

ENGINEERING STATEMENT
RE DTV BROADCAST ENGINEERING DATA
APPLICATION FOR LICENSE
TO COVER THE OUTSTANDING
CONSTRUCTION PERMIT (FCC FILE NO. BMPCDT-20080619AJI)
KQTV-DT, ST. JOSEPH, MISSOURI
CHANNEL 7 40 KW ND ERP 179 METERS HAAT

NOVEMBER 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)

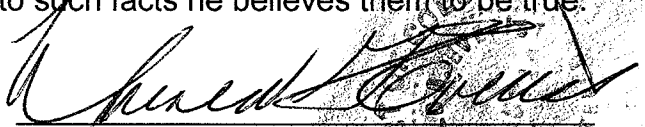
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

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;

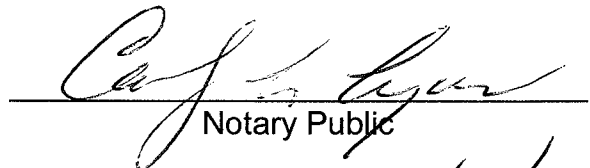
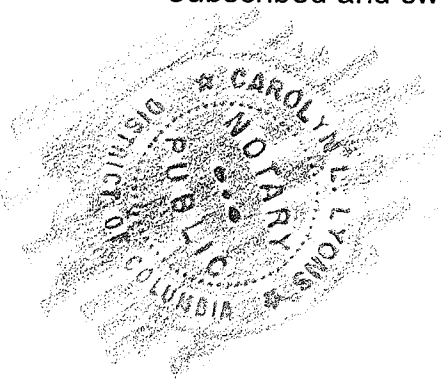
That the attached engineering report was prepared by him or under his supervision and direction and

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 17th day of November, 2009.



Notary Public

My Commission Expires: 2/28/2013

This engineering statement has been prepared on behalf of Nexstar Broadcasting, Inc. (“Nexstar”), licensee of KQTV(TV), St. Joseph, Missouri. The purpose of this engineering statement is to accompany its request for license to cover the outstanding construction permit application (FCC File No. BMPCDT-20080619AJI).

KQTV(TV) operated on NTSC television Channel 2 with a maximum visual effective radiated power (“ERP”) of 100 kW (horizontal polarization) and height above average terrain (“HAAT”) of 247 meters. KQTV-DT has been allocated DTV Channel 7 with facilities of 7.451 kW directional ERP and HAAT of 247 meters in the final DTV Table of Allotments.¹ KQTV-DT now is authorized by the outstanding construction permit (FCC File No. BMPCDT-20080619AJI) to construct its Channel 7 DTV facilities of 40 kW non-directional ERP (horizontal polarization) at an HAAT of 179 meters from its currently licensed NTSC site and requests a license herein to operate pursuant to these constructed and authorized facilities.

The DTV antenna is top-mounted on an existing tower. The modified tower has an overall structure height above ground of 154.8 meters (508 feet). The existing transmitter site is located at 40th & Faraon Street, St. Joseph, south of Pickett, St. Joseph, Missouri. The antenna structure registration number (“ASRN”) for the existing tower is 1000389.

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.

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The geographic coordinates of the site are:

North Latitude: 39° 46' 12"

West Longitude: 94° 47' 53"

NAD-27

Equipment Data

Antenna:	MCI	954134
	Beam Tilt	0° electrical
	Power Gain	8.28 (9.18 dBd)

Power Data

Transmitter output	5.60 kW	7.482 dBk
Total Transmission line efficiency/loss	86.2%	0.645 dB
Dielectric, Type DC 375, 3-1/8", 50 ohm rigid length: 150 meters (492 feet)		
Input Power to the antenna	4.827 kW	6.837 dBk
Antenna power gain	8.28	9.18 dB
Effective Radiated Power	40 kW	16.02 dBk

Elevation Data

Vertical dimension of Channel 7 antenna	12.8 meters 42 feet
Overall height above ground of existing antenna structure (including appurtenances)	154.8 meters 508 feet

Center of radiation of Channel 7 antenna above ground	146.6 meters 481 feet
Elevation of site above mean sea level	310.9 meters 1020 feet
Center of radiation of Channel 7 antenna above mean sea level	457.5 meters 1501 feet
Overall height above mean sea level of existing tower (including beacon)	465.7 meters 1528 feet
Antenna height above average terrain	179 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 KQTV-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 KQTV-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 KQTV-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

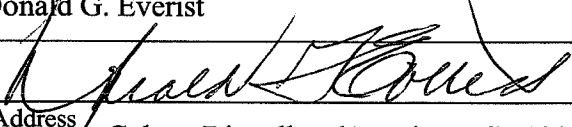
Exhibit No.

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 Donald G. Everist		Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer	
Signature 		Date November 17, 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).