

TECHNICAL EXHIBIT
CONCERNING HUMAN EXPOSURE TO RF ELECTROMAGNETIC ENERGY
PREPARED FOR
STATION WCLF(DT)
CLEARWATER, FLORIDA
CH 21 1000 KW (MAX-DA) 409 M

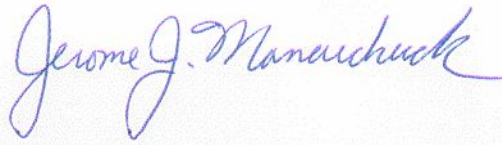
Technical Statement

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 409 meters above ground level. The maximum DTV ERP is 1000 kW (horizontal polarization). A conservative vertical plane relative field value of 0.25 was presumed for the antenna's downward radiation (see Figure 3). The calculated power density at a point 2 meters above ground level is 0.013 mW/cm². This is 3.8% of the FCC's recommended limit of 0.34 mW/cm² for channel 21 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 RFR warning signs. 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, wearing "accepted" RFR protective clothing and/or RFR exposure.

Finally, it is noted that this technical exhibit only addresses the potential for radio frequency electromagnetic field exposure. All other aspects of the

environmental processing analysis will be or already has been provided to the FCC by the tower owner as part of the tower registration process.

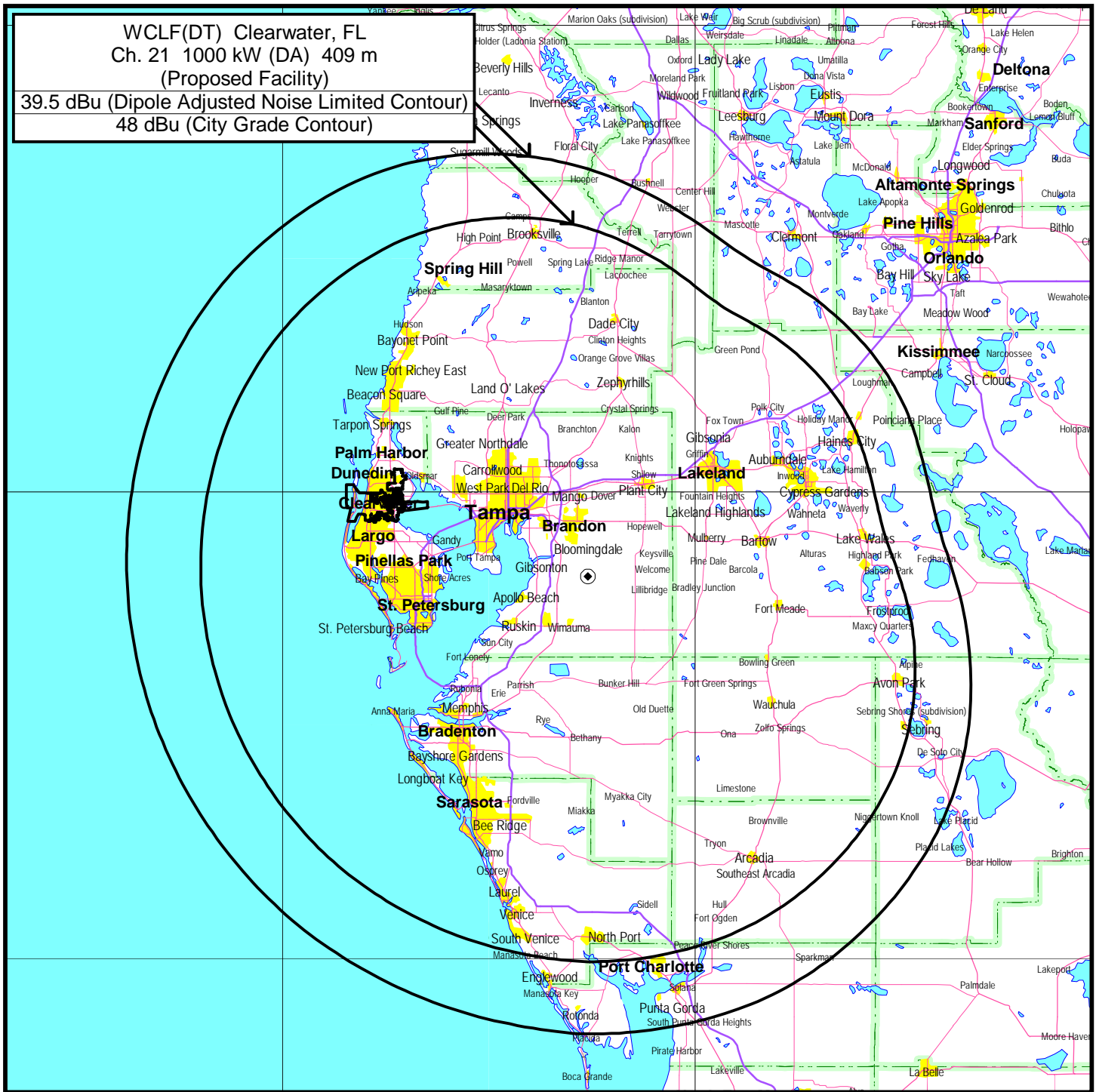


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Figure 1



30 0 30 60 90 120 150



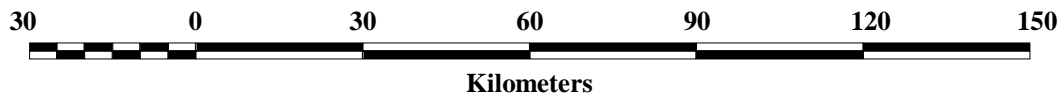
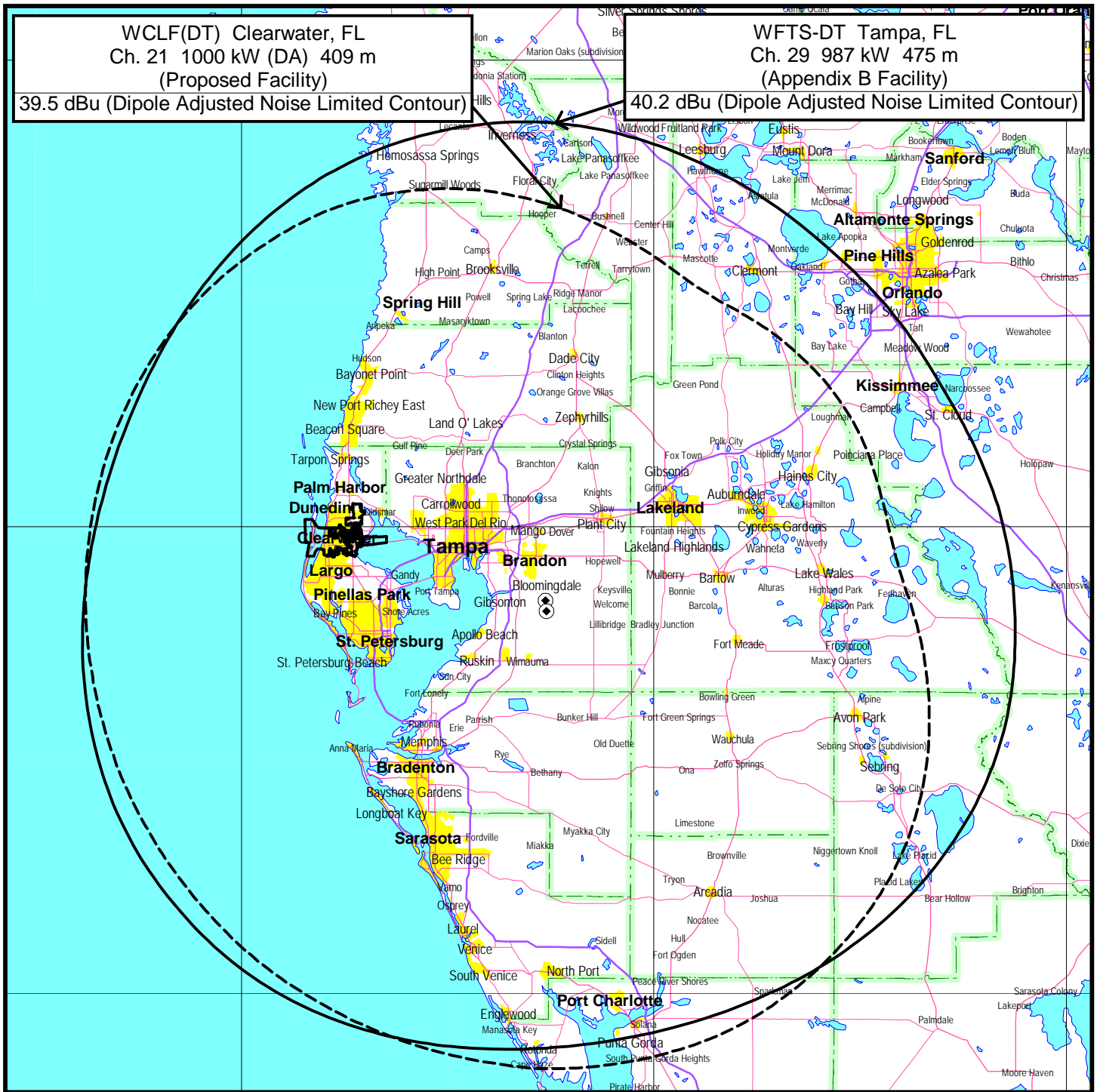
Kilometers

