


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 Joseph L. Snelson, Jr.		Relationship to Applicant (e.g., Consulting Engineer) Employee	
Signature 		Date 3/12/01	
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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).

Engineering Statement

This Engineering Statement supports an application to modify a construction permit filed by Meredith Corporation, licensee of WOGX-DT, Ocala, Florida.

Meredith was assigned channel 31 by the Commission as its digital television channel. Meredith currently holds a construction permit (BPCDT-19991013ABF) to build its digital television station. The construction permit authorizes WOGX-DT to transmit at a power level of 1000 kW.

Meredith is requesting to modify its construction permit for WOGX-DT to operate with a different directional antenna and at a lower power level of 500 kW. Attached to this statement is a tabulation comparing the relative fields of the WOGX-DT authorized facility to that which is being proposed. Also attached is a map showing the calculated coverage contours (41dbu [F 50, 90]) for authorized and proposed operations. In all directions the relative field values for the proposed WOGX-DT operations are below that which was authorized in the construction permit.

Since the values of the proposed WOGX-DT operations do not exceed that which was authorized, no further interference calculations were conducted. The proposed WOGX-DT facility complies with the FCC rules and would be considered a minor modification.



Joseph L. Snelson, Jr., C.P.B.E.
VP, Director of Engineering
Broadcasting Group, Meredith Corporation

DTV Channel		Authorized DTV Pwr (kw)	Authorized DTV Pwr (dbk)	WOGX-DT		RCAMSL (m)	Authorized DTV Pwr (kw)	Authorized DTV Pwr (dbk)	Proposed DTV Pwr (kw)	Proposed DTV Pwr (dbk)	
		1000.00	30.00			288.00	1000.00	30.00	500.00	26.99	

Radial TN)	deg	Authorized Relative Fld.	Auth. ERP (kw)	Auth. ERP (dbk)	Avg Terrain AMSL(m)	RC HAAT(m)	Depression Angle (deg)	Prop. Vert. Relative Fld.	Prop. Horiz. Relative Fld.	Prop. ERP (kw)	Prop. ERP (dbk)	Prop. Pwr. Status
0		0.987	974.17	29.89	30.60	257.40	0.44	0.998	0.778	302.80	24.81	OK
10		1.000	1000.00	30.00	34.90	253.10	0.44	0.998	0.873	380.74	25.81	OK
20		0.988	976.14	29.90	38.10	249.90	0.44	0.998	0.951	452.30	26.55	OK
