

ENGINEERING STATEMENT
RE APPLICATION FOR LICENSE OF DIGITAL TRANSLATOR
CONSTRUCTION PERMIT FCC FILE NO. BDISDTT-20090218ADU
ON BEHALF OF WITF, INC.
W33CR-D, CHAMBERSBURG, PENNSYLVANIA
CHANNEL 33 5 KW ND ERP 720 METERS RC/AMSL
FACILITY ID 73081
APRIL 2010

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:

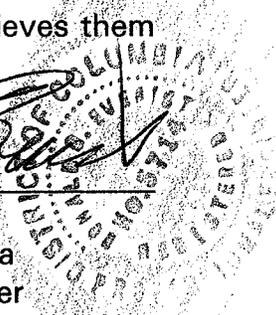
He is a graduate electrical engineer, a Registered Professional Engineer in the District of Columbia, and is President, Secretary and Treasurer of Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

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

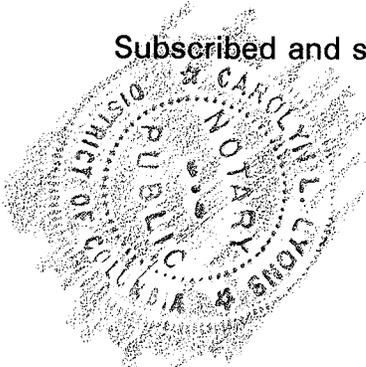
That the attached engineering report was prepared by him or under his supervision and direction and

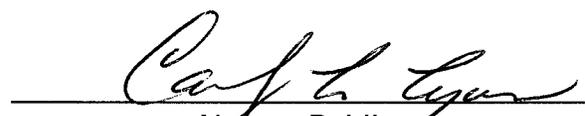
That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.


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



Subscribed and sworn to before me this 16th day of April, 2010.




Notary Public

My Commission Expires: 2/28/2013

This engineering statement has been prepared on behalf of WITF, Inc., licensee of WITF-DT, Harrisburg, Pennsylvania in support of an application for license for its outstanding construction permit (FCC File No. BDISDTT-20090218ADU) authorizing construction of digital television translator facilities on Channel 33. It is noted that construction permit specifies an ERI Model ALP8MI-HSO-33 transmit antenna. An equivalent antenna per the current policy of Section 74.751 of the FCC Rules has been installed and is a Scala, Model SL-8. No other changes from that authorized is made.

Transmitter Site

The W33CR-D antenna is mounted on a pole extending from the deck of an existing observation tower with a total overall antenna height above ground of 28.0 meters (92 feet).

The site is located at Blue Mountain (Clarks Knob) approximately 3.2 kilometers west of Upper Strasburg in Franklin County, Pennsylvania.

The geographic coordinates of the existing site are as follows:

North Latitude: 40° 03' 00"

West Longitude: 77° 44' 54"

NAD-27

Equipment Data

Transmitter:	Type-approved
Transmission Line:	Andrew, Type LDF5-50, 7/8 inch concentric copper
Antenna:	Scala, Model SL-8 non-directional antenna with 1.75° electrical beam tilt and 24% null fill

Out-of-Channel
Emission Mask: Stringent

Power Data
(no ERP change)

Transmitter:	0.487 kW	-3.124 dBk
Transmission Line Loss: including connectors	91.5 %	0.3835 dB
Input Into Antenna:	0.446 kW	-3.51 dBk
Antenna Gain:	11.22	10.5 dB
Effective Radiated Power, Maximum	5.00 kW	6.99 dBk

Elevation Data

Vertical dimension of the Channel 33 antenna	6.1 meters 20.0 feet
Overall height above ground of the proposed antenna	28.0 meters 92.0 feet
Center of radiation of Channel 33 antenna above ground	25.0 meters 82.0 feet
Elevation of site above mean sea level	694.9 meters 2279.9 feet
Center of radiation of Channel 33 antenna above mean sea level	719.9 meters 2361.9 feet
Overall height above mean sea level of existing tower	722.9 meters 2371.7 feet

Note: Slight height differences may result due to conversion to metric.

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. Frequency Offset <input type="checkbox"/> No offset <input type="checkbox"/> Zero offset <input type="checkbox"/> Plus offset <input type="checkbox"/> Minus offset
3. Antenna Location Coordinates: (NAD 27) _____ ° _____ ' _____ " <input type="checkbox"/> N <input type="checkbox"/> S Latitude _____ ° _____ ' _____ " <input type="checkbox"/> E <input type="checkbox"/> W Longitude
4. Maximum Effective Radiated Power (ERP) Toward Radio Horizon: _____ kW
5. Maximum ERP in any horizontal and vertical angle: _____ kW

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

CERTIFICATION

All applicants must complete this section.

6. **Constructed Facility.** The facility was constructed as authorized in the underlying construction permit. Yes No See Explanation in Exhibit No.

7. **Special Operating Conditions.** The facility was constructed in compliance with all special operating conditions, terms, and obligations described in the construction permit. Yes No See Explanation in Exhibit No.

Exhibit No.
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PREPARER'S CERTIFICATION ON PAGE 4 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 April 16, 2010	
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).