FCC PREDICTED COVERAGE CONTOURS

DTV STATION WCLF(DT)
CLEARWATER, FLORIDA
CH 21 1000 KW (DA) 409 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida 34237

Figure 2



SECTION 73.622(f)(5) COMPLIANCE

DTV STATION WCLF(DT)
CLEARWATER, FLORIDA
CH 21 1000 KW (DA) 409 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida 34237

AZIMUTH PATTERN

Type:

ATW-C170

Directivity:

Numeric

1.70

dBd

2.30

Peak(s) at:

Channel:

21

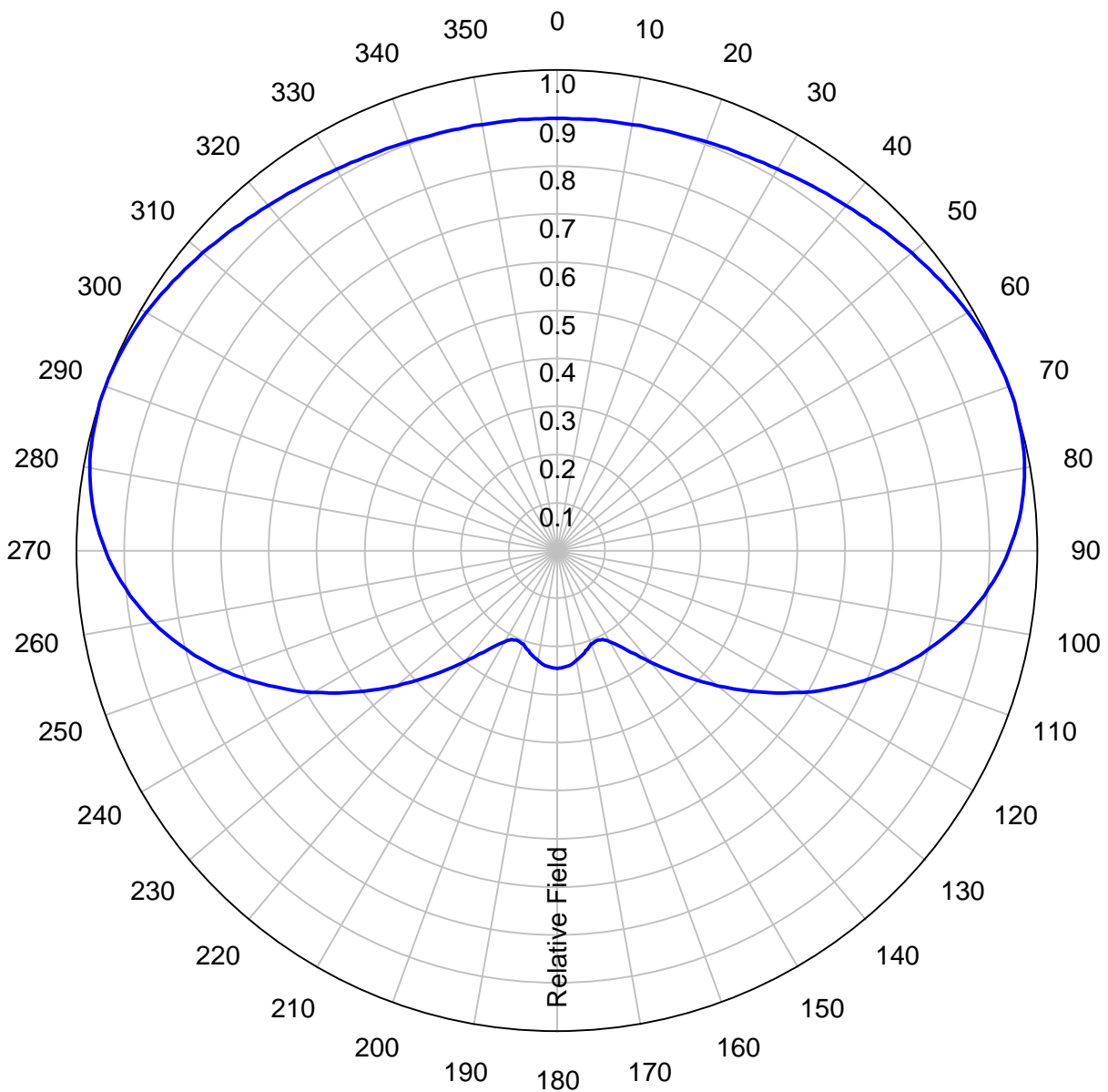
Location:

