

TECHNICAL STATEMENT  
TRANSMITTING ANTENNA INFORMATION  
DIGITAL TELEVISION STATION WPMI-DT  
MOBILE, ALABAMA  
CH 47 1000 KW (MAX-DA) 558 M

Technical Statement

This Technical Statement was prepared in support of the application for license for WPMI-DT on Channel 47 assigned to Mobile, Alabama. WPMI-DT is authorized in its construction permit to employ an Andrew ATW25H3-HTP3-47S directional antenna.<sup>1</sup> However, an Andrew ATW22H3-HTP3-47S was actually installed. The only difference between the antennas is the vertical plane gain; there is no difference in the horizontal plane or the specified electrical beamtilt of 0.75 degrees. The attached appendix provides the installed vertical plane information.

Charles A. Cooper

November 26, 2002

du Treil, Lundin & Rackley, Inc.  
201 Fletcher Avenue  
Sarasota, Florida 34237  
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<sup>1</sup> See FCC File Number: BMPCDT-20010213ABQ.

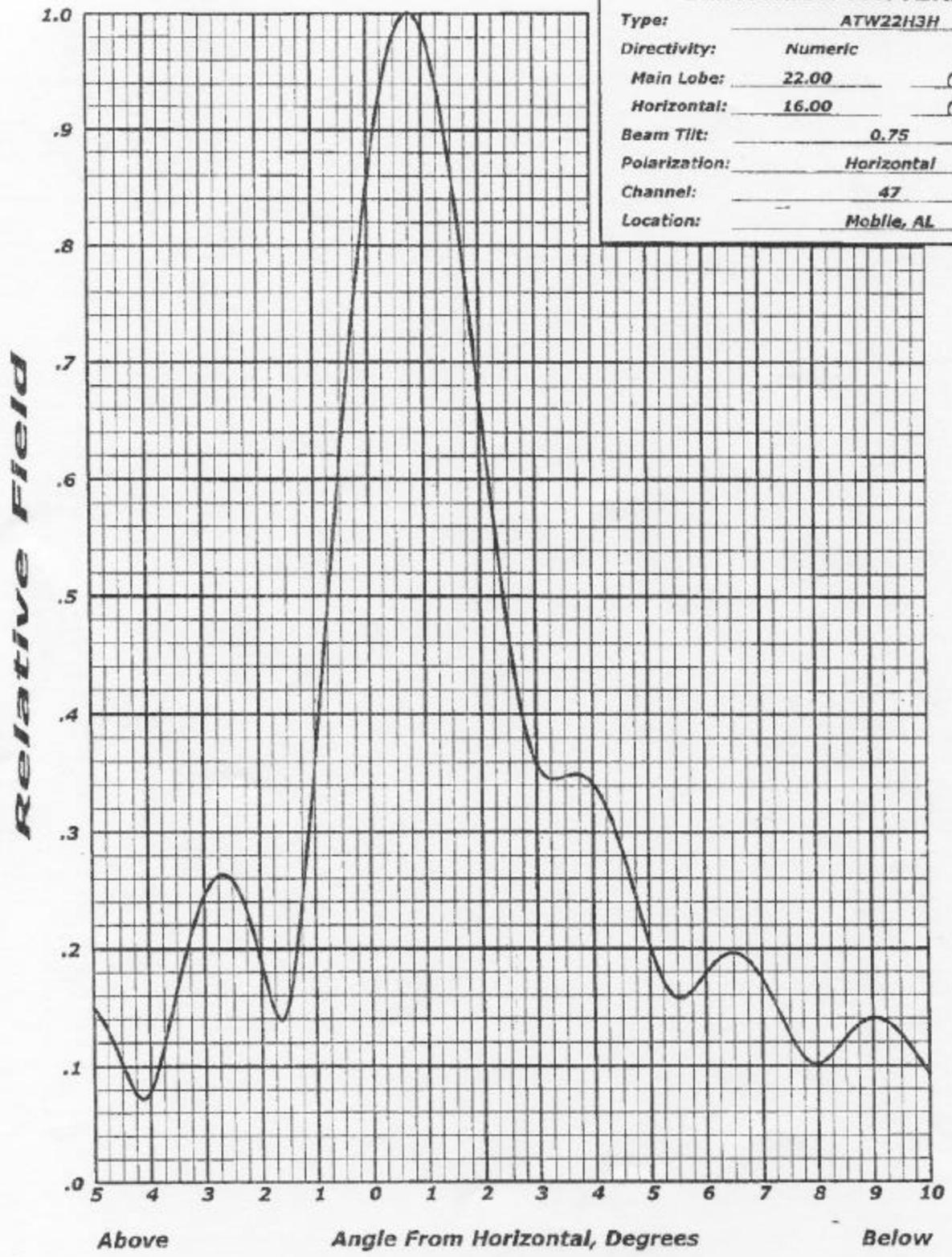
# APPENDIX

## TRANSMITTING ANTENNA MANUFACTURER SPECIFICATIONS



# ANDREW ELEVATION PATTERN

Type:	ATW22H3H	
Directivity:	Numeric	dBd
Main Lobe:	22.00	(13.42)
Horizontal:	16.00	(12.04)
Beam Tilt:	0.75	
Polarization:	Horizontal	
Channel:	47	
Location:	Mobile, AL	



