

ENGINEERING STATEMENT
REQUEST FOR LICENSE TO COVER THE OUTSTANDING
CONSTRUCTION PERMIT
(FCC FILE NO. BPCDT-20090129ANN)
ON BEHALF OF
NEXSTAR BROADCASTING, INC.
KFTA-DT, FORT SMITH, ARKANSAS
CHANNEL 27 600 KW MAX ERP 305 METERS HAAT

MARCH 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)

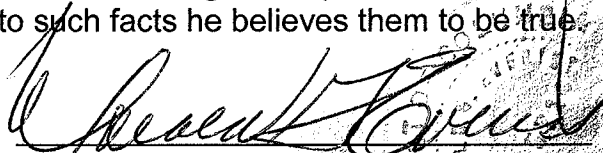
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

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;

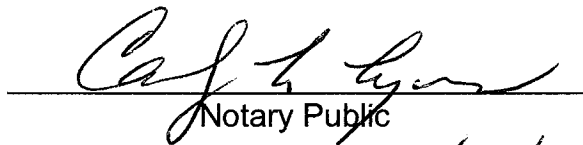
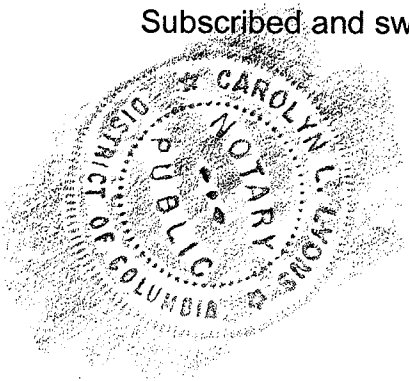
That the attached engineering report was prepared by him or under his supervision and direction and

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. 5714

Subscribed and sworn to before me this 26th day of March, 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:

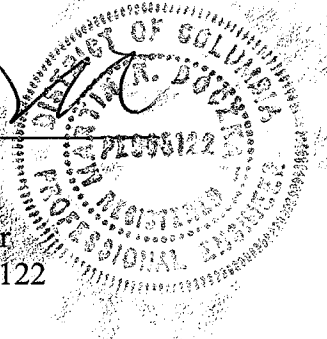
He is a graduate electrical engineer of the Pennsylvania State University, a Registered Professional Engineer in the District of Columbia, and is a staff engineer at Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington,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

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

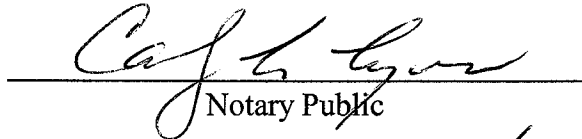
That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.



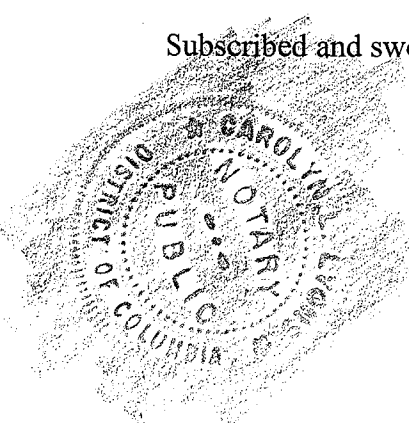
Martin R. Doczkat
District of Columbia
Professional Engineer
Registration No. PE905122



Subscribed and sworn to before me this 26th day of March, 2009.


Notary Public

My Commission Expires: 2/28/2013



This engineering statement has been prepared on behalf of Nexstar Broadcasting, Inc., licensee of KFTA-TV, Fort Smith, Arkansas. The purpose of this engineering statement is to accompany its request for license to cover the outstanding construction permit (FCC File No. BPCDT-20090129ANN) to increase its effective radiated power ("ERP") from 200 kW to 600 kW for digital television ("DTV") facilities and to supplement those data required in FCC Form 302, Section III.

KFTA-TV operated¹ on NTSC Television Channel 24 with a maximum visual horizontal effective radiated power ("ERP") of 2510 kW and a height above average terrain ("HAAT") of 317 meters (1040 feet). KFTA-DT is licensed for DTV Channel 27 with facilities of 200 kW Max ERP and HAAT of 305 meters (FCC File No. BLCDT 20060912ACY). KFTA-DT is authorized and has constructed DTV facilities of 600 kW directional (horizontal polarization) at a HAAT of 305 meters (FCC File No. BPCDT-20090129ANN) using the same RF transmission system as now licensed from its existing antenna structure.

The DTV antenna is side-mounted on an existing tower having a total overall structure height above ground of 153 meters (502 feet). The existing transmitter site is located at 19209 Cartwright Mountain Road, Mountainburg, Arkansas.

The antenna structure registration number ("ASR") of the existing tower is 1038012.

¹Analog transmission has been terminated.

The geographic coordinates of the existing site are:

North Latitude: 35° 42' 36"

West Longitude: 94° 08' 15"

NAD-27

Equipment Data
(Unchanged)

Antenna: Dielectric, Type TFU-24DSB-R CT150 (C) SP, horizontally polarized antenna with 0.75° electrical beam tilt.

Transmission Line: Andrew MACXLine, 4-1/16", 50 ohm rigid coax 139.3 meters (457 ft)

Power Data

Transmitter output	19.69 kW	12.94 dBk
Transmission Line Efficiency/Loss	84.7%	0.72 dB
Input power to the antenna	16.68 kW	12.22 dBk
Antenna power gain, Main Lobe	36	15.56 dB
Effective Radiated Power, Maximum	600 kW	27.78 dBk

Elevation Data
unchanged

Vertical dimension of Channel 27 side-mounted antenna	15.0 meters 49.1 feet
Overall height above ground of the proposed antenna structure (Including beacon and lightning protection)	153.0 meters 502.0 feet

Center of radiation of Channel 27 antenna above ground	124.0 meters 406.8 feet
Elevation of site above mean sea level	599.5 meters 1966.9 feet
Center of radiation of Channel 27 antenna above mean sea level	723.5 meters 2373.7 feet
Overall height above mean sea level of proposed tower (including beacon)	752.5 meters 2468.8 feet
Antenna height above average terrain	305 meters

NOTE: Slight height differences result due to conversion to 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 KFTA-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 KFTA-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 KFTA-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 March 26, 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).