

ENGINEERING STATEMENT
MODIFICATION OF CONSTRUCTION PERMIT
(FCC FILE NO. BMPCDT-20050701ACD)
ON BEHALF OF
NEXSTAR BROADCASTING, INC.
KTAL-DT, TEXARKANA, TEXAS
CHANNEL 15 1000 KW ERP ND 454.3 METERS HAAT

JANUARY 2007

COHEN, DIPPELL AND EVERIST, P.C.
CONSULTING ENGINEERS
RADIO AND TELEVISION
WASHINGTON, D.C.

COHEN, DIPPELL AND EVERIST, P. C.

City of Washington)
) ss
District of Columbia)

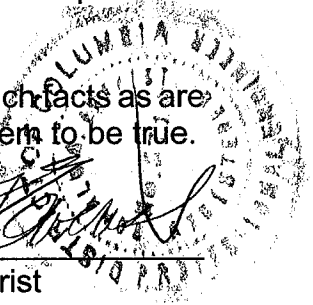
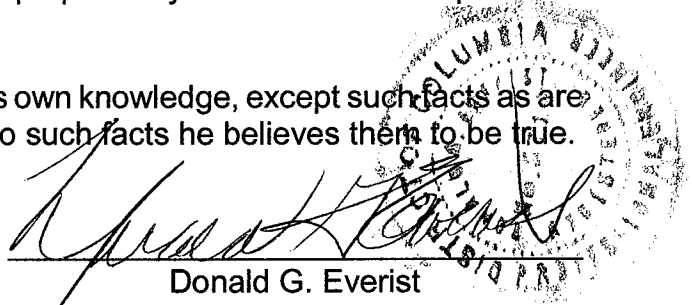
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer, a Registered Professional Engineer in the District of Columbia, and is President, Secretary and Treasurer of Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

That his qualifications are a matter of record in the Federal Communications Commission;

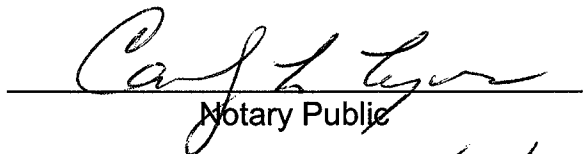
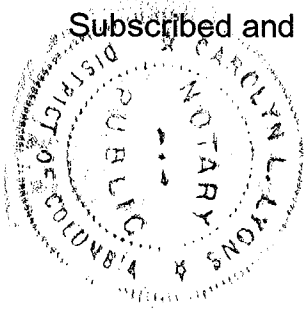
That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.



Donald G. Everist
District of Columbia
Professional Engineer
Registration No. 5714

Subscribed and sworn to before me this 28th day of January, 2007.



Notary Public

My Commission Expires: 2/28/2008

COHEN, DIPPELL AND EVERIST, P. C.

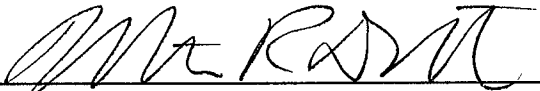
City of Washington)
) ss
District of Columbia)

Martin R. Doczkat being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer of the Pennsylvania State University, and is a staff engineer at Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

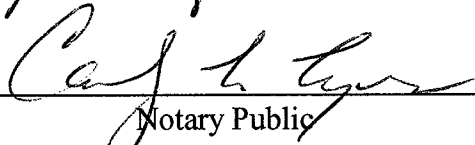
That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.



Martin R. Doczkat

Subscribed and sworn to before me this 22nd day of January, 2007.



Notary Public

My Commission Expires: 2/28/2008

This engineering statement has been prepared on behalf of Nexstar Broadcasting, Inc., licensee of KTAL-TV, Texarkana, Texas. The purpose of this engineering statement is to accompany its request to modify its outstanding construction permit for digital television ("DTV") facilities (FCC File No. BMPCDT-20050701ACD) and to supplement those data required in FCC Form 301, Section III-D.

KTAL-TV operates on NTSC Television Channel 6 with a maximum visual horizontal effective radiated power ("ERP") of 100 kW non-directional (horizontal polarization) at a height above average terrain ("HAAT") of 482 meters. KTAL-DT has been allocated DTV Channel 15 with facilities of 1000 kW at a HAAT of 482 meters in the revised DTV Table of Allotments.¹ KTAL-DT has been authorized facilities of 1000 kW non-directional ERP at a HAAT of 462.5 meters in the outstanding construction permit. KTAL-DT herein proposes to construct DTV facilities of 1000 kW non-directional (horizontal polarization) at a HAAT of 454.3 meters.

There is one AM station, KNCB(AM), located within 3.22 km of the existing KTAL-DT tower site. However, the proposed side-mounted operation of KTAL-DT will not change the electrical height of the tower. There is one FM and one full-service NTSC station, KTAL-FM and KTAL-TV, located and transmitting within 100 meters of this site.

The DTV antenna will be side-mounted on an existing tower having a total overall structure height above ground of 534.3 meters (1753 feet). The existing transmitter site is located on Old Atlanta Highway, Vivian, Louisiana.

¹"In the Matter of Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service", MM Docket No. 87-286, Memorandum Opinion and Order on Reconsideration of the Sixth Report and Order (FCC 98-24), 2/12/98, DTV Table of Allotments, Appendix B.

Since there is no change in overall height, FAA airspace approval is not required. The tower registration number of the existing tower is 1025912. Exhibit E-1 is a diagram of the tower and transmitting antenna.

The geographic coordinates of the existing site are:

North Latitude: 32° 54' 11"

West Longitude: 94° 00' 20"

NAD-27

Equipment Data

Antenna: Dielectric, Type TFU32DSB-R O3 (or equivalent) horizontally polarized antenna with 0.75° electrical beam tilt. The vertical plane pattern and other exhibits required by Section 73.625(c) are herein included in Exhibit E-2.

Power Data

Transmitter output	45.0 kW	16.53 dBk
Dielectric 6-1/8", 75 ohm or equivalent—length 456 meters (1496 ft)	69.5%	1.58 dB
Input power to the antenna	31.3 kW	14.95 dBk
Antenna power gain, Main Lobe	32	15.05 dB
Effective Radiated Power, Maximum	1000 kW	30 dBk

Elevation Data

Overall height above ground of the antenna structure (including beacon and lightning protection)	534.3 meters 1753 feet
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Center of radiation of Channel 15 antenna above ground	435.9 meters 1430 feet
Elevation of site above mean sea level	90.2 meters 296 feet
Center of radiation of Channel 15 antenna above mean sea level	526.1 meters 1726 feet
Overall height above mean sea level of the tower (including beacon)	624.5 meters 2049 feet
Antenna height above average terrain	454.3 meters

NOTE: Slight height differences result due to conversion to metric.