Clearwater, FL

Polarization:

Horizontal

Note: Pattern shape and directivity may vary with channel and mouting configuration.



Preliminary, subject to final design and review.

TABULATED DATA FOR AZIMUTH PATTERN**Type**ATW-C170**Polarization**Horizontal

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.899	-0.92	92	0.925	-0.68	184	0.242	-12.32	276	0.973	-0.24
2	0.899	-0.92	94	0.910	-0.82	186	0.240	-12.40	278	0.981	-0.17
4	0.899	-0.92	96	0.893	-0.98	188	0.236	-12.54	280	0.987	-0.11
6	0.900	-0.92	98	0.874	-1.17	190	0.232	-12.69	282	0.992	-0.07
8	0.900	-0.92	100	0.854	-1.37	192	0.227	-12.88	284	0.996	-0.03
10	0.900	-0.92	102	0.832	-1.60	194	0.222	-13.07	286	0.998	-0.02
12	0.901	-0.91	104	0.809	-1.84	196	0.216	-13.31	288	1.000	0.00
14	0.902	-0.90	106	0.785	-2.10	198	0.211	-13.51	290	1.000	0.00
16	0.903	-0.89	108	0.760	-2.38	200	0.207	-13.68	292	0.999	-0.01
18	0.904	-0.88	110	0.733	-2.70	202	0.205	-13.76	294	0.997	-0.03
20	0.905	-0.87	112	0.706	-3.02	204	0.204	-13.81	296	0.995	-0.04
22	0.907	-0.85	114	0.677	-3.39	206	0.206	-13.72	298	0.992	-0.07
24	0.909	-0.83	116	0.648	-3.77	208	0.210	-13.56	300	0.988	-0.10
26	0.911	-0.81	118	0.619	-4.17	210	0.218	-13.23	302	0.983	-0.15
28	0.914	-0.78	120	0.588	-4.61	212	0.229	-12.80	304	0.978	-0.19
30	0.917	-0.75	122	0.558	-5.07	214	0.243	-12.29	306	0.973	-0.24
32	0.920	-0.72	124	0.527	-5.56	216	0.260	-11.70	308	0.968	-0.28
34	0.924	-0.69	126	0.497	-6.07	218	0.280	-11.06	310	0.963	-0.33
36	0.928	-0.65	128	0.466	-6.63	220	0.302	-10.40	312	0.957	-0.38
38	0.932	-0.61	130	0.437	-7.19	222	0.326	-9.74	314	0.952	-0.43
40	0.936	-0.57	132	0.407	-7.81	224	0.352	-9.07	316	0.946	-0.48
42	0.941	-0.53	134	0.379	-8.43	226	0.379	-8.43	318	0.941	-0.53
44	0.946	-0.48	136	0.352	-9.07	228	0.407	-7.81	320	0.936	-0.57
46	0.952	-0.43	138	0.326	-9.74	230	0.437	-7.19	322	0.932	-0.61
48	0.957	-0.38	140	0.302	-10.40	232	0.466	-6.63	324	0.928	-0.65
50	0.963	-0.33	142	0.280	-11.06	234	0.497	-6.07	326	0.924	-0.69
52	0.968	-0.28	144	0.260	-11.70	236	0.527	-5.56	328	0.920	-0.72
54	0.973	-0.24	146	0.243	-12.29	238	0.558	-5.07	330	0.917	-0.75
56	0.978	-0.19	148	0.229	-12.80	240	0.588	-4.61	332	0.914	-0.78
58	0.983	-0.15	150	0.218	-13.23	242	0.619	-4.17	334	0.911	-0.81
60	0.988	-0.10	152	0.210	-13.56	244	0.648	-3.77	336	0.909	-0.83
62	0.992	-0.07	154	0.206	-13.72	246	0.677	-3.39	338	0.907	-0.85
64	0.995	-0.04	156	0.204	-13.81	248	0.706	-3.02	340	0.905	-0.87
66	0.997	-0.03	158	0.205	-13.76	250	0.733	-2.70	342	0.904	-0.88
68	0.999	-0.01	160	0.207	-13.68	252	0.760	-2.38	344	0.903	-0.89
70	1.000	0.00	162	0.211	-13.51	254	0.785	-2.10	346	0.902	-0.90
72	1.000	0.00	164	0.216	-13.31	256	0.809	-1.84	348	0.901	-0.91
74	0.998	-0.02	166	0.222	-13.07	258	0.832	-1.60	350	0.900	-0.92
76	0.996	-0.03	168	0.227	-12.88	260	0.854	-1.37	352	0.900	-0.92
78	0.992	-0.07	170	0.232	-12.69	262	0.874	-1.17	354	0.900	-0.92
80	0.987	-0.11	172	0.236	-12.54	264	0.893	-0.98	356	0.899	-0.92
82	0.981	-0.17	174	0.240	-12.40	266	0.910	-0.82	358	0.899	-0.92
84	0.973	-0.24	176	0.242	-12.32	268	0.925	-0.68	360	0.899	-0.92
86	0.963	-0.33	178	0.244	-12.25	270	0.940	-0.54			
88	0.952	-0.43	180	0.245	-12.22	272	0.952	-0.43			
90	0.940	-0.54	182	0.244	-12.25	274	0.963	-0.33			

