

ENGINEERING STATEMENT
RE APPLICATION FOR LICENSE
CONSTRUCTION PERMIT BMPCDT-20040730AGY
WVIR-DT, CHARLOTTESVILLE, VIRGINIA
CHANNEL 32 1000 KW MAX ERP 367.9 METERS HAAT

SEPTEMBER 2004

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)

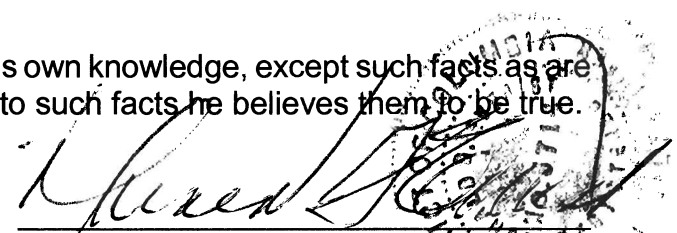
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

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 3rd day of September, 2004.





Notary Public

My Commission Expires: 2/28/2008

This engineering statement has been prepared on behalf of Virginia Broadcasting Corporation, permittee of WVIR-DT, Charlottesville, Virginia, and accompanies its request for license. The purpose of this engineering statement is to accompany the request to license the DTV facility specified in construction permit BMPCDT-20040730AGL that authorized the DTV build out at a slight change in site on Carter Mountain.

The geographic coordinates of the tower are as follows:

North Latitude: 37° 59' 02"

West Longitude: 78° 28' 53"

NAD-27

Tower Registration No. 1243302

The WVIR-DT antenna site is located on the Carter's Mountain Orchard, east of Route 20, approximately 5.6 km (3.5 miles) south of Charlottesville, Virginia.

Equipment Data

Antenna: Dielectric, Model No. TFU-26GTH-R04SP with 1.0° electrical beam tilt

Transmission Line: 96.9 meters (318 ft) of Dielectric, Type EIA/DCA, 6-1/8" rigid 75 ohm or equivalent

Power Data

Transmitter output	44 kW	16.43 dBk
Dielectric 6-1/8", rigid 75 ohm or equivalent—length 96.9 meters (318 feet)	91.8%	0.371 dB
Input power to the antenna	16.06 kW	16.06 dBk
Antenna power gain, Main Lobe	24.8	13.94 dB
ERP	1000 kW	30 dBk

Elevation Data

Elevation of the site above mean sea level	448.4 meters (1471 feet)
Elevation of the top of structure including antenna above ground	95.7 meters (314.0 feet)
Elevation of the top of supporting structure above mean sea level	544.1 meters (1784.8 feet)
Height of DTV antenna radiation center above ground	87.3 meters (286.5 feet)
Height of DTV antenna radiation center above mean sea level	535.7 meters (1757.5 feet)
Height of DTV antenna radiation center above average terrain	367.9 meters

Note: Conversion from metric to English units may result in rounding errors.

Section III - 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 _____			
2. Operating Constants			
Transmitter power output (average power at input to transmission line, after any filter attached to the transmitter, if used)		Transmission line power loss	
kW		dBk	
Antenna Input power		Effective radiated power (average power)	
dBk	Maximum antenna power gain	kW	dBk
dB			
3. Antenna Data			
Manufacturer		Model	

NOTE: In addition to the information called for in the Certification Checklist, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.


CERTIFICATION

4. Main Studio Location. The main studio location complies with 47 C.F.R. Section 73.1125.	<input type="checkbox"/> Yes <input type="checkbox"/> No	See Explanation in Exhibit No.
5. Constructed Facility. The facility was constructed as authorized in the underlying construction permit or complies with 47 C.F.R. Section 73.1690.	<input type="checkbox"/> Yes <input type="checkbox"/> No	See Explanation in Exhibit No.
6. Special Operating Conditions. The facility was constructed in compliance with all special operating conditions, terms, and obligations described in the construction permit.	<input type="checkbox"/> Yes <input type="checkbox"/> No	See Explanation in Exhibit No.
An exhibit may be required. Review the underlying construction permit.		Exhibit No.
7. Transmitter. The transmitter complies with 47 C.F.R. Section 73.1660.	<input type="checkbox"/> Yes <input type="checkbox"/> No	See Explanation in Exhibit No.

PREPARER'S CERTIFICATION ON PAGE 6 MUST BE COMPLETED AND SIGNED.

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 Donald G. Everist		Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer	
Signature 		Date September 3, 2004	
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).