Approved by OMB (Office of Management and Budget) 3060-0386
July 2002

Federal Communications Commission

(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000078720** | Submit Date: **07/26/2019** | Call Sign: **WAVE** | Facility ID: **13989** | FRN: **0018223693** | State: **Kentucky** | City: **LOUISVILLE**

Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **07/31/2019** | Expiration Date:

Filing Status: **InActive**

General Information

Section	Question	Response

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	Robert Folliard 4370 PEACHTREE ROAD, NE ATLANTA, GA 30319 United States	+1 (404) 504-9828	allfcclms@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
David Burke *Senior Vice President and CTO* THTV LLC	David Burke 252 Kerington Lane Pike Road, AL 36064 United States	+1 (334) 206-1475	david.burke@gray.tv	Technical Representative
David Burke M. Davis , P. E. . THTV LLC	252 Kerington Lane Pike Road, AL 36064 United States	+1 (334) 206-1475	david.burke@gray.tv	Technical Representative
Joan Stewart Stewart Wiley Rein LLP	Joan Stewart 1776 K Street NW WASHINGTON, DC 20006 United States	+1 (202) 719-7438	jstewart@wileyrein.com	Legal Representative

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	13989
	State	Kentucky
	City	LOUISVILLE
	DTV Channel	47
	Designated Market Area	Louisville
Facility Type	Facility Type	Commercial
	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	1230057
Coordinates (NAD83)	Latitude	38° 22' 08.4" N+
	Longitude	085° 49' 47.6" W-
	Structure Type	GTOWER-Guyed Structure Used for Communication Purposes
	Overall Structure Height	292.9 meters
	Support Structure Height	274.3 meters
	Ground Elevation (AMSL)	299.6 meters
Antenna Data	Height of Radiation Center Above Ground Level	221 meters
	Height of Radiation Center Above Average Terrain	329.6 meters
	Height of Radiation Center Above Mean Sea Level	520.6 meters
	Effective Radiated Power	400 kW

Antenna Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1005302
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-24WB C160H
	Rotation	150 degrees
	Electrical Beam Tilt	0.5
	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	0.959	**90**	0.842	**180**	0.575	**270**	0.837
10	0.945	**100**	0.803	**190**	0.512	**280**	0.895
20	0.923	**110**	0.762	**200**	0.353	**290**	0.957
30	0.925	**120**	0.684	**210**	0.230	**300**	0.996
40	0.958	**130**	0.543	**220**	0.348	**310**	0.993
50	0.992	**140**	0.352	**230**	0.537	**320**	0.958
60	0.994	**150**	0.232	**240**	0.676	**330**	0.924
70	0.957	**160**	0.354	**250**	0.754	**340**	0.923
80	0.897	**170**	0.513	**260**	0.796	**350**	0.945

Additional Azimuths

Degree	V_A
56	0.998
304	1.000

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 III Folliard , III .** *Assistant Secretary* 07/26/2019

Attachments

File Name	Uploaded By	Attachment Type	Description
WAVE STA request for interim antenna ENG 07-26-2019.pdf	Applicant	All Purpose	WAVE STA engineering exhibits