



(REFERENCE COPY - Not for submission)

# DTV Engineering STA Application

File Number: **0000040615** | Submit Date: **01/23/2018** | Call Sign: **WCSC-TV** | Facility ID: **71297** | FRN: **0018223693**  
 State: **South Carolina** | City: **CHARLESTON**  
 Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **02/23/2018** | Expiration Date: **08/23/2018**  
 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**

Applicant	Address	Phone	Email	Applicant Type
<b>WCSC LICENSE SUBSIDIARY, LLC</b> Doing Business As: WCSC LICENSE SUBSIDIARY, LLC	RSA TOWER, 20TH FLOOR 201 MONROE STREET MONTGOMERY, AL 36104 United States	+1 (334) 206-1400	fclms@raycommedia. com	Limited Liability Company

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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  
(3)**

Contact Name	Address	Phone	Email	Contact Type
<b>Ann W. Bobeck , Esq .</b> <i>Legal Counsel</i> Covington & Burling LLP	Ann Bobeck One CityCenter 850 Tenth Street, NW WASHINGTON, DC 20001 United States	+1 (202) 662- 5719	abobeck@cov.com	Legal Representative
<b>William Jeffrey Reynolds</b> <i>Technical Consultant</i> du Treil, Lundin & Rackley, Inc.	3135 Southgate Circle Sarasota, FL 34239 United States	+1 (941) 329- 6000	JEFF@DLR.COM	Technical Representative
<b>Robert E. Thurber , Jr. .</b> <i>Vice President, Engineering</i> Raycom Media, Inc.	RSA Tower, 20th floor 201 Monroe Street Montgomery, AL 36104 United States	+1 (334) 206- 1409	bthurber@raycommedia. com	Technical Representative

**Channel and Facility Information**

Section	Question	Response
Facility ID	71297	
State	South Carolina	
City	CHARLESTON	
DTV Channel	47	
<b>Facility Type</b>	Facility Type	Commercial
	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?	Yes
	ASR Number	1051231
<b>Coordinates (NAD83)</b>	Latitude	32° 55' 29.0" N+
	Longitude	079° 41' 57.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	609.6 meters
	Support Structure Height	609.6 meters
	Ground Elevation (AMSL)	4.9 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	519 meters
	Height of Radiation Center Above Average Terrain	520 meters
	Height of Radiation Center Above Mean Sea Level	523.9 meters
	Effective Radiated Power	473 kW

**Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1002821
<b>Antenna Manufacturer and Model</b>	Manufacturer:	DIE
	Model	TFU-16WB/VP-R C160
	Rotation	315 degrees
	Electrical Beam Tilt	0.55
	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
0	0.771	90	0.884	180	0.635	270	0.887
10	0.787	100	0.834	190	0.589	280	0.932
20	0.832	110	0.765	200	0.474	290	0.973
30	0.894	120	0.659	210	0.366	300	0.998
40	0.955	130	0.517	220	0.386	310	0.993
50	0.992	140	0.384	230	0.52	320	0.955
60	0.997	150	0.365	240	0.662	330	0.895
70	0.972	160	0.474	250	0.768	340	0.833
80	0.93	170	0.589	260	0.837	350	0.787

**Additional Azimuths**

Degree	V <sub>A</sub>
305	1.0

**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>Ellenann B. Yelverton</b>  <i>Vice President and General Counsel</i></p> <p>01/23/2018</p>

## Attachments

File Name	Uploaded By	Attachment Type	Description
<a href="#">FCC PREDICTED NLSC MAP.pdf</a>	Applicant	All Purpose	WCSC-TV STA COVERAGE MAP
<a href="#">TECHNICAL SUMMARY.pdf</a>	Applicant	General Information	TECHNICAL SUMMARY
<a href="#">VERTICAL PLANE RELATIVE FIELD PATTERN.pdf</a>	Applicant	All Purpose	VERTICAL PLANE RELATIVE FIELD PATTERN