



(REFERENCE COPY - Not for submission)

# DTV Engineering STA Application

File Number: **0000112035** | Submit Date: **04/10/2020** | Call Sign: **WNTV** | Facility ID: **61010** | FRN: **0001861160** | State: **South Carolina** | City: **GREENVILLE**  
Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **04/17/2020** | Expiration Date: **07/03/2020**  
Filing Status: **Active**

## 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**

<b>Applicant</b>	<b>Address</b>	<b>Phone</b>	<b>Email</b>	<b>Applicant Type</b>
<b>SOUTH CAROLINA EDUCATIONAL TV COMMISSION</b> Doing Business As: SOUTH CAROLINA EDUCATIONAL TV COMMISSION	Mark Jahnke 1041 GEORGE ROGERS BOULEVARD COLUMBIA, SC 29201 United States	+1 (803) 737-3486	mjahnke@scetv.org	Government Entity

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**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  
(2)**

Contact Name	Address	Phone	Email	Contact Type
<b>Todd D. Gray</b> GRAY MILLER PERSH LLLP	1200 NEW HAMPSHIRE AVE NW SUITE 410 WASHINGTON, DC 20036 United States	+1 (202) 776-2571	TGRAY@GRAYMILLERPERSH. COM	Legal Representative
<b>Ryan Wilhour</b> <i>Consulting Engineers</i> Kessler and Gehman Associates, Inc.	Kessler and Gehman Associates, Inc. 507 NW 60th ST., STE D Gainesville, FL 32607 United States	+1 (352) 332-3157	ryan@kesslerandgehman.com	Technical Representative

**Channel and Facility Information**

Section	Question	Response
<b>Proposed Community of License</b>	Facility ID	61010
	State	South Carolina
	City	GREENVILLE
	DTV Channel	8
	Designated Market Area	GREENVLL-SPART-ASHEVLL-AND
<b>Facility Type</b>	Facility Type	Noncommercial Educational
	Station Type	Main
<b>Zone</b>	Zone	2

**Antenna Location Data**

Section	Question	Response
<b>Antenna Structure Registration</b>	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1059181
<b>Coordinates (NAD83)</b>	Latitude	34° 56' 29.0" N+
	Longitude	082° 24' 37.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	89.3 meters
	Support Structure Height	71.6 meters
	Ground Elevation (AMSL)	617.8 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	66.1 meters
	Height of Radiation Center Above Average Terrain	377.5 meters
	Height of Radiation Center Above Mean Sea Level	683.9 meters
	Effective Radiated Power	62 kW

**Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	97513
<b>Antenna Manufacturer and Model</b>	Manufacturer:	DIE
	Model	THA-C3-3HD/9H-1-H
	Rotation	0 degrees
	Electrical Beam Tilt	0.5
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
<b>DTV and DTS: Elevation Pattern</b>	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	0.519	90	0.999	180	0.84	270	0.494
10	0.624	100	0.952	190	0.843	280	0.406
20	0.714	110	0.838	200	0.788	290	0.257
30	0.801	120	0.799	210	0.808	300	0.102
40	0.888	130	0.859	220	0.884	310	0.026
50	0.945	140	0.94	230	0.941	320	0.007
60	0.881	150	0.841	240	0.875	330	0.071
70	0.858	160	0.751	250	0.729	340	0.201
80	0.932	170	0.769	260	0.588	350	0.377

**Additional Azimuths**

Degree	V <sub>A</sub>
91	1

**Certification**

Section	Question	Response
<p><b>General Certification Statements</b></p>	<p>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.).</p>	
	<p>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.</p>	
<p><b>Authorized Party to Sign</b></p>	<p><b>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</b></p> <p>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.</p> <p>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).</p>	
	<p>I certify that this application includes all required and relevant attachments.</p>	<p>Yes</p>
	<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Mark Jahnke</b>  <i>Vice President and CIO</i></p> <p>04/10/2020</p>

## Attachments

File Name	Uploaded By	Attachment Type	Description
<a href="#">WNTV_Engineering_STA_Narrative.pdf</a>	Applicant	General Information	WNTV Engineering STA Narrative