

ENGINEERING STATEMENT  
RE APPLICATION FOR LICENSE TO COVER  
THE OUTSTANDING CONSTRUCTION PERMIT  
(FCC FILE NO. BMPCDT-20060707ADY)  
ON BEHALF OF  
WYDC, INC.  
**WYDC-DT, CORNING, NEW YORK**  
CHANNEL 50 0.76 KW ERP 223.6 METERS HAAT

JULY 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                )

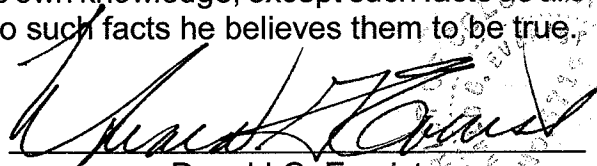
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

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;

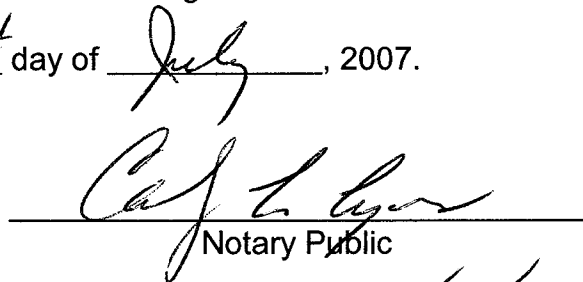
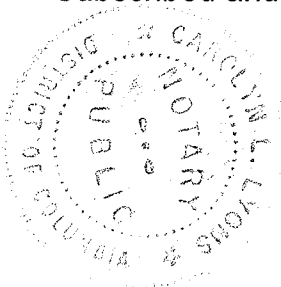
That the attached engineering report was prepared by him or under his supervision and direction and

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 3<sup>rd</sup> day of July, 2007.

  
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:

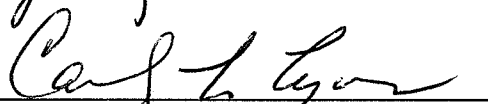
He is a graduate electrical engineer of the Pennsylvania State University, and is a staff engineer at Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

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 3<sup>rd</sup> day of July, 2007.

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

My Commission Expires: 2/28/2008



### Introduction

This engineering statement has been prepared on behalf of WYDC, Inc., licensee of TV Station WYDC(TV), Corning, New York, in support of its request for license to cover its outstanding construction permit (FCC File No. BMPCDT-20060707ADY) for its digital television ("DTV") operation. At present, WYDC(TV) operates on NTSC TV Channel 48 (+) (674-680 MHz) with 12 kW maximum effective radiated power ("ERP") and 166 meters antenna height above average terrain ("HAAT"). The current analog Channel 48 (+) operation of WYDC(TV) is with a directional TV antenna. Station WYDC(TV) has been allotted Channel 50 (686-692 MHz) for its digital TV operation with an ERP of 50 kW and 166 meters HAAT, and has been authorized to construct a facility (FCC File No. BMPCDT-20060707ADY) with 0.76 kW directional ERP at 223.6 meters HAAT at its site currently operational under a DTV special temporary authority.<sup>1</sup> WYDC now requests to license its outstanding DTV construction permit herein.

### Antenna Site

The DTV antenna is side-mounted on an existing tower at 117.7 meters above ground level. The WYDC-DT antenna site is located at Higman Hill in Corning, New York. The WYDC-DT antenna structure registration number is 1045276.

The geographic coordinates of the existing tower are as follows:

North Latitude: 42° 08' 31"

West Longitude: 77° 04' 40"

(NAD-27)

The following data shows the pertinent information concerning the proposed operation.

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<sup>1</sup>On June 23, 2005, the FCC tentatively approved Channel 48 for WYDC-DT's permanent DTV operation.

Power Data

Transmitter output (after filter loss)	100 watts	-10 dBk
Transmission line efficiency/loss Dielectric, 1-5/8", 50 ohm foam heliax length: 133 m (436 ft)	56.5 %	2.48 dB
Input power to antenna	0.056 kW	-12.48 dBk
Antenna power gain, Main Lobe	13.6	11.34 dB
Effective Radiated Power	0.76 kW	-1.14 dBk

Antenna and Elevation Data

Antenna:	Dielectric	Model No. DL-8
	Beam Tilt	1.0° electrical
	Directional Max. Power Gain	13.6    11.34 dB
Elevation of the site above mean sea level:		512.0 meters 1679.8 feet
Elevation of the top of existing supporting structure above ground including appurtenances		135.6 meters 444.9 feet
Elevation of the top of supporting structure above mean sea level including appurtenances		647.6 meters 2124.7 feet
Height of DTV antenna radiation center meters above ground		117.7 meters 386 feet
Height of DTV antenna radiation center above mean sea level		629.7 meters 2065.9 feet
Height of DTV antenna radiation center above average terrain		223.6 meters 733.6 feet

Special Operation Condition

WYDC, Inc. acknowledges that the grant of this DTV license is subject to the special operating condition specified in the outstanding construction permit. Therefore, WYDC, Inc. certifies that it has made a good faith effort to identify and notify potentially affected health care facilities within the WYDC-DT service area authorized by the outstanding construction permit (FCC File No. BMPCDT-20060707ADY).

### 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. <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	See Explanation in Exhibit No.
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	See Explanation in Exhibit No.
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	See Explanation in Exhibit No.
<b>An exhibit may be required.</b> Review the underlying construction permit.		Exhibit No.
7. <b>Transmitter.</b> 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.**

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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.

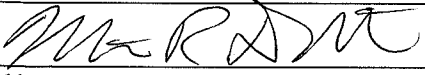
If "Yes" to the above, submit an exhibit providing full particulars. For applications changing license status from commercial to noncommercial, include Section II of FCC Form 340 as an exhibit to this application.

**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 Martin R. Doczkat		Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer	
Signature 		Date July 3, 2007	
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).