



(REFERENCE COPY - Not for submission)

# DTV Engineering STA Application

File Number: **0000080599** | Submit Date: **08/26/2019** | Call Sign: **WRDC** | Facility ID: **54963** | FRN: **0003175148** | State: **North Carolina** | City: **DURHAM**  
 Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **08/27/2019** | Expiration Date: **02/27/2020**  
 Filing Status: **Active**

**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	\$200.00
<b>Total</b>		<b>\$200.00</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>RALEIGH (WRDC-TV) LICENSEE, INC.</b> Doing Business As: RALEIGH (WRDC-TV) LICENSEE, INC.	Harvey Arnold 10706 Beaver Dam Road Cockeysville, MD 21030 United States	+1 (410) 568- 1500	harnold@sbgstv. com	Corporation

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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  
(2)**

Contact Name	Address	Phone	Email	Contact Type
<b>Paul A. Cicelski</b> Lerman Senter PLLC	Paul Cicelski 2001 L Street, NW Suite 400 Wash, DC 20036 United States	+1 (202) 416- 6756	pcicelski@lermansenter. com	Legal Representative
<b>John E Hidle , P.E .</b> <i>Consulting Engineer</i> Carl T. Jones Corporation	John E. Hidle, PE 7901 Yarnwood Court Springfield, VA 22153- 2827 United States	+1 (703) 569- 7704	jhidle@ctjc.com	Technical Representative

**Channel and Facility Information**

Section	Question	Response
<b>Proposed Community of License</b>	Facility ID	54963
	State	North Carolina
	City	DURHAM
	DTV Channel	14
	Designated Market Area	Raleigh-Durham (Fayetteville)
<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	1027322
<b>Coordinates (NAD83)</b>	Latitude	35° 40' 29.0" N+
	Longitude	078° 31' 39.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	606.2 meters
	Support Structure Height	606.2 meters
	Ground Elevation (AMSL)	109.7 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	502.9 meters
	Height of Radiation Center Above Average Terrain	532.5 meters
	Height of Radiation Center Above Mean Sea Level	612.6 meters
	Effective Radiated Power	158.8 kW

**Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1005453
<b>Antenna Manufacturer and Model</b>	Manufacturer:	Dielectric
	Model	TFU-16WB/VP-R C160
	Rotation	315 degrees
	Electrical Beam Tilt	0.55
	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
	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	.939	90	.870	180	.678	270	.867
10	.947	100	.822	190	.643	280	.903
20	.933	110	.749	200	.552	290	.937
30	.988	120	.646	210	.460	300	.969
40	1.0	130	.527	220	.445	310	.992
50	.995	140	.444	230	.528	320	.998
60	.973	150	.459	240	.647	330	.987
70	.942	160	.552	250	.749	340	.966
80	.907	170	.642	260	.821	350	.946

**Additional Azimuths**

Degree	V <sub>A</sub>
216	.438
144	.437

**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>Lucy Rutishauser</b> <i>CFO</i></p> <p>08/26/2019</p>

## Attachments

File Name	Uploaded By	Attachment Type	Description
<a href="#"><u>Antenna Exhibits WRDC STA Request - 8-26-2019.pdf</u></a>	Applicant	General Information	WRDC - Antenna exhibits for STA request for interim operation on post repack channel 14.
<a href="#"><u>WRDC Interim Facilities STA Request.pdf</u></a>	Applicant	All Purpose	WRDC STA