



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000109081** | Submit Date: **03/25/2020** | Call Sign: **WTJX-TV** | Facility ID: **70287** | FRN: **0006610273** | State: **Virgin Islands** | City: **CHARLOTTE AMALIE**
Service: **DTV** | Purpose: **Engineering STA** | Status: **Pending** | Status Date: **03/25/2020** | 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

Applicant	Address	Phone	Email	Applicant Type
VIRGIN ISLANDS PUBLIC BROADCASTING SYSTEM Doing Business As: WTJX-TV	TANYA-MARIE SINGH PO Box 7879 CHARLOTTE AMALIE, ST. THOMAS, VI 00801 United States	+1 (340) 774-6255	tsingh@wtjx. org	Government Entity

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
Brad Deutsch <i>Attorney</i> Foster Garvey PC	1000 Potomac Street, NW Suite 200 Washington, DC 20007 United States	+1 (202) 298- 1793	brad.deutsch@foster.com	Legal Representative
Robert Gehman , Jr. . <i>Consulting Engineer</i> Kessler and Gehman Associates, Inc.	Robert Gehman, Jr. 507 NW 60TH ST STE D Gainesville, FL 32607 United States	+1 (352) 332- 3157	rgehman@kesslerandgehman. com	Technical Representative
Ryan C Wilhour <i>Consulting Engineer</i> 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
Proposed Community of License	Facility ID	70287
	State	Virgin Islands
	City	CHARLOTTE AMALIE
	DTV Channel	44
	Designated Market Area	VIRGIN ISLANDS
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	1244135
Coordinates (NAD83)	Latitude	18° 21' 20.8" N+
	Longitude	064° 56' 51.5" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	78.0 meters
	Support Structure Height	78.0 meters
	Ground Elevation (AMSL)	445.7 meters
Antenna Data	Height of Radiation Center Above Ground Level	74.1 meters
	Height of Radiation Center Above Average Terrain	505.2 meters
	Height of Radiation Center Above Mean Sea Level	519.8 meters
	Effective Radiated Power	50 kW

**Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	96252
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TLP-8 S180
	Rotation	0 degrees
	Electrical Beam Tilt	0.5
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
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	0.242	90	0.952	180	0.995	270	0.419
10	0.235	100	0.976	190	0.988	280	0.303
20	0.303	110	0.988	200	0.976	290	0.235
30	0.419	120	0.995	210	0.952	300	0.242
40	0.547	130	0.998	220	0.913	310	0.293
50	0.668	140	1	230	0.854	320	0.338
60	0.772	150	1	240	0.772	330	0.355
70	0.854	160	1	250	0.668	340	0.338
80	0.913	170	0.998	260	0.547	350	0.293

Additional Azimuths

Degree	V _A
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Certification

Section	Question	Response
<p>General Certification Statements</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>Authorized Party to Sign</p>	<p>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</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>Tanya-Marie Singh <i>Chief Executive Officer</i></p> <p>03/25/2020</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
WTJX-TV Engineering STA Extension Request.pdf	Applicant	All Purpose	