Allocation

An allocation spacing study from the proposed site has not been performed as the proposed DTV facilities are to be located at the coordinates authorized by the outstanding construction permit (FCC File No. BMPCDT-20050701ACD).

Coverage

The average elevation data for 3.2 to 16.1 km along each radial has been determined from FCC 3-second NGDC data. The F(50,90) DTV coverage contour has been computed from reference to the propagation data for Channels 14-69, as published by the FCC in Figure 10b and Figure 10c, Section 73.699 of the FCC Rules and Regulations. Utilizing the formula in Section 73.625(b)(2) of the Rules for the effective heights, it is found that the depression angle, A_h , varies from 0.581 to 0.598 degrees. Since the relative vertical field is greater than 90% of the maximum at these depression angles, the maximum power was used in determining the distance to the DTV contour.

Table I includes the distances to the city F(50,90) coverage contour, the average elevation 3.2 to 16.1 km, and the antenna height above average terrain for the eight cardinal radials.

Interference Analysis

An analysis of predicted interference caused by the proposed KTAL -DT service has been performed even as the proposed F(50,90) 41 dBu contour is not predicted to extend in any direction beyond that authorized by the F(50,90) 41 dBu contour of the outstanding construction permit (see Exhibit E-4).

The interference analysis used the FCC's FORTRAN-77 code which was modified only to the extent necessary (primarily input/output handling) for the program to run on a Windows 98/Intel platform. Comparison of service/interference areas and populations indicates that this model closely matches the FCC's evaluation program. Best efforts have been made to use data and calculations identical to the FCC's program. Any slight differences are attributable to compiler, operating system and/or processor characteristics. The effect of any variance in calculated population values versus the FCC's program is minimized when differencing a given model's results, such as calculating new interference as total interference less baseline interference. Any variance effect is further reduced when using ratios of calculated population values such as measuring the incremental population affected as a percent of the total population served. The model employs the Longley-Rice propagation methodology and evaluates in grid cells of approximately 4 km² using 3-second terrain data sampled approximately every 1.0 km at one degree azimuth intervals with 2000 Census centroids.

Stations were selected from the FCC's Consolidated Database System ("CDBS") according to the FCC Public Notice dated August 10, 1998 and entitled, "Additional Application Processing Guidelines for Digital Television", which outlines the station selection criteria "culling distances" for considering potential interference scenarios.

Table II provides a summary of the Longley-Rice interference analysis and demonstrates that no new interference is caused by the proposed operation of KTAL-DT to any potentially affected facility above the outstanding construction permit.

Other Licensed and Broadcast Facilities

No adverse technical effect is anticipated by the proposed DTV operation to any other FCC licensed facility. If required, the applicant will install filters or take other measures as necessary to resolve the problem.

FCC Rule, Section 1.1307

The proposed 1000 kW operation will utilize a Dielectric, Type TFU32DSB-R O3 antenna or the equivalent as described above with a center of radiation above ground of 435.9 meters. The proposed antenna will be side-mounted on a single guyed, uniform, cross-section, steel lattice tower with an overall height of 534.3 meters AGL.

As previously indicated, there is one AM station, KNCB(AM), located within 3.22 km of the existing tower site. According to the FCC data base with the exception of KTAL-FM and KTAL-TV, there are no other stations located within 100 meters. The property on which the proposed tower is located is on Old Atlanta Highway, Vivian, Louisiana. Access to the tower will be prevented by a fence with a locked gate.

The proposed operation based upon the current OET Bulletin No. 65, Edition No. 97-01, dated August 1997 and Supplement A meets the provisions of the FCC radio frequency field ("RFF") guidelines, and thus, complies with Section 1.1307 of the FCC Rules.

For NTSC, KTAL-TV employs a non-directional horizontally polarized antenna with a center of radiation of over 462 meters above ground level. It is assumed that this antenna has a maximum relative field value of less than 0.2 towards the ground in the vicinity of the tower (from 60° to 90° below the horizontal). Using this relative field factor and the procedures prescribed in OET Bulletin No. 65, the maximum RFF resulting from the present NTSC operation at two meters above the base of the tower is calculated to be less than 0.4 $\mu\text{W}/\text{cm}^2$. This is less than 0.2% of the 200 $\mu\text{W}/\text{cm}^2$ maximum uncontrolled exposure to RFF recommended by the current FCC guidelines for the general population.

For FM, KTAL-FM employs a non-directional elliptically polarized antenna (100 kW horizontal ERP, 61 kW vertical ERP) with a center of radiation of 431 meters above ground level. It is assumed that this antenna has a maximum relative field value of less than 0.3 towards the ground in the vicinity of the tower (60° to 90° below the horizontal). Using the relative field factor and the procedures prescribed in OET Bulletin No. 65, the maximum RFF resulting from the present NTSC operation at two meters above the base of the tower is calculated to be less than 2.6 $\mu\text{W}/\text{cm}^2$. This is less than 1.3% of the 200 $\mu\text{W}/\text{cm}^2$ maximum uncontrolled exposure to RFF recommended by the current FCC guidelines for the general population.

The elevation pattern for the proposed KTAL-DT antenna for DTV operation shows a maximum relative field of less than 0.1 towards the ground in the vicinity of the tower (from 60° to 90° below the horizontal). The center of radiation of the DTV antenna is 435.9 meters. Using a relative field factor of 0.1 and the procedures prescribed in OET Bulletin 65, the maximum RFF resulting from the proposed operation is less than 1.8 $\mu\text{W}/\text{cm}^2$. This is less than 0.6% of the 319.3 $\mu\text{W}/\text{cm}^2$ maximum human exposure to RFF recommended by the current FCC guidelines for the general public.

The total contribution by the KTAL-TV and KTAL-FM NTSC and the KTAL-DT proposed DTV operations at 2 meters above ground level is less than 2.1% of the current FCC guidelines for general population exposure.

Authorized personnel and rigging contractors will be alerted to the potential zone of high radiation on the tower, and if necessary, the station will operate with reduced power or terminate the operation of the transmitter as appropriate when it is necessary for authorized personnel or contractors to perform work on the tower. Workers and the general public, therefore, will not be subjected to RFF levels in excess of the current FCC guidelines.

