

EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of PAPPAS TELECASTING OF OPELIKA, L.P., licensee of digital television station WLGA-DT, Channel 30 in Opelika, Alabama, in support of its request for Special Temporary Authority to specify an increase in effective antenna height and corresponding decrease in effective radiated power. No change in the authorized site location or antenna make/model/orientation is proposed.

It is proposed to remount the licensed ERI directional antenna at the 509-meter level of the existing 538-meter communications tower. Antenna elevation and azimuth pattern data are provided in Exhibit B. Exhibit C is a map upon which the predicted service contours are plotted. It is important to note that the 48 dBu contour of the proposed facility completely encompasses the community of Opelika. In addition, the proposed 41 dBu contour is completely contained within that licensed to WLGA-DT. As a result, no interference study is provided herein. A power density calculation follows as Exhibit D.

Because no change in the overall height or location of the existing tower is proposed, the Federal Aviation Administration has not been notified of this application. In addition, the FCC issued Antenna Structure Registration Number 1243417 to this tower.

I declare under penalty of perjury that the foregoing statements and the attached exhibits are true and correct to the best of my knowledge and belief.



September 18, 2013

KEVIN T. FISHER

ELEVATION PATTERN

TYPE:

ATW25G4H

Frequency:

30 (DTV)

Directivity:

Numeric

dBd

Location:

Opelika, Alabama

Main Lobe:

24.00

13.80

Beam Tilt:

1.00

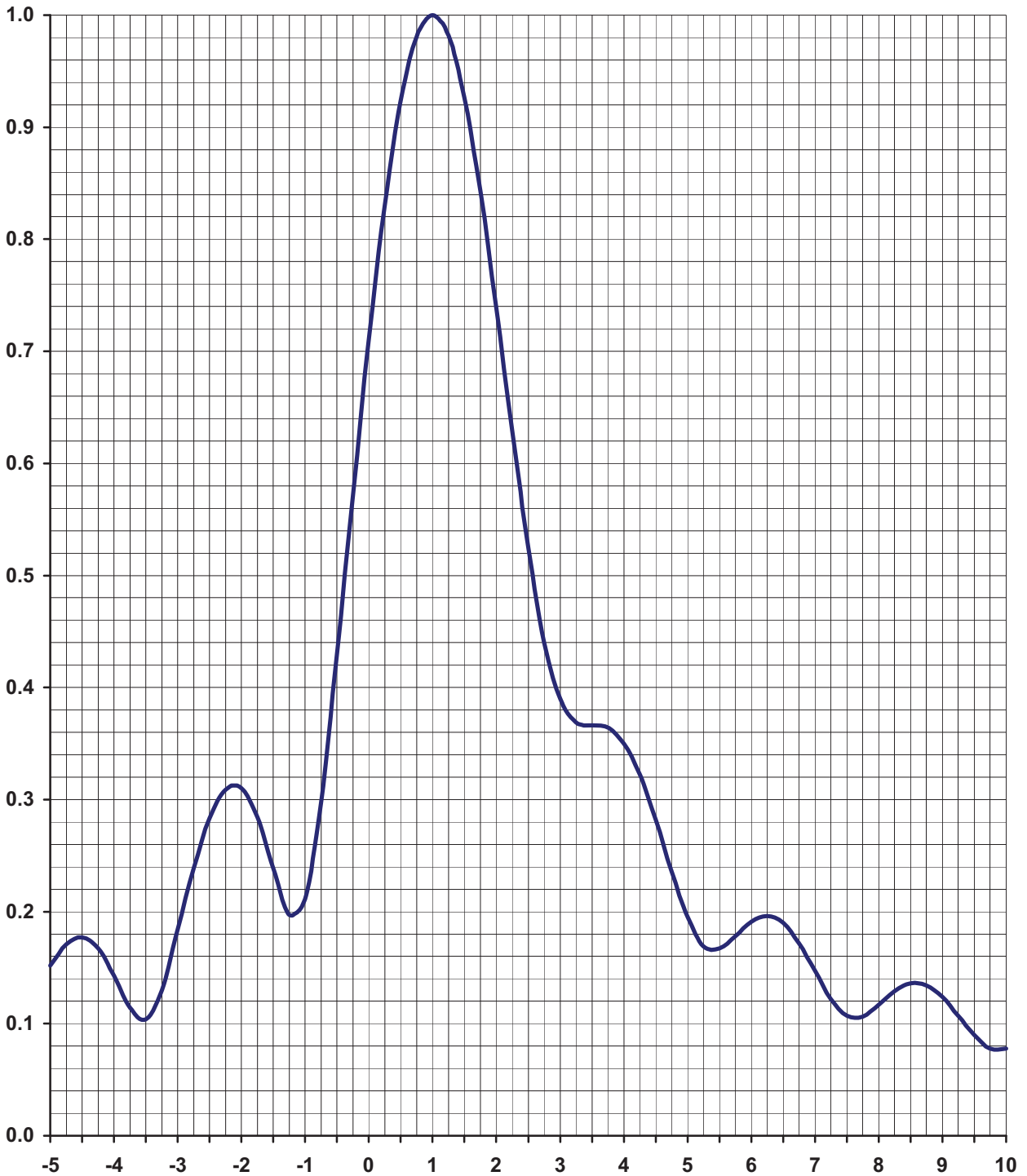
Horizontal:

12.10

10.83

Polarization:

Horizontal

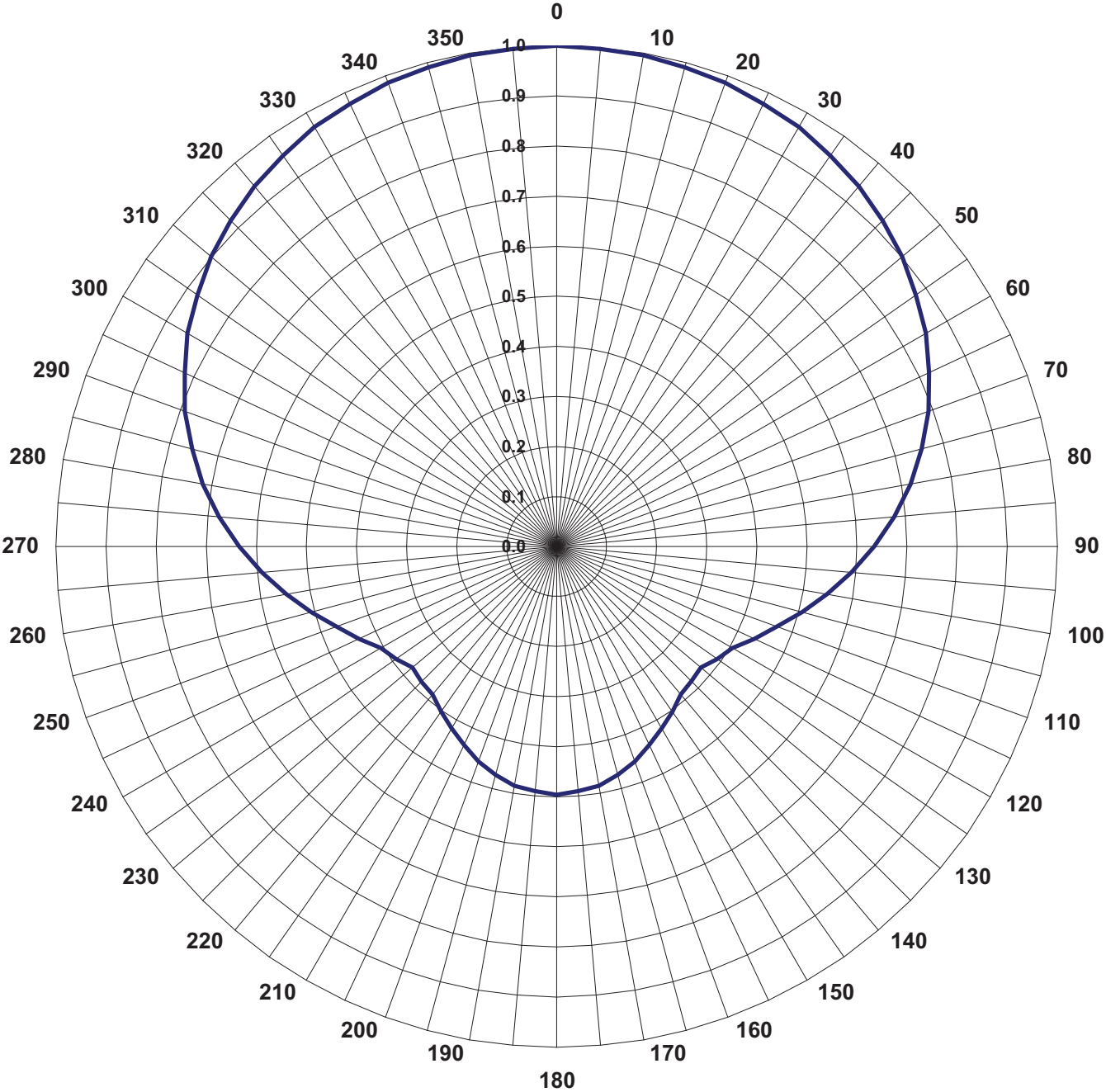


AZIMUTH PATTERN

TYPE:	ATW-GS	
	Numeric	dB
Directivity:	1.90	2.79
Peak(s) at:		

