EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of KTBS, LLC, licensee of full-power digital television station KTBS-DT, Channel 28 in Shreveport, Louisiana, in support of its request for Special Temporary Authority to use an auxiliary antenna for its operation on Channel 28 while the new repack antenna for KPXJ-DT (Minden, Louisiana) on Channel 32 is installed on the same tower as KTBS-DT. No change in site location is proposed herein.

It is proposed to mount a Dielectric broadband directional, horizontally-polarized antenna at the 444.2-meter level of the existing 556.5-meter KTBS-DT tower. The proposed effective radiated power for the facility is 1000 kW in the horizontal plane. Exhibit B is a map upon which the predicted service contours are plotted. As shown, the community of Shreveport is completely encompassed by the proposed STA 48 dBu city-grade service contour. In Exhibit C we have plotted the service contours of the main licensed KTBS-DT facility and that from proposed STA operation. As shown, the service contour of the STA facility is completely contained within that licensed to KTBS-DT in LMS-0000053971.

Elevation and azimuth pattern information for the proposed antenna are provided in Exhibit D. Since the STA facility proposed herein has a service contour contained completely within that licensed to KTBS-DT, no interference study is included herein. A power density calculation appears as Exhibit E.

Since no change in the overall height or location of the existing KTBS-DT tower is proposed herein, the Federal Aviation Administration has not been notified of this application.

EXHIBIT A

In addition, the Federal Communications Commission issued Antenna Structure Registration Number 1020877 to this tower.

I declare under penalty of perjury that the foregoing statements and the attached exhibits, which were prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.