Preliminary, subject to final design and review.

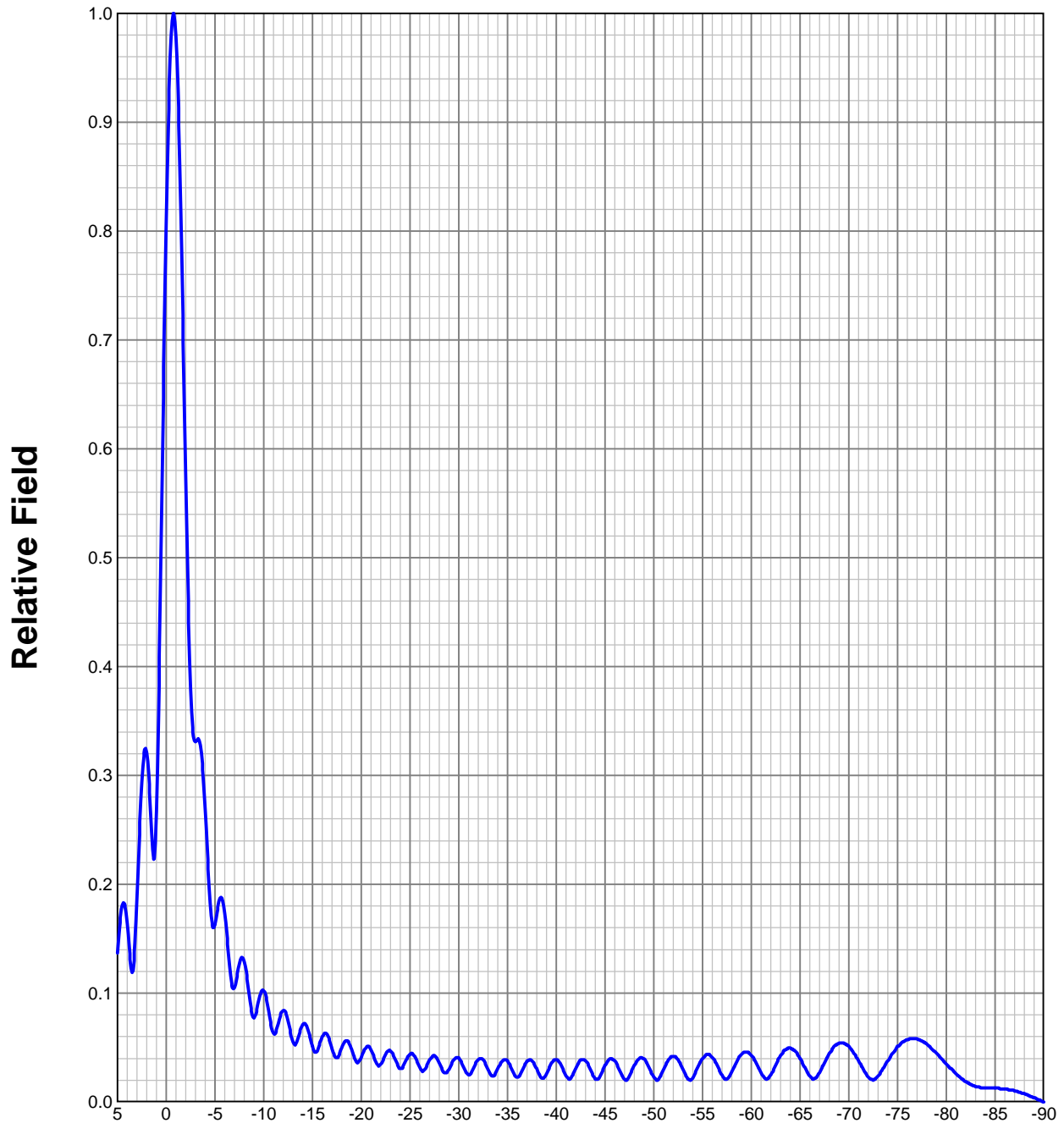
**TABULATED DATA FOR AZIMUTH PATTERN
FCC FILING FORMAT****Type**ATW-C170**Polarization**Horizontal

