

ENGINEERING STATEMENT
APPLICATION TO LICENSE OUTSTANDING
CONSTRUCTION PERMIT
(FCC FILE NO. BMPDTT-20130415ABL) FOR
K36KE-D, ARDMORE, OKLAHOMA
CHANNEL 36 15 kW ND ERP 334.2 METERS RC/AMSL

SEPTEMBER 2013

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)

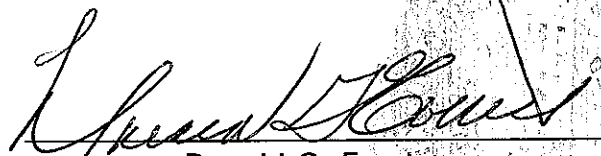
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

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 1420 N Street, N.W., Suite One, Washington, D.C. 20005;

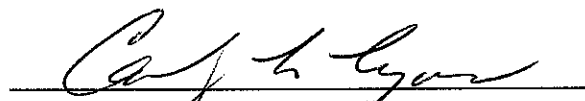
That his qualifications are a matter of record in the Federal Communications Commission;

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

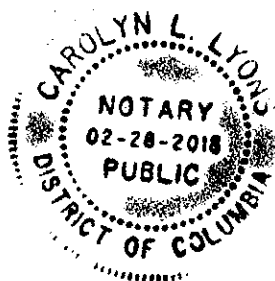
That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.


Donald G. Everist
District of Columbia
Professional Engineer
Registration No. 5714

Subscribed and sworn to before me this 6th day of September, 2013.


Notary Public

My Commission Expires: 2/28/2018



INTRODUCTION

This engineering statement has been prepared on behalf of Oklahoma Educational Television Authority ("OETA"), permittee of TV translator K36KE-D, Ardmore, Oklahoma. This statement accompanies a request to license the outstanding construction permit (FCC File No. BMPDTT-20130415ABL) of 15 kW at a radiation center above mean sea level ("RCAMSL") of 334.2 meters.

TRANSMITTER SITE

The antenna is top-mounted on an existing tower. The existing tower is located 0.6 miles east of Intersection I-35 and State Highway 142, Ardmore, Oklahoma. The geographic coordinates of the site are:

North Latitude: 34° 12' 10"

West Longitude: 97° 09' 12"

NAD-27

EQUIPMENT DATA

Transmitter:	Type-approved
Transmission Line:	RFS, Type HCA 158-50J air dielectric, 1-5/8", 76.2 meters (250 feet) with 75% efficiency [0.5 dB loss/100 ft]
Out-of-Channel Emission Mask:	Simple

Antenna: Radio Frequency Systems PTY LTD, model number RD8OM-5786 38L1T00 with maximum power gain of 14.39 (11.58 dB) and 0.5° electrical beam tilt

POWER DATA

Transmitter:	1.39 kW	1.429 dB
Transmission Line Efficiency/Loss:	75%	1.25 dB
Input Into Antenna:	1.042	0.179 dB
Antenna Gain:	14.39	11.58 dB
ERP:	15 kW	11.76 dB

ELEVATION DATA

Elevation of site above mean sea level	268.8 meters (881.9 feet)
Center of radiation of antenna above ground level	65.4 meters (214.5 feet)
Center of radiation of antenna above mean sea level	334.2 meters (1096.4 feet)
Overall height of tower above ground	68.9 meters (226 feet)

As indicated above, the transmitter with typical power output of 1.39 kW will deliver 1.042 kW to the input of the antenna. The antenna, having a maximum power gain of 14.39 and an electrical beam tilt of 0.5°, produces an ERP of 15 kW.

OETA accepts special operating conditions 1 and 2 on the outstanding construction permit.

OETA will reduce power or terminate emissions as required in coordination with other licenses and workmen on the tower.

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. Frequency Offset
☐ No offset ☐ Zero offset ☐ Plus offset ☐ Minus offset
3. Antenna Location Coordinates: (NAD 27)
_____ ° _____ ' _____ " ☐ N ☐ S Latitude
_____ ° _____ ' _____ " ☐ E ☐ W Longitude
4. Maximum Effective Radiated Power (ERP) Toward Radio Horizon: _____ kW
5. Maximum ERP in any horizontal and vertical angle: _____ kW

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

CERTIFICATION

All applicants must complete this section.

6. **Constructed Facility.** The facility was constructed as authorized in the underlying construction permit. ☐ Yes ☐ No

See Explanation in Exhibit No.
7. **Special Operating Conditions.** The facility was constructed in compliance with all special operating conditions, terms, and obligations described in the construction permit. ☐ Yes ☐ No

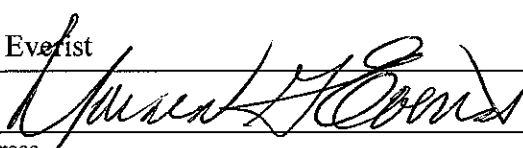
See Explanation in Exhibit No.

Exhibit No.
9

PREPARER'S CERTIFICATION ON PAGE 4 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 September 6, 2013	
Mailing Address Cohen, Dippell and Everist, P.C., 1420 N Street, NW, Suite One			
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).