



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: 0000096176 | Submit Date: 01/09/2020 | Call Sign: KWQC-TV | Facility ID: 6885 | FRN: 0018223693 | State: Iowa | City: DAVENPORT

Service: DTV | Purpose: Engineering STA | Status: Granted | Status Date: 01/10/2020 | 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	4370 PEACHTREE ROAD, NE ATLANTA, GA 30319 United States	+1 (404) 504- 9828	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
(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	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	6885
	State	Iowa
	City	DAVENPORT
	DTV Channel	17
	Designated Market Area	Davenport-R.Island-Moline
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	1035417
Coordinates (NAD83)	Latitude	41° 32' 48.8" N+
	Longitude	090° 28' 37.8" W-
	Structure Type	GTOWER-Guyed Structure Used for Communication Purposes
	Overall Structure Height	421.0 meters
	Support Structure Height	394.0 meters
	Ground Elevation (AMSL)	203.0 meters
Antenna Data	Height of Radiation Center Above Ground Level	376.4 meters
	Height of Radiation Center Above Average Terrain	375.1 meters
	Height of Radiation Center Above Mean Sea Level	579.4 meters
	Effective Radiated Power	500 kW

Antenna
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	1002171
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-27JSC/VP-R O4SP
	Rotation	0 degrees
	Electrical Beam Tilt	0.7
	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	0.982	90	0.921	180	0.900	270	0.951
10	0.921	100	0.982	190	0.951	280	0.900
20	0.832	110	1.000	200	0.971	290	0.844
30	0.759	120	0.986	210	0.973	300	0.829
40	0.726	130	0.958	220	0.971	310	0.865
50	0.719	140	0.917	230	0.972	320	0.917
60	0.726	150	0.865	240	0.971	330	0.958
70	0.759	160	0.829	250	0.973	340	0.986
80	0.832	170	0.844	260	0.971	350	1.000

Additional Azimuths

Degree	V _A
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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 <i>Assistant Secretary</i> 01/09/2020

Attachments

File Name	Uploaded By	Attachment Type	Description
KWQC Engineering STA Exhibit.pdf	Applicant	All Purpose	KWQC Request for STA (and expedited processing)
KWQC-TV Ch-17 STA request for 500kW ENG 01-08-2020.pdf	Applicant	All Purpose	KWQC-TV STA engineering exhibits
WAND KWQC Interference acceptance agreement - Fully Signed.pdf	Applicant	General Information	Interference Acceptance Agreement