An environmental assessment ("EA") is categorically excluded under Section 1.1306 of the FCC Rules and Regulations as the tower was constructed prior to the requirements specified in WT Docket No. 03-128 and the permittee indicates:

- (a)(1) The existing tower is not located in an officially designated wilderness area.
- (a)(2) The existing tower is not located in an officially designated wildlife preserve.

- (a)(3) The proposed facilities will not affect any listed threatened or endangered species or habitats.
- (a)(3)(ii) The proposed facilities will not jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats.
- (a)(4) The proposed facilities will be located on a tower which was built prior to the adoption of WT Docket No. 03-128 and will not affect any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.
- (a)(5) The existing tower is not located near any known Indian religious sites.
- (a)(6) The existing tower is not located in a flood plain.
- (a)(7) The installation of the DTV facilities on an existing tower will not involve a significant change in surface features of the ground in the vicinity of the tower.
- (a)(8) It is not proposed to equip the tower with high intensity white lights unless required by the FAA.
- (b) Workers and the general public will not be subjected to RFF levels in excess of the current FCC guidelines in accordance with OET Bulletin No. 65, Edition 97-01, dated August 1997 and Supplement A.

ABOVE MEAN SEA LEVEL

ABOVE GROUND

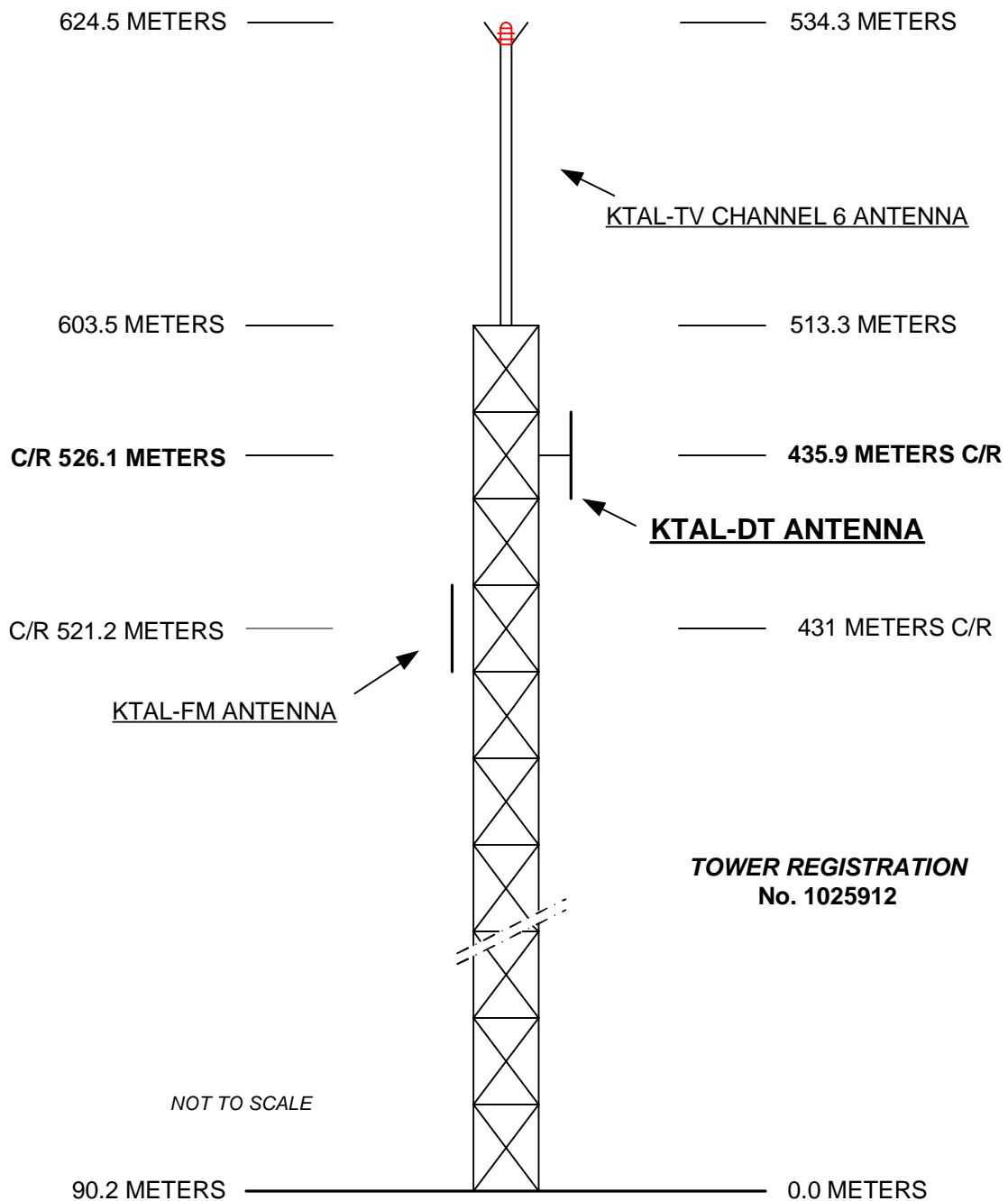


EXHIBIT E-1
VERTICAL SKETCH
FOR THE PROPOSED OPERATION OF
KTAL-DT, TEXARKANA, TEXAS
JANUARY 2007

Cohen, Dippell and Everist, P.C.

EXHIBIT E-2

ANTENNA MANUFACTURER DATA

KTAL-DT, TEXARKANA, TEXAS



Proposal #: **DCA-11268-1** Antenna Type: **TFU-32DSB-R O3**
 Call Letters: **KTAL-DT** Location: **Texarkana, TX**

Channel: **15 DTV**

Electrical Specifications		Value		Remarks	
		Ratio	dB		
RMS Gain at Main Lobe over Halfwave Dipole	Hpol	32.0	15.05		
	Vpol				
RMS Gain at Horizontal over Halfwave Dipole	Hpol	14.2	11.52		
	Vpol				
Peak Directional Gain over Halfwave Dipole	Hpol				
	Vpol				
Peak Directional Gain at Horizontal over Halfwave Dipole	Hpol				
	Vpol				
Circularity		+/- 1.0 dB		In free space	
Axial Ratio		dB			
Beam Tilt		0.75 deg			
Average Power	DTV	35 kW	15.44 dBk		
Antenna Input:	T/L	6-1/8 in	75.0 ohm	Type: EIA/DCA	
Maximum Antenna Input VSWR		Channel	1.08 : 1	Notes: Feed system is 3-1/8 FLEXLine®	
Patterns	Azimuth	TFU-O3-4790			
	Elevation	32B320075	32B320075-90		
Mechanical Specifications		Metric	English	Preliminary	1/2 inch ice
Height with Lightning Protector	H4	m	ft	Side mounted	
Height Less Lightning Protector	H2	22.9 m	75.2 ft		
Height of Center of Radiation	H3	11.5 m	37.6 ft		
Basic Wind Speed	V	112.7 km/h	70 mi/h	TIA/EIA-222-F.	
Force Coeff. x Projected Area	CaAc	14.63 m²	157.5 ft²	Excludes Mounts	185.3 ft²
Moment Arm	D1	m	ft		
Force Coeff. x Projected Area	CaAc	m²	ft²		
Moment Arm	D3	m	ft		
Pole Bury Length	D2	m	ft		
Weight	W	0.8 t	1,870 lbs	Excludes Mounts	2,800 lbs
Radome					
Antenna designed in accordance with AISC specifications for design of structural steel for building as prescribed by TIA/EIA-222-F.					

NOTE:

Prepared By :

SWB

Original Date : 9-Nov-05

Revision: 1

Approved By :

JLS

Rev. Date: 16-Nov-05

SWB

Steve
Brower

Digitally signed by Steve Brower
 DN: CN = Steve Brower, C =
 US, O = Dielectric, OU = Sales
 Reason: I am the author of this
 document
 Date: 2005.11.16 08:20:25 -
 05'00'



DTV SIDE MOUNTED ANTENNA
TFU-32DSB-R O3
KTAL-DT: Texarkana, TX

MECHANICAL DATA

CaAc = 157.5 ft² Excludes Mounts

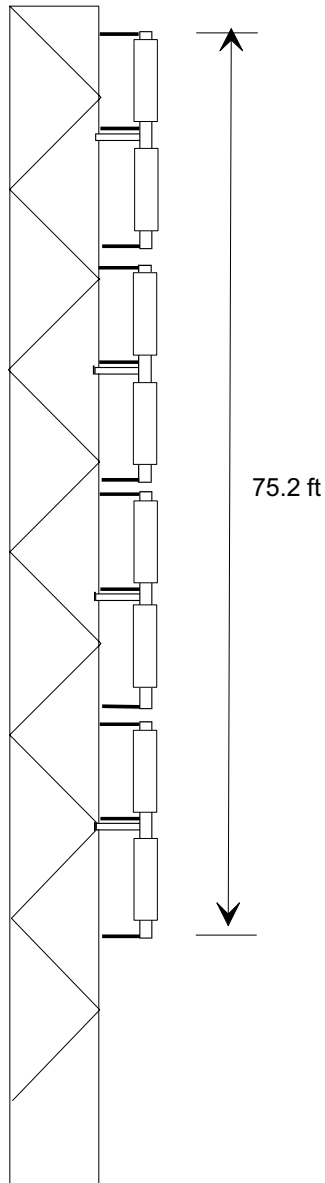
Weight = 1870 lbs Excludes Mounts

TIA/EIA-222-F
(70 mi/h basic wind speed)

With 1/2 inch ice

CaAc = 185.3 ft² Excludes Mounts

Weight = 2,800 lbs Excludes Mounts



CH d15
TFU-32DSB-R O3

SWB-051110-2SK

NOT DRAWN TO SCALE



Proposal Number	DCA-11268	Revision:	1
Date	16-Nov-05		
Call Letters	KTAL-DT	Channel	15
Location	Texarkana, TX		
Customer			
Antenna Type	TFU-32DSB-R O3		

ELEVATION PATTERN

RMS Gain at Main Lobe	32.00 (15.05 dB)
RMS Gain at Horizontal	14.20 (11.52 dB)
Calculated / Measured	Calculated

Beam Tilt	0.75 deg
Frequency	479.00 MHz
Drawing #	32B320075

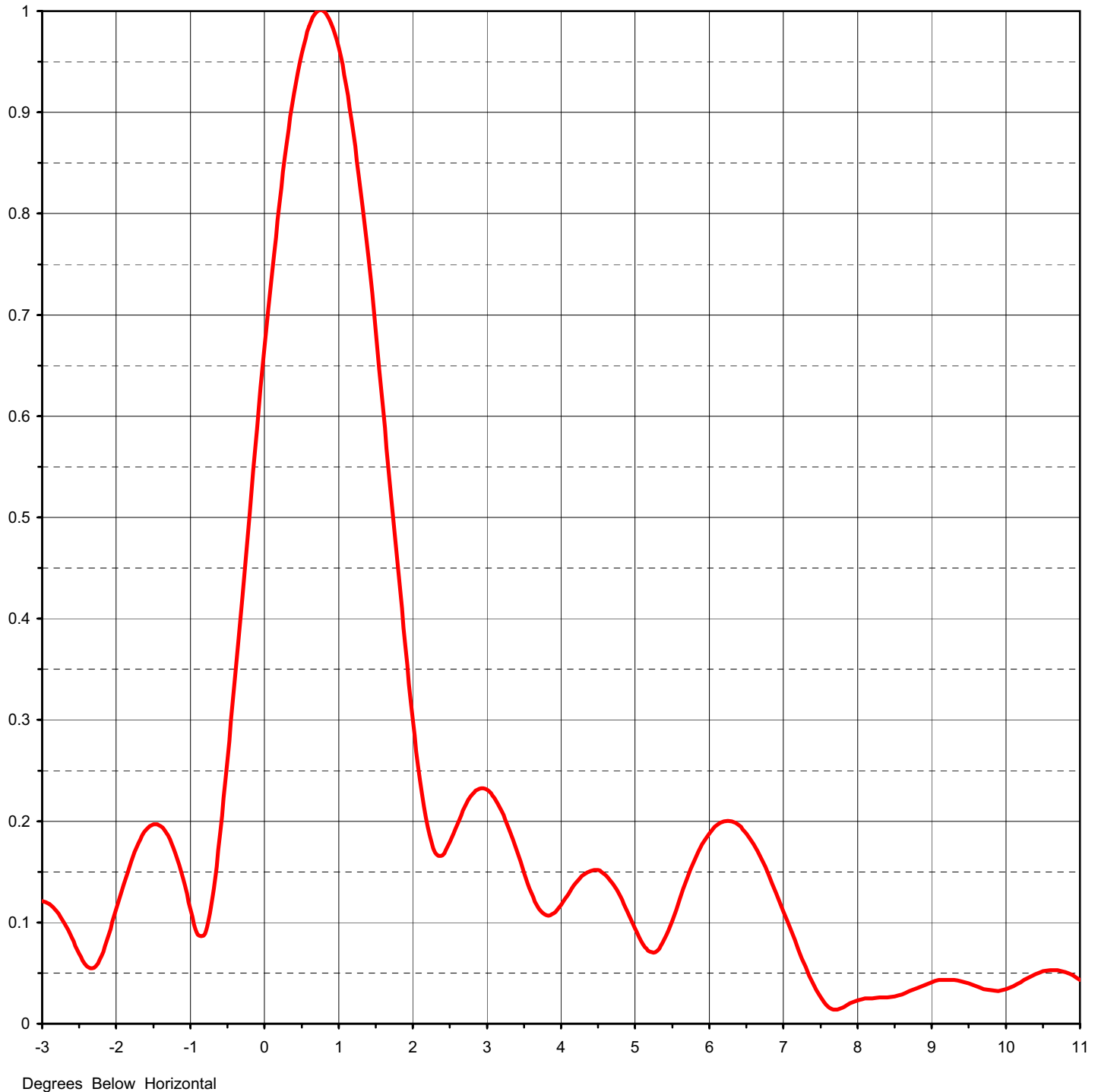
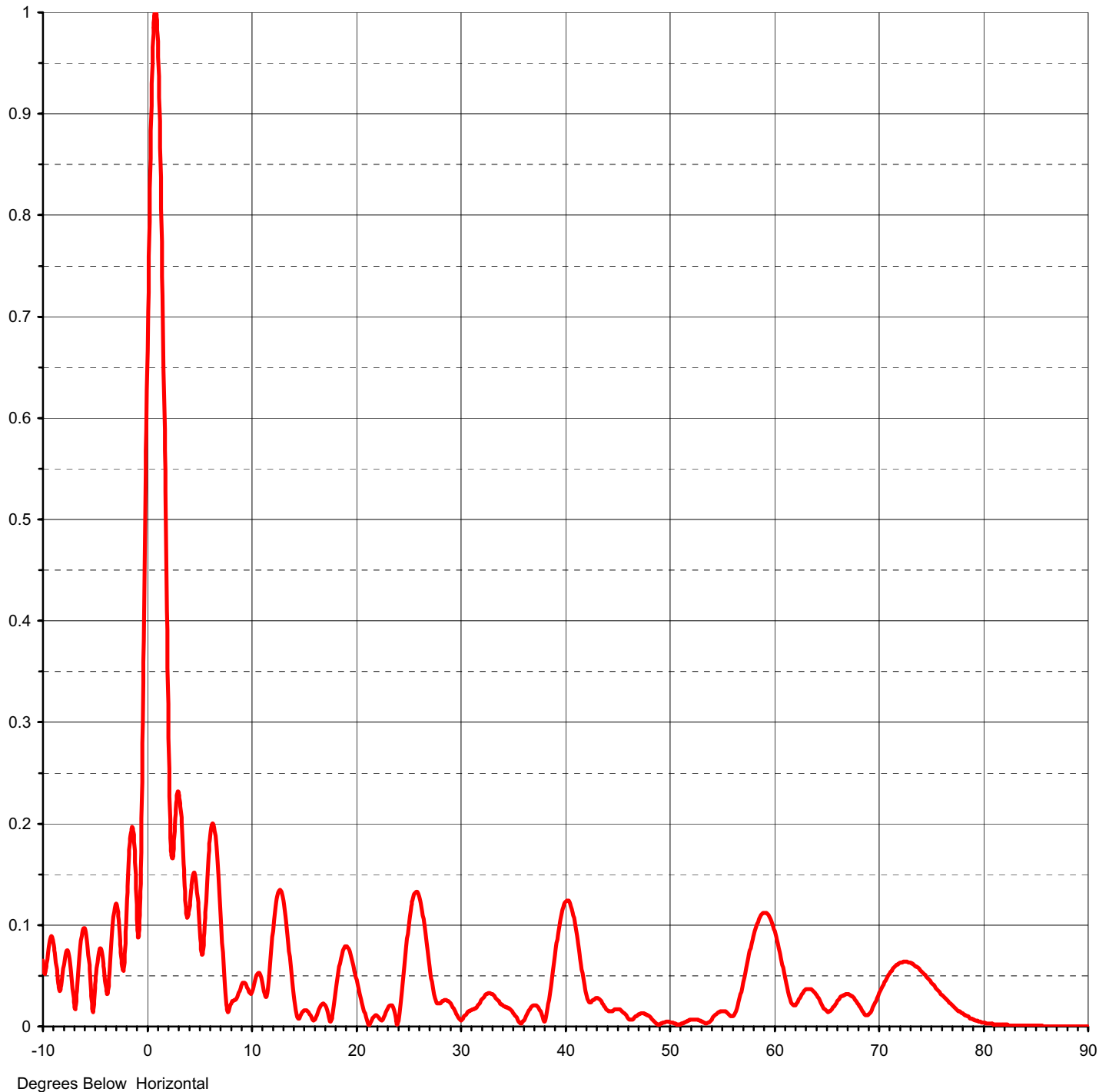




EXHIBIT E-2d

Proposal Number	DCA-11268	Revision:	1
Date	16-Nov-05		
Call Letters	KTAL-DT	Channel	15
Location	Texarkana, TX		
Customer			
Antenna Type	TFU-32DSB-R O3		

ELEVATION PATTERN

RMS Gain at Main Lobe **32.00 (15.05 dB)**RMS Gain at Horizontal **14.20 (11.52 dB)**Calculated / Measured **Calculated**Beam Tilt **0.75 deg**Frequency **479.00 MHz**Drawing # **32B320075-90**



Proposal Number **DCA-11268** Revision: **1**
 Date **16-Nov-05**
 Call Letters **KTAL-DT** Channel **15**
 Location **Texarkana, TX**
 Customer
 Antenna Type **TFU-32DSB-R 03**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **32B320075-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.065	2.4	0.166	10.6	0.052	30.5	0.011	51.0	0.002	71.5	0.059
-9.5	0.075	2.6	0.197	10.8	0.053	31.0	0.016	51.5	0.004	72.0	0.063
-9.0	0.083	2.8	0.226	11.0	0.048	31.5	0.018	52.0	0.007	72.5	0.064
-8.5	0.039	3.0	0.231	11.5	0.030	32.0	0.025	52.5	0.007	73.0	0.063
-8.0	0.061	3.2	0.210	12.0	0.082	32.5	0.032	53.0	0.006	73.5	0.059
-7.5	0.070	3.4	0.171	12.5	0.128	33.0	0.032	53.5	0.003	74.0	0.055
-7.0	0.019	3.6	0.129	13.0	0.129	33.5	0.027	54.0	0.006	74.5	0.049
-6.5	0.069	3.8	0.107	13.5	0.090	34.0	0.022	54.5	0.012	75.0	0.043
-6.0	0.097	4.0	0.117	14.0	0.039	34.5	0.019	55.0	0.015	75.5	0.037
-5.5	0.049	4.2	0.139	14.5	0.008	35.0	0.015	55.5	0.014	76.0	0.031
-5.0	0.038	4.4	0.151	15.0	0.015	35.5	0.007	56.0	0.010	76.5	0.026
-4.5	0.077	4.6	0.147	15.5	0.014	36.0	0.005	56.5	0.018	77.0	0.021
-4.0	0.040	4.8	0.126	16.0	0.006	36.5	0.014	57.0	0.039	77.5	0.016
-3.5	0.075	5.0	0.094	16.5	0.017	37.0	0.021	57.5	0.063	78.0	0.013
-3.0	0.121	5.2	0.071	17.0	0.022	37.5	0.019	58.0	0.086	78.5	0.010
-2.8	0.111	5.4	0.084	17.5	0.008	38.0	0.006	58.5	0.103	79.0	0.007
-2.6	0.085	5.6	0.123	18.0	0.027	38.5	0.026	59.0	0.112	79.5	0.005
-2.4	0.057	5.8	0.161	18.5	0.062	39.0	0.063	59.5	0.110	80.0	0.004
-2.2	0.067	6.0	0.188	19.0	0.079	39.5	0.099	60.0	0.098	80.5	0.003
-2.0	0.113	6.2	0.200	19.5	0.072	40.0	0.121	60.5	0.077	81.0	0.002
-1.8	0.160	6.4	0.196	20.0	0.051	40.5	0.122	61.0	0.053	81.5	0.002
-1.6	0.191	6.6	0.177	20.5	0.028	41.0	0.101	61.5	0.030	82.0	0.002
-1.4	0.195	6.8	0.147	21.0	0.009	41.5	0.067	62.0	0.021	82.5	0.001
-1.2	0.168	7.0	0.111	21.5	0.005	42.0	0.035	62.5	0.028	83.0	0.001
-1.0	0.113	7.2	0.073	22.0	0.011	42.5	0.024	63.0	0.036	83.5	0.001
-0.8	0.089	7.4	0.040	22.5	0.006	43.0	0.028	63.5	0.037	84.0	0.001
-0.6	0.188	7.6	0.017	23.0	0.016	43.5	0.025	64.0	0.033	84.5	0.001
-0.4	0.339	7.8	0.016	23.5	0.021	44.0	0.017	64.5	0.022	85.0	0.001
-0.2	0.505	8.0	0.023	24.0	0.002	44.5	0.015	65.0	0.015	85.5	0.001
0.0	0.667	8.2	0.025	24.5	0.041	45.0	0.017	65.5	0.017	86.0	0.000
0.2	0.810	8.4	0.026	25.0	0.091	45.5	0.015	66.0	0.025	86.5	0.000
0.4	0.919	8.6	0.029	25.5	0.126	46.0	0.009	66.5	0.030	87.0	0.000
0.6	0.985	8.8	0.035	26.0	0.131	46.5	0.007	67.0	0.032	87.5	0.000
0.8	1.000	9.0	0.041	26.5	0.106	47.0	0.011	67.5	0.029	88.0	0.000
1.0	0.964	9.2	0.043	27.0	0.067	47.5	0.013	68.0	0.022	88.5	0.000
1.2	0.880	9.4	0.042	27.5	0.032	48.0	0.011	68.5	0.014	89.0	0.000
1.4	0.757	9.6	0.037	28.0	0.023	48.5	0.006	69.0	0.012	89.5	0.000
1.6	0.608	9.8	0.034	28.5	0.026	49.0	0.002	69.5	0.021	90.0	0.000
1.8	0.449	10.0	0.032	29.0	0.024	49.5	0.004	70.0	0.033		
2.0	0.301	10.2	0.037	29.5	0.016	50.0	0.005	70.5	0.044		
2.2	0.194	10.4	0.045	30.0	0.007	50.5	0.003	71.0	0.052		

Cohen, Dippell and Everist, P.C.

TABLE I
COMPUTED COVERAGE DATA
FOR THE PROPOSED DTV OPERATION OF
KTAL-DT, TEXARKANA, TEXAS
CHANNEL 15 1000 KW ERP 454.3 METERS HAAT
JANUARY 2007

Radial Bearing N ° E, T	Average* Elevation 3.2 to 16.1 km meters	Effective Height meters	Depression Angle	ERP At Radio Horizon kW	Distance to Contour F(50,90)	
					48 dBu City Grade km	41 dBu Noise-Limited km
0	68.3	457.8	0.593	1000	95.8	111.2
45	72.9	453.2	0.590	1000	95.5	110.8
90	59.6	466.5	0.598	1000	96.5	112.0
135	77.0	449.1	0.587	1000	95.2	110.5
180	60.7	465.4	0.598	1000	96.4	111.9
225	72.1	454.0	0.590	1000	95.5	110.9
270	78.4	447.7	0.586	1000	95.1	110.4
315	85.6	440.5	0.581	1000	94.5	109.8
Average	69.7	454.3				

*Based on data from FCC 3-second data base

DTV Channel 15 (476-482 MHz)
Average Elevation 3.2 to 16.1 km 71.8 meters AMSL
Center of Radiation 526.1 meters AMSL
Antenna Height Above Average Terrain 454.3 meters
Effective Radiated Power 1000 kW (30 dBk) mAX.

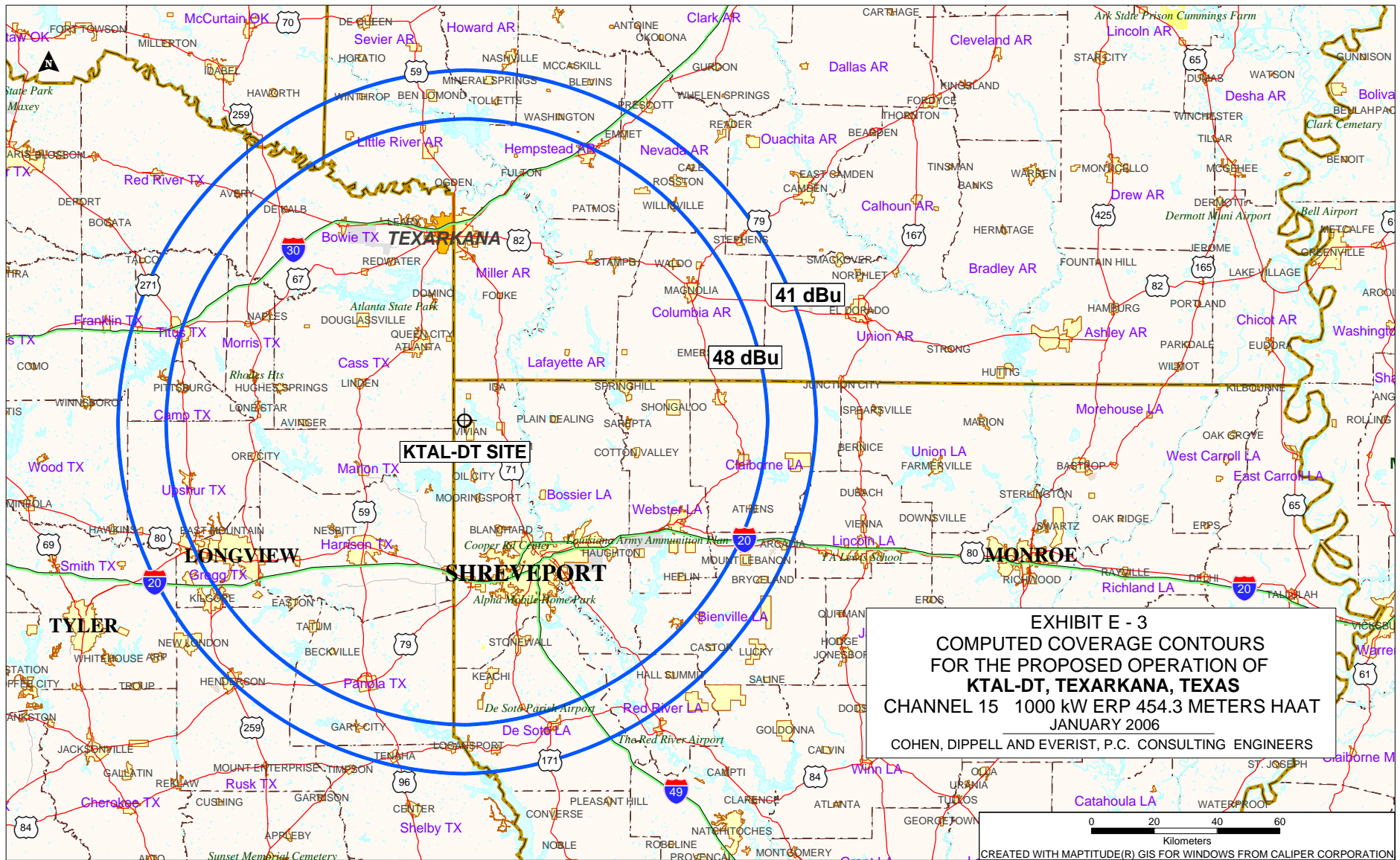
North Latitude: 32° 54' 11"
West Longitude: 94° 00' 20"

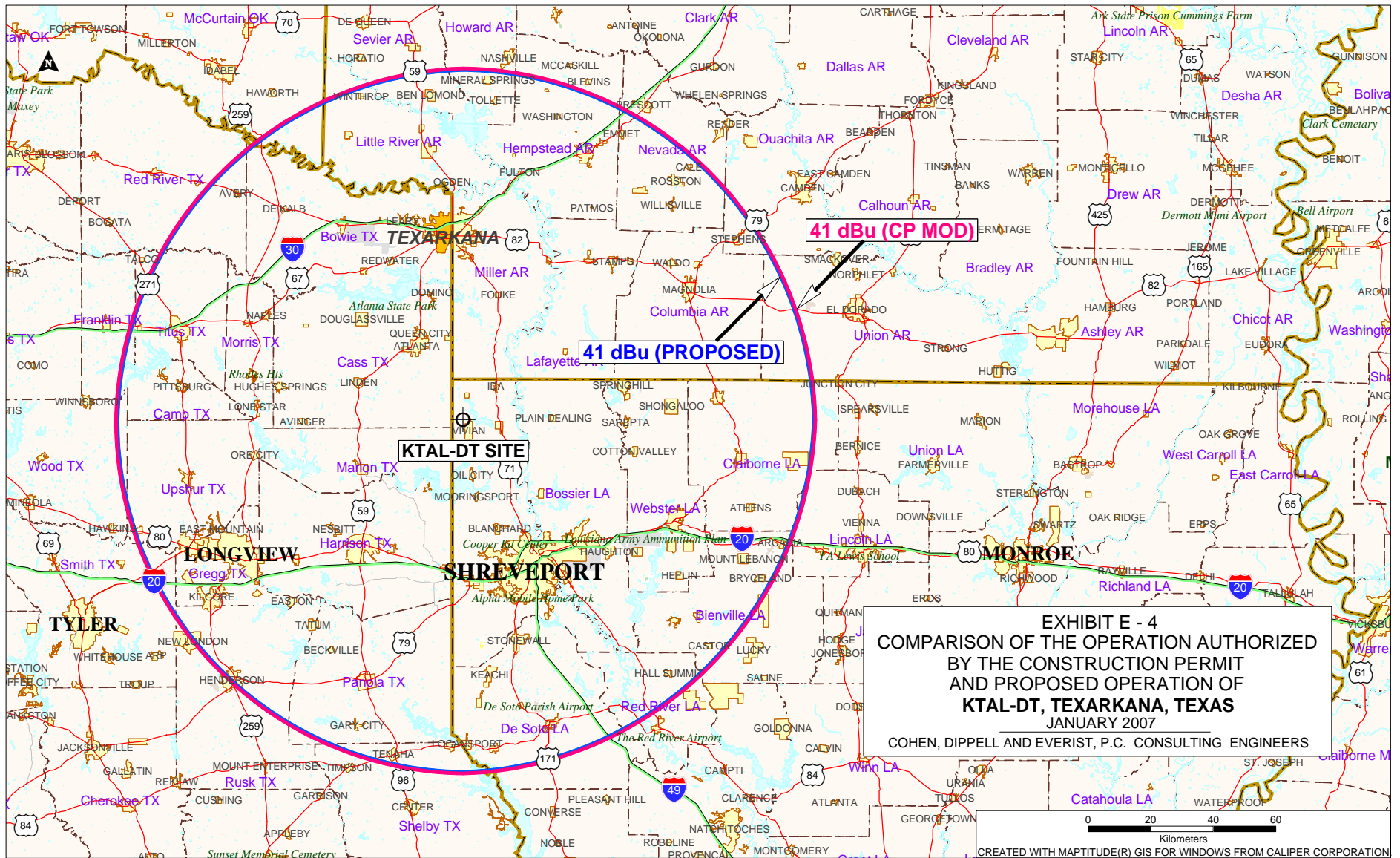
(NAD-27)

COHEN, DIPPELL AND EVERIST, P.C.

TABLE II
LONGLEY-RICE ANALYSIS
ABOVE THE OUTSTANDING CONSTRUCTION PERMIT
(FCC FILE NO. BMPCDT-20050701ACD)
FOR THE PROPOSED OPERATION OF
KTAL-DT, TEXARKANA, TEXAS
CHANNEL 15 1000 KW ERP ND 454.3 METERS HAAT
JANUARY 2007

<u>Channel</u>	<u>Call</u>	<u>City/State</u>	<u>Dist(km)</u>	<u>Status</u>	<u>Application Ref. No.</u>	<u>Result</u>
14	KVTH-DT	HOT SPRINGS AR	185.8	CP	BPCDT-19990924AAP	no interference
14	KVTH-DT	HOT SPRINGS AR	185.9	ALLOT		no interference
14	KARD(TV)	WEST MONROE LA	193.5	LIC	BLCT-19861204KF	no interference
14	960920LQ	TYLER TX	154.3	APP	BPCT-19960920LQ	0.00%
15	KHOG-DT	FAYETTEVILLE AR	346.1	LIC	BLCDT-20020904AAX	0.00%
15	KHOG-DT	FAYETTEVILLE AR	346.1	ALLOT		0.00%
15	KADN(TV)	LAFAYETTE LA	329.3	LIC	BLCT-19890313KI	no interference
15	KADO-LP	SHREVEPORT LA	50.8	LIC	BLTTL-19971117IQ	0.00%
15	WXVT(TV)	GREENVILLE MS	317.9	LIC	BLCT-19801031KF	no interference
15	WXVT(TV)	GREENVILLE MS	317.9	CP	BPCT-20041124AEU	no interference
15	KAMU-TV	COLLEGE STATION TX	335.5	LIC	BLET-329	0.00%
22	KMNO-LP	MONROE LA	179.2	LIC	BLTTL-19910520IV	0.00%
22	KMNO-LP	MONROE LA	179.2	CP	BPTTA-20040323AAB	no interference
23	KLMB-LP	EL DORADO AR	130.4	LIC	BLTTL-19990329JC	no interference
23	KJEP-CA	NASHVILLE AR	119.3	LIC	BLTTL-19960111AE	no interference
23	KJEP-CA	NASHVILLE AR	119.3	APP	BMJPTTL-20000808ABL	no interference





SECTION III-D - DTV Engineering

Complete Questions 1-5 of the Certification Checklist and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.

Certification Checklist: A correct answer of "Yes" to all of the questions below will ensure an expeditious grant of a construction permit. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.

1. The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:

- (a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622. ☐ Yes ☐ No
- (b) It will operate from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622. ☐ Yes ☐ No
- (c) It will operate with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622. ☐ Yes ☐ No
2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. ☐ Yes ☐ No

Applicant must **submit the Exhibit** called for in Item 13.

3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community. ☐ Yes ☐ No
4. The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable. ☐ Yes ☐ No
5. The antenna structure to be used by this facility has been registered by the Commission and will not require reregistration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7. ☐ Yes ☐ No

SECTION III-D DTV Engineering

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1. Channel Number: DTV _____ Analog TV, if any _____
2. Zone: ☐ I ☐ II ☐ III
3. Antenna Location Coordinates: (NAD 27)
- _____ ° _____ ' _____ " ☐ N ☐ S Latitude
_____ ° _____ ' _____ " ☐ E ☐ W Longitude
4. Antenna Structure Registration Number: _____
- ☐ Not applicable ☐ FAA Notification Filed with FAA
5. Antenna Location Site Elevation Above Mean Sea Level: _____ meters
6. Overall Tower Height Above Ground Level: _____ meters
7. Height of Radiation Center Above Ground Level: _____ meters
8. Height of Radiation Center Above Average Terrain: _____ meters
9. Maximum Effective Radiated Power (average power): _____ kW
10. Antenna Specifications:
- a.

Manufacturer	Model
--------------	-------
- b. Electrical Beam Tilt: _____ degrees ☐ Not Applicable
- c. Mechanical Beam Tilt: _____ degrees toward azimuth _____ degrees True ☐ Not Applicable
- Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). Exhibit No.
- d. Polarization: ☐ Horizontal ☐ Circular ☐ Elliptical

TECH BOX

e. Directional Antenna Relative Field Values: ☐ Not applicable (Nondirectional)

Rotation: _____ ° ☐ No rotation

Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value
0		60		120		180		240		300	
10		70		130		190		250		310	
20		80		140		200		260		320	
30		90		150		210		270		330	
40		100		160		220		280		340	
50		110		170		230		290		350	
Additional Azimuths											

If a directional antenna is proposed, the requirements of 47 C.F.R. Section 73.625(c) must be satisfied. **Exhibit required.**

Exhibit No.

11. Does the proposed facility satisfy the interference protection provisions of 47 C.F.R. Section 73.623(a)? (Applicable only if **Certification Checklist** Items 1(a), (b), or (c) are answered "No.") ☐ Yes ☐ No

If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.

Exhibit No.

12. If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefor. (Applicable only if **Certification Checklist** Item 3 is answered "No.")

Exhibit No.

13. **Environmental Protection Act. Submit in an Exhibit** the following:

Exhibit No.

- a. If **Certification Checklist** Item 2 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.

By checking "Yes" to **Certification Checklist** Item 2, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

If **Certification Checklist** Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R. Section 1.1311.

PREPARER'S CERTIFICATION IN SECTION III MUST BE COMPLETED AND SIGNED.

KTAL-DT


I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing	Typed or Printed Title of Person Signing
Signature	Date

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT
(U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT
(U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

SECTION III PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name Martin R. Doczkat	Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer	
Signature 	Date January 22, 2007	
Mailing Address Cohen, Dippell and Everist, P.C., 1300 L Street, NW, Suite 1100		
City Washington	State or Country (if foreign address) DC	ZIP Code 20005
Telephone Number (include area code) (202) 898-0111	E-Mail Address (if available) cde@attglobal.net	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT
(U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT
(U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).