

ENGINEERING STATEMENT
PETITION FOR RECONSIDERATION OF
SEVENTH REPORT AND ORDER
MB DOCKET 87-268
ON BEHALF OF
RED RIVER BROADCAST CO., LLC
KBRR-DT, THIEF RIVER FALLS, MINNESOTA
DTV CH. 10 5.9 KW ND ERP 183 METERS HAAT

OCTOBER 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)

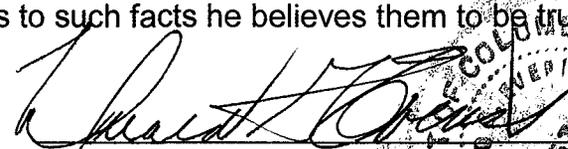
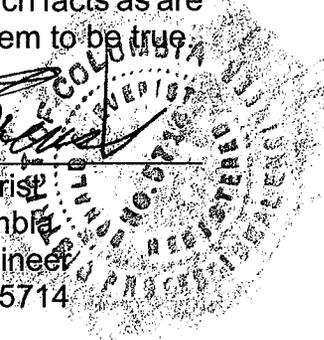
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

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;

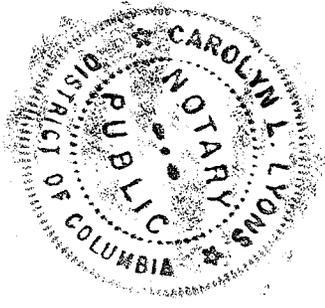
That his qualifications are a matter of record in the Federal Communications Commission;

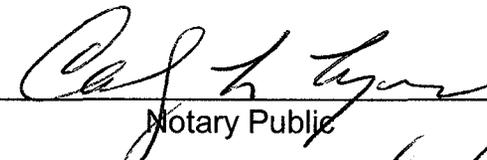
That the attached engineering report was prepared by him or under his supervision and direction and

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 24th day of October, 2007.




Notary Public

My Commission Expires: 2/28/2008

Introduction

This engineering statement has been prepared on behalf of Red River Broadcast Co, LLC. (“Red River”), licensee of KBRR(TV), Channel 10, Thief River Falls, Minnesota, in support of a Petition for Reconsideration of the *Seventh Report and Order* (“Seventh R & O”), *MB Docket No. 87-268*¹. The purpose of this engineering statement is to accompany Red River’s request for a modification to its post-transition DTV allotment as listed in the Seventh R & O.

In the Commission’s Pre-Election Certification and Digital Channel Elections forms, Red River requested operation for post-transition KBRR-DT pursuant to its pending authorization of maximized facilities (BPCDT-19991028AAV) on channel 10. The maximized side-mounted operation of KBRR-DT on channel 32 is authorized for 1000 kW nondirectional effective radiated power (“ERP”) at 113 meters height above average terrain (“HAAT”). After the DTV transition, Red River plans to remove the top-mounted directional KBRR(TV) antenna which is used for NTSC operation, and replace it with a nondirectional antenna for the final post-transition operation of KBRR-DT. Since the KBRR(TV) directional NSTC antenna currently occupies the top-mounted section of the tower, Red River was forced to side mount its DTV operation on channel 32 and was limited in its ability to ultimately achieve a maximization of its DTV facility. Therefore, Red River requests a modification to its final DTV allotment which would be based on the certified maximized DTV facilities, but at the current top-mounted antenna height of 183 meters HAAT. Predicted population and coverage data based on Longley-Rice methodology of the proposed KBRR-DT post-

¹In the Matter of Advanced Television Systems and Their Impact upon the Existing Television Broadcast Service, MB Docket No. 87-268, Adopted: August 1, 2006

transition allotment relative to the DTV allotment assigned in the 7th R & O and a top-mounted KBRR-DT, channel 32, 1000 kW nondirectional ERP at 183 meters HAAT is attached as Table I.

Requested Post-Transition DTV Allotment Parameters

Channel:	10	
Effective Radiated Power:	5.9 kW nondirectional	
Center of Radiation Above Mean Sea Level:	495 meters	
Antenna Height Above Average Terrain:	183 meters	
Latitude:	48° 01' 19" North	NAD-27
Longitude:	96° 22' 12" West	

Conclusion

A Longley-Rice interference analysis (Table II) has been performed based on the KBRR-DT proposed parameters which demonstrates no predicted interference to any other post-transition DTV Allotment facility will occur. Due to the replacement of the current top-mounted directional NTSC antenna with a nondirectional antenna for post-transition DTV operation and since KBRR-DT was unable to achieve its ultimate goal of a top-mounted DTV maximization, Red River hereby requests a modification to its post-transition DTV allotment based on a top-mounted maximized DTV facility.

TABLE I
PREDICTED POPULATION DATA
FOR THE PROPOSED
POST-TRANSITION DTV ALLOTMENT
KBRR-DT, THIEF RIVER FALLS, MN
CH10 5.9 kW ERP 183 METERS HAAT
OCTOBER 2007

<u>Call</u>	<u>Service</u>	<u>Status</u>	<u>Channel</u>	<u>Antenna</u>	<u>Power</u> kW	<u>RCAMSL</u> meters	<u>HAAT</u> meters	<u>Population</u> thousand	<u>Area</u> km ²
KBRR-DT	DTV	7th R & O	10	Side Mount - Directional	9.7	428	113	121	16,952
KBRR-DT	DTV	CP	32	Side Mount - Non-Directional	1000.0	428	113	127	18,312
KBRR-DT	DTV	Maximized	32	Top Mount - Non-Directional	1000.0	495	183	136	21,371
KBRR-DT	DTV	Proposed	10	Top Mount - Non-Directional	5.9	495	183	135	20,562

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TABLE II
LONGLEY-RICE ANALYSIS
FOR THE PROPOSED
POST-TRANSITION DTV ALLOTMENT
KBRR-DT, THIEF RIVER FALLS, MN
CH10 5.9 kW ERP 183 METERS HAAT
OCTOBER 2007

<u>Channel</u>	<u>Station</u>	<u>City/State</u>	<u>State</u>	<u>Distance</u>	<u>Status</u>	<u>FCC File Number</u>	7th R&O KBRR-DT <u>Interference</u>	Proposed KBRR-DT <u>Interference</u>
				km			%	%
9	Kawe	Bemidji	MN	144.8	7thRO	BPEDT-20000203AAF	No Interference	No Interference
10	KWCM-TV	Appleton	MN	318.5	7thRO	BPEDT-20000501AIK	0.0	0.0
10	WDIO-TV	Duluth	MN	347.7	7thRO	BPCDT-19991027ABA	0.0	0.0
10	KMOT	Minot	ND	367.7	7thRO	BPCDT-19991015AAW	No Interference	No Interference