



(REFERENCE COPY - Not for submission)

# DTV Engineering STA Application

File Number: **0000078345** | Submit Date: **07/19/2019** | Call Sign: **WUNE-TV** | Facility ID: **69114** | FRN: **0001910066** |

State: **North Carolina** | City: **LINVILLE**

Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **07/31/2019** | Expiration Date: |

Filing Status: **InActive**

General Information

Section	Question	Response
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Fees, Waivers, and Exemptions

Section	Question	Response
Waivers	Does this filing request a waiver of the Commission's rule(s)?	No
	Total number of rule sections involved in this waiver request:	

**Applicant  
Information**

**Applicant Name, Type, and Contact Information**

Applicant	Address	Phone	Email	Applicant Type
University of North Carolina Applicant Doing Business As: University of North Carolina	PO Box 27709 RESEARCH TRIANGLE PA, NC 27709 United States	+1 (919) 549- 7000	fcc_notice@unctv. org	Other

**Authorization Holder Name**

Check box if the Authorization Holder name is being updated because of the sale (or transfer of control) of the Authorization(s) to another party and for which proper Commission approval has not been received or proper notification provided.

Contact  
Representatives  
(4)

Contact Name	Address	Phone	Email	Contact Type
<b>Joseph M. Davis , P.E. .</b> <i>Consulting Engineer</i> Chesapeake RF Consultants, LLC	207 Old Dominion Road Yorktown, VA 23692 United States	+1 (703) 650- 9600	Joseph.Davis@RF- consultants.com	Technical Representative
<b>Stephen Hartzell</b> Brooks, Pierce et al.	150 Fayetteville Street Suite 1700 Raleigh, NC 27601 United States	+1 (919) 839- 0300	shartzell@brookspierce. com	Legal Representative
<b>Donald W Smith W Smith</b> University of North Carolina	PO Box 14900 10 UNC-TV DRIVE RESEARCH TRIANGLE PA, NC 27709 United States	+1 (919) 549- 7025	DSMITH@UNCTV.ORG	Technical Representative
<b>Marcus W Trathen W Trathen</b> Brooks, Pierce et al.	150 Fayetteville Street Suite 1700 Raleigh, NC 27601 United States	+1 (919) 839- 0300	mtrathen@brookspierce. com	Legal Representative

Channel and  
Facility  
Information

Section	Question	Response
Proposed Community of License	Facility ID	69114
	State	North Carolina
	City	LINVILLE
	DTV Channel	17
	Designated Market Area	CHARLOTTE
Facility Type	Facility Type	Noncommercial Educational
	Station Type	Main
Zone	Zone	2

Antenna Location  
Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1014575
Coordinates (NAD83)	Latitude	36° 03' 50.0" N+
	Longitude	081° 50' 32.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	136.9 meters
	Support Structure Height	122.0 meters
	Ground Elevation (AMSL)	1404.0 meters
Antenna Data	Height of Radiation Center Above Ground Level	128 meters
	Height of Radiation Center Above Average Terrain	546 meters
	Height of Radiation Center Above Mean Sea Level	1532.0 meters
	Effective Radiated Power	58 kW

Antenna  
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	88383
Antenna Manufacturer and Model	Manufacturer:	AND
	Model	ATW19HS5-ETC2-17H
	Rotation	0 degrees
	Electrical Beam Tilt	1.2
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Elliptical
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.241	90	0.977	180	0.895	270	0.652
10	0.203	100	0.998	190	0.934	280	0.52
20	0.249	110	0.997	200	0.975	290	0.372
30	0.372	120	0.975	210	0.997	300	0.246
40	0.52	130	0.934	220	0.998	310	0.203
50	0.652	140	0.895	230	0.977	320	0.241
60	0.761	150	0.874	240	0.931	330	0.309
70	0.856	160	0.869	250	0.856	340	0.341
80	0.931	170	0.874	260	0.761	350	0.309

Additional Azimuths

Degree	V <sub>A</sub>
215	1
105	1

## Certification

Section	Question	Response
General Certification Statements	The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by authorization or otherwise, and requests an Authorization in accordance with this application (See Section 304 of the Communications Act of 1934, as amended.).	
	The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002 (c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.	
Authorized Party to Sign	<b>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</b> Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application. WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, §312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, §503).	
	I certify that this application includes all required and relevant attachments.	Yes
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	<b>Thomas Brooks Skinner</b> <b>Brooks Skinner</b> <i>Associate General Manager and General Counsel</i>  07/19/2019

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>WUNE-TV Pre-Transition Channel Interim Operation with Back-up Transmitter STA Request July 2019.pdf</u>	Applicant	General Information	WUNE-TV Reduced Power STA Request