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

AG042699-460 Rev. E -8-

**TABULATED DATA FOR ELEVATION PATTERN  
TYPE ATW22H3H**

ANGLE FIELD dB -5° TO 10° IN 0.25° INCREMENTS			ANGLE FIELD dB 10° TO 90° IN 0.5° INCREMENTS			ANGLE FIELD dB			ANGLE FIELD dB		
-5.00	0.1485	-16.57	9.00	0.1405	-17.05	35.00	0.0413	-27.69	64.00	0.0133	-37.49
-4.75	0.1303	-17.70	9.25	0.1375	-17.23	36.50	0.0326	-29.75	64.50	0.0057	-44.88
-4.50	0.1027	-19.77	9.50	0.1268	-17.94	37.00	0.0216	-33.30	65.00	0.0129	-37.76
-4.25	0.0766	-22.32	9.75	0.1106	-19.12	37.50	0.0222	-33.07	65.50	0.0233	-32.66
-4.00	0.0784	-22.11	10.00	0.0930	-20.63	38.00	0.0331	-29.61	66.00	0.0324	-29.60
-3.75	0.1155	-18.75	10.50	0.0782	-22.14	38.50	0.0411	-27.73	66.50	0.0394	-28.09
-3.50	0.1844	-15.68	11.00	0.0972	-20.25	39.00	0.0414	-27.65	67.00	0.0439	-27.16
-3.25	0.2103	-13.54	11.50	0.1116	-19.05	39.50	0.0340	-29.36	67.50	0.0456	-26.82
-3.00	0.2447	-12.23	12.00	0.1016	-19.86	40.00	0.0229	-32.79	68.00	0.0446	-27.01
-2.75	0.2619	-11.64	12.50	0.0753	-22.47	40.50	0.0194	-34.22	68.50	0.0411	-27.72
-2.50	0.2581	-11.76	13.00	0.0632	-23.98	41.00	0.0288	-30.80	69.00	0.0354	-29.03
-2.25	0.2322	-12.68	13.50	0.0794	-22.00	41.50	0.0384	-28.32	69.50	0.0279	-31.10
-2.00	0.1883	-14.50	14.00	0.0919	-20.74	42.00	0.0418	-27.58	70.00	0.0190	-34.41
-1.75	0.1451	-16.76	14.50	0.0843	-21.49	42.50	0.0377	-28.48	70.50	0.0095	-40.44
-1.50	0.1537	-16.26	15.00	0.0625	-24.08	43.00	0.0277	-31.15	71.00	0.0024	-52.39
-1.25	0.2370	-12.51	15.50	0.0520	-25.67	43.50	0.0181	-34.87	71.50	0.0108	-39.30
-1.00	0.3578	-8.93	16.00	0.0663	-23.57	44.00	0.0209	-33.59	72.00	0.0200	-33.97
-0.75	0.4916	-6.17	16.50	0.0783	-22.12	44.50	0.0315	-30.02	72.50	0.0284	-30.95
-0.50	0.6251	-4.08	17.00	0.0734	-22.69	45.00	0.0393	-28.10	73.00	0.0355	-28.98
-0.25	0.7483	-2.52	17.50	0.0551	-25.17	45.50	0.0408	-27.79	73.50	0.0414	-27.66
0.00	0.8532	-1.38	18.00	0.0440	-27.14	46.00	0.0355	-28.99	74.00	0.0458	-26.78
0.25	0.9329	-0.60	18.50	0.0553	-25.14	46.50	0.0254	-31.90	74.50	0.0488	-26.24
0.50	0.9827	-0.15	19.00	0.0673	-23.44	47.00	0.0164	-35.72	75.00	0.0502	-25.98
0.75	1.0000	0.00	19.50	0.0651	-23.73	47.50	0.0198	-34.08	75.50	0.0503	-25.96
1.00	0.9843	-0.14	20.00	0.0498	-26.05	48.00	0.0302	-30.39	76.00	0.0492	-26.16
1.25	0.9377	-0.56	20.50	0.0371	-28.61	48.50	0.0383	-28.35	76.50	0.0470	-26.56
