

ENGINEERING STATEMENT
APPLICATION FOR LICENSE TO COVER THE OUTSTANDING
DTV CONSTRUCTION PERMIT FOR
DIGITAL TELEVISION TRANSLATOR
(FCC FILE NO. BMPDTV-20110629AAK)
K11WQ-D, WEST KNEES, MONTANA
FACILITY ID NO. 182691
CHANNEL 11 300 WATTS ND ERP 1192.4 METERS RC/AMSL

AUGUST 2011

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

COHEN, DIPPELL AND EVERIST, P. C.

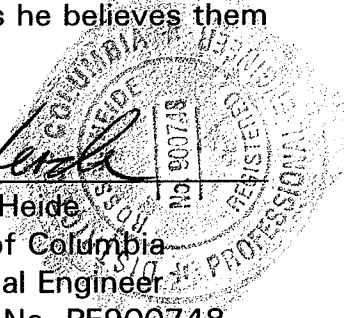
City of Washington)
) ss
District of Columbia)

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 1420 N Street, N.W., Suite One, 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
District of Columbia
Professional Engineer
Registration No. PE900748

Subscribed and sworn to before me this 17th day of August, 2011.



Notary Public

My Commission Expires: 2/28/2013

INTRODUCTION

This engineering statement has been prepared on behalf of KRTV Communications, Inc. ("KRTV"), permittee of TV translator K11WQ-D, West Knees, Montana. This statement supports the licensee's request for license to cover the outstanding construction permit ("CP") FCC File No. BMPDTV-20110629AAK. KRTV has constructed and is operating the Channel 11 facility with an authorized DTV effective radiated power ("ERP") of 300 Watts at a radiation center above mean sea level ("RCAMSL") of 1192.4 meters.

TRANSMITTER SITE

The existing tower has not been significantly altered and the coordinates remain unchanged. The geographic coordinates of the site follow below.

North Latitude: 48° 00' 55"

West Longitude: 111° 20' 59.5"

NAD-27

ELEVATION DATA

Elevation of site above mean sea level	1174 meters (3851.7 feet)
Center of radiation of antenna above ground level	18.4 meters (60.4 feet)
Center of radiation of antenna above mean sea level	1192.4 meters (3912.1 feet)
Overall height of tower above ground	24.5 meters (80.4 feet)

The existing tower is less than 81 ft. and TOWAIR indicates that the structure does not require registration.

EQUIPMENT DATA

Transmitter:	Type-approved
Transmission Line:	Andrew, Type LDF4-50A, 1/2", 50 Ω foam heliax 24.4 meters (80 feet) or equivalent 0.981 dB loss/100 ft
Antenna:	Scala, HDCA-10/HRM/75N stacked yagi with a gain of 11.2 (10.5 dB) and 0.0° electrical beamtilt; see Exhibit E-2
Emission Mask:	Simple

POWER DATA

Transmitter:	32.1 watts	15.06 dBW
Transmission Line Efficiency/Loss:	83.47%	0.785 dB
Input Into Antenna:	26.79 watts	12.28 dBW
Antenna Gain:	11.2	10.5 dB
ERP:	300 watts	24.77 dBW (-5.23 dBk)

The facility was constructed in compliance with all special operating conditions, terms, and obligations described in the 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: _____
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.
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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 Ross J. Heide		Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer	
Signature <i>Ross Heide</i>		Date August 17, 2011	
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).