



(REFERENCE COPY - Not for submission)

# DTS Engineering STA Application

File Number: **0000030145** | Submit Date: **09/27/2017** | Call Sign: **WSTE-DT** | Facility ID: **60341** | FRN: **0013778105**  
 State: **Puerto Rico** | City: **PONCE**  
 Service: **DTS** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **10/02/2017** | Expiration Date: **04/02/2018**  
 Filing Status: **InActive**

**General Information**

Section	Question	Response
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**Fees, Waivers, and Exemptions**

Section	Question	Response
<b>Fees</b>	Is the applicant exempt from FCC application Fees?	No
	Indicate reason for fee exemption:	
<b>Waivers</b>	Does this filing request a waiver of the Commission's rule(s)?	No
	Total number of rule sections involved in this waiver request:	

Application Type	Fee Code	Fee Amount
Engineering STA	MGT	\$190.00
<b>Total</b>		<b>\$190.00</b>

**Applicant Information**

**Applicant Name, Type, and Contact Information**

<b>Applicant</b>	<b>Address</b>	<b>Phone</b>	<b>Email</b>	<b>Applicant Type</b>
<b>WLII/WSUR LICENSE PARTNERSHIP, G.P.</b> Doing Business As: WLII/WSUR LICENSE PARTNERSHIP, G.P.	5999 CENTER DRIVE LOS ANGELES, CA 90045 United States	+1 (310) 348-3600	CWOOD@UNIVISION. NET	General Partnership

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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  
(1)**

Contact Name	Address	Phone	Email	Contact Type
<b>MACE J. ROSENSTEIN , ESQ .</b> COVINGTON & BURLING LLP	ONE CITYCENTER 850 TENTH STREET NW WASHINGTON, DC 20001 United States	+1 (202) 662- 5460	MROSENSTEIN@COV. COM	Legal Representative

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**Channel and Facility Information**

Section	Question	Response
Facility ID	60341	
State	Puerto Rico	
City	PONCE	
DTS Channel	7	
<b>Facility Type</b>	Facility Type	Commercial
	Station Type	Main
<b>Zone</b>	Zone	2

**DTS Reference Point**

Section	Question	Response
<b>Construction Permit File Number and Facility ID</b>	File Number for Current Authorized Service Area:	
	Facility ID	60341
<b>Coordinates (NAD83)</b>	Latitude	18° 09' 09.8" N+
	Longitude	066° 33' 14.6" W-

**Site 1: Antenna  
Location Data**

Section	Question	Response
<b>Antenna Structure Registration</b>	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1242492
<b>Coordinates (NAD83)</b>	Latitude	18° 02' 45.0" N+
	Longitude	066° 39' 15.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	92.4 meters
	Support Structure Height	91.4 meters
	Ground Elevation (AMSL)	255.7 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	67.2 meters
	Height of Radiation Center Above Average Terrain	88 meters
	Height of Radiation Center Above Mean Sea Level	322.9 meters
	Effective Radiated Power	25 kW

**Site 1: Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	109672
<b>Antenna Manufacturer and Model</b>	Manufacturer:	DIE
	Model	THB-C2-3H/6HD-1 DC
	Electrical Beam Tilt	0.6
	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
	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	0.362	90	0.056	180	0.996	270	0.89
10	0.203	100	0.203	190	0.96	280	0.96
20	0.056	110	0.362	200	0.89	290	0.996
30	0.001	120	0.519	210	0.81	300	0.996
40	0.001	130	0.664	220	0.823	310	0.96
50	0.001	140	0.79	230	0.874	320	0.89
60	0.001	150	0.89	240	0.874	330	0.79
70	0.001	160	0.96	250	0.823	340	0.664
80	0.001	170	0.996	260	0.81	350	0.519

**Additional Azimuths**

Degree	V <sub>A</sub>
295	1
256	0.803
235	0.883
214	0.803
175	1

**Site 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' 45.3" N+
	Longitude	066° 06' 41.8" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	32.3 meters
	Support Structure Height	21.3 meters
	Ground Elevation (AMSL)	499.6 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	26 meters
	Height of Radiation Center Above Average Terrain	306 meters
	Height of Radiation Center Above Mean Sea Level	525.6 meters
	Effective Radiated Power	10 kW

**Site 2: Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1002089
<b>Antenna Manufacturer and Model</b>	Manufacturer:	ERI
	Model	ESR-6H4-HP2C1-7/11
	Electrical Beam Tilt	1.2
	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
	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
<b>0</b>	0.905	<b>90</b>	0.786	<b>180</b>	0.514	<b>270</b>	0.234
<b>10</b>	0.978	<b>100</b>	0.807	<b>190</b>	0.366	<b>280</b>	0.092
<b>20</b>	1.00	<b>110</b>	0.886	<b>200</b>	0.221	<b>290</b>	0.038
<b>30</b>	0.967	<b>120</b>	0.967	<b>210</b>	0.109	<b>300</b>	0.109
<b>40</b>	0.886	<b>130</b>	1.00	<b>220</b>	0.05	<b>310</b>	0.221
<b>50</b>	0.807	<b>140</b>	0.978	<b>230</b>	0.1	<b>320</b>	0.366
<b>60</b>	0.786	<b>150</b>	0.905	<b>240</b>	0.25	<b>330</b>	0.514
<b>70</b>	0.816	<b>160</b>	0.792	<b>250</b>	0.342	<b>340</b>	0.656
<b>80</b>	0.816	<b>170</b>	0.656	<b>260</b>	0.336	<b>350</b>	0.792

