2008
TV Database Date: 9/10/2008

Primary Terrain: V-Soft 3 Second US Terrain
Secondary Terrain: V-Soft 30 Second US Database

Population Database: 2000 US Census (SF1)

Stations Considered:

Call Letters	City	State	Dist	Bear
WCIUTV (26Z)	Chicago	IL	0.0	0.0
WCPX (38-)	Chicago	IL	0.0	90.0
WFLD (32Z)	Chicago	IL	2.5	26.0
WNIT (34-)	South Bend	IN	123.3	103.2
WNIT.A (34-)	South Bend	IN	123.3	103.2
WWTOTV (35Z)	La Salle	IL	127.2	239.0
WYCC (20Z)	Chicago	IL	2.5	26.0

Call	Area	HUnits	Contour	Masked Ix	Unmasked Ix	%
WCIUTV (26Z)	0.0	0	9,338,626	0	0	0.0
WCPX (38-)	0.0	0	9,247,812	0	0	0.0
WFLD (32Z)	0.0	0	9,264,736	0	0	0.0
WNIT (34-)	1924.7	44,949	1,040,088	0	97,342	9.4
WNIT.A (34-)	0.0	0	469,001	0	0	0.0
WWTOTV (35Z)	7.3	1,029	1,629,230	0	3,016	0.2
WYCC (20Z)	0.0	0	8,884,768	0	0	0.0

	Housing Units	Population
Illinois		
Cook County		
Total	2,096,121	5,376,741
WWTOTV (35Z)	215	490
DuPage County		
Total	335,621	904,161
WWTOTV (35Z)	0	0
Will County		
Total	175,524	502,266
WWTOTV (35Z)	814	2,526
Indiana		
LaPorte County		
Total	45,621	110,106
WNIT (34-)	25,491	62,299
Porter County		
Total	57,616	146,798
WNIT (34-)	2,715	6,548
Starke County		
Total	10,201	23,556
WNIT (34-)	276	685
Michigan		
Berrien County		
Total	73,445	162,453
WNIT (34-)	16,467	27,810