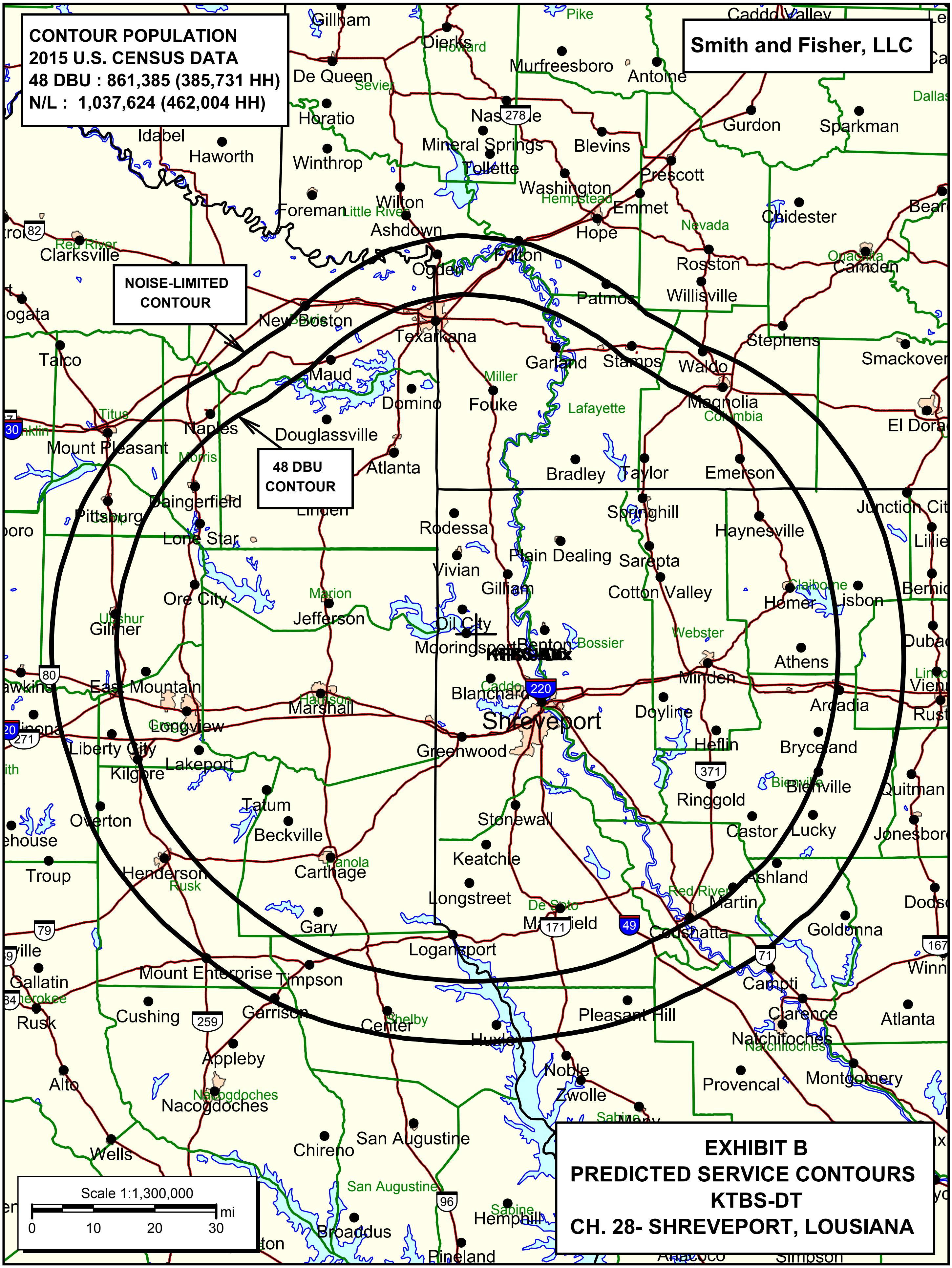
KEVIN T. FISHER

January 22, 2019

EXHIBIT B
PREDICTED SERVICE CONTOURS
KTBS-DT
CH. 28- SHREVEPORT, LOUSIANA

Smith and Fisher, LLC

CONTOUR POPULATION
2015 U.S. CENSUS DATA
48 DBU : 861,385 (385,731 HH)
N/L : 1,037,624 (462,004 HH)



