

KWPS-FM - Caddo Valley, AR - Measured Pattern
Latitude: 34-21-09 N / Longitude: 093-09-26 W
ERP: 0.98 kW / Channel: 259 / Freq: 99.7 MHz
AMSL Height: 418.8 m

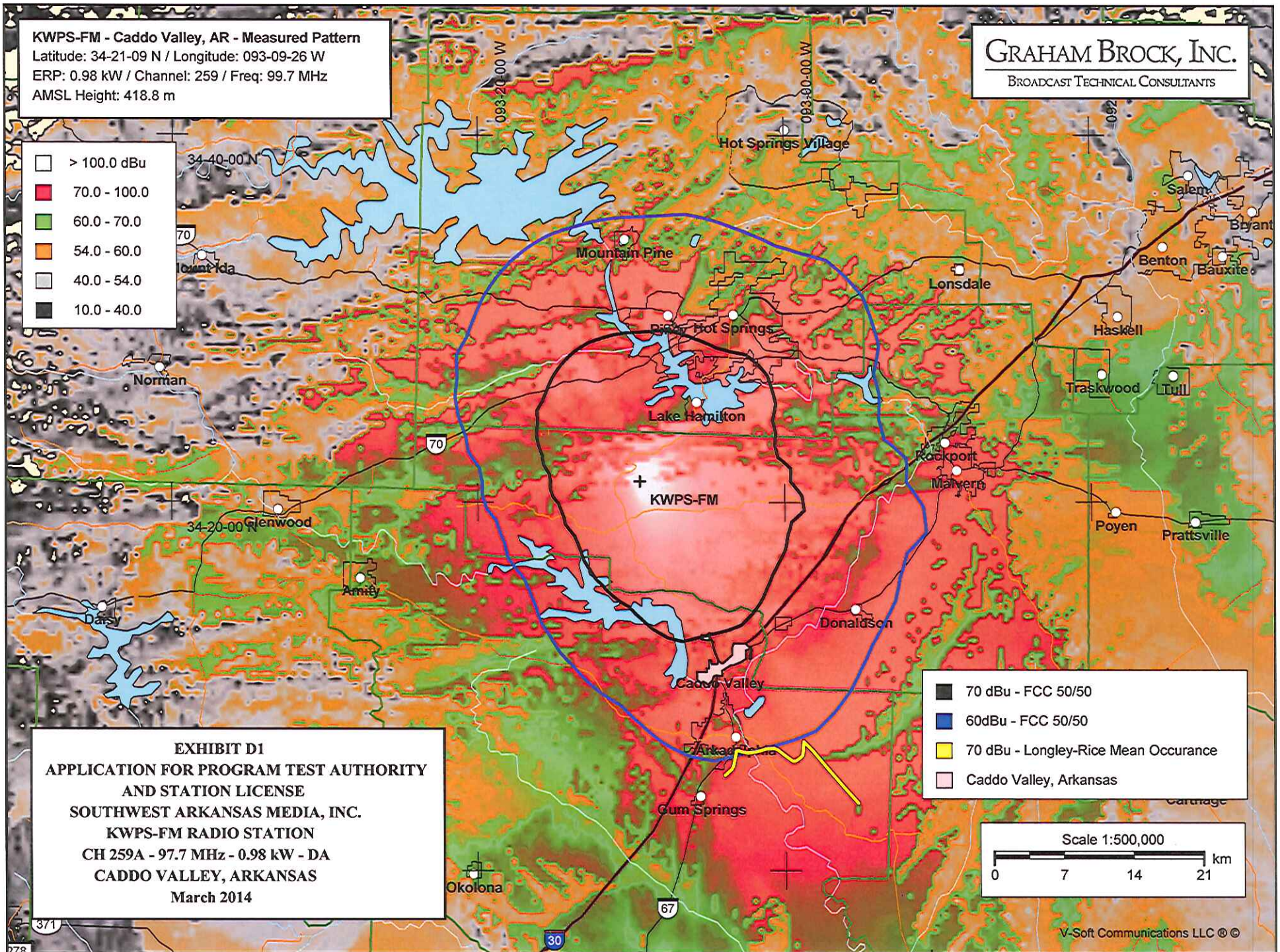
GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS

- > 100.0 dBu
- 70.0 - 100.0
- 60.0 - 70.0
- 54.0 - 60.0
- 40.0 - 54.0
- 10.0 - 40.0

