

ENGINEERING EXHIBIT
APPLICATION FOR MODIFICATION OF
CONSTRUCTION PERMIT
TELEVISION STATION KASN-DT
PINE BLUFF, ARKANSAS

July 5, 2001

CHANNEL 39 1000 KW (MAX-DA) 590 M

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Table of Contents

Engineering Statement

Figure 1	Tabulation of Average Elevations and Distances to Predicted Coverage Contours
Figure 2	Predicted Coverage Contours
Figure 3	Summary of Allocation Analysis
Appendix	Transmitting Antenna Manufacturer's Azimuthal Plane and Vertical Plane Pattern Data

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Engineering Statement

This Engineering Exhibit was prepared on behalf of digital television broadcast station KASN-DT, Pine Bluff, Arkansas, in support of an application for modification of its construction permit (See FCC File No. BPCDT-19991101AHG). The purpose of this modification is to change the proposed transmitting antenna orientation and radiation center height. Also, the overall proposed antenna structure height is reduced.

Proposed Facilities

The proposed transmitting antenna will be top-mounted on the existing KASN(TV) transmission tower with a center of radiation at 571 m above ground level (674 m AMSL). The proposed facility will operate on Channel 39 with a maximum directional average ERP of 1000 kW and an antenna radiation center HAAT of 590 m. The proposal meets the maximum permissible ERP requirements pursuant to Section 73.622(f)(5) of the FCC Rules. The proposed antenna will be shared with the analog facility of KASN(TV), which is authorized for operation on Channel 38.*

* An application to modify the KASN(TV) licensed analog facility to reflect the use of the new combined antenna for KASN(TV)/-DT is being filed as well.

The proposed facility provides minimum 48 dBu, f(50,90), coverage of Pine Bluff in compliance with Section 73.625(a)(1) of the FCC Rules, as recently adopted by the FCC in MM Docket No. 00-39. Figure 1 herein is a tabulation of the calculated distances to the predicted KASN-DT coverage contours. Figure 2 herein is a map depicting the predicted coverage contours of the proposed facility.

Tower Registration

The proposed antenna structure has been registered with the FCC. The FCC antenna structure registration number is 1036554. The overall height of the antenna structure will be reduced by 3 m to 579 m AGL (682 m AMSL) as a result of the instant proposal. The Federal Aviation Administration has been notified of the proposal and the tower registration information will be modified upon receipt of a determination of no hazard to air navigation from the FAA.

Allocation Considerations

The proposed KASN-DT Channel 39 facility meets the requirements of Section 73.623 of the FCC Rules concerning predicted interference to other existing NTSC facilities and DTV allotments and assignments. Longley-Rice interference analyses were conducted pursuant to the requirements of the FCC Rules; OET Bulletin No. 69; and published FCC guidelines for preparation of such interference analyses. The Longley-Rice interference analyses were conducted using the software developed by du Treil, Lundin & Rackley, Inc. based on the FCC published software routines.[†] Stations selected for analysis were determined pursuant to the distance requirements outlined in the FCC DTV Processing Guidelines Public Notice. Accordingly, co-channel DTV and NTSC stations within 429 km and 407 km, respectively, were examined for

[†] The duTreil, Lundin & Rackley, Inc. DTV interference analysis program is a precise implementation of the 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.

potential interference; and first-adjacent DTV and NTSC stations within 229 km and 207 km, respectively, were examined for potential interference. Analog taboo-related NTSC stations within 142 km were examined for potential interference. The results of the interference analyses for the proposed KASN-DT facility are summarized herein at Figure 3. As indicated therein, the proposed facility will meet the 2%/10% criterion outlined in the FCC Rules and published guidelines with respect to all considered stations.[‡]

With respect to Class A TV station protection, the proposal has been evaluated according to the requirements of Section 73.623(c)(5) of the FCC Rules. The analysis reveals no potentially affected Class A TV stations.

Environmental Considerations

With respect to the potential for human exposure to radio frequency (RF) radiation, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposal will not result in human exposure to RF radiation at ground level in excess of FCC standards. Power density calculations were conducted at 2-m above ground[§] based on the following conservative assumptions, with the following results:

Call Sign	Channel	Peak Visual ERP or Average ERP (kW)	Aural ERP (kW)	Relative Field Factor **	FCC Limit ^{††} (mW/cm ²)	Percentage of Limit
KASN-DT	39	1000	--	0.20	0.413	1.00%

[‡] Interference analysis results reflect the net change in interference to a given station considering the interference predicted to occur from all other stations (i.e. “masking”) including the allotment facility for KASN-DT. This properly reflects the net interference change for determining compliance with the FCC DTV2%/10% *de minimis* standard.

[§] The antenna radiation center height above ground is 571 m for KASN-DT.

^{**} This is a conservative estimate of the relative field factor in the downward direction.