Smith and Fisher, LLC

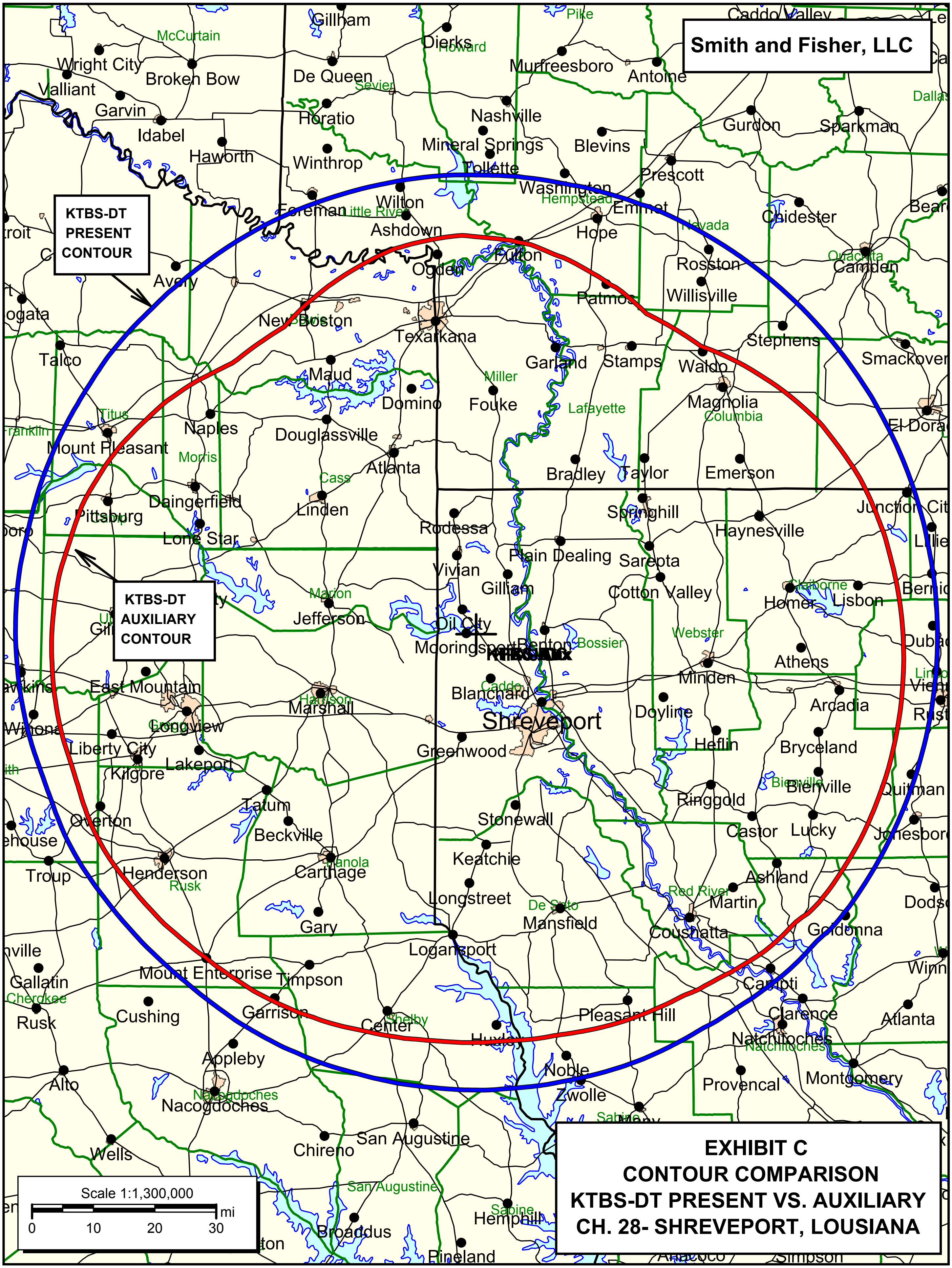
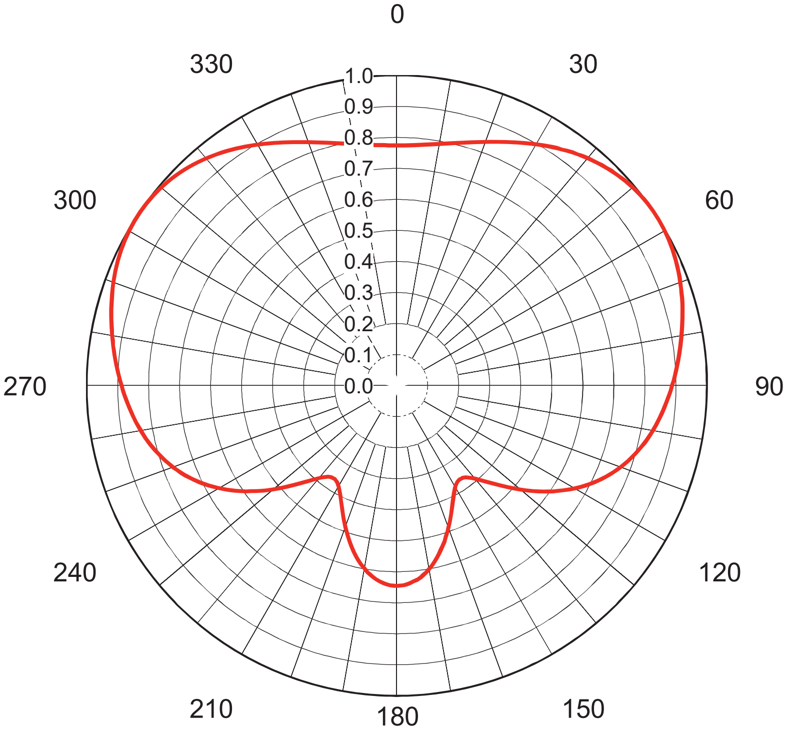