1.50	0.8645	-1.26	21.00	0.0452	-26.89	49.00	0.0407	-27.80	77.00	0.0438	-27.16
1.75	0.7715	-2.25	21.50	0.0578	-24.76	49.50	0.0370	-28.62	77.50	0.0400	-27.96
2.00	0.6671	-3.52	22.00	0.0589	-24.60	50.00	0.0283	-30.96	78.00	0.0356	-28.98
2.25	0.5619	-5.01	22.50	0.0471	-26.54	50.50	0.0177	-35.03	78.50	0.0308	-30.24
2.50	0.4680	-6.60	23.00	0.0331	-29.61	51.00	0.0146	-36.70	79.00	0.0258	-31.77
2.75	0.3974	-8.02	23.50	0.0366	-28.73	51.50	0.0234	-32.60	79.50	0.0208	-33.65
3.00	0.3578	-8.93	24.00	0.0495	-26.10	52.00	0.0332	-29.58	80.00	0.0158	-35.01
3.25	0.3456	-9.23	24.50	0.0542	-25.32	52.50	0.0392	-28.14	80.50	0.0111	-39.00
3.50	0.3475	-9.18	25.00	0.0465	-26.65	53.00	0.0399	-27.99	81.00	0.0067	-43.46
3.75	0.3491	-9.14	25.50	0.0322	-29.83	53.50	0.0352	-29.06	81.50	0.0027	-51.28
4.00	0.3410	-9.35	26.00	0.0290	-30.74	54.00	0.0263	-31.60	82.00	0.0011	-58.88
4.25	0.3197	-9.90	26.50	0.0410	-27.75	54.50	0.0156	-36.14	82.50	0.0041	-47.75
4.50	0.2863	-10.86	27.00	0.0494	-26.12	55.00	0.0115	-38.76	83.00	0.0067	-43.50
4.75	0.2450	-12.22	27.50	0.0468	-26.59	55.50	0.0203	-33.86	83.50	0.0088	-41.15
5.00	0.2032	-13.84	28.00	0.0348	-29.17	56.00	0.0304	-30.33	84.00	0.0103	-39.71
5.25	0.1710	-15.34	28.50	0.0246	-32.18	56.50	0.0376	-28.49	84.50	0.0114	-38.86
5.50	0.1577	-16.05	29.00	0.0318	-29.96	57.00	0.0405	-27.84	85.00	0.0120	-38.41
5.75	0.1636	-15.73	29.50	0.0434	-27.25	57.50	0.0388	-28.23	85.50	0.0122	-38.31
6.00	0.1785	-14.97	30.00	0.0469	-26.58	58.00	0.0327	-29.71	86.00	0.0119	-38.50
6.25	0.1914	-14.36	30.50	0.0400	-27.96	58.50	0.0233	-32.65	86.50	0.0112	-38.98
6.50	0.1961	-14.15	31.00	0.0273	-31.27	59.00	0.0127	-37.95	87.00	0.0103	-39.77
6.75	0.1901	-14.42	31.50	0.0235	-32.59	59.50	0.0091	-40.82	87.50	0.0090	-40.91
7.00	0.1741	-15.18	32.00	0.0342	-29.31	60.00	0.0184	-34.71	88.00	0.0075	-42.50
7.25	0.1511	-16.41	32.50	0.0435	-27.23	60.50	0.0286	-30.88	88.50	0.0058	-44.74
7.50	0.1264	-17.97	33.00	0.0439	-27.16	61.00	0.0365	-28.76	89.00	0.0039	-48.08
7.75	0.1076	-19.37	33.50	0.0352	-29.07	61.50	0.0410	-27.75	89.50	0.0020	-53.99
8.00	0.1021	-19.82	34.00	0.0234	-32.61	62.00	0.0418	-27.59	90.00	0.0009	-59.99
8.25	0.1101	-19.16	34.50	0.0232	-32.70	62.50	0.0388	-28.22			
8.50	0.1238	-18.14	35.00	0.0341	-29.33	63.00	0.0325	-29.75			
8.75	0.1354	-17.37	35.50	0.0419	-27.55	63.50	0.0237	-32.51			

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