^{††} for general population/uncontrolled environments

As indicated above, the RF radiation at 2-m above ground level from the proposed KASN-DT facility will not exceed 1.0% of the FCC limit for general population / uncontrolled exposure. Therefore, the proposal complies with the FCC limits for human exposure to RF radiation and it is categorically excluded from environmental processing. The applicant, in coordination with other users of the transmission facility, shall reduce power or cease operation as necessary to protect persons having access to the KASN-DT tower or antenna from radio frequency radiation in excess of the FCC guidelines.

Louis Robert du Treil, Jr.

July 5, 2001

Figure 1

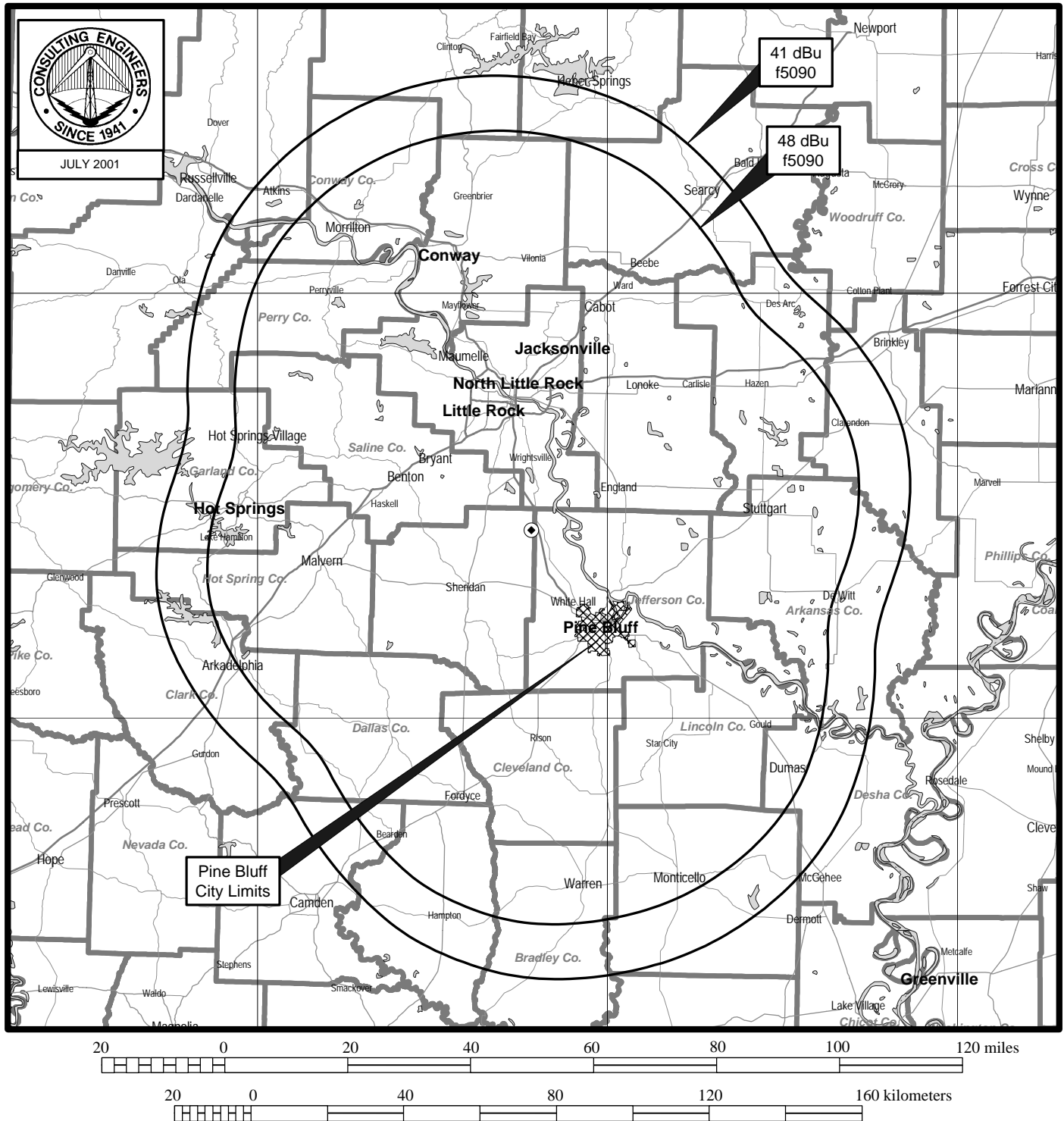
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Tabulation of Average Elevations and
Distances to Predicted Coverage Contours

