

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of NRJ TV HOUSTON LICENSE CO., LLC, licensee of full-power digital television station KUBE-DT, Channel 41 in Baytown, Texas, in support of its request for Special Temporary Authority to use an interim antenna for its operation on Channel 41 (pre-repack) while the new repack antenna on Channel 31 is installed. No change in site location is proposed herein.

It is proposed to mount a Dielectric broadband directional, horizontally-polarized antenna at the 503.6-meter level of the existing 601.4-meter KUBE-DT tower. The proposed effective radiated power for the facility is 600 kW in the horizontal plane. Exhibit B is a map upon which the predicted service contours are plotted. As shown, the community of Baytown 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 KUBE-DT facility and that from proposed STA operation. As shown, the service contour of the STA facility is mostly contained within that licensed to KUBE-DT on Channel 41 in BLCDT-20081016ACF.

Because there is an area where the STA contour extends beyond that licensed to KUBE-DT, we have conducted a TVStudy interference analysis for the proposed STA facility. Attached, as Exhibit D, is a summary of that analysis, which concludes that the proposed temporary operation of KUBE-DT with the facility described herein will have no deleterious impact on any co-channel or adjacent-channel full-power or LPTV facility, except in one instance.

The proposed KUBE-DT STA facility causes predicted interference to 6.5% of the service population of KBMN-LD, Channel 40 in Beaumont, Texas. This is above and beyond

EXHIBIT A

the interference caused to that station by KUBE-DT, as licensed in BLCDT-20081016ACF.

However, the licensee of KBMN-LD has agreed to accept the additional interference caused by the proposed KUBE-DT STA operation and a copy of that interference agreement can be found as a separate attachment to this application.

Elevation and azimuth pattern information for the proposed antenna are provided in Exhibit E and a power density calculation appears in this document as Exhibit F.

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

In addition, the Federal Communications Commission issued Antenna Structure Registration Number 1064696 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.

A handwritten signature in blue ink, appearing to read 'K. T. Fisher', with a stylized flourish at the end.

KEVIN T. FISHER

June 22, 2018

CONTOUR POPULATION
2015 U.S. CENSUS DATA
CITY-GRADE : 6,651,699 (2,499,588 HH)
NOISE-LIMITED : 6,770,946 (2,551,409 HH)



EXHIBIT B
PREDICTED SERVICE CONTOURS
PROPOSED KUBE-DT STA
CHANNEL 41 - BAYTOWN, TEXAS



tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KUBE 41 Interim 600 kW 350d, Model: Longley-Rice
Start: 2018.06.14 16:41:57

Study created: 2018.06.14 16:41:56

Study build station data: LMS TV 2018-06-10

Proposal: KUBE-TV D41 DT STA BAYTOWN, TX
File number: KUBE 41 Interim 600 kW 350d
Facility ID: 70492
Station data: User record
Record ID: 609
Country: U.S.
Zone: III

Proposal "before": KUBE-TV D41 DT LIC BAYTOWN, TX
File number: BLCDT20081016ACF
Facility ID: 70492
Station data: LMS TV 2018-06-10
Record ID: 69b1aaa71c5e46399741cf6212b6c0ea
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

Search options:
All post-transition APP, CP, and baseline records excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	KBMN-LD	D40	LD	LIC	BEAUMONT, TX	BLANK0000014030	44.2 km
No	KRHD-CD	D40	DC	LIC	BRYAN, TX	BLDTA20100520AA0	160.8
No	KHPL-CD	D40	DC	LIC	LA GRANGE, TX	BLANK0000001525	137.7
Yes	KBTV-TV	D40	DT	LIC	PORT ARTHUR, TX	BLCDT20090615ACC	160.7
Yes	KBCA	D41	DT	LIC	ALEXANDRIA, LA	BLCDT20090618AAN	314.3
No	K41NE-D	D41	LD	CP	VINTON, LA	BNPDTL20100407AA0	194.4
No	KCRP-CD	D41	DC	LIC	CORPUS CHRISTI, TX	BLANK0000001661	269.7
Yes	KXAS-TV	D41	DT	LIC	FORT WORTH, TX	BLANK0000012708	362.6
Yes	KWEX-DT	D41	DT	LIC	SAN ANTONIO, TX	BLCDT20090619AAK	267.8
Yes	KTBU	D42	DT	LIC	CONROE, TX	BLCDT20050103AJA	1.0
No	KVCV-LP	N42z	TX	LIC	VICTORIA, TX	BLTTL20070511ABY	163.6
No	K42KB-D	D42	LD	CP	VIDOR, TX	BNPDTL20100423AAF	155.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D41
Latitude: 29 34 16.00 N (NAD83)
Longitude: 95 30 38.00 W
Height AMSL: 527.0 m
HAAT: 580.0 m
Peak ERP: 600 kW
Antenna: DIE-TFU-16WB C160 350.0 deg
Elev Pattn: TFU-WB-16
Elec Tilt: 0.55

41.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	437 kW	507.3 m	106.5 km
45.0	599	509.5	109.7
90.0	398	508.8	105.8
135.0	51.9	507.6	88.4
180.0	169	508.8	98.0
225.0	223	508.5	100.4
270.0	500	506.4	107.7
315.0	516	502.4	107.7

Database HAAT does not agree with computed HAAT
Database HAAT: 580 m Computed HAAT: 507 m

ERP exceeds maximum
ERP: 600 kW ERP maximum: 494 kW

Distance to Canadian border: 1764.5 km

Distance to Mexican border: 423.2 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 225.0 degrees Distance: 331.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 325.6 degrees Distance: 1467.5 km

Study cell size: 2.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000014030 LIC scenario 1

**IX: 6.52% interference caused

Desired:	Call KBMN-LD	Chan D40	Svc LD	Status LIC	City, State BEAUMONT, TX	File Number BLANK0000014030	Distance
Undesireds:	KUBE-TV KUBE-TV KZHO-LD	D41 D41 D39	DT DT LD	LIC STA CP	BAYTOWN, TX BAYTOWN, TX HOUSTON, TX	BLCDT20081016ACF KUBE 41 Interim 600 kW BLANK0000001254	44.2 km 44.2 44.2
	Service area 1080.7	609,951	Terrain-limited 1080.7	609,951	IX-free, before 1080.7	IX-free, after 973.0	Percent New IX 9.96
					609,951	570,198	6.52
Undesired				Total IX	Unique IX, before	Unique IX, after	
KUBE-TV D41 DT LIC		0.0		0	0.0	0	
KUBE-TV D41 DT STA		107.7		39,753		107.7	39,753

Interference to BLANK0000014030 LIC scenario 2

**IX: 4.71% interference caused

Desired:	Call KBMN-LD	Chan D40	Svc LD	Status LIC	City, State BEAUMONT, TX	File Number BLANK0000014030	Distance
Undesireds:	KUBE-TV KUBE-TV KZHO-LD	D41 D41 D39	DT DT LD	LIC STA LIC	BAYTOWN, TX BAYTOWN, TX HOUSTON, TX	BLCDT20081016ACF KUBE 41 Interim 600 kW BLDTL20110301AAA	44.2 km 44.2 35.2
	Service area 1080.7	609,951	Terrain-limited 1080.7	609,951	IX-free, before 1072.7	IX-free, after 973.0	Percent New IX 9.29
					598,387	570,198	4.71
Undesired				Total IX	Unique IX, before	Unique IX, after	
KUBE-TV D41 DT LIC		0.0		0	0.0	0	
KUBE-TV D41 DT STA		107.7		39,753		99.7	28,189
KZHO-LD D39 LD LIC		8.0		11,564	8.0	0.0	0

Interference to BLCDT20090615ACC LIC scenario 1

Desired:	Call KBTB-TV	Chan D40	Svc DT	Status LIC	City, State PORT ARTHUR, TX	File Number BLCDT20090615ACC	Distance
Undesireds:	KUBE-TV KUBE-TV	D41 D41	DT DT	LIC STA	BAYTOWN, TX BAYTOWN, TX	BLCDT20081016ACF KUBE 41 Interim 600 kW	160.7 km 160.7
	Service area 24905.2	714,432	Terrain-limited 24897.2	714,424	IX-free, before 24897.2	IX-free, after 24893.2	Percent New IX 0.02
					714,424	714,424	0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KUBE-TV D41 DT LIC		0.0		0	0.0	0	
KUBE-TV D41 DT STA		4.0		0		4.0	0

Interference to BLCDT20090618AAN LIC scenario 1

Desired:	Call KBCA	Chan D41	Svc DT	Status LIC	City, State ALEXANDRIA, LA	File Number BLCDT20090618AAN	Distance
Undesireds:	KUBE-TV KUBE-TV KBTR-CD WL00	D41 D41 D41 D41	DT DT DC DT	LIC STA LIC LIC	BAYTOWN, TX BAYTOWN, TX BATON ROUGE, LA VICKSBURG, MS	BLCDT20081016ACF KUBE 41 Interim 600 kW BLANK0000001582 BLCDT20090603AAQ	314.3 km 314.3 147.3 257.4
	Service area 22990.1	463,075	Terrain-limited 22942.6	463,006	IX-free, before 22674.7	IX-free, after 22658.8	Percent New IX 0.07
					461,054	460,892	0.04
Undesired				Total IX	Unique IX, before	Unique IX, after	
KUBE-TV D41 DT LIC		0.0		0	0.0	0	
KUBE-TV D41 DT STA		15.9		162		15.9	162
KBTR-CD D41 DC LIC		132.0		1,757	132.0	1,757	1,757
WL00 D41 DT LIC		135.9		195	135.9	195	195

Interference to BLANK0000012708 LIC scenario 1

Desired:	Call KXAS-TV	Chan D41	Svc DT	Status LIC	City, State FORT WORTH, TX	File Number BLANK0000012708	Distance
Undesireds:	KUBE-TV KUBE-TV KPYD-TV	D41 D41 D42	DT DT DT	LIC STA LIC	BAYTOWN, TX BAYTOWN, TX ARLINGTON, TX	BLCDT20081016ACF KUBE 41 Interim 600 kW BLCDT20091022ACM	362.6 km 362.6 4.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
40135.9	6,707,738	39753.9	6,704,361	39653.6	6,701,927	39661.6	6,701,996	-0.02	-0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
KUBE-TV D41 DT LIC	7.9	69	7.9	69					
KUBE-TV D41 DT STA	0.0	0			0.0	0			
KPXD-TV D42 DT LIC	92.4	2,365	92.4	2,365	92.4	2,365			

Interference to BLCDT20090619AAK LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KWEX-DT	D41	DT	LIC	SAN ANTONIO, TX	BLCDT20090619AAK	
Undesireds:	KUBE-TV	D41	DT	LIC	BAYTOWN, TX	BLCDT20081016ACF	267.8 km
	KUBE-TV	D41	DT	STA	BAYTOWN, TX	KUBE 41 Interim 600 kW	267.8
	KCRP-CD	D41	DC	LIC	CORPUS CHRISTI, TX	BLANK0000001661	186.6
	KXAS-TV	D41	DT	LIC	FORT WORTH, TX	BLANK00000012708	385.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
28571.2	2,365,653	28081.3	2,360,552	27784.3	2,355,210	27932.7	2,357,449	-0.53	-0.10
Undesired		Total IX		Unique IX, before		Unique IX, after			
KUBE-TV D41 DT LIC	293.0	5,342	272.9	4,976					
KUBE-TV D41 DT STA	140.5	3,016			124.5	2,737			
KCRP-CD D41 DC LIC	8.1	0	4.0	0	4.0	0			
KXAS-TV D41 DT LIC	16.1	366	0.0	0	4.0	87			

Interference to BLCDT20050103AJA LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTBU	D42	DT	LIC	CONROE, TX	BLCDT20050103AJA	
Undesireds:	KUBE-TV	D41	DT	LIC	BAYTOWN, TX	BLCDT20081016ACF	1.0 km
	KUBE-TV	D41	DT	STA	BAYTOWN, TX	KUBE 41 Interim 600 kW	1.0
	KPXD-TV	D42	DT	LIC	ARLINGTON, TX	BLCDT20091022ACM	358.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
39281.6	6,076,521	39221.6	6,076,207	39185.4	6,075,640	39209.5	6,075,764	-0.06	-0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
KUBE-TV D41 DT LIC	28.2	141	28.2	141					
KUBE-TV D41 DT STA	4.0	17			4.0	17			
KPXD-TV D42 DT LIC	8.0	426	8.0	426	8.0	426			

Interference to proposal scenario 1

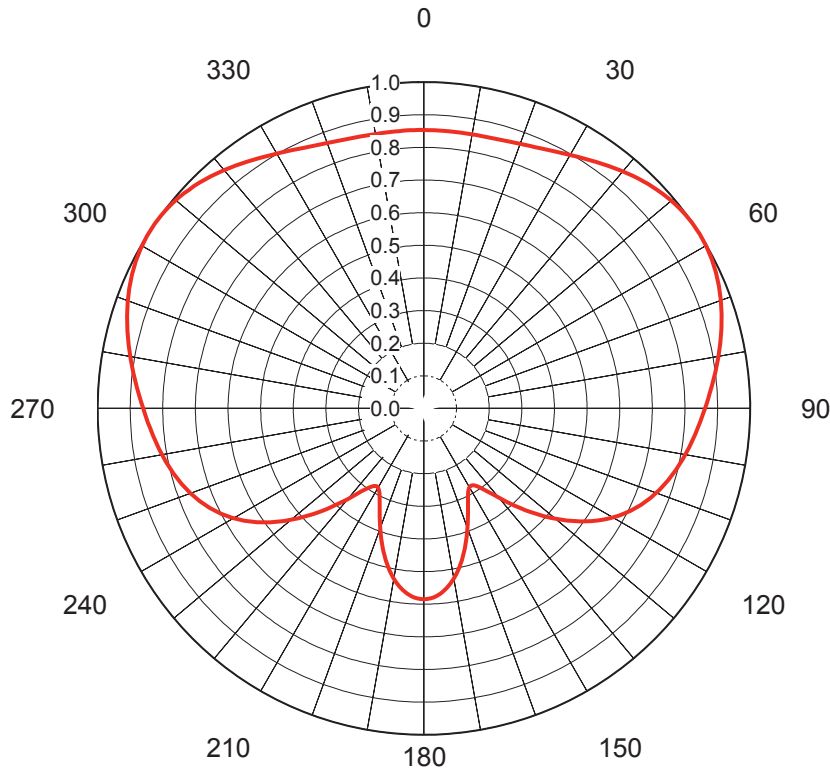
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KUBE-TV	D41	DT	STA	BAYTOWN, TX	KUBE 41 Interim 600 kW	
Undesireds:	KRHD-CD	D40	DC	LIC	BRYAN, TX	BLDTA20100520AA0	160.8 km
	KBCA	D41	DT	LIC	ALEXANDRIA, LA	BLCDT20090618AAN	314.3
	KXAS-TV	D41	DT	LIC	FORT WORTH, TX	BLANK00000012708	362.6
	KWEX-DT	D41	DT	LIC	SAN ANTONIO, TX	BLCDT20090619AAK	267.8
	KTBU	D42	DT	LIC	CONROE, TX	BLCDT20050103AJA	1.0

Service area		Terrain-limited		IX-free		Percent IX	
33488.0	6,034,649	33471.9	6,034,246	33231.0	6,027,644	0.72	0.11
Undesired		Total IX		Unique IX		Prcnt Unique IX	
KRHD-CD D40 DC LIC	4.0	101	4.0	101	0.01	0.00	
KBCA D41 DT LIC	4.0	0	4.0	0	0.01	0.00	
KXAS-TV D41 DT LIC	20.0	1,140	16.0	1,067	0.05	0.02	
KWEX-DT D41 DT LIC	16.1	164	12.1	91	0.04	0.00	
KTBU D42 DT LIC	200.8	5,270	200.8	5,270	0.60	0.09	

AZIMUTH PATTERN Horizontal Polarization

In Free Space

Proposal No. **C-71120-2**
Date **29-May-18**
Call Letters **KUBE**
Channel **41**
Frequency **635 MHz**
Antenna Type **TFU-16WB-R C160**
Gain **1.66 (2.21dB)**
Calculated



Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.853	36	0.927	72	0.959	108	0.771	144	0.303	180	0.585	216	0.307	252	0.774	288	0.956	324	0.932
1	0.853	37	0.933	73	0.954	109	0.765	145	0.294	181	0.584	217	0.318	253	0.780	289	0.961	325	0.927
2	0.853	38	0.938	74	0.949	110	0.758	146	0.286	182	0.583	218	0.332	254	0.785	290	0.966	326	0.922
3	0.853	39	0.943	75	0.944	111	0.751	147	0.281	183	0.580	219	0.346	255	0.791	291	0.970	327	0.916
4	0.853	40	0.948	76	0.939	112	0.744	148	0.278	184	0.576	220	0.361	256	0.796	292	0.974	328	0.911
5	0.853	41	0.953	77	0.933	113	0.736	149	0.277	185	0.571	221	0.377	257	0.801	293	0.978	329	0.906
6	0.853	42	0.958	78	0.928	114	0.728	150	0.279	186	0.565	222	0.394	258	0.806	294	0.982	330	0.902
7	0.853	43	0.963	79	0.922	115	0.719	151	0.283	187	0.557	223	0.411	259	0.810	295	0.985	331	0.897
8	0.853	44	0.968	80	0.916	116	0.710	152	0.289	188	0.549	224	0.428	260	0.815	296	0.988	332	0.893
9	0.853	45	0.972	81	0.911	117	0.700	153	0.298	189	0.540	225	0.446	261	0.819	297	0.991	333	0.888
10	0.853	46	0.976	82	0.905	118	0.690	154	0.308	190	0.530	226	0.463	262	0.824	298	0.994	334	0.884
11	0.853	47	0.980	83	0.899	119	0.679	155	0.319	191	0.519	227	0.481	263	0.828	299	0.996	335	0.881
12	0.853	48	0.984	84	0.894	120	0.668	156	0.332	192	0.507	228	0.498	264	0.833	300	0.997	336	0.877
13	0.854	49	0.987	85	0.888	121	0.656	157	0.346	193	0.494	229	0.515	265	0.837	301	0.999	337	0.874
14	0.855	50	0.990	86	0.883	122	0.644	158	0.360	194	0.481	230	0.532	266	0.842	302	0.999	338	0.871
15	0.855	51	0.993	87	0.877	123	0.631	159	0.375	195	0.467	231	0.548	267	0.846	303	1.000	339	0.868
16	0.856	52	0.995	88	0.872	124	0.618	160	0.391	196	0.453	232	0.564	268	0.851	304	1.000	340	0.866
17	0.858	53	0.997	89	0.867	125	0.604	161	0.406	197	0.438	233	0.579	269	0.856	305	1.000	341	0.864
18	0.859	54	0.998	90	0.862	126	0.589	162	0.422	198	0.422	234	0.594	270	0.861	306	0.999	342	0.862
19	0.861	55	0.999	91	0.857	127	0.574	163	0.437	199	0.407	235	0.609	271	0.866	307	0.998	343	0.860
20	0.863	56	1.000	92	0.852	128	0.559	164	0.452	200	0.392	236	0.623	272	0.871	308	0.996	344	0.859
21	0.865	57	1.000	93	0.847	129	0.543	165	0.466	201	0.376	237	0.636	273	0.876	309	0.995	345	0.858
22	0.867	58	1.000	94	0.842	130	0.527	166	0.480	202	0.361	238	0.649	274	0.881	310	0.992	346	0.857
23	0.870	59	0.999	95	0.837	131	0.510	167	0.494	203	0.347	239	0.661	275	0.886	311	0.990	347	0.856
24	0.873	60	0.998	96	0.832	132	0.493	168	0.506	204	0.333	240	0.673	276	0.892	312	0.987	348	0.855
25	0.877	61	0.997	97	0.828	133	0.476	169	0.518	205	0.320	241	0.684	277	0.897	313	0.983	349	0.855
26	0.880	62	0.995	98	0.823	134	0.459	170	0.529	206	0.309	242	0.694	278	0.902	314	0.980	350	0.854
27	0.884	63	0.993	99	0.818	135	0.441	171	0.539	207	0.299	243	0.704	279	0.908	315	0.976	351	0.854
28	0.888	64	0.990	100	0.814	136	0.424	172	0.549	208	0.291	244	0.714	280	0.913	316	0.972	352	0.854
29	0.892	65	0.988	101	0.809	137	0.407	173	0.557	209	0.284	245	0.723	281	0.919	317	0.967	353	0.854
30	0.897	66	0.984	102	0.804	138	0.390	174	0.564	210	0.281	246	0.731	282	0.925	318	0.963	354	0.854
31	0.902	67	0.981	103	0.799	139	0.373	175	0.570	211	0.279	247	0.740	283	0.930	319	0.958	355	0.854
32	0.907	68	0.977	104	0.794	140	0.357	176	0.575	212	0.280	248	0.747	284	0.935	320	0.953	356	0.853
33	0.912	69	0.973	105	0.788	141	0.342	177	0.580	213	0.283	249	0.754	285	0.941	321	0.948	357	0.853
34	0.917	70	0.969	106	0.783	142	0.328	178	0.582	214	0.289	250	0.761	286	0.946	322	0.943	358	0.853
35	0.922	71	0.964	107	0.777	143	0.315	179	0.584	215	0.297	251	0.768	287	0.951	323	0.937	359	0.853

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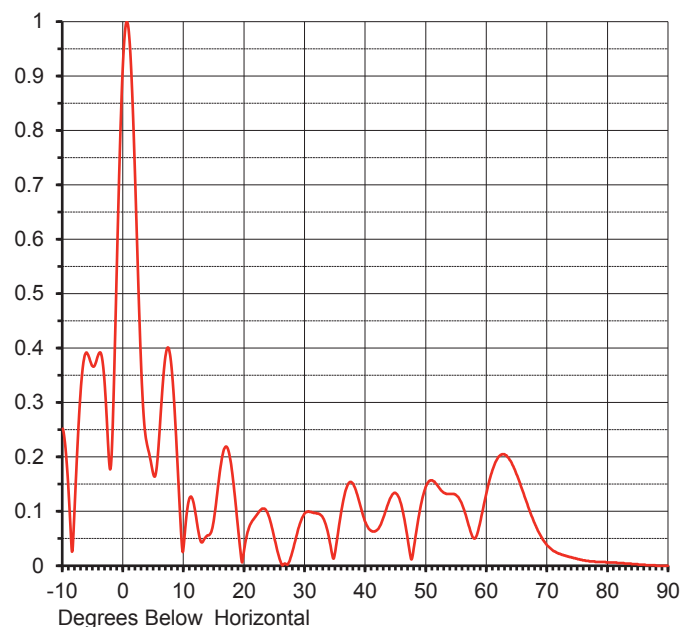
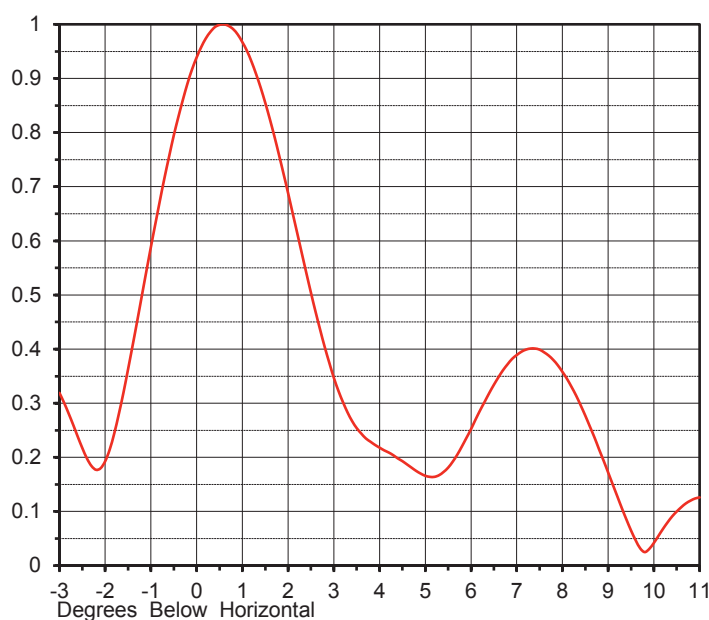
EXHIBIT E

ELEVATION PATTERN

Proposal No. **C-71120-2**
 Date **29-May-18**
 Call Letters **KUBE**
 Channel **41**
 Frequency **635 MHz**
 Antenna Type **TFU-16WB-R C160**

RMS Directivity at Main Lobe **13.7 (11.35 dB)**
 RMS Directivity at Horizontal **12.0 (10.79 dB)**
Calculated

Beam Tilt **0.55 deg**
 Pattern Number **16W137055**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.252	10.0	0.042	30.0	0.097	50.0	0.147	70.0	0.037
-9.0	0.126	11.0	0.126	31.0	0.099	51.0	0.157	71.0	0.027
-8.0	0.120	12.0	0.090	32.0	0.096	52.0	0.145	72.0	0.022
-7.0	0.330	13.0	0.043	33.0	0.087	53.0	0.134	73.0	0.018
-6.0	0.391	14.0	0.056	34.0	0.048	54.0	0.132	74.0	0.015
-5.0	0.366	15.0	0.090	35.0	0.028	55.0	0.129	75.0	0.012
-4.0	0.391	16.0	0.179	36.0	0.102	56.0	0.110	76.0	0.010
-3.0	0.319	17.0	0.219	37.0	0.148	57.0	0.074	77.0	0.008
-2.0	0.193	18.0	0.168	38.0	0.149	58.0	0.050	78.0	0.007
-1.0	0.589	19.0	0.061	39.0	0.115	59.0	0.085	79.0	0.007
0.0	0.939	20.0	0.034	40.0	0.079	60.0	0.137	80.0	0.006
1.0	0.967	21.0	0.077	41.0	0.064	61.0	0.178	81.0	0.006
2.0	0.688	22.0	0.093	42.0	0.067	62.0	0.201	82.0	0.005
3.0	0.347	23.0	0.105	43.0	0.091	63.0	0.204	83.0	0.004
4.0	0.218	24.0	0.091	44.0	0.123	64.0	0.191	84.0	0.003
5.0	0.166	25.0	0.047	45.0	0.133	65.0	0.166	85.0	0.002
6.0	0.252	26.0	0.006	46.0	0.106	66.0	0.135	86.0	0.002
7.0	0.389	27.0	0.002	47.0	0.044	67.0	0.103	87.0	0.001
8.0	0.358	28.0	0.030	48.0	0.037	68.0	0.075	88.0	0.000
9.0	0.172	29.0	0.072	49.0	0.105	69.0	0.053	89.0	0.000
								90.0	0.000

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POWER DENSITY CALCULATION
PROPOSED KUBE-DT STA REQUEST
CHANNEL 41 – BAYTOWN, TEXAS

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Baytown facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 600 kW, an antenna radiation center 503.6 meters above ground, and the specific elevation pattern of the proposed Dielectric TFU-16WB-R C160 antenna, maximum power density two meters above ground of 0.0026 mW/cm^2 is calculated to occur 256 meters north of the base of the tower. Since this is only 0.6 percent of the 0.42 mW/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 41 (632-638 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.