Frequency:	30 (DTV)
Location:	Opelika, Alabama
Polarization:	Horizontal

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



TABULATED DATA FOR AZIMUTH PATTERN**TYPE: ATW-GS**

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.00	92	0.617	-4.19	184	0.492	-6.16	276	0.684	-3.30
2	0.999	-0.01	94	0.600	-4.44	186	0.489	-6.21	278	0.700	-3.10
4	0.998	-0.02	96	0.582	-4.70	188	0.487	-6.25	280	0.717	-2.89
6	0.998	-0.02	98	0.565	-4.96	190	0.485	-6.29	282	0.732	-2.71
8	0.997	-0.03	100	0.548	-5.22	192	0.479	-6.39	284	0.746	-2.55
10	0.996	-0.03	102	0.532	-5.48	194	0.474	-6.48	286	0.761	-2.37
12	0.994	-0.05	104	0.516	-5.75	196	0.468	-6.60	288	0.775	-2.21
14	0.992	-0.07	106	0.499	-6.04	198	0.463	-6.69	290	0.790	-2.05
16	0.989	-0.10	108	0.483	-6.32	200	0.457	-6.80	292	0.802	-1.92
18	0.987	-0.11	110	0.467	-6.61	202	0.449	-6.96	294	0.814	-1.79
20	0.985	-0.13	112	0.455	-6.84	204	0.442	-7.09	296	0.827	-1.65
22	0.981	-0.17	114	0.442	-7.09	206	0.434	-7.25	298	0.839	-1.52
24	0.978	-0.19	116	0.430	-7.33	208	0.427	-7.39	300	0.851	-1.40
26	0.974	-0.23	118	0.417	-7.60	210	0.419	-7.56	302	0.861	-1.30
28	0.971	-0.26	120	0.405	-7.85	212	0.412	-7.70	304	0.871	-1.20
30	0.967	-0.29	122	0.399	-7.98	214	0.406	-7.83	306	0.881	-1.10
32	0.961	-0.35	124	0.394	-8.09	216	0.399	-7.98	308	0.891	-1.00
34	0.956	-0.39	126	0.388	-8.22	218	0.393	-8.11	310	0.901	-0.91
36	0.950	-0.45	128	0.383	-8.34	220	0.386	-8.27	312	0.909	-0.83
38	0.945	-0.49	130	0.377	-8.47	222	0.384	-8.31	314	0.916	-0.76
40	0.939	-0.55	132	0.379	-8.43	224	0.382	-8.36	316	0.924	-0.69
42	0.931	-0.62	134	0.381	-8.38	226	0.381	-8.38	318	0.931	-0.62
44	0.924	-0.69	136	0.382	-8.36	228	0.379	-8.43	320	0.939	-0.55
46	0.916	-0.76	138	0.384	-8.31	230	0.377	-8.47	322	0.945	-0.49
48	0.909	-0.83	140	0.386	-8.27	232	0.383	-8.34	324	0.950	-0.45
50	0.901	-0.91	142	0.393	-8.11	234	0.388	-8.22	326	0.956	-0.39
52	0.891	-1.00	144	0.399	-7.98	236	0.394	-8.09	328	0.961	-0.35
54	0.881	-1.10	146	0.406	-7.83	238	0.399	-7.98	330	0.967	-0.29
56	0.871	-1.20	148	0.412	-7.70	240	0.405	-7.85	332	0.971	-0.26