**Additional Azimuths**

Degree	V <sub>A</sub>
<b>75</b>	0.823
<b>288</b>	0.005
<b>254</b>	0.352
<b>224</b>	0.035



**Site 3: Antenna  
Location Data**

Section	Question	Response
<b>Antenna Structure Registration</b>	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1011024
<b>Coordinates (NAD83)</b>	Latitude	18° 19' 18.0" N+
	Longitude	067° 10' 26.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	101.0 meters
	Support Structure Height	100.0 meters
	Ground Elevation (AMSL)	340.4 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	87.8 meters
	Height of Radiation Center Above Average Terrain	362 meters
	Height of Radiation Center Above Mean Sea Level	428.2 meters
	Effective Radiated Power	10 kW

**Site 3: Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	109674
<b>Antenna Manufacturer and Model</b>	Manufacturer:	DIE
	Model	CBR-BP2SP-4HBA/8H-1
	Electrical Beam Tilt	1
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Elliptical
<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
	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	0.6	90	0.562	180	0.93	270	0.201
10	0.647	100	0.514	190	0.863	280	0.217
20	0.69	110	0.422	200	0.764	290	0.189
30	0.688	120	0.455	210	0.64	300	0.147
40	0.616	130	0.63	220	0.505	310	0.179
50	0.491	140	0.817	230	0.388	320	0.249
60	0.381	150	0.946	240	0.289	330	0.316
70	0.399	160	0.998	250	0.194	340	0.42
80	0.505	170	0.982	260	0.167	350	0.522

**Additional Azimuths**

Degree	V <sub>A</sub>
163	1
162	1

**Site 4: Antenna  
Location Data**

Section	Question	Response
<b>Antenna Structure Registration</b>	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1011025
<b>Coordinates (NAD83)</b>	Latitude	18° 27' 14.0" N+
	Longitude	066° 45' 15.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	91.1 meters
	Support Structure Height	90.5 meters
	Ground Elevation (AMSL)	64.0 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	85 meters
	Height of Radiation Center Above Average Terrain	65 meters
	Height of Radiation Center Above Mean Sea Level	149.0 meters
	Effective Radiated Power	0.1 kW

**Site 4: Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	109675
<b>Antenna Manufacturer and Model</b>	Manufacturer:	ADC
	Model	T7H1.3MS2S
	Electrical Beam Tilt	Not Applicable
	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
	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
<b>0</b>	1	<b>90</b>	0.45	<b>180</b>	0.21	<b>270</b>	0.54
<b>10</b>	0.87	<b>100</b>	0.25	<b>190</b>	0.24	<b>280</b>	0.62
<b>20</b>	0.7	<b>110</b>	0.24	<b>200</b>	0.12	<b>290</b>	0.67
<b>30</b>	0.79	<b>120</b>	0.12	<b>210</b>	0.14	<b>300</b>	0.8
<b>40</b>	0.94	<b>130</b>	0.11	<b>220</b>	0.22	<b>310</b>	0.93
<b>50</b>	0.97	<b>140</b>	0.17	<b>230</b>	0.1	<b>320</b>	0.96
<b>60</b>	0.92	<b>150</b>	0.16	<b>240</b>	0.1	<b>330</b>	0.78
<b>70</b>	0.82	<b>160</b>	0.11	<b>250</b>	0.28	<b>340</b>	0.72
<b>80</b>	0.68	<b>170</b>	0.15	<b>260</b>	0.41	<b>350</b>	0.89

**Additional Azimuths**

Degree	V <sub>A</sub>
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**Site 5: 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° 08' 51.8" N+
	Longitude	066° 58' 59.6" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	48.4 meters
	Support Structure Height	48.4 meters
	Ground Elevation (AMSL)	900 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	37 meters
	Height of Radiation Center Above Average Terrain	631 meters
	Height of Radiation Center Above Mean Sea Level	937 meters
	Effective Radiated Power	0.5 kW

**Site 5: Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	109676
<b>Antenna Manufacturer and Model</b>	Manufacturer:	SCA
	Model	HDCA-5CP/RM YAGI
	Electrical Beam Tilt	Not Applicable
	Mechanical Beam Tilt	3
	toward azimuth	210
	Polarization	Circular
<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
	Rotation	210 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	0.157	180	0.16	270	0.157
10	0.967	100	0.13	190	0.153	280	0.141
20	0.875	110	0.06	200	0.14	290	0.13
30	0.733	120	0.032	210	0.117	300	0.177
40	0.561	130	0.042	220	0.08	310	0.363
50	0.363	140	0.08	230	0.042	320	0.561
60	0.177	150	0.117	240	0.032	330	0.733
70	0.13	160	0.14	250	0.06	340	0.875
80	0.141	170	0.153	260	0.13	350	0.967

**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>CHRISTOPHER G. WOOD</b>  <i>SVP ASSOC GEN COUN</i>  <i>GOV REG AFF</i></p> <p>09/27/2017</p>

**Attachments**

<b>File Name</b>	<b>Uploaded By</b>	<b>Attachment Type</b>	<b>Description</b>
<a href="#"><u>30145.pdf</u></a>	Internal	All Purpose	
<a href="#"><u>ERI Antenna Data Ch 7.pdf</u></a>	Applicant	All Purpose	Antenna Radiation Pattern Data
<a href="#"><u>WSTE STA Explanation.pdf</u></a>	Applicant	All Purpose	STA Justification & Explanation
<a href="#"><u>WSTE STA RF Exposure.pdf</u></a>	Applicant	All Purpose	RF Exposure Analysis