EXHIBIT C
CONTOUR COMPARISON
KTBS-DT PRESENT VS. AUXILIARY
CH. 28- SHREVEPORT, LOUSIANA

EXHIBIT D



AZIMUTH PATTERN
Horizontal Polarization

Proposal No.	**C-71002-1**
Date	**29-Nov-17**
Call Letters	**KTBS 28**
Frequency	**557 MHz**
Antenna Type	**TFU-24WB-R C160**
Gain	**1.63 (2.13dB)** **Calculated**
Directional Drawing #	**WB-C160H**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.774	36	0.935	72	0.966	108	0.785	144	0.367	180	0.645	216	0.364	252	0.785	288	0.965	324	0.934
1	0.774	37	0.941	73	0.962	109	0.777	145	0.364	181	0.645	217	0.368	253	0.792	289	0.969	325	0.928
2	0.775	38	0.946	74	0.958	110	0.768	146	0.364	182	0.643	218	0.374	254	0.800	290	0.972	326	0.922
3	0.776	39	0.952	75	0.954	111	0.760	147	0.365	183	0.641	219	0.381	255	0.807	291	0.976	327	0.916
4	0.777	40	0.957	76	0.950	112	0.750	148	0.367	184	0.638	220	0.389	256	0.814	292	0.979	328	0.910
5	0.778	41	0.962	77	0.945	113	0.741	149	0.372	185	0.633	221	0.399	257	0.820	293	0.982	329	0.903
6	0.780	42	0.966	78	0.941	114	0.731	150	0.377	186	0.628	222	0.410	258	0.826	294	0.985	330	0.897
7	0.782	43	0.971	79	0.937	115	0.720	151	0.385	187	0.622	223	0.422	259	0.832	295	0.987	331	0.891
8	0.785	44	0.975	80	0.932	116	0.710	152	0.393	188	0.616	224	0.434	260	0.838	296	0.990	332	0.884
9	0.788	45	0.979	81	0.928	117	0.698	153	0.402	189	0.608	225	0.447	261	0.844	297	0.992	333	0.878
10	0.791	46	0.982	82	0.924	118	0.687	154	0.413	190	0.600	226	0.461	262	0.849	298	0.994	334	0.871
11	0.794	47	0.986	83	0.919	119	0.675	155	0.424	191	0.591	227	0.475	263	0.854	299	0.996	335	0.865
12	0.798	48	0.989	84	0.915	120	0.662	156	0.436	192	0.581	228	0.490	264	0.859	300	0.997	336	0.859
13	0.802	49	0.991	85	0.910	121	0.649	157	0.448	193	0.570	229	0.505	265	0.864	301	0.998	337	0.853
14	0.806	50	0.993	86	0.906	122	0.636	158	0.461	194	0.559	230	0.519	266	0.869	302	0.999	338	0.847
15	0.810	51	0.995	87	0.901	123	0.623	159	0.473	195	0.548	231	0.534	267	0.874	303	0.999	339	0.841
16	0.815	52	0.997	88	0.897	124	0.609	160	0.486	196	0.536	232	0.549	268	0.879	304	0.999	340	0.835
17	0.820	53	0.998	89	0.892	125	0.594	161	0.499	197	0.523	233	0.564	269	0.883	305	0.999	341	0.830
18	0.825	54	0.999	90	0.888	126	0.580	162	0.512	198	0.511	234	0.579	270	0.888	306	0.998	342	0.824
19	0.831	55	1.000	91	0.883	127	0.565	163	0.525	199	0.498	235	0.593	271	0.892	307	0.997	343	0.819
20	0.836	56	1.000	92	0.878	128	0.551	164	0.537	200	0.485	236	0.607	272	0.897	308	0.996	344	0.814
21	0.842	57	1.000	93	0.874	129	0.536	165	0.549	201	0.472	237	0.621	273	0.901	309	0.994	345	0.810
22	0.848	58	1.000	94	0.869	130	0.521	166	0.560	202	0.459	238	0.635	274	0.906	310	0.993	346	0.805
23	0.854	59	0.999	95	0.864	131	0.506	167	0.571	203	0.446	239	0.648	275	0.910	311	0.990	347	0.801
24	0.860	60	0.998	96	0.859	132	0.492	168	0.582	204	0.434	240	0.661	276	0.915	312	0.988	348	0.797
25	0.866	61	0.996	97	0.854	133	0.477	169	0.591	205	0.422	241	0.674	277	0.919	313	0.985	349	0.793
26	0.872	62	0.995	98	0.849	134	0.463	170	0.600	206	0.411	242	0.686	278	0.923	314	0.982	350	0.790
27	0.879	63	0.993	99	0.844	135	0.449	171	0.609	207	0.400	243	0.698	279	0.928	315	0.978	351	0.787
28	0.885	64	0.991	100	0.838	136	0.436	172	0.616	208	0.391	244	0.709	280	0.932	316	0.974	352	0.784
29	0.892	65	0.988	101	0.832	137	0.424	173	0.623	209	0.382	245	0.720	281	0.936	317	0.970	353	0.782
30	0.898	66	0.986	102	0.826	138	0.412	174	0.629	210	0.375	246	0.730	282	0.941	318	0.966	354	0.780
31	0.904	67	0.983	103	0.820	139	0.401	175	0.634	211	0.369	247	0.740	283	0.945	319	0.961	355	0.778
32	0.911	68	0.980	104	0.814	140	0.392	176	0.638	212	0.365	248	0.750	284	0.949	320	0.956	356	0.777
33	0.917	69	0.977	105	0.807	141	0.383	177	0.641	213	0.362	249	0.759	285	0.953	321	0.951	357	0.776
34	0.923	70	0.973	106	0.800	142	0.376	178	0.643	214	0.361	250	0.768	286	0.957	322	0.945	358	0.775
35	0.929	71	0.969	107	0.793	143	0.371	179	0.645	215	0.362	251	0.777	287	0.961	323	0.940	359	0.774

