



(REFERENCE COPY - Not for submission)

# DTV Engineering STA Application

File Number: **0000083868** | Submit Date: **10/03/2019** | Call Sign: **WOTV** | Facility ID: **10212** | FRN: **0009961889** | State: **Michigan** | City: **BATTLE CREEK**  
Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **10/04/2019** | Expiration Date: **04/03/2020** |  
Filing Status: **InActive**

## General Information

Section	Question	Response
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## Fees, Waivers, and Exemptions

Section	Question	Response
<b>Fees</b>	Is the applicant exempt from FCC application Fees?	Yes
	Indicate reason for fee exemption:	Section 1.1116(a)/Incentive Auction Filing Requirement
<b>Waivers</b>	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**

<b>Applicant</b>	<b>Address</b>	<b>Phone</b>	<b>Email</b>	<b>Applicant Type</b>
<b>NEXSTAR BROADCASTING, INC.</b>	Elizabeth Ryder 545 E. John Carpenter Freeway Suite 700 Irving, TX 75062 United States	+1 (972) 373- 8800	eryder@nexstar. tv	Corporation

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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  
(2)**

Contact Name	Address	Phone	Email	Contact Type
<b>William T. Godfrey , Jr .</b> <i>Consulting Engineers</i> Kessler and Gehman Associates, Inc.	William T. Godfrey, Jr. Kessler and Gehman Associates, Inc. 507-D NW 60th Street Gainesville, FL 32607 United States	+1 (352) 332- 3157	bill@kesslerandgehman. com	Technical Representative
<b>Elizabeth Ryder</b> <i>General Counsel</i> NEXSTAR BROADCASTING, INC.	Elizabeth Ryder 545 E. John Carpenter Freeway Suite 700 Irving, TX 75062 United States	+1 (972) 373- 8800	eryder@nexstar.tv	Legal Representative

**Channel and Facility Information**

Section	Question	Response
<b>Proposed Community of License</b>	Facility ID	10212
	State	Michigan
	City	BATTLE CREEK
	DTV Channel	17
	Designated Market Area	Grand Rapids-Kalamzoo-B. Crk
<b>Facility Type</b>	Facility Type	Commercial
	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	1005400
<b>Coordinates (NAD83)</b>	Latitude	42° 34' 15.5" N+
	Longitude	085° 28' 08.9" W-
	Structure Type	GTOWER-Guyed Structure Used for Communication Purposes
	Overall Structure Height	294.7 meters
	Support Structure Height	276.6 meters
	Ground Elevation (AMSL)	300.8 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	216.7 meters
	Height of Radiation Center Above Average Terrain	260.2 meters
	Height of Radiation Center Above Mean Sea Level	517.5 meters
	Effective Radiated Power	423 kW

**Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1005637
<b>Antenna Manufacturer and Model</b>	Manufacturer:	Dielectric
	Model	TFU-16WB-R C160
	Rotation	70 degrees
	Electrical Beam Tilt	0.55
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
<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	

**Directional Antenna Relative Field Values (Pre-rotated Pattern)**

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.939	90	0.870	180	0.678	270	0.867
10	0.947	100	0.822	190	0.643	280	0.903
20	0.966	110	0.749	200	0.552	290	0.937
30	0.988	120	0.646	210	0.460	300	0.969
40	1.000	130	0.527	220	0.445	310	0.992
50	0.995	140	0.444	230	0.528	320	0.998
60	0.973	150	0.459	240	0.647	330	0.987
70	0.942	160	0.552	250	0.749	340	0.966
80	0.907	170	0.642	260	0.821	350	0.946

**Additional Azimuths**

Degree	V <sub>A</sub>
216	0.438
143	0.437

**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>Elizabeth Ryder</b> <i>General Counsel</i></p> <p>10/03/2019</p>

## Attachments

File Name	Uploaded By	Attachment Type	Description
<a href="#"><u>Purpose of WOTV-D17 STA.pdf</u></a>	Applicant	General Information	Purpose of Engineering STA
<a href="#"><u>WOTV C-71329 Ch 17 Patterns.pdf</u></a>	Applicant	General Information	Dielectric Antenna Electrical & Mechanical Data