

ENGINEERING STATEMENT  
APPLICATION FOR LICENSE  
FCC FILE NO. BMPCDT-20080620AJK  
ON BEHALF OF  
INDEPENDENCE TELEVISION COMPANY  
WMYO-DT, SALEM, INDIANA  
CHANNEL 51 1000 KW ND ERP 390.4 METERS HAAT  
FACILITY ID 34167

OCTOBER 2009

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         )

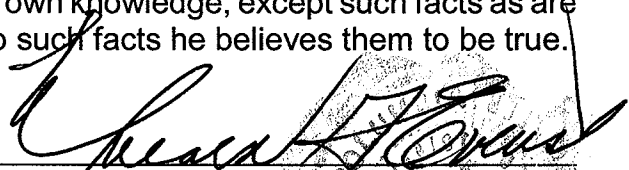
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

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;

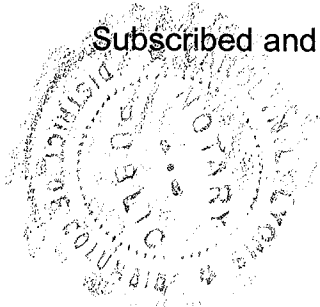
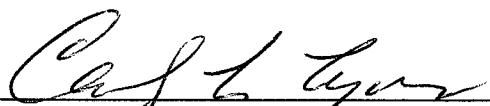
That his qualifications are a matter of record in the Federal Communications Commission;

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. 57143

Subscribed and sworn to before me this 7<sup>th</sup> day of October, 2009.

  
  
\_\_\_\_\_  
Notary Public

My Commission Expires: 2/28/2013

This engineering statement has been prepared in support of an application for license of facilities authorized by BMPCDT-20080620AJK on behalf of Independence Television Company, licensee of WMYO-DT, Salem, Indiana. The purpose of the application is to license and operate non-directional with 1000 kW effective radiated power (“ERP”) at a height above average terrain (“HAAT”) of 390.4 meters.

#### Summary

WMYO(TV) was licensed to operate on NTSC television Channel 58 with a maximum visual ERP of 1780 kW directional and an antenna height above average terrain (“HAAT”) of 346 meters (1135 feet). WMYO-DT was allocated DTV Channel 51 with facilities of 1000 kW directional and HAAT of 390 meters in the revised DTV Table of Allotments and has received a construction permit (FCC File No. BMPCDT-20080620AJK) to construct DTV facilities of 1000 kW non-directional at a HAAT of 390.4 meters. WMYO-DT is diplexed into a common antenna with WDRB-DT. It was necessary to dismantle and remove the existing WDRB NTSC antenna in order to install the final antenna.

#### Transmitter Site

The DTV antenna is top-mounted on the existing tower. The WMYO-DT common antenna is installed on an existing tower having a total overall structure height above ground of 304.8 meters (1000 feet). The existing transmitter site is located at 5257 South Skyline Drive, Floyds Knob, Indiana. The registration number for the tower is 1028421.

The geographic coordinates of the existing site are as follows:

North Latitude: 38° 21' 00"

West Longitude: 85° 50' 57"

NAD-27

#### Equipment Data

Antenna: Dielectric, Model TFU-32GTH-R O6 antenna with 0.90° electrical beam tilt.

Transmission Line: 281.9 meters (925 ft) of Dielectric, Type EIA rigid TL, 8-3/16", 75 ohm coaxial (vertical run) and 35 meters (115 ft) of WR1500 waveguide (horizontal)

#### Power Data

Transmitter output	50.61 kW	17.04 dBk
Combiner Efficiency/Loss	94.4%	0.25 dB
Transmission line efficiency/loss	Total 80.5%	0.942 dB
8-3/16"	81.6%	0.882 dB
waveguide	98.6%	0.060 dB
Input power to the antenna	38.46 kW	15.85 dBk
Antenna power gain, Main Lobe	26	14.15 dB
Effective Radiated Power,	1000 kW	30 dBk

Elevation Data  
(unchanged)

Vertical dimension for Channel 51	16.1 meters
WMYO-DT common antenna	52.8 feet
Overall height above ground of the existing antenna structure (including beacon and lightning rod)	304.8 meters 1000 feet
Center of radiation of Channel 51 antenna above ground	296 meters 971 feet
Elevation of site above mean sea level	292.9 meters 961 feet
Center of radiation of Channel 51 antenna above mean sea level	588.9 meters 1932 feet
Overall height above mean sea level of existing tower and stacked antenna (including beacon)	597.7 meters 1961 feet
Antenna height above average terrain	390.4 meters 1281 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. 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	
dB		dB	
Antenna Input power	Maximum antenna power gain	Effective radiated power (average power)	
dBk	dB	kW	dBk
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. <b>Main Studio Location.</b> The main studio location complies with 47 C.F.R. Section 73.1125.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<div style="border: 1px solid black; padding: 2px;">See Explanation in Exhibit No.</div>
5. <b>Constructed Facility.</b> 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	<div style="border: 1px solid black; padding: 2px;">See Explanation in Exhibit No.</div>
6. <b>Special Operating Conditions.</b> 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	<div style="border: 1px solid black; padding: 2px;">See Explanation in Exhibit No.</div>
<b>An exhibit may be required.</b> Review the underlying construction permit.		<div style="border: 1px solid black; padding: 2px;">Exhibit No.</div>
7. <b>Transmitter.</b> The transmitter complies with 47 C.F.R. Section 73.1660.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<div style="border: 1px solid black; padding: 2px;">See Explanation in Exhibit No.</div>

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

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**APPLICATION FILED PURSUANT TO 47 C.F.R. SECTIONS 73.1675(c) or 73.1690(c).**

Only applicants filing this application pursuant to 47 C.F.R. Sections 73.1675(c) or 73.1690(c) must complete the following

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8. **Changing transmitter power output.** Is this application being filed to authorize a change in transmitter power output caused by the replacement of an omnidirectional antenna with another omnidirectional antenna or an alteration of the transmission line system? See 47 C.F.R. Sections 73.1690(c)(1) and (c)(10). ☐ Yes ☐ No

9. **Replacing a directional antenna.** Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(3) to replace a directional antenna with another directional antenna? ☐ Yes ☐ No

If "Yes" to the above, the applicant certifies the following:

- a. **Pattern of Directional Antenna.** The proposed theoretical antenna pattern complies with 47 C.F.R. Section 73.1690(c)(3). **Exhibit is required.** ☐ Yes ☐ No 

See Explanation in Exhibit No.

Exhibit No.

10. **Use a formerly licensed main facility as an auxiliary facility.** Is this application being filed pursuant to 47 C.F.R. Section 73.1675(c)(1) to request authorization to use a formerly licensed main facility as an auxiliary facility and/or change the ERP of the proposed auxiliary facility? ☐ Yes ☐ No

If "Yes" to the above, the applicant certifies the following:

- a. **Auxiliary antenna service area.** The proposed auxiliary facility complies with 47 C.F.R. Section 73.1675(a). **Exhibit is required.** ☐ Yes ☐ No 

See Explanation in Exhibit No.

- b. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (*i.e.*, the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). ☐ Yes ☐ No 

See Explanation in Exhibit No.

By checking "Yes" above, 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.

11. **Change the license status.** Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(9) to change the license status from commercial to noncommercial or from noncommercial to commercial? ☐ Yes ☐ No


Exhibit No.

If "Yes" to the above, submit an exhibit providing full particulars. For applications changing license status from commercial to noncommercial, include Section II of FCC Form 340 as an exhibit to this application.

**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 October 7, 2009	
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).