- 70 dBu - FCC 50/50
- 60dBu - FCC 50/50
- 70 dBu - Longley-Rice Mean Occurance
- Caddo Valley, Arkansas

Scale 1:500,000
0 7 14 21 km

EXHIBIT D1
APPLICATION FOR PROGRAM TEST AUTHORITY
AND STATION LICENSE
SOUTHWEST ARKANSAS MEDIA, INC.
KWPS-FM RADIO STATION
CH 259A - 97.7 MHz - 0.98 kW - DA
CADDOW VALLEY, ARKANSAS
March 2014



KWPS-FM Measured DA Pattern

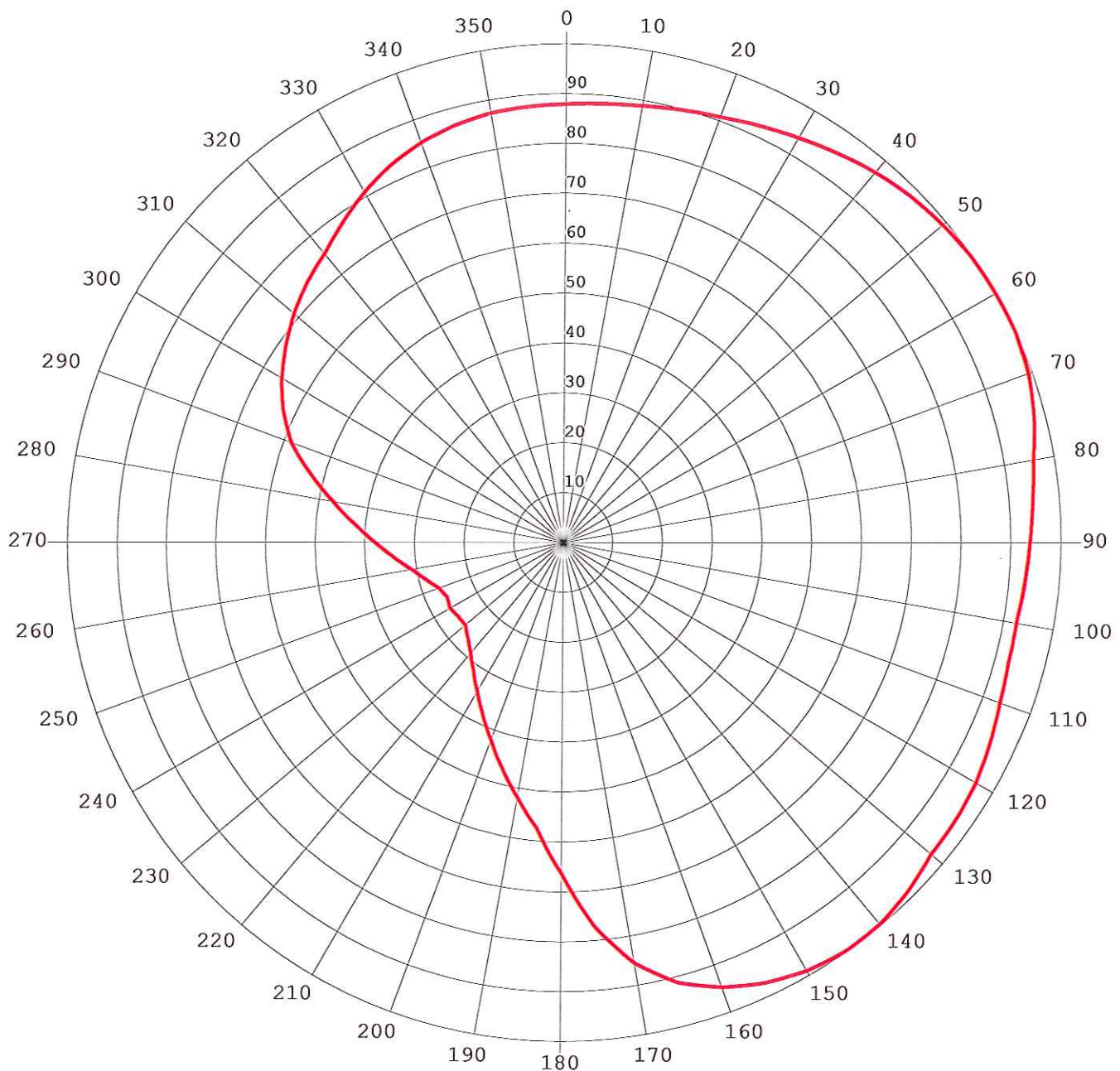


EXHIBIT D2
APPLICATION FOR PROGRAM TEST AUTHORITY
AND STATION LICENSE
SOUTHWEST ARKANSAS MEDIA, INC.
KWPS-FM RADIO STATION
CH 259A - 99.7 MHz - 0.98 kW - DA
CADDO VALLEY, ARKANSAS