Azimuth (deg.T)	3-16 km Average Terrain (m)	Antenna HAAT (m)	ERP (kW)	48 dBu f(50,90) Contour (km)	41 dBu f(50,90) Contour (km)
0	75	599	820.8	104.2	118.6
15	71	603	439.6	99.1	113.0
30	70	604	139.9	89.5	103.1
45	71	603	45.4	80.4	93.5
60	73	601	80.1	84.8	98.2
75	75	599	110.9	87.4	100.9
90	71	603	80.1	84.9	98.3
105	78	596	45.4	80.1	93.2
120	85	589	139.9	88.8	102.4
135	94	580	439.6	97.9	111.9
150	103	571	820.8	102.8	117.1
165	112	562	1000.0	104.0	118.5
180	98	576	820.8	103.0	117.4
195	91	583	439.6	98.1	112.0
210	88	586	139.9	88.7	102.2
225	88	586	45.4	79.7	92.7
240	96	578	80.1	83.8	97.1
255	95	579	110.9	86.4	99.9
270	88	586	80.1	84.2	97.5
285	93	581	45.4	79.5	92.5
300	94	580	139.9	88.4	101.9
315	90	584	439.6	98.2	112.1
330	85	589	820.8	103.8	118.1
345	78	596	1000.0	105.8	120.3

Note: The 3-16-km average terrain is 84 m based on the eight conventional radials (0°, 45°, 90°, etc.). The overall antenna radiation center height above average terrain is 590 m based on the eight conventional radials.

Figure 2



PREDICTED COVERAGE CONTOURS

TELEVISION STATION KASN-DT
PINE BLUFF, ARKANSAS
CHANNEL 39 1000 KW (MAX-DA) 590 M

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

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Summary of Allocation Analysis

Stations Potentially Affected by Proposed Station							
Facility Number	Channel	Call	City State	Distance (km)	Status	Application Prefix	Application Reference Number
1	25	KVTN	PINE BLUFF AR	18.7	LIC	BLCT	19881209KF
2	36	KKAP	LITTLE ROCK AR	47.1	CP MOD	BMPET	20010202ABI
3	38	KASN	PINE BLUFF AR	0	LIC	BLCT	19860623KX
4	38	KMCT-DT	WEST MONROE LA	215.3	CP	BPCDT	19991029ADX
5	38	KMCT-DT	WEST MONROE LA	215.3	PLN	DTVPLN	DTVP0990
6	39	KSBN-DT	SPRINGDALE AR	270.4	PLN	DTVPLN	DTVP1021
7	39	KSBN-DT	SPRINGDALE AR	270.4	APP	BMPCDT	20000426AAR
8	39	KMCT-TV	WEST MONROE LA	215.3	LIC	BLCT	19860612KE
9	39	WMTU	JACKSON TN	320.2	CP MOD	BMPCDT	20000501ABP

Stations Potentially Affected by Proposed Station							
Facility Number	Channel	Call	City State	Distance (km)	Status	Application Prefix	Application Reference Number
10	39	WMTU-DT	JACKSON TN	320.2	PLN	DTVPLN	DTVP1046
11	42	KYPX	LITTLE ROCK AR	47.1	LIC	BLCT	19980415KE

Summary of Interference Analysis for Worst-Case Scenarios							
Facility Number	Interference Population Before Analysis	Interference Population After Analysis	Baseline Population	Net Change in Interference	Percent of Baseline	Permissible Percent of Baseline	Result
1	--	--	--	--	0.00	--	pass
2	2454	2454	585726	0	0.00	--	pass
3	--	--	--	--	0.00	--	pass
4	--	--	--	--	0.00	--	pass
5	--	--	--	--	0.00	--	pass
6	--	--	--	--	0.00	--	pass
7	5509	5810	223451	301	0.135	--	pass
8	1541	5124	260767	3583	1.374	--	pass
9	3067	3071	451426	4	0.001	--	pass
10	--	--	--	--	0.00	--	pass
11	5070	5856	699097	786	0.112	--	pass

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Transmitting Antenna Manufacturer's
Azimuthal Plane and Vertical Plane Pattern Data

(four pages follow)



