ENGINEERING STATEMENT
APPLICATION FOR LICENSE TO COVER THE
OUTSTANDING CONSTRUCTION PERMIT
(FCC FILE NO. BPCDT-19991028AEE)
ON BEHALF OF
NEXSTAR BROADCASTING, INC.
KFTA-DT, FORT SMITH, ARKANSAS
CHANNEL 27 200 KW ERP DA 305 METERS HAAT

SEPTEMBER 2006

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 12th day of September, 2006.

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

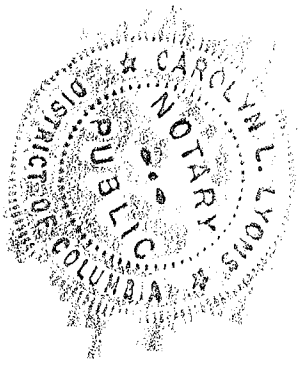
That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.

Martin R. Doczkat

Subscribed and sworn to before me this 12th day of September, 2006.

Notary Public

My Commission Expires: 2/28/2008



This engineering statement has been prepared on behalf of Nexstar Broadcasting, Inc. ("Nexstar"), licensee of KFTA-TV, Fort Smith, Arkansas. The purpose of this engineering statement is to accompany its request for license to cover its outstanding construction permit (FCC File No. BPCDT-19991028AEE) for digital television ("DTV") facilities and to supplement those data required in FCC Form 302, Section III.

KFTA-TV operates 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. KFTA-DT has been allocated DTV Channel 27 with facilities of 96.5 kW and HAAT of 317 meters in the revised DTV Table of Allotments.[1] KFTA-DT is authorized to construct DTV Channel 27 facilities of 200 kW directional (horizontal polarization) at a HAAT of 305 meters on its existing antenna structure and requests to license these authorized facilities herein. The TFU-24DSB-R CT150 (C) SP antenna requested to be licensed herein produces equivalent coverage to that specified in the outstanding KFTA-DT construction permit; however, this antenna operates with 0.75° electrical beam tilt.

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 tower registration number of the existing tower is 1038012.

The geographic coordinates of the existing site are:

[1] "In the Matter of Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service", MM Docket No. 87-286, Memorandum Opinion and Order on Reconsideration of the Sixth Report and Order (FCC 98-24), 2/12/98, DTV Table of Allotments, Appendix B.

North Latitude: 35° 42' 36"

West Longitude: 94° 08' 15"

NAD-27

Equipment Data

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

Power Data

Transmitter output	6.56 kW	8.16 dBk
Andrew MACXLine, 4-1/16", 50 ohm rigid coax 139.3 meters (457 ft)	84.7%	0.72 dB
Input power to the antenna	5.56 kW	7.44 dBk
Antenna power gain, Main Lobe	36	15.56 dB
Effective Radiated Power, Maximum	200 kW	23 dBk

Elevation Data

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	124.5 meters 408.5 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	724.0 meters 2375.3 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 Operating Condition

Nexstar acknowledges that the grant of this DTV license is subject to the special operating condition specified in the outstanding construction permit. Therefore, Nexstar certifies that it has made a good faith effort to identify and notify potentially affected health care facilities within the KFTA-DT service area authorized by the outstanding construction permit.

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 27

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
6.56 kW	8.16 dBk	0.72 dB

Antenna Input power	Maximum antenna power gain	Effective radiated power (average power)	
7.44 dBk	15.56 dB	200 kW	23 dBk

3. Antenna Data

Manufacturer	Model
Dielectric	TFU-24DSB-R CT150(C) SP

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. [X] Yes [ ] 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. [X] Yes [ ] 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. [X] Yes [ ] No — See Explanation in Exhibit No.

An exhibit may be required. Review the underlying construction permit. Exhibit No. E

7. **Transmitter.** The transmitter complies with 47 C.F.R. Section 73.1660. [X] Yes [ ] 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

    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. Exhibit No.

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 September 12, 2006	
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).