



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: 0000068441 | Submit Date: 03/08/2019 | Call Sign: WKYT-TV | Facility ID: 24914 | FRN: 0018223693 |

State: Kentucky | City: LEXINGTON

Service: DTV | Purpose: Engineering STA | Status: Granted | Status Date: 03/13/2019 | Expiration Date: |

Filing Status: InActive

General Information

Section	Question	Response
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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	General Manager 2851 WINCHESTER ROAD LEXINGTON, KY 40509 United States	+1 (859) 299- 0411	jeff. anderson@wkyt. com	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  
(2)

Contact Name	Address	Phone	Email	Contact Type
P.E. Joseph M. Davis M. Davis , P.E. . Chesapeake RF Consultants, LLC	207 Old Dominion Road Yorktown, VA 23692 United States	+1 (703) 650-9600	Joseph.Davis@RF-consultants.com	Technical Representative
JOAN STEWART STEWART WILEY REIN LLP	1776 K STREET N. W. 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	24914
	State	Kentucky
	City	LEXINGTON
	DTV Channel	36
	Designated Market Area	Lexington
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	1030383
Coordinates (NAD83)	Latitude	38° 02' 23.0" N+
	Longitude	084° 24' 10.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	304.8 meters
	Support Structure Height	298.7 meters
	Ground Elevation (AMSL)	301.4 meters
Antenna Data	Height of Radiation Center Above Ground Level	267.9 meters
	Height of Radiation Center Above Average Terrain	274.8 meters
	Height of Radiation Center Above Mean Sea Level	569.3 meters
	Effective Radiated Power	409 kW

Antenna  
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1004731
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-24WB C-160H
	Rotation	180 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	0.795	90	0.871	180	0.596	270	0.871
10	0.804	100	0.821	190	0.546	280	0.921
20	0.835	110	0.758	200	0.420	290	0.967
30	0.889	120	0.660	210	0.310	300	0.995
40	0.948	130	0.517	220	0.363	310	0.988
50	0.991	140	0.361	230	0.519	320	0.947
60	0.998	150	0.309	240	0.663	330	0.888
70	0.971	160	0.419	250	0.761	340	0.835
80	0.922	170	0.545	260	0.822	350	0.804

Additional Azimuths

Degree	V <sub>A</sub>
57	1.000
303	0.997

## 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	<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>	
	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.	<p><b>Robert J. Folliard III J. Folliard , III .</b>  <i>Assistant Secretary</i></p> <p>03/08/2019</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>WKYT-TV STA request for interim antenna ENG 03-07-2019.pdf</u>	Applicant	All Purpose	WKYT-TV STA engineering exhibits