30		0.963	927.37	29.67	40.30	247.70	0.44	0.998	0.993	492.68	26.93	OK
40		0.936	876.10	29.43	36.70	251.30	0.44	0.998	0.998	498.27	26.97	OK
50		0.917	840.89	29.25	33.00	255.00	0.44	0.998	0.976	476.70	26.78	OK
60		0.905	819.03	29.13	30.00	258.00	0.44	0.998	0.944	445.83	26.49	OK
70		0.900	810.00	29.08	31.40	256.60	0.44	0.998	0.918	421.29	26.25	OK
80		0.899	808.20	29.08	29.70	258.30	0.45	0.999	0.901	406.27	26.09	OK
90		0.900	810.00	29.08	34.30	253.70	0.44	0.998	0.895	400.57	26.03	OK
100		0.905	819.03	29.13	37.30	250.70	0.44	0.998	0.908	412.58	26.16	OK
110		0.917	840.89	29.25	41.50	246.50	0.43	0.998	0.921	424.47	26.28	OK
120		0.936	876.10	29.43	38.10	249.90	0.44	0.998	0.942	443.95	26.47	OK
130		0.963	927.37	29.67	36.80	251.20	0.44	0.998	0.974	474.16	26.76	OK
140		0.988	976.14	29.90	31.20	256.80	0.44	0.998	0.995	495.41	26.95	OK
150		1.000	1000.00	30.00	36.70	251.30	0.44	0.998	0.985	485.19	26.86	OK
160		0.987	974.17	29.89	28.30	259.70	0.45	0.999	0.940	441.98	26.45	OK
170		0.940	883.60	29.46	28.30	259.70	0.45	0.999	0.865	374.35	25.73	OK
180		0.854	729.32	28.63	24.50	263.50	0.45	0.999	0.775	300.45	24.78	OK
190		0.733	537.29	27.30	21.90	266.10	0.45	0.999	0.684	234.03	23.69	OK
200		0.588	345.74	25.39	22.10	265.90	0.45	0.999	0.593	175.65	22.45	OK
210		0.437	190.97	22.81	19.40	268.60	0.45	0.999	0.497	123.65	20.92	OK
220		0.302	91.20	19.60	19.10	268.90	0.45	0.999	0.392	76.89	18.86	OK
230		0.218	47.52	16.77	18.80	269.20	0.45	0.999	0.280	39.25	15.94	OK
240		0.207	42.85	16.32	16.70	271.30	0.46	0.999	0.197	19.43	12.89	OK
250		0.232	53.82	17.31	16.50	271.50	0.46	0.999	0.184	16.89	12.28	OK
260		0.245	60.03	17.78	17.20	270.80	0.46	0.999	0.226	25.55	14.07	OK
270		0.232	53.82	17.31	20.40	267.60	0.45	0.999	0.257	32.91	15.17	OK
280		0.207	42.85	16.32	21.10	266.90	0.45	0.999	0.227	25.77	14.11	OK
290		0.218	47.52	16.77	21.70	266.30	0.45	0.999	0.183	16.77	12.24	OK
300		0.302	91.20	19.60	23.60	264.40	0.45	0.999	0.194	18.90	12.76	OK
310		0.437	190.97	22.81	24.60	263.40	0.45	0.999	0.278	38.59	15.86	OK
320		0.588	345.74	25.39	23.50	264.50	0.45	0.999	0.393	77.03	18.87	OK
330		0.733	537.29	27.30	25.30	262.70	0.45	0.999	0.502	125.82	21.00	OK
340		0.854	729.32	28.63	26.30	261.70	0.45	0.999	0.599	179.45	22.54	OK
350		0.940	883.60	29.46	24.50	263.50	0.45	0.999	0.688	236.92	23.75	OK

