

## (REFERENCE COPY - Not for submission)

# **DTV Engineering STA Application**

 File Number: 0000079024
 Submit Date: 07/30/2019
 Call Sign: WRJA-TV
 Facility ID: 61012
 FRN: 0001861160

 State: South Carolina
 City: SUMTER

 Service: DTV
 Purpose: Engineering STA
 Status: Granted
 Status Date: 08/06/2019
 Expiration Date:

 Filing Status: InActive

General Information	Section	Question	Response
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 Name, Type, and Contact Information

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

#### **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 (3)	Contact Name	Address	Phone	Email	Contact Type
	<b>Margaret L. Miller L.</b> <b>Miller</b> GRAY MILLER PERSH LLP	2233 Wisconsin Ave NW Ste 226 SUITE 410 Washington, DC 20007 United States	+1 (202) 776-2914	MMILLER@GRAYMILLERPERSH. COM	Legal Representative
	<b>Derek Teslik</b> Gray Miller Persh, LLP	2233 Wisconsin Ave NW Ste 226 Washington, DC 20007- 4119 United States	+1 (202) 559-7489	dteslik@graymillerpersh.com	Legal Representative
	<b>Ryan Wilhour Wilhour</b> Kessler and Gehman Associates, Inc.	Kessler and Gehman Associates, Inc. 507 NW 60th, STE D Gainesville, FL 32607 United States	+1 (352) 332-3157	ryan@kesslerandgehman.com	Technical Representative

Channel and Facility Information	Section	Question	Response
	Proposed Community of	Facility ID	61012
	License	State	South Carolina
		City	SUMTER
		DTV Channel	28
		Designated Market Area	COLUMBIA SC
	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	1059184
	Coordinates (NAD83)	Latitude	33° 52' 52.0" N+
		Longitude	080° 16' 14.0" W-
		Structure Type	TOWER-A free standing or guyed struct
		Overall Structure Height	364.7 meters
		Support Structure Height	343.2 meters
		Ground Elevation (AMSL)	42.6 meters
	Antenna Data	Height of Radiation Center Above Ground Level	105.2 meters
		Height of Radiation Center Above Average Terrain	106.5 meters
		Height of Radiation Center Above Mean Sea Level	147.8 meters
		Effective Radiated Power	46.9 kW

Antenna Technical Data	Section	Question	Response	
	Antenna Type	Antenna Type	Directional Custom	
		Do you have an Antenna ID?	No	
		Antenna Type Directional Cust Do you have an Antenna ID? No Antenna ID 1005315 Manufacturer: Dielectric		
	Antenna Manufacturer and	Manufacturer:	Dielectric	
	Model	Model	TFU-8WB-1-R C160	
		Rotation	315 degrees	
		Electrical Beam Tilt	1.05	
		Mechanical Beam Tilt	Not Applicable	
		toward azimuth		
		Polarization	Horizontal	
	DTV and DTS: Elevation Pattern	patterns that vary with azimuth for reasons other than the	No	

# Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.792	90	0.898	180	0.677	270	0.898
10	0.809	100	0.851	190	0.634	280	0.937
20	0.583	110	0.780	200	0.523	290	0.972
30	0.911	120	0.672	210	0.414	300	0.996
40	0.964	130	0.533	220	0.416	310	0.995
50	0.995	140	0.413	230	0.534	320	0.966
60	0.997	150	0.411	240	0.673	330	0.913
70	0.974	160	0.521	250	0.781	340	0.854
80	0.938	170	0.632	260	0.851	350	0.809

#### **Additional Azimuths**

Degree	V <sub>A</sub>
55	1.000
305	0.999

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	<ul> <li>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</li> <li>Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements.</li> <li>Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization.</li> <li>Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application.</li> <li>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).</li> </ul>	
		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.	Mark Jahnke Jahnke Vice President and CIO 07/30/2019

Attachments	File Name	Uploaded By	Attachment Type	Description
	TFU-8WB-1-R C160 EZ-Prop 2016.pdf	Applicant	All Purpose	Antenna Technical Information
	WRJA Engineering STA Narrative.pdf	Applicant	General Information	WRJA Engineering STA Narrative