Approved by OMB (Office of Management and Budget) 3060-0386
July 2002

Federal Communications Commission

(REFERENCE COPY - Not for submission)

DTS Engineering STA Application

File Number: **0000054291** | Submit Date: **05/21/2018** | Call Sign: **WQTO** | Facility ID: **2175** | FRN: **0001731298** | State: **Puerto Rico** | City: **PONCE**

Service: **DTS** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **05/31/2018** | 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 Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
SISTEMA UNIVERSITARIO ANA G. MENDEZ, INC. **Applicant** 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	Other

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 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 Pidek 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
Proposed Community of License	Facility ID	2175
	State	Puerto Rico
	City	PONCE
	DTS Channel	25
	Designated Market Area	PUERTO RICO
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:	
	Facility ID	
Coordinates (NAD83)	Latitude	- -
	Longitude	- -

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	800 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?	
	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

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	15 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?	
	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

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	**FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID** 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. 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).	
	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.	**Margarita T. Millan T. Millan** *Vice President and General Manager* 05/21/2018

Attachments

File Name	Uploaded By	Attachment Type	Description
REDUCED POWER OPERATION at WQTO.pdf	Applicant	General Information	Exhibit on WQTO Reduced Power Operation