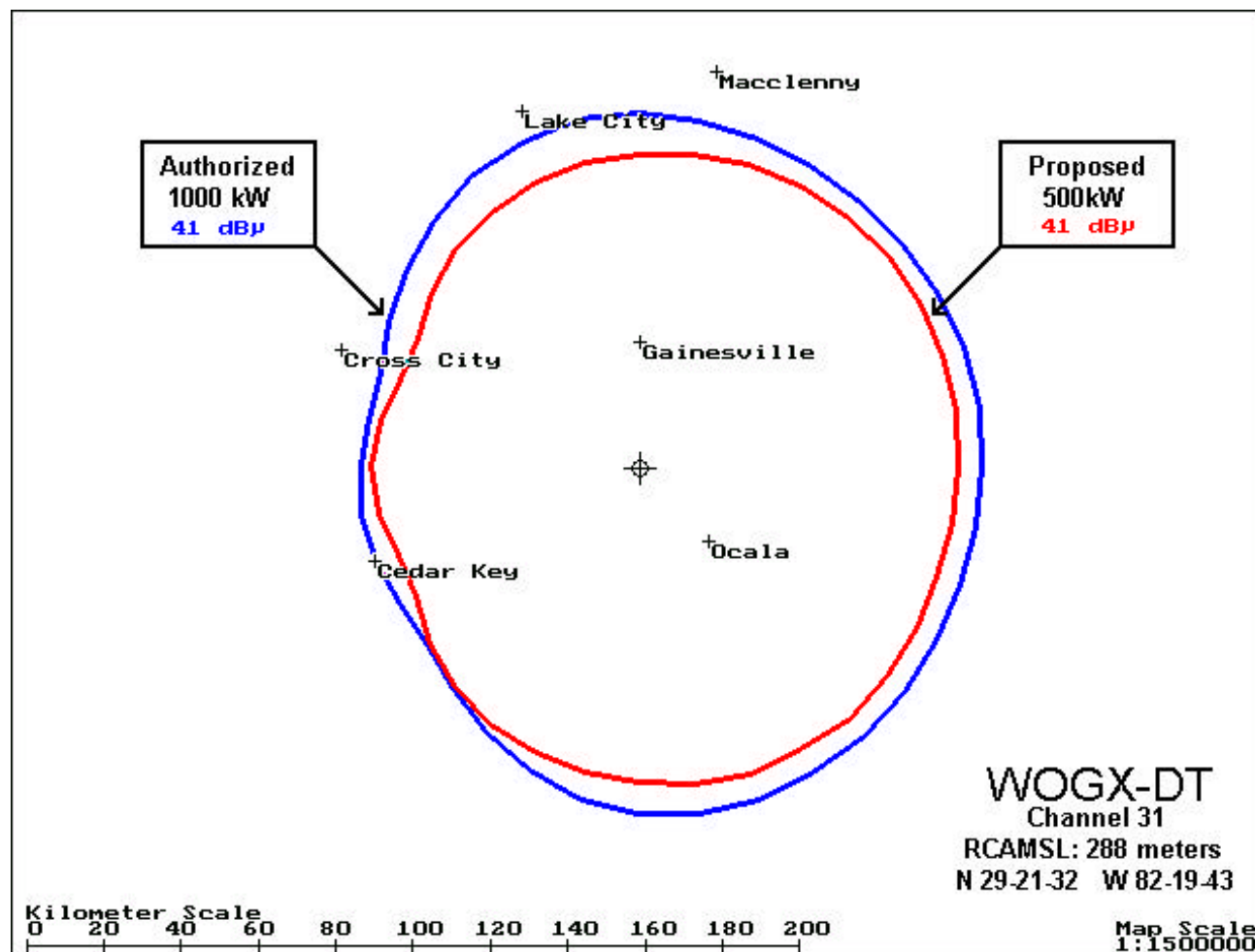


EXHIBIT 1
APPLICATION TO MODIFY DTV CONSTRUCTION PERMIT
MEREDITH CORPORATION
STATION WOGX-DT
OCALA, FLORIDA
CH 31 500KW-DA 244m AGL

Proposed Dielectric Antenna Data
Model TFU-24DSB-M(C)

- Azimuth Pattern
- Tabulation of Azimuth Pattern
- Elevation Pattern (-10 to 90 degrees)
- Elevation Pattern (-3 to 11 degrees)
- Tabulation of Elevation Pattern

