



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000087206** | Submit Date: **10/23/2019** | Call Sign: **WHRO-TV** | Facility ID: **25932** | FRN: **0002062511**
State: **Virginia** | City: **HAMPTON-NORFOLK**
Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **10/25/2019** | Expiration Date: **05/01/2020**
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
HAMPTON ROADS EDUCATIONAL TELECOMMUNICATIONS ASSOC., INC. Doing Business As: HAMPTON ROADS EDUCATIONAL TELECOMMUNICATIONS ASSOC., INC.	Chris G. Gunnufsen 5200 HAMPTON BOULEVARD NORFOLK, VA 23508 United States	+1 (757) 889-9394	chris. gunnufsen@whro. org	Not-for- Profit

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
Joseph M. Davis , P.E. . <i>Consulting Engineer</i> Chesapeake RF Consultants, LLC	Joseph M. Davis 207 Old Dominion Raod Yorktown, VA 23692 United States	+1 (703) 650- 9600	Joseph.Davis@RF- consultants.com	Technical Representative
Margaret L. Miller <i>Attorney at Law</i> Gray Miller Persh LLP	2233 Wisconsin Ave NW Ste 226 Washington, DC 20007 United States	+1 (202) 776- 2914	mmiller@graymillerpersch. com	Legal Representative
Derek Teslik Gray Miller Persh, LLP	2233 Wisconsin Ave NW Ste 226 Washington, DC 20007 United States	+1 (202) 559- 7489	dteslik@graymillerpersh. com	Legal Representative

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	25932
	State	Virginia
	City	HAMPTON-NORFOLK
	DTV Channel	16
	Designated Market Area	NORFOLK-PORTSMTH-NEWPT NWS
Facility Type	Facility Type	Noncommercial Educational
	Station Type	Main
Zone	Zone	1

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1057874
Coordinates (NAD83)	Latitude	36° 48' 31.8" N+
	Longitude	076° 30' 11.3" W-
	Structure Type	GTOWER-Guyed Structure Used for Communication Purposes
	Overall Structure Height	383.7 meters
	Support Structure Height	382.5 meters
	Ground Elevation (AMSL)	7.0 meters
Antenna Data	Height of Radiation Center Above Ground Level	292.6 meters
	Height of Radiation Center Above Average Terrain	293.6 meters
	Height of Radiation Center Above Mean Sea Level	299.6 meters
	Effective Radiated Power	830 kW

**Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1005823
Antenna Manufacturer and Model	Manufacturer:	RFS
	Model	SBB-EPD-24C160
	Rotation	45 degrees
	Electrical Beam Tilt	0.75
	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
	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	0.995	90	0.825	180	0.721	270	0.857
10	0.994	100	0.720	190	0.705	280	0.924
20	0.993	110	0.593	200	0.647	290	0.962
30	0.989	120	0.469	210	0.561	300	0.979
40	0.981	130	0.398	220	0.484	310	0.988
50	0.971	140	0.421	230	0.464	320	0.994
60	0.959	150	0.511	240	0.527	330	0.999
70	0.938	160	0.612	250	0.639	340	1.000
80	0.897	170	0.688	260	0.758	350	0.998

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>Bert Schmidt <i>President and CEO</i></p> <p>10/23/2019</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>WHRO-TV STA request for interim antenna ENG 10-11-2019.pdf</u>	Applicant	All Purpose	WHRO-TV STA engineering exhibits
