



(REFERENCE COPY - Not for submission)

# DTV Engineering STA Application

File Number: **0000121660** | Submit Date: **09/15/2020** | Call Sign: **WGBH-TV** | Facility ID: **72099** | FRN: **0003764560**  
State: **Massachusetts** | City: **BOSTON**  
Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **10/13/2020** | Expiration Date: **04/12/2021**  
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)?	Yes
	Total number of rule sections involved in this waiver request:	1

**Applicant  
Information**

**Applicant Name, Type, and Contact Information**

<b>Applicant</b>	<b>Address</b>	<b>Phone</b>	<b>Email</b>	<b>Applicant Type</b>
<b>WGBH EDUCATIONAL FOUNDATION</b>	Eric Brass 1 Guest Street Boston, MA 02135 United States	+1 (617) 300- 4405	ERIC_BRASS@WGBH. ORG	Not-for-Profit

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**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  
(4)**

Contact Name	Address	Phone	Email	Contact Type
<b>Joseph M. Davis , P.E. .</b> <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
<b>Jon Frank</b> WGBH EDUCATIONAL FOUNDATION	1 Guest Street Boston, MA 02135 United States	+1 (617) 300- 2345	jon_frank@wgbh.org	Technical Representative
<b>Ari Meltzer</b> <i>Legal Counsel</i> Wiley Rein LLP	1776 K Street, N. W. Washington , DC 20006 United States	+1 (202) 719- 7467	ameltzer@wileyrein.com	Legal Representative
<b>Shane Miner</b> WGBH EDUCATIONAL FOUNDATION	1 Guest Street Boston, MA 02135 United States	+1 (617) 300- 2000	shane_miner@wgbh.org	Technical Representative

**Channel and Facility Information**

Section	Question	Response
<b>Proposed Community of License</b>	Facility ID	72099
	State	Massachusetts
	City	BOSTON
	DTV Channel	5
	Designated Market Area	BOSTON (MANCHESTER)
<b>Facility Type</b>	Facility Type	Noncommercial Educational
	Station Type	Main
<b>Zone</b>	Zone	1

**Antenna Location Data**

Section	Question	Response
<b>Antenna Structure Registration</b>	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1004233
<b>Coordinates (NAD83)</b>	Latitude	42° 18' 10.7" N+
	Longitude	071° 13' 04.9" W-
	Structure Type	GTOWER-Guyed Structure Used for Communication Purposes
	Overall Structure Height	366.0 meters
	Support Structure Height	335.6 meters
	Ground Elevation (AMSL)	46.0 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	360.3 meters
	Height of Radiation Center Above Average Terrain	362.7 meters
	Height of Radiation Center Above Mean Sea Level	406.3 meters
	Effective Radiated Power	34.0 kW

**Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Non-Directional
	Do you have an Antenna ID?	
	Antenna ID	1001428
<b>Antenna Manufacturer and Model</b>	Manufacturer:	DIE
	Model	TDM-3A5
	Rotation	
	Electrical Beam Tilt	1.0
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Circular
<b>DTV and DTS: Elevation Pattern</b>	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	

**Certification**

Section	Question	Response
<p><b>General Certification Statements</b></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><b>Authorized Party to Sign</b></p>	<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>	
	<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><b>Eric Brass</b> <i>Clerk</i></p> <p>09/15/2020</p>

**Attachments**

File Name	Uploaded By	Attachment Type	Description
<u>Sept 2020 - Legal Justification.pdf</u>	Applicant	All Purpose	Justification for STA
<u>WGBH-TV STA request ENG 09-04-2019.pdf</u>	Applicant	All Purpose	WGBH-TV STA engineering exhibits