58	0.861	-1.30	150	0.419	-7.56	242	0.417	-7.60	334	0.974	-0.23
60	0.851	-1.40	152	0.427	-7.39	244	0.430	-7.33	336	0.978	-0.19
62	0.839	-1.52	154	0.434	-7.25	246	0.442	-7.09	338	0.981	-0.17
64	0.827	-1.65	156	0.442	-7.09	248	0.455	-6.84	340	0.985	-0.13
66	0.814	-1.79	158	0.449	-6.96	250	0.467	-6.61	342	0.987	-0.11
68	0.802	-1.92	160	0.457	-6.80	252	0.483	-6.32	344	0.989	-0.10
70	0.790	-2.05	162	0.463	-6.69	254	0.499	-6.04	346	0.992	-0.07
72	0.775	-2.21	164	0.468	-6.60	256	0.516	-5.75	348	0.994	-0.05
74	0.761	-2.37	166	0.474	-6.48	258	0.532	-5.48	350	0.996	-0.03
76	0.746	-2.55	168	0.479	-6.39	260	0.548	-5.22	352	0.997	-0.03
78	0.732	-2.71	170	0.485	-6.29	262	0.565	-4.96	354	0.998	-0.02
80	0.717	-2.89	172	0.487	-6.25	264	0.582	-4.70	356	0.998	-0.02
82	0.700	-3.10	174	0.489	-6.21	266	0.600	-4.44	358	0.999	-0.01
84	0.684	-3.30	176	0.492	-6.16	268	0.617	-4.19	360	1.000	0.00
86	0.667	-3.52	178	0.494	-6.13	270	0.634	-3.96			
88	0.651	-3.73	180	0.496	-6.09	272	0.651	-3.73			
90	0.634	-3.96	182	0.494	-6.13	274	0.667	-3.52			

**CONTOUR POPULATION
2010 U.S. CENSUS DATA**
48 DBU : 751,442 (332,644 HH)
41 DBU : 903,133 (397,973 HH)

SMITHANDFISHER

**FCC 41 DBU
CONTOUR**

**FCC 48 DBU
CONTOUR**

**EXHIBIT C
PREDICTED SERVICE CONTOURS
PROPOSED WLGA-DT STA
CHANNEL 30 - OPELIKA, ALABAMA**

Scale 1:1,200,000
0 10 20 30 km

POWER DENSITY CALCULATION

PROPOSED WLGA-DT STA
CHANNEL 30 – OPELIKA, ALABAMA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Opelika facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 500 kW, an antenna radiation center 509 meters above ground, and the specific elevation pattern of the ERI ATW24G475-HSS-30 antenna, maximum power density two meters above ground of 0.00022 mW/cm^2 is calculated to occur 126 meters north of the base of the tower. Since this is less than 0.1 percent of the 0.38 mW/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 30 (566-572 MHz), this proposal may be excluded from consideration with respect to public exposure to non-ionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive non-ionizing radiation.