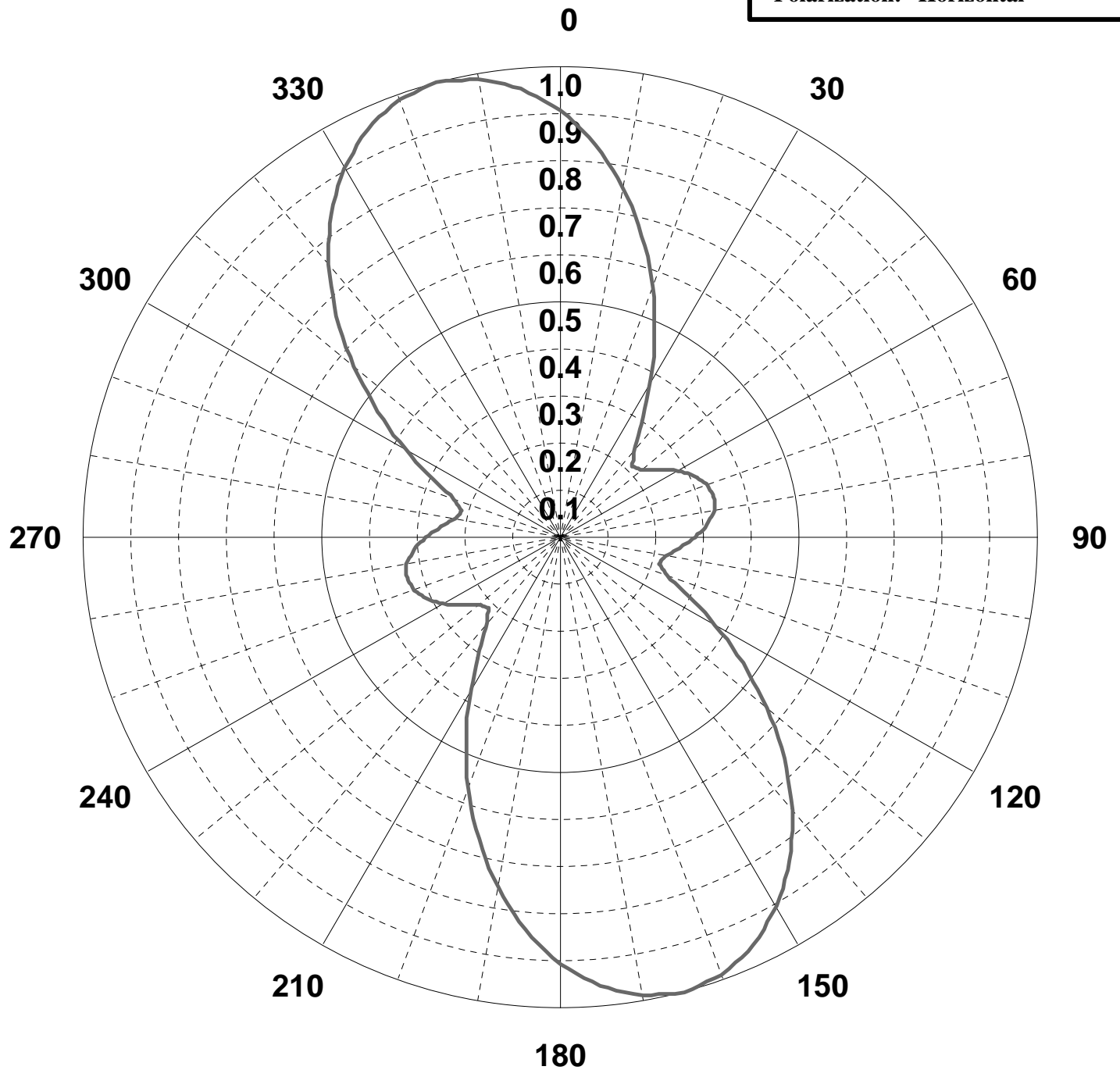
ANDREW

Channel: 39

Type: ATW-P5

Gain: 2.9 (4.62 dB)

Polarization: Horizontal



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

Company:
Site:
Proposal Number:

Date: 7/5/01
Author:



Angle	Amp	dB	Angle	Amp	dB	Angle	Amp	dB	Angle	Amp	dB	Angle	Amp	dB
0	0.906	-0.86	72	0.329	-9.66	144	0.822	-1.70	216	0.283	-10.96	288	0.227	-12.88
1	0.892	-0.99	73	0.331	-9.60	145	0.838	-1.54	217	0.271	-11.34	289	0.232	-12.69
2	0.879	-1.12	74	0.332	-9.58	146	0.852	-1.39	218	0.260	-11.70	290	0.237	-12.51
3	0.865	-1.26	75	0.333	-9.55	147	0.865	-1.26	219	0.248	-12.11	291	0.248	-12.11
4	0.852	-1.39	76	0.332	-9.58	148	0.879	-1.12	220	0.237	-12.51	292	0.260	-11.70
5	0.838	-1.54	77	0.331	-9.60	149	0.892	-0.99	221	0.232	-12.69	293	0.271	-11.34
6	0.822	-1.70	78	0.329	-9.66	150	0.906	-0.86	222	0.227	-12.88	294	0.283	-10.96
7	0.805	-1.88	79	0.328	-9.68	151	0.916	-0.76	223	0.223	-13.03	295	0.294	-10.63
8	0.789	-2.06	80	0.327	-9.71	152	0.926	-0.67	224	0.218	-13.23	296	0.310	-10.17
9	0.772	-2.25	81	0.323	-9.82	153	0.937	-0.57	225	0.213	-13.43	297	0.326	-9.74
10	0.756	-2.43	82	0.320	-9.90	154	0.947	-0.47	226	0.215	-13.35	298	0.342	-9.32
11	0.737	-2.65	83	0.316	-10.01	155	0.957	-0.38	227	0.217	-13.27	299	0.358	-8.92
12	0.719	-2.87	84	0.313	-10.09	156	0.963	-0.33	228	0.219	-13.19	300	0.374	-8.54
13	0.700	-3.10	85	0.309	-10.20	157	0.970	-0.26	229	0.221	-13.11	301	0.393	-8.11
14	0.682	-3.32	86	0.304	-10.34	158	0.976	-0.21	230	0.223	-13.03	302	0.411	-7.72
15	0.663	-3.57	87	0.299	-10.49	159	0.983	-0.15	231	0.229	-12.80	303	0.430	-7.33
16	0.644	-3.82	88	0.293	-10.66	160	0.989	-0.10	232	0.234	-12.62	304	0.448	-6.97
17	0.624	-4.10	89	0.288	-10.81	161	0.991	-0.08	233	0.240	-12.40	305	0.467	-6.61
18	0.605	-4.36	90	0.283	-10.96	162	0.993	-0.06	234	0.245	-12.22	306	0.487	-6.25
19	0.585	-4.66	91	0.277	-11.15	163	0.996	-0.03	235	0.251	-12.01	307	0.507	-5.90
20	0.566	-4.94	92	0.270	-11.37	164	0.998	-0.02	236	0.257	-11.80	308	0.526	-5.58
21	0.546	-5.26	93	0.264	-11.57	165	1.000	0.00	237	0.264	-11.57	309	0.546	-5.26
22	0.526	-5.58	94	0.257	-11.80	166	0.998	-0.02	238	0.270	-11.37	310	0.566	-4.94
23	0.507	-5.90	95	0.251	-12.01	167	0.996	-0.03	239	0.277	-11.15	311	0.585	-4.66
24	0.487	-6.25	96	0.245	-12.22	168	0.993	-0.06	240	0.283	-10.96	312	0.605	-4.36
25	0.467	-6.61	97	0.240	-12.40	169	0.991	-0.08	241	0.288	-10.81	313	0.624	-4.10
26	0.448	-6.97	98	0.234	-12.62	170	0.989	-0.10	242	0.293	-10.66	314	0.644	-3.82
27	0.430	-7.33	99	0.229	-12.80	171	0.983	-0.15	243	0.299	-10.49	315	0.663	-3.57
28	0.411	-7.72	100	0.223	-13.03	172	0.976	-0.21	244	0.304	-10.34	316	0.682	-3.32
29	0.393	-8.11	101	0.221	-13.11	173	0.970	-0.26	245	0.309	-10.20	317	0.700	-3.10
30	0.374	-8.54	102	0.219	-13.19	174	0.963	-0.33	246	0.313	-10.09	318	0.719	-2.87
31	0.358	-8.92	103	0.217	-13.27	175	0.957	-0.38	247	0.316	-10.01	319	0.737	-2.65
32	0.342	-9.32	104	0.215	-13.35	176	0.947	-0.47	248	0.320	-9.90	320	0.756	-2.43
33	0.326	-9.74	105	0.213	-13.43	177	0.937	-0.57	249	0.323	-9.82	321	0.772	-2.25
34	0.310	-10.17	106	0.218	-13.23	178	0.926	-0.67	250	0.327	-9.71	322	0.789	-2.06
35	0.294	-10.63	107	0.223	-13.03	179	0.916	-0.76	251	0.328	-9.68	323	0.805	-1.88
