

(REFERENCE COPY - Not for submission)

## **DTV Engineering STA Application**

File Number: 0000072847 | Submit Date: 05/16/2019 | Call Sign: WBXX-TV | Facility ID: 72971 | FRN: 0018223693

State: Tennessee City: CROSSVILLE

Service: **DTV** Purpose: **Engineering STA** Status: **Granted** Status Date: **06/04/2019** Expiration Date:

Filing Status: InActive

## General Information

# Fees, Waivers, and Exemptions

Section	Question	Response
Fees	Is the applicant exempt from FCC application Fees?	No
	Indicate reason for fee exemption:	
Waivers	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
	Total	\$200.00

# Applicant Information

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

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC Applicant Doing Business As: GRAY TELEVISION LICENSEE, LLC	WBXX 6450 PAPERMILL DRIVE Knoxville, TN 37919 United States	+1 (865) 450- 8888	robert. folliard@gray.tv	Other

#### **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
P.E. Joseph M. Davis M.	207 Old	+1 (703)	Joseph.Davis@RF-	Technical Representative
Davis , P.E	Dominion Road	650-9600	consultants.com	
Chesapeake RF	Yorktown, VA			
Consultants, LLC	23692			
	United States			
Sam Hariton	4031 University	+1 (339)	sam.hariton@widelity.	Compliance & Project
Widelity, Inc.	Drive	222-8107	com	Management
	Fairfax, VA			
	22030			
	United States			
Joan Stewart Stewart	1776 K Street,	+1 (202)	jstewart@wileyrein.com	Legal Representative
Wiley Rein LLP	NW	719-7438		
	Washington, DC			
	20006			
	United States			

# Channel and Facility Information

Section	Question	Response
Proposed Community of	Facility ID	72971
License	State	Tennessee
	City	CROSSVILLE
	DTV Channel	20
	Designated Market Area	Harrisburg-Lncstr-Leb-York
Facility Type	Facility Type	Commercial
	Station Type	Main
Zone	Zone	2

## Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1044870
Coordinates (NAD83)	Latitude	36° 06′ 33.0″ N+
	Longitude	084° 20' 17.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	239.1 meters
	Support Structure Height	219.4 meters
	Ground Elevation (AMSL)	987.8 meters
Antenna Data	Height of Radiation Center Above Ground Level	201.2 meters
	Height of Radiation Center Above Average Terrain	699.2 meters
	Height of Radiation Center Above Mean Sea Level	1189.0 meters
	Effective Radiated Power	480 kW

### Antenna Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1005012
Antenna Manufacturer and	Manufacturer:	RFS
Model	Model	SBB-24C170
	Rotation	0 degrees
	Electrical Beam Tilt	0.75
	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?	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	0.204	90	0.997	180	0.934	270	0.539
10	0.294	100	0.993	190	0.964	280	0.397
20	0.429	110	0.967	200	0.987	290	0.266
30	0.565	120	0.931	210	0.991	300	0.199
40	0.680	130	0.899	220	0.975	310	0.223
50	0.773	140	0.877	230	0.941	320	0.269
60	0.851	150	0.869	240	0.880	330	0.283
70	0.916	160	0.880	250	0.787	340	0.253
80	0.967	170	0.904	260	0.670	350	0.206

### **Additional Azimuths**

Degree	$V_{A}$
94	1.000
207	0.992

## Certification

Section	Question	Response
General Certification Statements	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.).	
	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.	
Authorized Party to Sign	FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID  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.  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).	
	I certify that this application includes all required and relevant attachments.	Yes
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	Robert Folliard Folliard Assistant Secretary 05/16/2019

### **Attachments**

File Name	Uploaded By	Attachment Type	Description
WBXX-TV STA request for interim antenna ENG 05-16-2019.pdf	Applicant	All Purpose	WBXX-TV STA engineering exhibits