From Exhibit A - Electronics Research, Inc.
Directional Antenna System
for
KWPS, Caddo Valley, Arkansas

KWPS-FM Measured DA Pattern

Azi	Rel	dBk	kW	dB
0	0.879	-1.21	0.757	-1.12
5	0.883	-1.17	0.764	-1.08
10	0.889	-1.11	0.775	-1.02
15	0.898	-1.02	0.790	-0.93
20	0.908	-0.93	0.808	-0.84
25	0.922	-0.79	0.833	-0.71
30	0.937	-0.65	0.860	-0.57
35	0.953	-0.51	0.890	-0.42
40	0.969	-0.36	0.920	-0.27
45	0.982	-0.25	0.945	-0.16
50	0.991	-0.17	0.962	-0.08
55	0.998	-0.11	0.976	-0.02
60	1.000	-0.09	0.980	0.00
65	1.000	-0.09	0.980	0.00
70	0.992	-0.16	0.964	-0.07
75	0.977	-0.29	0.935	-0.20
80	0.957	-0.47	0.898	-0.38
85	0.945	-0.58	0.875	-0.49
90	0.936	-0.66	0.859	-0.57
95	0.930	-0.72	0.848	-0.63
100	0.925	-0.76	0.839	-0.68
105	0.927	-0.75	0.842	-0.66
110	0.935	-0.67	0.857	-0.58
115	0.948	-0.55	0.881	-0.46
120	0.960	-0.44	0.903	-0.35
125	0.966	-0.39	0.914	-0.30
130	0.969	-0.36	0.920	-0.27
135	0.985	-0.22	0.951	-0.13
140	0.996	-0.12	0.972	-0.03
145	0.997	-0.11	0.974	-0.03
150	0.989	-0.18	0.959	-0.10
155	0.972	-0.33	0.926	-0.25
160	0.947	-0.56	0.879	-0.47
165	0.912	-0.89	0.815	-0.80
170	0.855	-1.45	0.716	-1.36
175	0.771	-2.35	0.583	-2.26

Azi	Rel	dBk	kW	dB
180	0.663	-3.66	0.431	-3.57
185	0.574	-4.91	0.323	-4.82
190	0.518	-5.80	0.263	-5.71
195	0.468	-6.68	0.215	-6.60
200	0.421	-7.60	0.174	-7.51
205	0.380	-8.49	0.142	-8.40
210	0.344	-9.36	0.116	-9.27
215	0.314	-10.15	0.097	-10.06
220	0.289	-10.87	0.082	-10.78
225	0.271	-11.43	0.072	-11.34
230	0.257	-11.89	0.065	-11.80
235	0.258	-11.86	0.065	-11.77
240	0.263	-11.69	0.068	-11.60
245	0.258	-11.86	0.065	-11.77
250	0.267	-11.56	0.070	-11.47
255	0.286	-10.96	0.080	-10.87
260	0.310	-10.26	0.094	-10.17
265	0.342	-9.41	0.115	-9.32
270	0.379	-8.51	0.141	-8.43
275	0.422	-7.58	0.175	-7.49
280	0.472	-6.61	0.218	-6.52
285	0.528	-5.64	0.273	-5.55
290	0.585	-4.74	0.335	-4.66
295	0.625	-4.17	0.383	-4.08
300	0.658	-3.72	0.424	-3.64
305	0.687	-3.35	0.463	-3.26
310	0.713	-3.03	0.498	-2.94
315	0.736	-2.75	0.531	-2.66
320	0.755	-2.53	0.559	-2.44
325	0.783	-2.21	0.601	-2.12
330	0.811	-1.91	0.645	-1.82
335	0.835	-1.65	0.683	-1.57
340	0.853	-1.47	0.713	-1.38
345	0.866	-1.34	0.735	-1.25
350	0.874	-1.26	0.749	-1.17
355	0.877	-1.23	0.754	-1.14

Rotation Angle = 0

EXHIBIT D3
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