36	0.283	-10.96	108	0.227	-12.88	180	0.906	-0.86	252	0.329	-9.66	324	0.822	-1.70
37	0.271	-11.34	109	0.232	-12.69	181	0.892	-0.99	253	0.331	-9.60	325	0.838	-1.54
38	0.260	-11.70	110	0.237	-12.51	182	0.879	-1.12	254	0.332	-9.58	326	0.852	-1.39
39	0.248	-12.11	111	0.248	-12.11	183	0.865	-1.26	255	0.333	-9.55	327	0.865	-1.26
40	0.237	-12.51	112	0.260	-11.70	184	0.852	-1.39	256	0.332	-9.58	328	0.879	-1.12
41	0.232	-12.69	113	0.271	-11.34	185	0.838	-1.54	257	0.331	-9.60	329	0.892	-0.99
42	0.227	-12.88	114	0.283	-10.96	186	0.822	-1.70	258	0.329	-9.66	330	0.906	-0.86
43	0.223	-13.03	115	0.294	-10.63	187	0.805	-1.88	259	0.328	-9.68	331	0.916	-0.76
44	0.218	-13.23	116	0.310	-10.17	188	0.789	-2.06	260	0.327	-9.71	332	0.926	-0.67
45	0.213	-13.43	117	0.326	-9.74	189	0.772	-2.25	261	0.323	-9.82	333	0.937	-0.57
46	0.215	-13.35	118	0.342	-9.32	190	0.756	-2.43	262	0.320	-9.90	334	0.947	-0.47
47	0.217	-13.27	119	0.358	-8.92	191	0.737	-2.65	263	0.316	-10.01	335	0.957	-0.38
48	0.219	-13.19	120	0.374	-8.54	192	0.719	-2.87	264	0.313	-10.09	336	0.963	-0.33
49	0.221	-13.11	121	0.393	-8.11	193	0.700	-3.10	265	0.309	-10.20	337	0.970	-0.26
50	0.223	-13.03	122	0.411	-7.72	194	0.682	-3.32	266	0.304	-10.34	338	0.976	-0.21
51	0.229	-12.80	123	0.430	-7.33	195	0.663	-3.57	267	0.299	-10.49	339	0.983	-0.15
52	0.234	-12.62	124	0.448	-6.97	196	0.644	-3.82	268	0.293	-10.66	340	0.989	-0.10
53	0.240	-12.40	125	0.467	-6.61	197	0.624	-4.10	269	0.288	-10.81	341	0.991	-0.08
54	0.245	-12.22	126	0.487	-6.25	198	0.605	-4.36	270	0.283	-10.96	342	0.993	-0.06
55	0.251	-12.01	127	0.507	-5.90	199	0.585	-4.66	271	0.277	-11.15	343	0.996	-0.03
56	0.257	-11.80	128	0.526	-5.58	200	0.566	-4.94	272	0.270	-11.37	344	0.998	-0.02
57	0.264	-11.57	129	0.546	-5.26	201	0.546	-5.26	273	0.264	-11.57	345	1.000	0.00
58	0.270	-11.37	130	0.566	-4.94	202	0.526	-5.58	274	0.257	-11.80	346	0.998	-0.02
59	0.277	-11.15	131	0.585	-4.66	203	0.507	-5.90	275	0.251	-12.01	347	0.996	-0.03
60	0.283	-10.96	132	0.605	-4.36	204	0.487	-6.25	276	0.245	-12.22	348	0.993	-0.06
61	0.288	-10.81	133	0.624	-4.10	205	0.467	-6.61	277	0.240	-12.40	349	0.991	-0.08
62	0.293	-10.66	134	0.644	-3.82	206	0.448	-6.97	278	0.234	-12.62	350	0.989	-0.10
63	0.299	-10.49	135	0.663	-3.57	207	0.430	-7.33	279	0.229	-12.80	351	0.983	-0.15
64	0.304	-10.34	136	0.682	-3.32	208	0.411	-7.72	280	0.223	-13.03	352	0.976	-0.21
65	0.309	-10.20	137	0.700	-3.10	209	0.393	-8.11	281	0.221	-13.11	353	0.970	-0.26
66	0.313	-10.09	138	0.719	-2.87	210	0.374	-8.54	282	0.219	-13.19	354	0.963	-0.33
67	0.316	-10.01	139	0.737	-2.65	211	0.358	-8.92	283	0.217	-13.27	355	0.957	-0.38
68	0.320	-9.90	140	0.756	-2.43	212	0.342	-9.32	284	0.215	-13.35	356	0.947	-0.47
69	0.323	-9.82	141	0.772	-2.25	213	0.326	-9.74	285	0.213	-13.43	357	0.937	-0.57
70	0.327	-9.71	142	0.789	-2.06	214	0.310	-10.17	286	0.218	-13.23	358	0.926	-0.67
71	0.328	-9.68	143	0.805	-1.88	215	0.294	-10.63	287	0.223	-13.03	359	0.916	-0.76

