



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: 0000106472 | Submit Date: 02/24/2020 | Call Sign: WTVS | Facility ID: 16817 | FRN: 0002770360 | State: Michigan | City: DETROIT

Service: DTV | Purpose: Engineering STA | Status: Granted | Status Date: 03/04/2020 | Expiration Date:

Filing Status: InActive

General Information

Section	Question	Response
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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
DETROIT EDUCATIONAL TELEVISION FOUNDATION Applicant Doing Business As: DETROIT EDUCATIONAL TELEVISION FOUNDATION	John Mark RILEY BROADCAST CENTER 1 CLOVER COURT WIXOM, MI 48393 United States	+1 (248) 305-3788	jmark@dptv.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
BRAD DEUTSCH DEUTSCH Foster Garvey	1000 Potomac Street, NW Suite 200 Washington, DC 20007 United States	+1 (202) 298- 1793	brad. deutsch@foster.com	Legal Representative
BENJAMIN PIDEK, P.E. PIDEK, P.E. MID-STATE CONSULTANTS	6197 MILLER RD., SUITE 1 SWARTZ CREEK, MI 48473 United States	+1 (810) 226- 0750	BPIDEK@MSCON. COM	Technical Representative

Channel and  
Facility  
Information

Section	Question	Response
Proposed Community of License	Facility ID	16817
	State	Michigan
	City	DETROIT
	DTV Channel	20
	Designated Market Area	DETROIT
Facility Type	Facility Type	Noncommercial Educational
	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	1003429
Coordinates (NAD83)	Latitude	42° 26' 52.5" N+
	Longitude	083° 10' 23.1" W-
	Structure Type	GTOWER-Guyed Structure Used for Communication Purposes
	Overall Structure Height	331.3 meters
	Support Structure Height	308.5 meters
	Ground Elevation (AMSL)	201.8 meters
Antenna Data	Height of Radiation Center Above Ground Level	242.3 meters
	Height of Radiation Center Above Average Terrain	244.6 meters
	Height of Radiation Center Above Mean Sea Level	444.1 meters
	Effective Radiated Power	750 kW

Antenna  
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1006450
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-24WB/VP-R C160
	Rotation	0.0 degrees
	Electrical Beam Tilt	0.5
	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	0.930	90	0.665	180	0.851	270	0.890
10	0.896	100	0.706	190	0.895	280	0.878
20	0.851	110	0.666	200	0.928	290	0.890
30	0.781	120	0.566	210	0.960	300	0.921
40	0.675	130	0.463	220	0.987	310	0.960
50	0.546	140	0.452	230	0.999	320	0.990
60	0.448	150	0.549	240	0.990	330	1.0
70	0.460	160	0.677	250	0.961	340	0.989
80	0.564	170	0.782	260	0.922	350	0.962

Additional Azimuths

Degree	V <sub>A</sub>
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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	<b>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</b> 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.	<b>Rich Homberg Homberg</b> <i>President and CEO</i>  02/24/2020

Attachments

File Name	Uploaded By	Attachment Type	Description
<a href="#">WTVS Ch. 20 STA EngSta 2-20-20.pdf</a>	Applicant	General Information	Explanation for STA Request
<a href="#">WTVS FCC Ch 20 Interim Antenna Data.pdf</a>	Applicant	All Purpose	Ch. 20 STA Antenna Pattern Data