

ENGINEERING STATEMENT
RE APPLICATION FOR LICENSE TO COVER
THE OUTSTANDING CONSTRUCTION PERMIT
(FCC FILE NO. BPCDT-20080317AFI)
ON BEHALF OF
GRIFFIN TULSA II LICENSING, L.L.C.
KQCW-DT, MUSKOGEE, OKLAHOMA
FACILITY ID 78322
CHANNEL 20 550 KW MAX ERP 252 METERS HAAT

FEBRUARY 2009

COHEN, DIPPELL AND EVERIST, P.C.
CONSULTING ENGINEERS
RADIO AND TELEVISION
WASHINGTON, D.C.

COHEN, DIPPELL AND EVERIST, P. C.

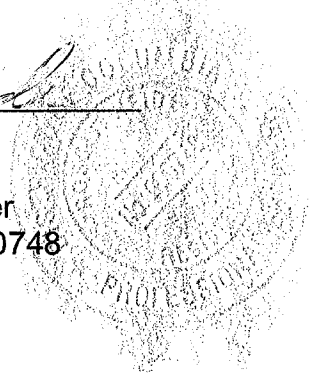
City of Washington)
) ss
District of Columbia)

Ross J. Heide, being duly sworn upon his oath, deposes and states that:

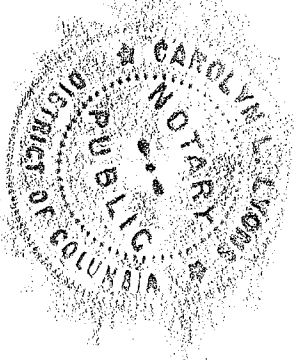
He is a graduate of the Massachusetts Institute of Technology in Operations Research and Management Science, a Registered Professional Engineer in the District of Columbia, and employed by Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., 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.


Ross J. Heide
Ross J. Heide
District of Columbia
Professional Engineer
Registration No. PE900748

Subscribed and sworn to before me this 27th day of February, 2009.


Carolyn Lyons
Notary Public

My Commission Expires: 2/28/2013

This engineering statement has been prepared on behalf of Griffin Tulsa II Licensing, L.L.C., ("KQCW"), licensee of KQCW-DT, Muskogee, Oklahoma. KQCW-DT has an outstanding construction permit for digital television ("DTV") operation (FCC File No. BPCDT-20080317AFI). The purpose of this statement is to request a license to cover this outstanding DTV construction permit.

KQCW(TV) has ceased analog operations. KQCW-DT has been allotted Channel 20 (506-512 MHz) with 550 kW (non-directional) effective radiated power ("ERP") and 252 meters height above average terrain ("HAAT") in the Final Table of Allotments. In another outstanding construction permit, KQCW is authorized facilities of 1000 kW ERP (non-directional) at an HAAT of 498 meters (BMPCDT-20080620AMN). The maximized facilities authorized in the 1000 kW CP at another site are yet to be constructed and are not the basis of this request for license to cover.

Antenna Site

The KQCW-DT antenna operates at a radiation center above ground level ("RCAGL") of 229.3 meters. The tower site is located at approximately 3 km east-northeast of Bald Hill. The antenna structure registration number is 1062616. The included Exhibit E-1 shows a sketch of the tower and pertinent elevations.

The geographic coordinates of the tower site are:

North Latitude: 35° 45' 08"

West Longitude: 95° 48' 15"

(NAD-27)

Antenna Data

Antenna Make & Model	Dielectric, TFU-31 ETT/DP-R O6, 0.5° electrical beamtilt
Transmission Line	236.2 meters (775 feet) Dielectric DTW-1750, 17.5" transverse waveguide

The vertical pattern data and other technical exhibits are on file with the FCC in the technical submission that authorized the outstanding construction permit (FCC File No. BPCDT-20080317AFI).

Power Data

Transmitter power output (after filter loss)		30.4 kW	14.83 dBk
Transmission line loss/efficiency		90.7%	-0.424 dB
Input power to the antenna		27.6 kW	14.41 dBk
Antenna power gain	Horizontal Polarization	19.9	12.99 dB
	Vertical Polarization	13.4	11.27 dB
Effective Radiated Power	Horizontal Polarization	550 kW	27.40 dBk
	Vertical Polarization	370 kW	25.70 dBk

Special Operation Condition

There are no special operating conditions included in the CP grant dated June 17, 2008.