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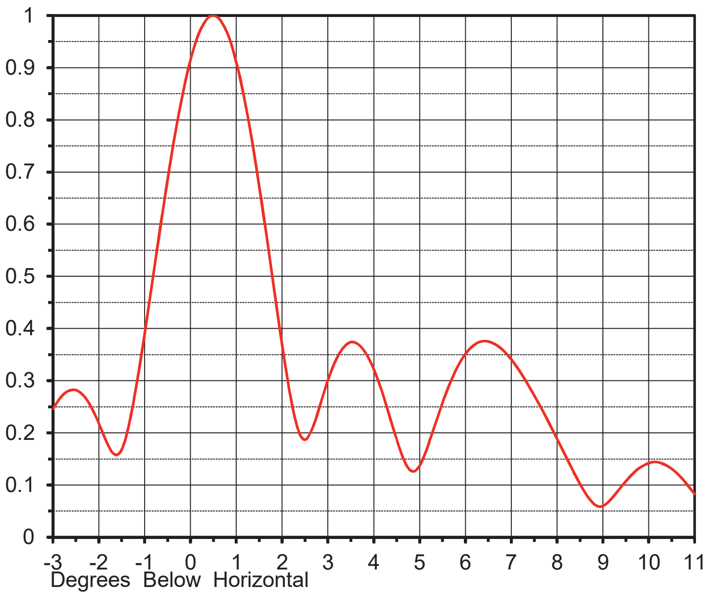
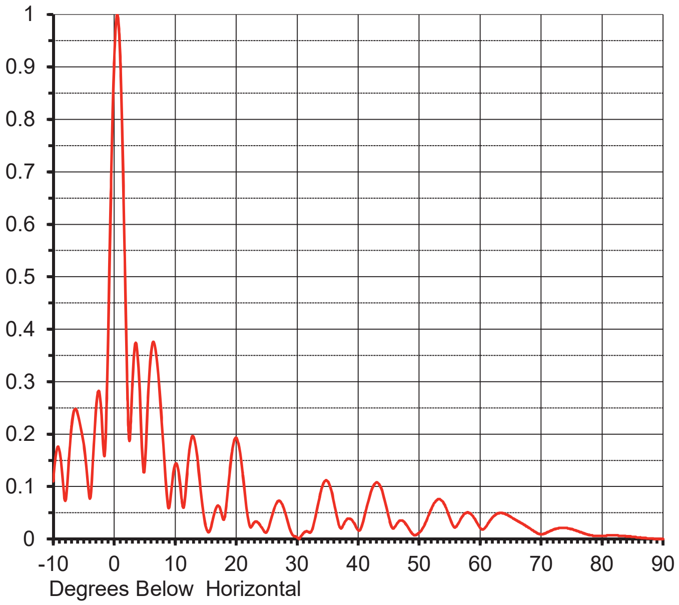
EXHIBIT D

