



(REFERENCE COPY - Not for submission)

DTS Engineering STA Application

File Number: **0000111346** | Submit Date: **04/02/2020** | Call Sign: **WIPR-TV** | Facility ID: **53859** | FRN: **0005832233** | State: **Puerto Rico** | City: **SAN JUAN**
Service: **DTS** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **04/29/2020** | Expiration Date: **09/28/2020**
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
PUERTO RICO PUBLIC BROADCASTING CORPORATION	Marietty Lasanta PO Box 190909 SAN JUAN, PR 00919 United States	+1 (787) 766- 1656	MLasanta@wipr. pr	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
(2)**

Contact Name	Address	Phone	Email	Contact Type
Mark Denbo <i>Counsel</i> Smithwick & Belendiuk, P.C.	5028 Wisconsin Avenue, N.W. SUITE 301 WASHINGTON, DC 20016 United States	+1 (202) 350- 9656	MDENBO@FCCWORLD. COM	Legal Representative
Alejandro Luciano <i>Consultant 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

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	53859
	State	Puerto Rico
	City	SAN JUAN
	DTS Channel	26
	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:	0000004434
	Facility ID	53859
Coordinates (NAD83)	Latitude	18° 06' 34.8" N+
	Longitude	066° 03' 03.5" 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	1010730
Coordinates (NAD83)	Latitude	18° 06' 35.0" N+
	Longitude	066° 03' 04.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	332.5 meters
	Support Structure Height	306.9 meters
	Ground Elevation (AMSL)	900.7 meters
Antenna Data	Height of Radiation Center Above Ground Level	222 meters
	Height of Radiation Center Above Average Terrain	776 meters
	Height of Radiation Center Above Mean Sea Level	1122.7 meters
	Effective Radiated Power	1000 kW

**Site 1: Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	109320
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-26JSC-R-CT150SP
	Electrical Beam Tilt	1.5
	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	0.875	90	0.863	180	0.289	270	0.919
10	0.844	100	0.744	190	0.542	280	0.864
20	0.864	110	0.542	200	0.744	290	0.845
30	0.919	120	0.289	210	0.863	300	0.875
40	0.973	130	0.214	220	0.921	310	0.932
50	0.997	140	0.384	230	0.957	320	0.981
60	0.986	150	0.465	240	0.986	330	1
70	0.957	160	0.384	250	0.997	340	0.981
80	0.921	170	0.214	260	0.973	350	0.932

Additional Azimuths

Degree	V _A
288	0.845
174	0.194
126	0.194
12	0.845

**Site 2: Antenna
Location Data**

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1012235
Coordinates (NAD83)	Latitude	18° 19' 46.0" N+
	Longitude	065° 41' 10.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	122.8 meters
	Support Structure Height	122.8 meters
	Ground Elevation (AMSL)	264.9 meters
Antenna Data	Height of Radiation Center Above Ground Level	80 meters
	Height of Radiation Center Above Average Terrain	250 meters
	Height of Radiation Center Above Mean Sea Level	344.9 meters
	Effective Radiated Power	10 kW

**Site 2: Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	109321
Antenna Manufacturer and Model	Manufacturer:	ERI
	Model	ALP12L12-HSPR-43
	Electrical Beam Tilt	3
	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	70 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	0.734	90	0.894	180	0.221	270	0.894
10	0.75	100	0.795	190	0.204	280	0.966
20	0.794	110	0.674	200	0.176	290	0.998
30	0.853	120	0.531	210	0.179	300	0.993
40	0.912	130	0.377	220	0.247	310	0.961
50	0.961	140	0.247	230	0.377	320	0.912
60	0.993	150	0.179	240	0.531	330	0.853
70	0.998	160	0.176	250	0.674	340	0.794
80	0.966	170	0.204	260	0.795	350	0.75

Additional Azimuths

Degree	V _A
67	1
293	1

**Site 3: Antenna
Location Data**

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1041596
Coordinates (NAD83)	Latitude	18° 13' 59.0" N+
	Longitude	066° 45' 35.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	167.0 meters
	Support Structure Height	167.0 meters
	Ground Elevation (AMSL)	930.0 meters
Antenna Data	Height of Radiation Center Above Ground Level	75 meters
	Height of Radiation Center Above Average Terrain	519 meters
	Height of Radiation Center Above Mean Sea Level	1005.0 meters
	Effective Radiated Power	10 kW

**Site 3: Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	109322
Antenna Manufacturer and Model	Manufacturer:	ERI
	Model	ALP12L12-HSPR-43
	Electrical Beam Tilt	3
	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	80 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	0.734	90	0.894	180	0.221	270	0.894
10	0.75	100	0.795	190	0.204	280	0.966
20	0.794	110	0.674	200	0.176	290	0.998
30	0.853	120	0.531	210	0.179	300	0.993
40	0.912	130	0.377	220	0.247	310	0.961
50	0.961	140	0.247	230	0.377	320	0.912
60	0.993	150	0.179	240	0.531	330	0.853
70	0.998	160	0.176	250	0.674	340	0.794
80	0.966	170	0.204	260	0.795	350	0.75

Additional Azimuths

Degree	V _A
67	1
293	1

**Site 4: Antenna
Location Data**

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1011496
Coordinates (NAD83)	Latitude	18° 15' 54.0" N+
	Longitude	066° 05' 06.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	87.0 meters
	Support Structure Height	71.0 meters
	Ground Elevation (AMSL)	420.0 meters
Antenna Data	Height of Radiation Center Above Ground Level	64 meters
	Height of Radiation Center Above Average Terrain	776 meters
	Height of Radiation Center Above Mean Sea Level	484.0 meters
	Effective Radiated Power	250 kW

**Site 4: Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	20415
Antenna Manufacturer and Model	Manufacturer:	PSI
	Model	PSILP24AOC
	Electrical Beam Tilt	1.5
	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?	No
	Rotation	65 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	0.668	180	0.676	270	0.668
10	0.994	100	0.631	190	0.672	280	0.715
20	0.978	110	0.609	200	0.659	290	0.767
30	0.951	120	0.602	210	0.642	300	0.82
40	0.915	130	0.608	220	0.623	310	0.871
50	0.871	140	0.623	230	0.608	320	0.915
60	0.82	150	0.642	240	0.602	330	0.951
70	0.767	160	0.659	250	0.609	340	0.978
80	0.715	170	0.672	260	0.631	350	0.994

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>Eric Delgado <i>President</i></p> <p>04/02/2020</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>WIPR-TV - Narrative Statement for STA Request - April 2020.pdf</u>	Applicant	General Information	Narrative Statement