



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000058409** | Submit Date: **07/18/2018** | Call Sign: **WTAE-TV** | Facility ID: **65681** | FRN: **0001587583**
 State: **Pennsylvania** | City: **PITTSBURGH**
 Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **08/01/2018** | Expiration Date: **01/31/2019**
 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	\$190.00
Total		\$190.00

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
Hearst Stations Inc. Doing Business As: Hearst Stations Inc.	PO Box 1800 Raleigh, NC 27602 United States	+1 (919) 839-0300	shartzell@brookspierce.com	Corporation

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
Joseph M. Davis , P.E. . <i>Consulting Engineer</i> Chesapeake RF Consultants, LLC	207 Old Dominion Road Yorktown, VA 23692 United States	+1 (703) 650- 9600	Joseph.Davis@RF- consultants.com	Technical Representative
Stephen Hartzell Brooks, Pierce et al.	150 Fayetteville Street Suite 1700 Raleigh, NC 27601 United States	+1 (919) 839- 0300	shartzell@brookspierce.com	Legal Representative

Channel and Facility Information

Section	Question	Response
Facility ID	65681	
State	Pennsylvania	
City	PITTSBURGH	
DTV Channel	51	
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	1025144
Coordinates (NAD83)	Latitude	40° 16' 49.0" N+
	Longitude	079° 48' 10.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	324.0 meters
	Support Structure Height	272.0 meters
	Ground Elevation (AMSL)	299.6 meters
Antenna Data	Height of Radiation Center Above Ground Level	259.1 meters
	Height of Radiation Center Above Average Terrain	241.3 meters
	Height of Radiation Center Above Mean Sea Level	558.7 meters
	Effective Radiated Power	596 kW

**Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1003945
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-16WB C160
	Rotation	310 degrees
	Electrical Beam Tilt	1
	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	1.000	90	0.777	180	0.538	270	0.773
10	0.976	100	0.752	190	0.472	280	0.830
20	0.929	110	0.734	200	0.300	290	0.904
30	0.906	120	0.675	210	0.174	300	0.954
40	0.925	130	0.543	220	0.340	310	0.958
50	0.955	140	0.341	230	0.541	320	0.929
60	0.952	150	0.169	240	0.673	330	0.910
70	0.904	160	0.296	250	0.731	340	0.933
80	0.834	170	0.470	260	0.748	350	0.978

Additional Azimuths

Degree	V _A
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Certification

Section	Question	Response
<p>General Certification Statements</p>	<p>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.).</p>	
	<p>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.</p>	
<p>Authorized Party to Sign</p>	<p>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</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>	
	<p>I certify that this application includes all required and relevant attachments.</p>	<p>Yes</p>
	<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Jordan M. Wertlieb <i>President</i></p> <p>07/18/2018</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>WTAE-TV Pre-Transition Channel Interim Operation STA Request June 2018 .pdf</u>	Applicant	All Purpose	Request for STA for Interim Pre-Transition Channel Operations
<u>WTAE-TV STA request for interim antenna ENG 07-17-2018.pdf</u>	Applicant	General Information	WTAE-TV STA engineering exhibits