



(REFERENCE COPY - Not for submission)

# DTV Engineering STA Application

File Number: **0000064412** | Submit Date: **12/28/2018** | Call Sign: **WUJA** | Facility ID: **8156** | FRN: **0005412069** | State: **Puerto Rico** | City: **CAGUAS**  
Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **01/07/2019** | Expiration Date: **07/10/2019**  
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
<b>CAGUAS EDUCATIONAL TV, INC.</b> Doing Business As: CAGUAS EDUCATIONAL TV, INC.	Otoniel Font PO Box 3869 Carolina, PR 00984 United States	+1 (787) 625-5858	conciliofav@hotmail. com	Private Not-for-Profit Educational Institution

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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>Alejandro Luciano , PE .</b> <i>Consulting Engineer</i> Alejandro Luciano PE	Alejandro Luciano PE PO Box 194528 San Juan, PR 00919 United States	+1 (787) 717- 6984	aluciano@aluciano. com	Technical Representative
<b>Francisco R Montero , Esq .</b> Fletcher, Heald & Hildreth, PLC	1300 N 17th Street 11th Floor Arlington, VA 22209 United States	+1 (703) 812- 0400	montero@fhhlaw.com	Legal Representative

**Channel and Facility Information**

Section	Question	Response
<b>Proposed Community of License</b>	Facility ID	8156
	State	Puerto Rico
	City	CAGUAS
	DTV Channel	24
	Designated Market Area	NA
<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?	No
	ASR Number	
<b>Coordinates (NAD83)</b>	Latitude	18° 16' 40.8" N+
	Longitude	066° 06' 31.5" W-
	Structure Type	UTOWER-Unguyed - Free Standing Tower
	Overall Structure Height	36.6 meters
	Support Structure Height	36.6 meters
	Ground Elevation (AMSL)	501.1 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	31 meters
	Height of Radiation Center Above Average Terrain	312 meters
	Height of Radiation Center Above Mean Sea Level	532.1 meters
	Effective Radiated Power	50 kW

**Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	85442
<b>Antenna Manufacturer and Model</b>	Manufacturer:	ERI
	Model	ALP16L6-HSW-48
	Rotation	44 degrees
	Electrical Beam Tilt	1.5
	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
<b>0</b>	1	<b>90</b>	0.922	<b>180</b>	0.241	<b>270</b>	0.922
<b>10</b>	0.985	<b>100</b>	0.845	<b>190</b>	0.253	<b>280</b>	0.975
<b>20</b>	0.951	<b>110</b>	0.75	<b>200</b>	0.302	<b>290</b>	0.997
<b>30</b>	0.925	<b>120</b>	0.68	<b>210</b>	0.397	<b>300</b>	0.99
<b>40</b>	0.929	<b>130</b>	0.605	<b>220</b>	0.51	<b>310</b>	0.959
<b>50</b>	0.959	<b>140</b>	0.51	<b>230</b>	0.605	<b>320</b>	0.929
<b>60</b>	0.99	<b>150</b>	0.397	<b>240</b>	0.68	<b>330</b>	0.925
<b>70</b>	0.997	<b>160</b>	0.302	<b>250</b>	0.758	<b>340</b>	0.951
<b>80</b>	0.975	<b>170</b>	0.253	<b>260</b>	0.845	<b>350</b>	0.985

**Additional Azimuths**

Degree	V <sub>A</sub>
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**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>Robert E. Gomez</b> <i>Secretary</i></p> <p>12/28/2018</p>

## Attachments

File Name	Uploaded By	Attachment Type	Description
<a href="#">Reason for WUJA-DT Engineering STA Extension Request.pdf</a>	Applicant	General Information	