ANGLE	FIELD	ERP (kW)	ERP (dBk)
0	0.899	808.201	29.075
10	0.900	810.000	29.085
20	0.905	819.025	29.133
30	0.917	840.889	29.247
40	0.936	876.096	29.426
50	0.963	927.369	29.673
60	0.988	976.144	29.895
70	1.000	1000.000	30.000
80	0.987	974.169	29.886
90	0.940	883.600	29.463
100	0.854	729.316	28.629
110	0.733	537.289	27.302
120	0.588	345.744	25.388
130	0.437	190.969	22.810
140	0.302	91.204	19.600
150	0.218	47.524	16.769
160	0.207	42.849	16.319
170	0.232	53.824	17.310
180	0.245	60.025	17.783
190	0.232	53.824	17.310
200	0.207	42.849	16.319
210	0.218	47.524	16.769
220	0.302	91.204	19.600
230	0.437	190.969	22.810
240	0.588	345.744	25.388
250	0.733	537.289	27.302
260	0.854	729.316	28.629
270	0.940	883.600	29.463
280	0.987	974.169	29.886
290	1.000	1000.000	30.000
300	0.988	976.144	29.895
310	0.963	927.369	29.673
320	0.936	876.096	29.426
330	0.917	840.889	29.247
340	0.905	819.025	29.133
350	0.900	810.000	29.085

Preliminary, subject to final design and review.

ELEVATION PATTERN

Type:	ATW26H3H		Channel:	21
Directivity:	Numeric	dBd	Location:	Clearwater, FL
Main Lobe:	26.00	14.15	Beam Tilt:	-0.75
Horizontal:	17.02	12.31	Polarization:	Horizontal



Preliminary, subject to final design and review.