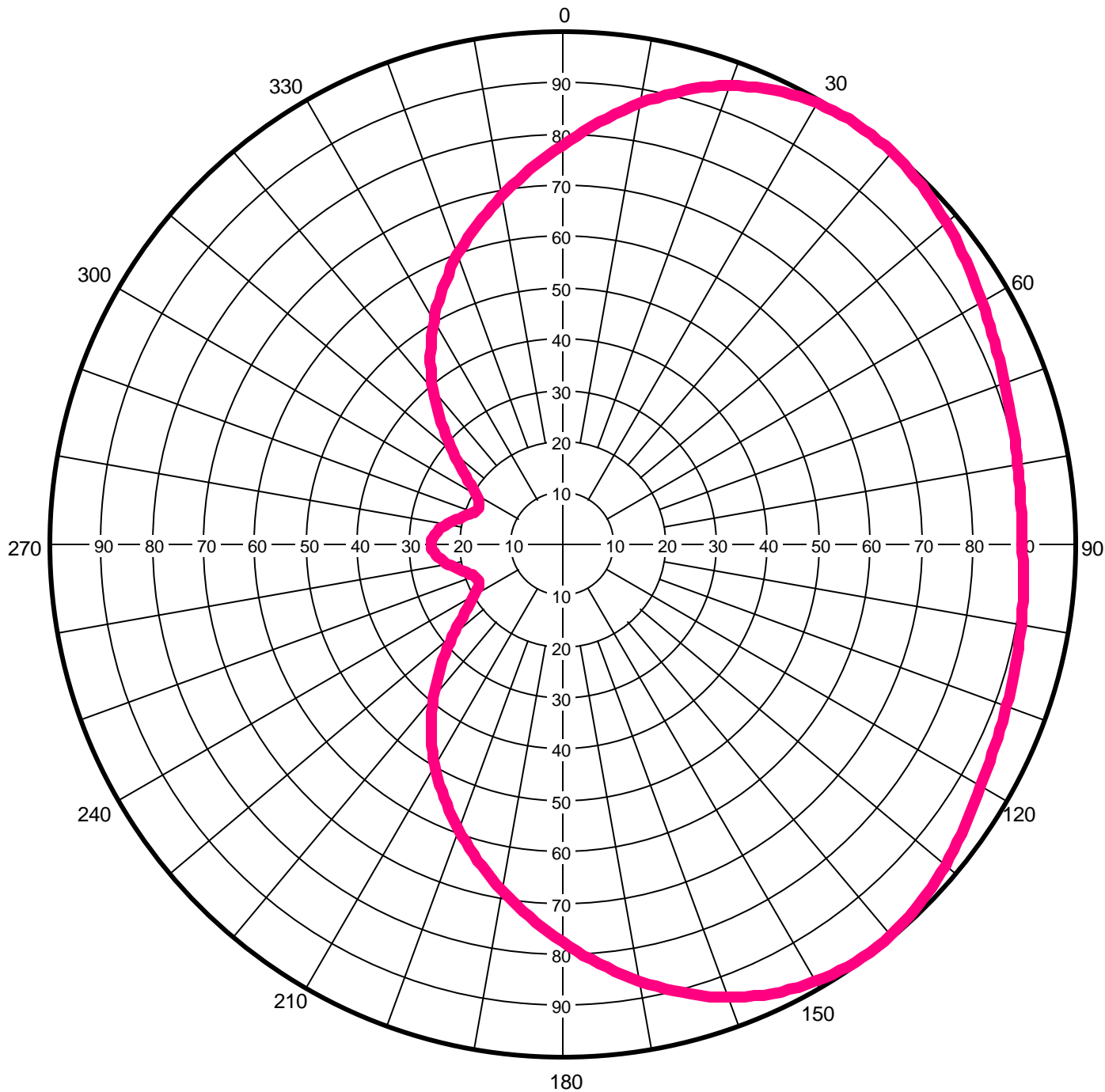
AZIMUTH PATTERN

RMS Gain at Main Lobe
Calculated / Measured

1.90 (2.79 dB)
Calculated

Frequency
Drawing #

572-578 MHz
DSB-M



TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **DSB-M**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.778	45	0.990	90	0.895	135	0.988	180	0.775	225	0.335	270	0.257	315	0.334
1	0.788	46	0.987	91	0.897	136	0.990	181	0.766	226	0.324	271	0.256	316	0.346
2	0.797	47	0.985	92	0.898	137	0.992	182	0.757	227	0.313	272	0.255	317	0.357
3	0.807	48	0.982	93	0.900	138	0.993	183	0.748	228	0.302	273	0.253	318	0.369
4	0.816	49	0.979	94	0.901	139	0.994	184	0.739	229	0.291	274	0.251	319	0.381
5	0.826	50	0.976	95	0.902	140	0.995	185	0.730	230	0.280	275	0.248	320	0.393
6	0.835	51	0.973	96	0.904	141	0.996	186	0.720	231	0.270	276	0.245	321	0.404
7	0.845	52	0.970	97	0.905	142	0.996	187	0.711	232	0.260	277	0.241	322	0.415
8	0.854	53	0.967	98	0.906	143	0.996	188	0.702	233	0.250	278	0.236	323	0.427
9	0.863	54	0.964	99	0.907	144	0.996	189	0.693	234	0.241	279	0.232	324	0.438
10	0.873	55	0.960	100	0.908	145	0.995	190	0.684	235	0.232	280	0.227	325	0.449
11	0.882	56	0.957	101	0.910	146	0.993	191	0.675	236	0.224	281	0.222	326	0.460
12	0.890	57	0.954	102	0.911	147	0.992	192	0.666	237	0.216	282	0.217	327	0.470
13	0.899	58	0.951	103	0.912	148	0.990	193	0.657	238	0.209	283	0.212	328	0.481
14	0.907	59	0.947	104	0.913	149	0.988	194	0.648	239	0.203	284	0.207	329	0.491
15	0.916	60	0.944	105	0.914	150	0.985	195	0.639	240	0.197	285	0.202	330	0.502
16	0.923	61	0.941	106	0.916	151	0.982	196	0.630	241	0.192	286	0.198	331	0.512
17	0.931	62	0.938	107	0.917	152	0.979	197	0.620	242	0.188	287	0.194	332	0.522
18	0.938	63	0.935	108	0.918	153	0.975	198	0.611	243	0.184	288	0.190	333	0.532
19	0.945	64	0.933	109	0.920	154	0.971	199	0.602	244	0.182	289	0.186	334	0.542
20	0.951	65	0.930	110	0.921	155	0.967	200	0.593	245	0.180	290	0.183	335	0.552
21	0.957	66	0.927	111	0.923	156	0.962	201	0.583	246	0.179	291	0.181	336	0.561
22	0.963	67	0.925	112	0.925	157	0.957	202	0.574	247	0.179	292	0.179	337	0.571
23	0.968	68	0.922	113	0.926	158	0.952	203	0.565	248	0.180	293	0.178	338	0.580
24	0.972	69	0.920	114	0.928	159	0.946	204	0.555	249	0.182	294	0.178	339	0.590
25	0.977	70	0.918	115	0.930	160	0.940	205	0.546	250	0.184	295	0.178	340	0.599
26	0.981	71	0.916	116	0.932	161	0.934	206	0.536	251	0.187	296	0.180	341	0.608
27	0.984	72	0.914	117	0.935	162	0.927	207	0.527	252	0.190	297	0.182	342	0.617
28	0.987	73	0.912	118	0.937	163	0.920	208	0.517	253	0.194	298	0.185	343	0.626
29	0.990	74	0.910	119	0.940	164	0.913	209	0.507	254	0.198	299	0.189	344	0.635
30	0.993	75	0.908	120	0.942	165	0.906	210	0.497	255	0.202	300	0.194	345	0.644
31	0.995	76	0.907	121	0.945	166	0.898	211	0.487	256	0.207	301	0.200	346	0.653
32	0.996	77	0.905	122	0.948	167	0.890	212	0.477	257	0.211	302	0.206	347	0.662
33	0.998	78	0.904	123	0.951	168	0.882	213	0.467	258	0.216	303	0.214	348	0.671
34	0.999	79	0.903	124	0.954	169	0.874	214	0.457	259	0.221	304	0.221	349	0.680
35	1.000	80	0.901	125	0.958	170	0.865	215	0.446	260	0.226	305	0.229	350	0.688
36	1.000	81	0.900	126	0.961	171	0.857	216	0.436	261	0.231	306	0.238	351	0.697
37	1.000	82	0.899	127	0.964	172	0.848	217	0.425	262	0.235	307	0.248	352	0.706
38	1.000	83	0.899	128	0.967	173	0.839	218	0.414	263	0.240	308	0.257	353	0.715
39	0.999	84	0.898	129	0.971	174	0.830	219	0.403	264	0.244	309	0.267	354	0.724
40	0.998	85	0.897	130	0.974	175	0.821	220	0.392	265	0.247	310	0.278	355	0.733
41	0.997	86	0.897	131	0.977	176	0.812	221	0.381	266	0.250	311	0.289	356	0.742
42	0.996	87	0.896	132	0.980	177	0.803	222	0.370	267	0.253	312	0.300	357	0.751
43	0.994	88	0.896	133	0.983	178	0.794	223	0.358	268	0.255	313	0.311	358	0.760
44	0.992	89	0.896	134	0.985	179	0.784	224	0.347	269	0.256	314	0.322	359	0.769

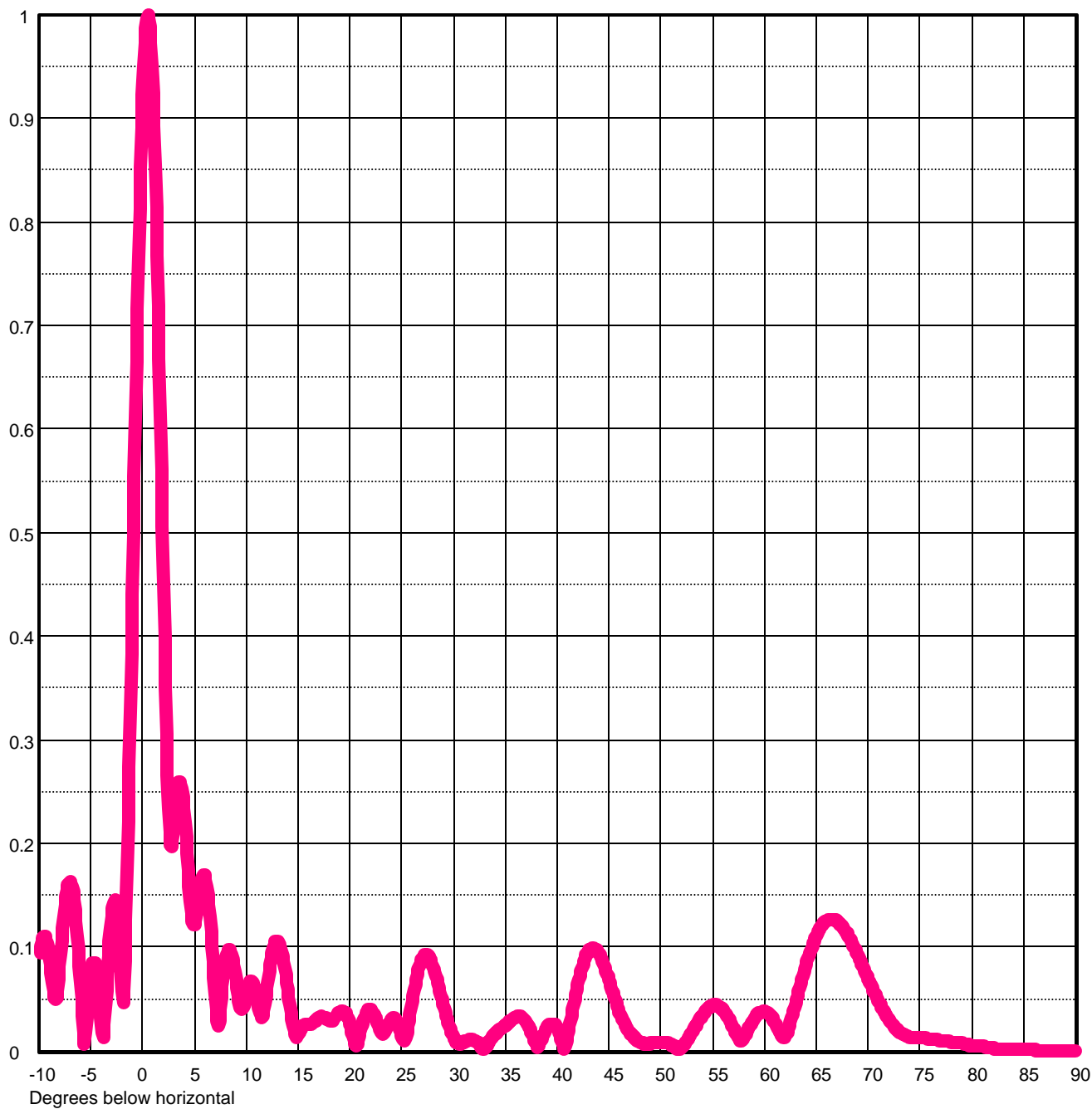
ELEVATION PATTERN

RMS Gain at Main Lobe
RMS Gain at Horizontal
Calculated / Measured

24.0 (13.80 dB)
20.4 (13.10 dB)
Calculated

Beam Tilt
Frequency
Drawing #

0.50 Degrees
572-578 MHz
24b24005-90



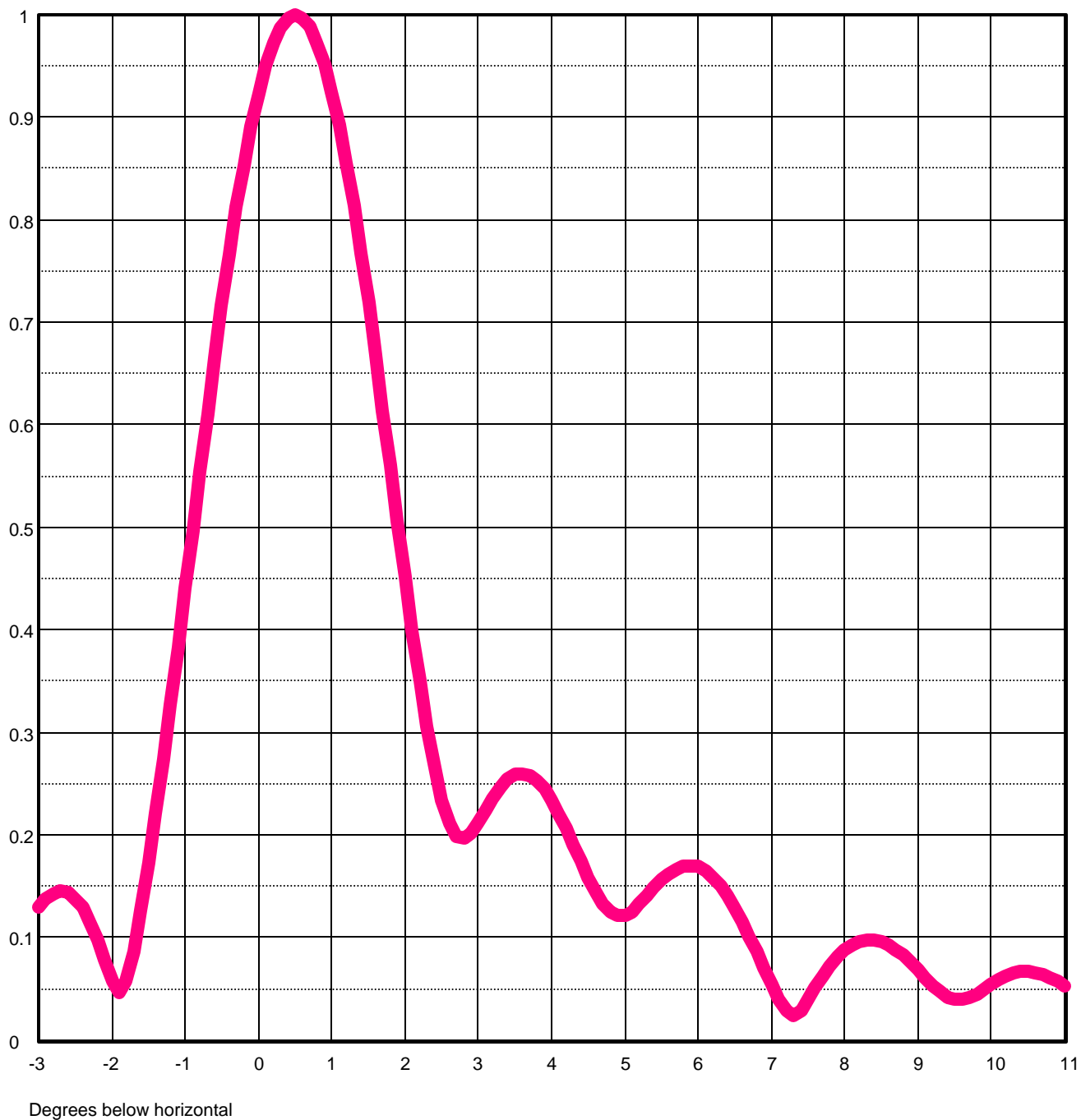
ELEVATION PATTERN

RMS Gain at Main Lobe
RMS Gain at Horizontal
Calculated / Measured

24.0 (13.80 dB)
20.4 (13.10 dB)
Calculated

Beam Tilt
Frequency
Drawing #

0.50 Degrees
572-578 MHz
24b24005



TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **24b24005-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.088	2.4	0.265	10.6	0.066	30.5	0.006	51.0	0.006	71.5	0.038
-9.5	0.110	2.6	0.211	10.8	0.061	31.0	0.008	51.5	0.003	72.0	0.030
-9.0	0.091	2.8	0.197	11.0	0.052	31.5	0.011	52.0	0.003	72.5	0.023
-8.5	0.051	3.0	0.212	11.5	0.032	32.0	0.010	52.5	0.009	73.0	0.018
-8.0	0.081	3.2	0.236	12.0	0.060	32.5	0.006	53.0	0.017	73.5	0.015
-7.5	0.140	3.4	0.254	12.5	0.094	33.0	0.002	53.5	0.026	74.0	0.013
-7.0	0.163	3.6	0.260	13.0	0.106	33.5	0.009	54.0	0.034	74.5	0.012
-6.5	0.136	3.8	0.253	13.5	0.091	34.0	0.016	54.5	0.040	75.0	0.012
-6.0	0.066	4.0	0.234	14.0	0.059	34.5	0.021	55.0	0.043	75.5	0.012
-5.5	0.018	4.2	0.207	14.5	0.024	35.0	0.024	55.5	0.043	76.0	0.011
-5.0	0.075	4.4	0.175	15.0	0.015	35.5	0.029	56.0	0.039	76.5	0.011
-4.5	0.080	4.6	0.144	15.5	0.024	36.0	0.032	56.5	0.032	77.0	0.010
-4.0	0.031	4.8	0.124	16.0	0.025	36.5	0.033	57.0	0.022	77.5	0.009
-3.5	0.058	5.0	0.121	16.5	0.027	37.0	0.028	57.5	0.012	78.0	0.008
-3.0	0.130	5.2	0.132	17.0	0.032	37.5	0.018	58.0	0.012	78.5	0.008
-2.8	0.143	5.4	0.148	17.5	0.032	38.0	0.004	58.5	0.022	79.0	0.007
-2.6	0.144	5.6	0.162	18.0	0.029	38.5	0.011	59.0	0.031	79.5	0.006
-2.4	0.129	5.8	0.170	18.5	0.031	39.0	0.022	59.5	0.036	80.0	0.005
-2.2	0.098	6.0	0.169	19.0	0.037	39.5	0.026	60.0	0.038	80.5	0.004
-2.0	0.058	6.2	0.159	19.5	0.037	40.0	0.022	60.5	0.035	81.0	0.004
-1.8	0.057	6.4	0.140	20.0	0.026	40.5	0.008	61.0	0.027	81.5	0.003
-1.6	0.127	6.6	0.115	20.5	0.006	41.0	0.014	61.5	0.017	82.0	0.003
-1.4	0.221	6.8	0.086	21.0	0.018	41.5	0.039	62.0	0.014	82.5	0.002
-1.2	0.327	7.0	0.054	21.5	0.034	42.0	0.063	62.5	0.027	83.0	0.002
-1.0	0.440	7.2	0.028	22.0	0.039	42.5	0.083	63.0	0.046	83.5	0.002
-0.8	0.554	7.4	0.029	22.5	0.031	43.0	0.095	63.5	0.065	84.0	0.001
-0.6	0.664	7.6	0.051	23.0	0.017	43.5	0.099	64.0	0.083	84.5	0.001
-0.4	0.766	7.8	0.072	23.5	0.020	44.0	0.094	64.5	0.098	85.0	0.001
-0.2	0.853	8.0	0.088	24.0	0.030	44.5	0.083	65.0	0.111	85.5	0.001
0.0	0.923	8.2	0.096	24.5	0.029	45.0	0.068	65.5	0.120	86.0	0.001
0.2	0.972	8.4	0.098	25.0	0.014	45.5	0.052	66.0	0.125	86.5	0.000
0.4	0.997	8.6	0.093	25.5	0.018	46.0	0.037	66.5	0.127	87.0	0.000
0.6	0.997	8.8	0.083	26.0	0.048	46.5	0.026	67.0	0.125	87.5	0.000
0.8	0.972	9.0	0.069	26.5	0.074	47.0	0.018	67.5	0.120	88.0	0.000
1.0	0.924	9.2	0.053	27.0	0.090	47.5	0.012	68.0	0.113	88.5	0.000
1.2	0.855	9.4	0.042	27.5	0.092	48.0	0.008	68.5	0.103	89.0	0.000
1.4	0.768	9.6	0.039	28.0	0.082	48.5	0.006	69.0	0.092	89.5	0.000
1.6	0.668	9.8	0.045	28.5	0.065	49.0	0.007	69.5	0.081	90.0	0.000
1.8	0.560	10.0	0.054	29.0	0.045	49.5	0.008	70.0	0.069		
2.0	0.452	10.2	0.062	29.5	0.027	50.0	0.008	70.5	0.058		
2.2	0.350	10.4	0.067	30.0	0.013	50.5	0.008	71.0	0.048		

EXHIBIT 2
APPLICATION TO MODIFY DTV CONSTRUCTION PERMIT
MEREDITH CORPORATION
STATION WOGX-DT
OCALA, FLORIDA
CH 31 500KW-DA 244m AGL

The proposed WOGX-DT facility was 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 244 meters above ground level. A power level of 500 kW ERP was utilized in calculations. A conservative relative field value of 0.2 is assumed for the antenna's downward radiation (see antenna vertical plane patterns attached to application). The calculated power density at a point 2 meters (6.6 feet) above ground level is 0.011 mW/cm² which is less than 1% of the FCC's recommended limit of 1.92 mW/cm² for a "controlled" environment and 3% of 0.38 mW/cm² for an "uncontrolled" environment.

The total contribution of all existing and the proposed facilities was also evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. Total contribution was calculated to be 8% of the allowable exposure limit for the general public.

Access to the transmitting site will be restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, 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 "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down. The proposed DTV operation appears to be otherwise categorically excluded from environmental processing.