

ENGINEERING STATEMENT
REQUEST FOR POST-TRANSITION LICENSE TO COVER
THE OUTSTANDING CONSTRUCTION PERMIT
(FCC FILE NO. BMPCDT-20080619AJL)
ON BEHALF OF
NEXSTAR BROADCASTING, INC.
WHAG-DT, HAGERSTOWN, MARYLAND
CHANNEL 26 575 KW ERP 376 METERS HAAT

JUNE 2008

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)

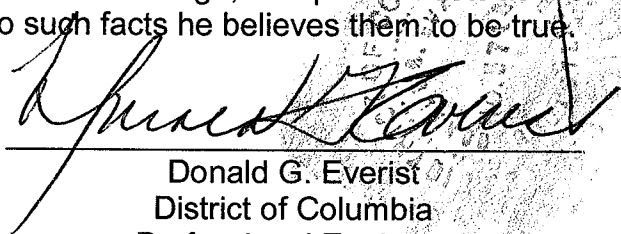
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

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 9th day of June, 2009.


Notary Public

My Commission Expires: 2/28/2013



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, a Registered Professional Engineer in the District of Columbia, 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;

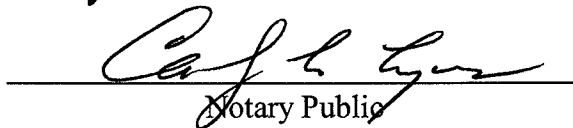
That the attached engineering report was prepared by him or under his supervision and direction and

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.

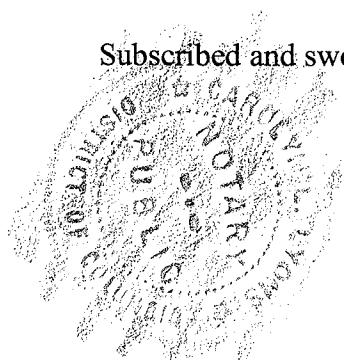


Martin R. Doczkat
District of Columbia
Professional Engineer
Registration No. PE905122

Subscribed and sworn to before me this 9th day of June, 2009.


Notary Public

My Commission Expires: 2/28/2013



Introduction

This engineering statement has been prepared on behalf of Nexstar Broadcasting, Inc. ("Nexstar"), licensee of TV station WHAG-TV, Hagerstown, Maryland, in support of its request for license to cover its post-transition construction permit to operate with 575 kW directional effective radiated power ("ERP") from the authorized top-mounted 376 meters antenna height above average terrain ("HAAT").

WHAG-TV is licensed to operate on NTSC TV Channel 25 (536-542 MHz) with 1350 kW effective radiated power ("ERP") and 375 meters antenna height above average terrain ("HAAT"). The current analog Channel 25 operation of WHAG-TV is with a non-directional TV antenna. WHAG-DT has been allocated DTV Channel 26 with facilities of 574.59 kW directional ERP and HAAT of 359 meters in the final DTV Table of Allotments.¹ WHAG-DT requests a license herein to operate its authorized and constructed DTV facilities of 575 kW (non-directional) at a HAAT of 376 meters (FCC File No. BMPCDT-20080619AJL). The constructed antenna radiation center is one meter above that authorized which is in accordance with Section 73.1690 of the FCC Rules.

Antenna Site

There is no change in the existing antenna site. The associated Antenna Structure Registration Number is 1036848. The WHAG-TV antenna site is located on Hanging Rock Road, Clear Springs, Maryland.

The geographic coordinates of the existing tower are as follows:

North Latitude: 39° 39' 45"

West Longitude: 77° 57' 54"

¹“In the Matter of Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service”, MM Docket 87-268, Memorandum Opinion and Order on Reconsideration of the Seventh Report and Order and Eighth Report and Order (FCC 08-72) Released March 6, 2008.

(NAD-27)

Antenna Data

| | | |
|----------|--------------------------------|--|
| Antenna: | Dielectric | TFU-26JTH-R 4C130 |
| | Beam Tilt | 0.5 electrical |
| | Directional Max. Power Gain | 30.6 14.85 dB (See Exhibits E-2 per §73.625) |

Power Data

| | | |
|---|-------------------------------|------------|
| Transmitter Output Power | 21.35 kW | 13.293 dBk |
| Transmission Line Efficiency/ Loss, Dielectric, EIA/DCA, 6-1/8" 75 ohm--length 148.4 meters (487 feet) | 88% | 0.555 dB |
| Antenna Input | 18.79 kW | 12.738 dBk |
| Antenna Gain | 30.6 | 14.857 dB |
| Antenna Type | Dielectric, TFU-26JTH-R 4C130 | |
| Effective Radiated Power | 575 kW | 27.595 dBk |

Elevation Data

| | |
|---|-------------------------------|
| Elevation of the site above mean sea level | 429.4 meters (1408.8 feet) |
| Elevation of the top of existing supporting structure above ground including appurtenances | 140.2 meters (460 feet) |
| Elevation of the top of supporting structure above mean sea level including appurtenances | 569.6 meters (1868.8 feet) |
| Height of antenna radiation center meters above ground | 131 meters (429.9 feet) |
| Height of antenna radiation center above mean sea level | 560.4 meters (1838.7 feet) |
| Height of antenna radiation center above average terrain | 376 meters |

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

Special Operation Condition

Nexstar acknowledges that the grant of this DTV license is subject to the special operation condition specified in the outstanding construction permit. Therefore, Nexstar certifies that it has made a good faith effort to identify and notify health care facilities (e.g., hospitals, nursing homes, see 47 CFR 15.242(a)(1)) within the WHAG-DT service area potentially affected by these authorized DTV operations. During this pre-broadcast period, Nexstar provided all notified entities with relevant technical details of its authorized operation of WHAG-DT, such as DTV channel, targeted on-air date, effective radiated power, antenna location, and antenna height. Documentation of the notifications and contacts made has been placed in the station's public inspection file. During this pre-broadcast period and for up to twenty (20) days after commencing operations, should Nexstar become aware of any instances of medical devices malfunctioning or that such that devices are likely to malfunction due to the WHAG-DT operations, it shall cooperate with the health care facility so that it is afforded a reasonable opportunity to resolve the interference problem.

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. 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.

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

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 June 9, 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).