TABULATED DATA FOR ELEVATION PATTERN**Type:** ATW26H3H
PolarizationHorizontal

ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB
5.00	0.137	-17.27	-6.75	0.107	-19.41	-27.00	0.039	-28.18	-50.50
4.75	0.165	-15.68	-7.00	0.105	-19.58	-27.50	0.043	-27.33	-51.00
4.50	0.181	-14.85	-7.25	0.115	-18.75	-28.00	0.036	-28.87	-51.50
4.25	0.180	-14.87	-7.50	0.127	-17.92	-28.50	0.027	-31.37	-52.00
4.00	0.164	-15.70	-7.75	0.133	-17.52	-29.00	0.030	-30.46	-52.50
3.75	0.137	-17.30	-8.00	0.129	-17.79	-29.50	0.039	-28.18	-53.00
3.50	0.119	-18.49	-8.25	0.116	-18.67	-30.00	0.041	-27.74	-53.50
3.25	0.138	-17.20	-8.50	0.099	-20.09	-30.50	0.032	-29.90	-54.00
3.00	0.188	-14.52	-8.75	0.083	-21.57	-31.00	0.025	-32.04	-54.50
2.75	0.246	-12.18	-9.00	0.077	-22.27	-31.50	0.031	-30.17	-55.00
2.50	0.294	-10.63	-9.25	0.083	-21.62	-32.00	0.039	-28.18	-55.50
2.25	0.321	-9.87	-9.50	0.094	-20.54	-32.50	0.039	-28.18	-56.00
2.00	0.321	-9.87	-9.75	0.101	-19.91	-33.00	0.030	-30.46	-56.50
1.75	0.292	-10.69	-10.00	0.102	-19.83	-33.50	0.024	-32.40	-57.00
1.50	0.248	-12.11	-10.50	0.084	-21.51	-34.00	0.031	-30.17	-57.50
1.25	0.224	-13.01	-11.00	0.063	-24.01	-34.50	0.038	-28.40	-58.00
1.00	0.267	-11.47	-11.50	0.072	-22.85	-35.00	0.038	-28.40	-58.50
0.75	0.382	-8.36	-12.00	0.084	-21.51	-35.50	0.029	-30.75	-59.00
0.50	0.527	-5.56	-12.50	0.074	-22.62	-36.00	0.023	-32.77	-59.50
0.25	0.675	-3.41	-13.00	0.055	-25.19	-36.50	0.029	-30.75	-60.00
0.00	0.809	-1.84	-13.50	0.058	-24.73	-37.00	0.038	-28.40	-60.50
-0.25	0.913	-0.80	-14.00	0.071	-22.97	-37.50	0.038	-28.40	-61.00
-0.50	0.979	-0.18	-14.50	0.067	-23.48	-38.00	0.031	-30.17	-61.50
-0.75	1.000	0.00	-15.00	0.051	-25.85	-38.50	0.022	-33.15	-62.00
-1.00	0.978	-0.19	-15.50	0.047	-26.56	-39.00	0.026	-31.70	-62.50
-1.25	0.913	-0.79	-16.00	0.060	-24.44	-39.50	0.036	-28.87	-63.00
-1.50	0.817	-1.76	-16.50	0.062	-24.15	-40.00	0.039	-28.18	-63.50
-1.75	0.698	-3.12	-17.00	0.049	-26.20	-40.50	0.034	-29.37	-64.00
-2.00	0.573	-4.84	-17.50	0.041	-27.74	-41.00	0.024	-32.40	-64.50
-2.25	0.461	-6.73	-18.00	0.050	-26.02	-41.50	0.022	-33.15	-65.00
-2.50	0.379	-8.43	-18.50	0.056	-25.04	-42.00	0.031	-30.17	-65.50
-2.75	0.340	-9.37	-19.00	0.049	-26.20	-42.50	0.039	-28.18	-66.00
-3.00	0.331	-9.60	-19.50	0.037	-28.64	-43.00	0.038	-28.40	-66.50
-3.25	0.334	-9.54	-20.00	0.041	-27.74	-43.50	0.030	-30.46	-67.00
-3.50	0.328	-9.68	-20.50	0.050	-26.02	-44.00	0.021	-33.56	-67.50
-3.75	0.305	-10.31	-21.00	0.048	-26.38	-44.50	0.024	-32.40	-68.00
-4.00	0.268	-11.44	-21.50	0.037	-28.64	-45.00	0.034	-29.37	-68.50
-4.25	0.223	-13.03	-22.00	0.035	-29.12	-45.50	0.040	-27.96	-69.00
-4.50	0.183	-14.75	-22.50	0.044	-27.13	-46.00	0.038	-28.40	-69.50
-4.75	0.162	-15.81	-23.00	0.047	-26.56	-46.50	0.029	-30.75	-70.00
-5.00	0.163	-15.76	-23.50	0.039	-28.18	-47.00	0.021	-33.56	-70.50
-5.25	0.176	-15.07	-24.00	0.031	-30.17	-47.50	0.024	-32.40	-71.00
-5.50	0.187	-14.56	-24.50	0.037	-28.64	-48.00	0.034	-29.37	-71.50
-5.75	0.186	-14.61	-25.00	0.044	-27.13	-48.50	0.040	-27.96	-72.00
-6.00	0.173	-15.24	-25.50	0.042	-27.54	-49.00	0.040	-27.96	-72.50
-6.25	0.150	-16.48	-26.00	0.032	-29.90	-49.50	0.032	-29.90	-73.00
-6.50	0.125	-18.06	-26.50	0.030	-30.46	-50.00	0.023	-32.77	-73.50

Preliminary, subject to final design and review.