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: **0000086339** | Submit Date: **10/11/2019** | Call Sign: **WEIQ** | Facility ID: **721** | FRN: **0001750314** | State: **Alabama** | City: **MOBILE**

Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **10/16/2019** | Expiration Date: | Filing Status: **InActive**

General Information

Section	Question	Response

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
ALABAMA EDUCATIONAL TELEVISION COMMISSION **Applicant** Doing Business As: ALABAMA EDUCATIONAL TELEVISION COMMISSION	Windell L. Wood 2112 11TH AVE SOUTH Suite 400 BIRMINGHAM, AL 35205 United States	+1 (205) 451-0132	wwood@aptv.org	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
M. Scott Johnson Scott Johnson Fletcher, Heald & Hildreth, PLC	M. Scott Johnson 1300 N. 17th Street Suite 1100 Arlington, VA 22209 United States	+1 (703) 812-0474	sjohnson@fhhlaw.com	Legal Representative
Ryan Wilhour Wilhour Kessler and Gehman Associates, Inc.	507 NW 60th Street Suite C Gainesville, FL 32607 United States	+1 (352) 332-3157	ryan@kesslerandgehman.com	Technical Representative

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	721
	State	Alabama
	City	MOBILE
	DTV Channel	30
	Designated Market Area	MOBILE-PENSACOLA (FT WALT)
Facility Type	Facility Type	Noncommercial Educational
	Station Type	Main
Zone	Zone	3

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1036419
Coordinates (NAD83)	Latitude	30° 39' 34.0" N+
	Longitude	087° 53' 33.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	166.2 meters
	Support Structure Height	166.4 meters
	Ground Elevation (AMSL)	50.9 meters
Antenna Data	Height of Radiation Center Above Ground Level	120 meters
	Height of Radiation Center Above Average Terrain	147.2 meters
	Height of Radiation Center Above Mean Sea Level	170.9 meters
	Effective Radiated Power	250 kW

Antenna Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1005711
Antenna Manufacturer and Model	Manufacturer:	Dielectric
	Model	TFU-8WB-R C160
	Rotation	0 degrees
	Electrical Beam Tilt	1.05
	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	0.930	**90**	0.583	**180**	0.833	**270**	0.788
10	0.884	**100**	0.630	**190**	0.883	**280**	0.772
20	0.833	**110**	0.584	**200**	0.930	**290**	0.787
30	0.764	**120**	0.466	**210**	0.972	**300**	0.830
40	0.659	**130**	0.357	**220**	0.998	**310**	0.891
50	0.516	**140**	0.382	**230**	0.993	**320**	0.952
60	0.379	**150**	0.519	**240**	0.954	**330**	0.992
70	0.356	**160**	0.661	**250**	0.894	**340**	0.998
80	0.466	**170**	0.766	**260**	0.832	**350**	0.973

Additional Azimuths

Degree	V_A
66	0.345
223	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.	**Windell L. Wood L. Wood** *COO and Director of Engineering* 10/11/2019

Attachments

File Name	Uploaded By	Attachment Type	Description
CH 30 TFU-8-C160-R.pdf	Applicant	All Purpose	Antenna Technical Data
WEIQ Engineering STA Narrative.pdf	Applicant	General Information	WEIQ Engineering STA Narrative