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

Company:
Site:
Proposal Number:

Author:

Date: 7/5/01



ANDREW

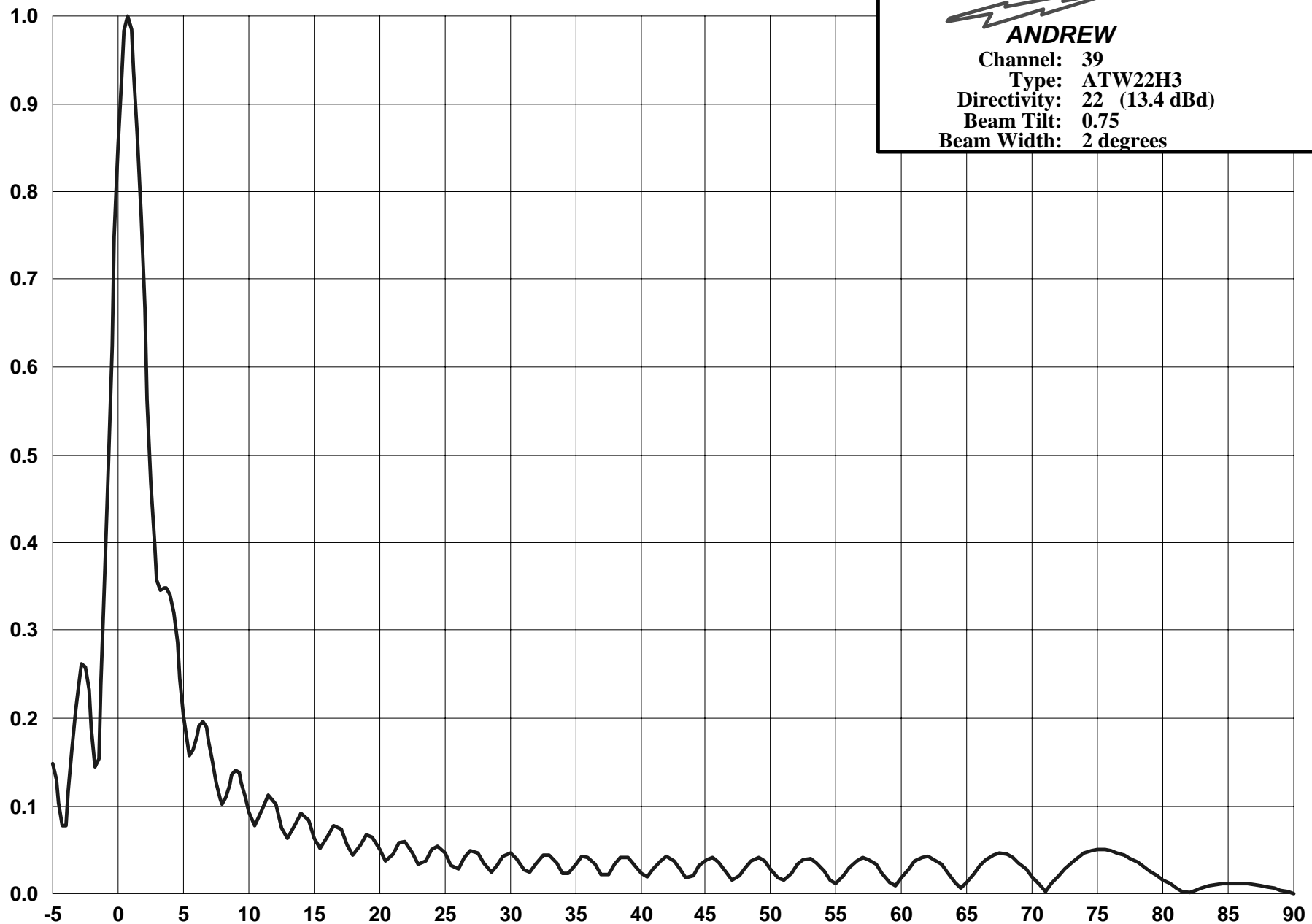
Channel: 39

Type: ATW22H3

Directivity: 22 (13.4 dBd)

Beam Tilt: 0.75

Beam Width: 2 degrees



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

Company:
Site:
Proposal Number:

Author:

Date: 7/5/01



Angle	Amp	dB	Angle	Amp	dB	Angle	Amp	dB	Angle	Amp	dB
-5.00	0.149	-16.54	9.00	0.141	-17.02	36.00	0.041	-27.74	63.50	0.024	-32.40
-4.75	0.130	-17.72	9.25	0.138	-17.20	36.50	0.033	-29.63	64.00	0.013	-37.72
-4.50	0.103	-19.74	9.50	0.127	-17.92	37.00	0.022	-33.15	64.50	0.006	-44.44
-4.25	0.077	-22.27	9.75	0.111	-19.09	37.50	0.022	-33.15	65.00	0.013	-37.72
-4.00	0.078	-22.16	10.00	0.093	-20.63	38.00	0.033	-29.63	65.50	0.023	-32.77
-3.75	0.116	-18.71	10.50	0.078	-22.16	38.50	0.041	-27.74	66.00	0.032	-29.90
-3.50	0.164	-15.70	11.00	0.097	-20.26	39.00	0.041	-27.74	66.50	0.039	-28.18
-3.25	0.210	-13.56	11.50	0.112	-19.02	39.50	0.034	-29.37	67.00	0.044	-27.13
-3.00	0.245	-12.22	12.00	0.102	-19.83	40.00	0.023	-32.77	67.50	0.046	-26.74
-2.75	0.262	-11.63	12.50	0.075	-22.50	40.50	0.019	-34.42	68.00	0.045	-26.94
-2.50	0.258	-11.77	13.00	0.063	-24.01	41.00	0.029	-30.75	68.50	0.041	-27.74
-2.25	0.232	-12.69	13.50	0.079	-22.05	41.50	0.038	-28.40	69.00	0.035	-29.12
-2.00	0.188	-14.52	14.00	0.092	-20.72	42.00	0.042	-27.54	69.50	0.028	-31.06
-1.75	0.145	-16.77	14.50	0.084	-21.51	42.50	0.038	-28.40	70.00	0.019	-34.42
-1.50	0.154	-16.25	15.00	0.063	-24.01	43.00	0.028	-31.06	70.50	0.010	-40.00
-1.25	0.237	-12.51	15.50	0.052	-25.68	43.50	0.018	-34.89	71.00	0.002	-53.98
-1.00	0.358	-8.92	16.00	0.066	-23.61	44.00	0.021	-33.56	71.50	0.011	-39.17
-0.75	0.492	-6.16	16.50	0.078	-22.16	44.50	0.032	-29.90	72.00	0.020	-33.98
-0.50	0.625	-4.08	17.00	0.073	-22.73	45.00	0.039	-28.18	72.50	0.028	-31.06
-0.25	0.748	-2.52	17.50	0.055	-25.19	45.50	0.041	-27.74	73.00	0.036	-28.87
0.00	0.853	-1.38	18.00	0.044	-27.13	46.00	0.036	-28.87	73.50	0.041	-27.74
0.25	0.933	-0.60	18.50	0.055	-25.19	46.50	0.025	-32.04	74.00	0.046	-26.74
0.50	0.983	-0.15	19.00	0.067	-23.48	47.00	0.016	-35.92	74.50	0.049	-26.20
0.75	1.000	0.00	19.50	0.065	-23.74	47.50	0.020	-33.98	75.00	0.050	-26.02
1.00	0.984	-0.14	20.00	0.050	-26.02	48.00	0.030	-30.46	75.50	0.050	-26.02
1.25	0.938	-0.56	20.50	0.037	-28.64	48.50	0.038	-28.40	76.00	0.049	-26.20
1.50	0.865	-1.26	21.00	0.045	-26.94	49.00	0.041	-27.74	76.50	0.047	-26.56
1.75	0.772	-2.25	21.50	0.058	-24.73	49.50	0.037	-28.64	77.00	0.044	-27.13
2.00	0.667	-3.52	22.00	0.059	-24.58	50.00	0.028	-31.06	77.50	0.040	-27.96
2.25	0.562	-5.01	22.50	0.047	-26.56	50.50	0.018	-34.89	78.00	0.036	-28.87
2.50	0.468	-6.60	23.00	0.033	-29.63	51.00	0.015	-36.48	78.50	0.031	-30.17
2.75	0.397	-8.02	23.50	0.037	-28.64	51.50	0.023	-32.77	79.00	0.026	-31.70
3.00	0.358	-8.92	24.00	0.050	-26.02	52.00	0.033	-29.63	79.50	0.021	-33.56
3.25	0.346	-9.22	24.50	0.054	-25.35	52.50	0.039	-28.18	80.00	0.016	-35.92
3.50	0.348	-9.17	25.00	0.047	-26.56	53.00	0.040	-27.96	80.50	0.011	-39.17
3.75	0.349	-9.14	25.50	0.032	-29.90	53.50	0.035	-29.12	81.00	0.007	-43.10
4.00	0.341	-9.34	26.00	0.029	-30.75	54.00	0.026	-31.70	81.50	0.003	-50.46
4.25	0.320	-9.90	26.50	0.041	-27.74	54.50	0.016	-35.92	82.00	0.001	-60.00
4.50	0.286	-10.87	27.00	0.049	-26.20	55.00	0.012	-38.42	82.50	0.004	-47.96
4.75	0.245	-12.22	27.50	0.047	-26.56	55.50	0.020	-33.98	83.00	0.007	-43.10
5.00	0.203	-13.85	28.00	0.035	-29.12	56.00	0.030	-30.46	83.50	0.009	-40.92
5.25	0.171	-15.34	28.50	0.025	-32.04	56.50	0.038	-28.40	84.00	0.010	-40.00
5.50	0.158	-16.03	29.00	0.032	-29.90	57.00	0.041	-27.74	84.50	0.011	-39.17
5.75	0.164	-15.70	29.50	0.043	-27.33	57.50	0.039	-28.18	85.00	0.012	-38.42
6.00	0.179	-14.94	30.00	0.047	-26.56	58.00	0.033	-29.63	85.50	0.012	-38.42
6.25	0.191	-14.38	30.50	0.040	-27.96	58.50	0.023	-32.77	86.00	0.012	-38.42
6.50	0.196	-14.15	31.00	0.027	-31.37	59.00	0.013	-37.72	86.50	0.011	-39.17
6.75	0.190	-14.42	31.50	0.024	-32.40	59.50	0.009	-40.92	87.00	0.010	-40.00
7.00	0.174	-15.19	32.00	0.034	-29.37	60.00	0.018	-34.89	87.50	0.009	-40.92
7.25	0.151	-16.42	32.50	0.044	-27.13	60.50	0.029	-30.75	88.00	0.008	-41.94
7.50	0.126	-17.99	33.00	0.044	-27.13	61.00	0.037	-28.64	88.50	0.006	-44.44
7.75	0.108	-19.33	33.50	0.035	-29.12	61.50	0.041	-27.74	89.00	0.004	-47.96
8.00	0.102	-19.83	34.00	0.023	-32.77	62.00	0.042	-27.54	89.50	0.002	-53.98
8.25	0.110	-19.17	34.50	0.023	-32.77	62.50	0.039	-28.18	90.00	0.000	---
8.50	0.124	-18.13	35.00	0.034	-29.37	63.00	0.033	-29.63			
8.75	0.135	-17.39	35.50	0.042	-27.54	63.50	0.024	-32.40			

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

Company:
Site:
Proposal Number:

Date: 7/5/01
Author: