

ENGINEERING STATEMENT
RE REQUEST FOR LICENSE TO COVER
ON BEHALF OF
RED RIVER BROADCAST COMPANY, LLC.
KDLT-DT, SIOUX FALLS, SOUTH DAKOTA
CHANNEL 47, 1000 KW ERP, 608 METERS HAAT

AUGUST 2005

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)

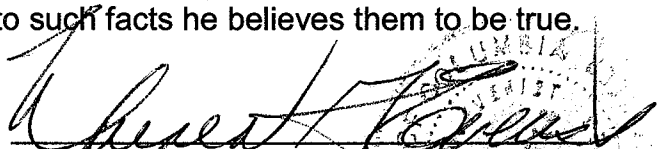
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

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;

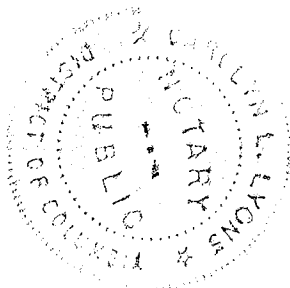
That his qualifications are a matter of record in the Federal Communications Commission;

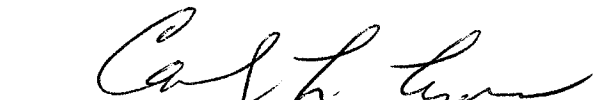
That the attached engineering report was prepared by him or under his supervision and direction and

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 19th day of August, 2005.




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;

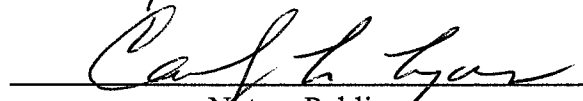
That the attached engineering report was prepared by him or under his supervision and direction and

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.



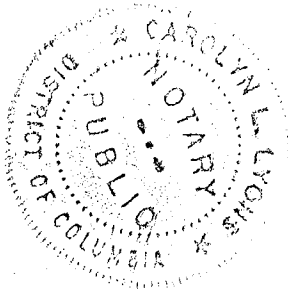
Martin R. Doczkat

Subscribed and sworn to before me this 19th day of August, 2005.



Notary Public

My Commission Expires: 2/28/2008



Introduction

This engineering statement has been prepared on behalf of Red River Broadcasting Company, LLC. ("Red River"), licensee of KDLT-TV. The purpose of this engineering statement is to accompany its request for license to cover pursuant to its outstanding digital television ("DTV") construction permit (FCC File No. BPCDT-19991101AEJ). In this request, Red River notes that the grant of this application would permit maximized operation in compliance with the July 1, 2006 "use-it-or-lose-it" build-out deadline set forth in the Second Periodic Review (MB Docket No. 03-15, RM-9832, Released September 7, 2004).

Red River is authorized to operate Station KDLT-TV on NTSC television Channel 46 with a maximum visual effective radiated power ("ERP") of 4000 kW (elliptical polarization) at an antenna height above average terrain ("HAAT") of 589 meters. Red River has been allocated DTV Channel 47 with facilities of 154.0 kW (maximum) at a HAAT of 607 meters in the revised DTV Table of Allotments and filed and was granted operation at 1000 kW ERP at an HAAT of 608 meters.¹ Red River has constructed DTV facilities of 1000 kW (horizontal polarization) with a non-directional antenna at a HAAT of 608 meters as authorized by the outstanding construction permit (FCC File No. BPCDT-19991101AEJ). Therefore, Red River requests a license to cover based on the DTV facilities authorized by the outstanding construction permit.

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 (Pg B-50).

KDLT-DT Tower

The newly constructed DTV Channel 47 antenna is top-mounted on the existing KDLT-TV tower and is stacked above the NTSC antenna. This tower has an overall structure height above ground of 609.2 meters.

The geographic coordinates of the tower were determined by survey prior to registration. The coordinates of the tower as determined by survey and as listed on the tower registration are:

North Latitude: 43° 30' 18"

West Longitude: 96° 33' 22"

(NAD 27)

Equipment Data

The constructed DTV antenna is a Dielectric, Type TFU-36GTH-R 04 DTV antenna, with 0.75° electrical beam tilt.

Power Data

Effective Radiated Power (Peak) (Horizontal)	1000 kW 661 kW	or	30.0 dBk 28.2 dBk
Antenna Type	Dielectric, Type TFU-36GTH-R 04		
Antenna Gain (Peak) (Horizontal)	30.00 19.7	or or	14.771 dB 12.94 dB
Antenna Input	33.33 kW	or	15.229 dBk
Transmission Line	Dielectric EIA 8 3/16" 75-ohm line and 4-1/16" 50 ohm line		
Transmission Line 8-3/16"	0.094 dB/100 ft.		
Loss for Ch 47 4-1/16"	0.172 dB/100 ft.		


Length of Line 8-3/16"	2004 ft.	
4-1/16"	58 ft.	
Total Line Loss 8-3/16"	1.88 dB	
4-1/16"	0.10	
Transmitter Output Power	Antenna Input + Total Line Loss	
Transmitter Output Power	15.229 dBk + 1.98 dB	
Transmitter Output Power	52.6 kW	17.21

Special Operating Condition

The outstanding construction permit (FCC File No. BPCDT-19991101AEJ) lists one special operating condition. Red River has made a good faith effort to identify and notify potentially affected health care facilities within the authorized DTV service area.

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 August 19, 2005	
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).