ABOVE MEAN SEA LEVEL

ABOVE GROUND

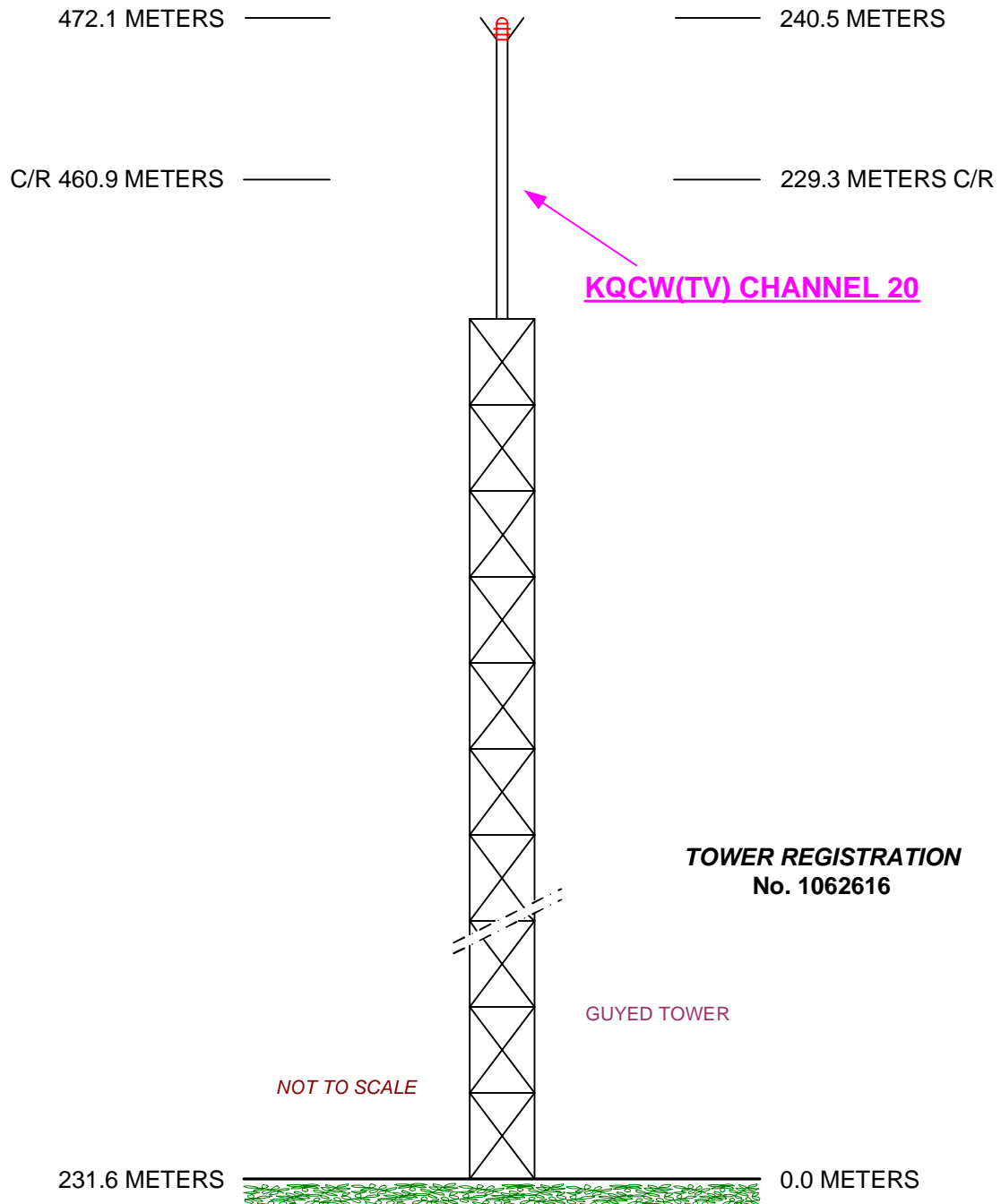


EXHIBIT E-1
VERTICAL SKETCH
FOR THE PROPOSED OPERATION OF
KQCW(TV), MUSKOGEE, OKLAHOMA
FEBRUARY 2009

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		Relationship to Applicant (e.g., Consulting Engineer)	
Signature		Date	
Mailing Address			
City		State or Country (if foreign address)	ZIP Code
Telephone Number (include area code)		E-Mail Address (if available)	

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).