



(REFERENCE COPY - Not for submission)

DTS Engineering STA Application

File Number: **0000067087** | Submit Date: **01/18/2019** | Call Sign: **WQTO** | Facility ID: **2175** | FRN: **0001731298** | State: **Puerto Rico** | City: **PONCE**
Service: **DTS** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **02/07/2019** | Expiration Date: **08/07/2019**
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
SISTEMA UNIVERSITARIO ANA G. MENDEZ, INC. Doing Business As: SISTEMA UNIVERSITARIO ANA G. MENDEZ, INC.	P.O. BOX 21345 SAN JUAN, PR 00928 United States	+1 (787) 766-2600	CA_ADIAZ@SUAGM. EDU	Private Not-for-Profit Educational Institution

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
Todd D. Gray Gray Miller Persh LLP	1200 New Hampshire Ave., NW Suite 410 Washington, DC 20036 United States	+1 (202) 776- 2571	tgray@graymillerpersh. com	Legal Representative
Benjamin Pidek <i>Consulting Engineer</i> Mid-State Consultants	6197 Miller Rd., Suite 1 Swartz Creek, MI 48473 United States	+1 (810) 226- 0750	bpidek@mscon.com	Technical Representative

Channel and Facility Information

Section	Question	Response
Facility ID	2175	
State	Puerto Rico	
City	PONCE	
DTS Channel	19	
Facility Type	Facility Type	Noncommercial Educational
	Station Type	Main
Zone	Zone	2

DTS Reference Point

Section	Question	Response
Construction Permit File Number and Facility ID	File Number for Current Authorized Service Area:	000028318
	Facility ID	2175
Coordinates (NAD83)	Latitude	18° 04' 41.0" N+
	Longitude	066° 44' 54.0" W-

Site 1: Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1231838
Coordinates (NAD83)	Latitude	18° 04' 41.0" N+
	Longitude	066° 44' 54.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	74.1 meters
	Support Structure Height	60.1 meters
	Ground Elevation (AMSL)	615.1 meters
Antenna Data	Height of Radiation Center Above Ground Level	66 meters
	Height of Radiation Center Above Average Terrain	310 meters
	Height of Radiation Center Above Mean Sea Level	681.1 meters
	Effective Radiated Power	696 kW

**Site 1: Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	107424
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-22DSC P230 DC
	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?	Yes
	Rotation	0 degrees
	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	0.566	90	1	180	0.566	270	1
10	0.542	100	0.959	190	0.542	280	0.959
20	0.482	110	0.844	200	0.482	290	0.844
30	0.418	120	0.683	210	0.418	300	0.683
40	0.417	130	0.52	220	0.417	310	0.52
50	0.52	140	0.417	230	0.52	320	0.417
60	0.683	150	0.418	240	0.683	330	0.418
70	0.844	160	0.482	250	0.844	340	0.482
80	0.959	170	0.542	260	0.959	350	0.542

Additional Azimuths

Degree	V _A
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**Site 2: Antenna
Location Data**

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	No
	ASR Number	
Coordinates (NAD83)	Latitude	18° 18' 58.8" N+
	Longitude	067° 10' 47.6" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	61 meters
	Support Structure Height	61 meters
	Ground Elevation (AMSL)	350 meters
Antenna Data	Height of Radiation Center Above Ground Level	38 meters
	Height of Radiation Center Above Average Terrain	334 meters
	Height of Radiation Center Above Mean Sea Level	388 meters
	Effective Radiated Power	13.1 kW

**Site 2: Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	107425
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-16DSB/VP-R P270 SO
	Electrical Beam Tilt	3
	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?	Yes
	Rotation	0 degrees
	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	1	90	0.353	180	1	270	0.353
10	0.961	100	0.332	190	0.961	280	0.332
20	0.851	110	0.283	200	0.851	290	0.283
30	0.685	120	0.256	210	0.685	300	0.256
40	0.497	130	0.332	220	0.497	310	0.332
50	0.332	140	0.496	230	0.332	320	0.496
60	0.256	150	0.685	240	0.256	330	0.685
70	0.283	160	0.851	250	0.283	340	0.85
80	0.332	170	0.961	260	0.332	350	0.961

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>Ricardo Rodriguez <i>Executive VP and COO</i></p> <p>01/18/2019</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>WQTO Request for STA to Commence Operations on DTS 1.pdf</u>	Applicant	All Purpose	