ELEVATION PATTERN

Proposal No.	**C-71002-1**
Date	**29-Nov-17**
Call Letters	**KTBS 28**
Frequency	**557 MHz**
Antenna Type	**TFU-24WB-R C160**

RMS Directivity at Main Lobe	**21.60 (13.34 dB)**	Beam Tilt	**0.50 deg**
RMS Directivity at Horizontal	**18.10 (12.58 dB)**	Drawing Number	**24W216050**
	Calculated		





Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.110	10.0	0.142	30.0	0.003	50.0	0.012	70.0	0.009
-9.0	0.170	11.0	0.083	31.0	0.011	51.0	0.030	71.0	0.013
-8.0	0.073	12.0	0.131	32.0	0.013	52.0	0.057	72.0	0.018
-7.0	0.215	13.0	0.195	33.0	0.042	53.0	0.075	73.0	0.021
-6.0	0.239	14.0	0.114	34.0	0.096	54.0	0.069	74.0	0.021
-5.0	0.180	15.0	0.025	35.0	0.110	55.0	0.041	75.0	0.019
-4.0	0.077	16.0	0.029	36.0	0.072	56.0	0.023	76.0	0.015
-3.0	0.246	17.0	0.064	37.0	0.022	57.0	0.042	77.0	0.011
-2.0	0.218	18.0	0.037	38.0	0.035	58.0	0.051	78.0	0.007
-1.0	0.390	19.0	0.135	39.0	0.036	59.0	0.040	79.0	0.006
0.0	0.915	20.0	0.193	40.0	0.017	60.0	0.021	80.0	0.006
1.0	0.911	21.0	0.132	41.0	0.042	61.0	0.024	81.0	0.007
2.0	0.368	22.0	0.034	42.0	0.086	62.0	0.041	82.0	0.007
3.0	0.301	23.0	0.032	43.0	0.108	63.0	0.049	83.0	0.006
4.0	0.322	24.0	0.025	44.0	0.089	64.0	0.048	84.0	0.005
5.0	0.137	25.0	0.013	45.0	0.042	65.0	0.042	85.0	0.004
6.0	0.351	26.0	0.049	46.0	0.023	66.0	0.035	86.0	0.003
7.0	0.341	27.0	0.073	47.0	0.035	67.0	0.029	87.0	0.002
8.0	0.188	28.0	0.051	48.0	0.026	68.0	0.021	88.0	0.001
9.0	0.060	29.0	0.013	49.0	0.009	69.0	0.014	89.0	0.000
								90.0	0.000

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EXHIBIT E

POWER DENSITY CALCULATION

PROPOSED KTBS-DT STA REQUEST
CHANNEL 28 – SHREVEPORT, LOUSIANA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Shreveport facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 1000 kW, an antenna radiation center 444.2 meters above ground, and the specific elevation pattern of the proposed Dielectric antenna, maximum power density two meters above ground of 0.00093 mW/cm^2 is calculated to occur 474 meters southeast and southwest of the base of the tower. Since this is only 0.3 percent of the 0.37 mW/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 28 (554-560 MHz), a grant of this proposal may be considered a minor environmental action 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.