



(REFERENCE COPY - Not for submission)

# DTV Engineering STA Application

File Number: **0000106331** | Submit Date: **02/20/2020** | Call Sign: **WQRF-TV** | Facility ID: **52408** | FRN: **0009961889**  
State: **Illinois** | City: **ROCKFORD**  
Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **02/25/2020** | Expiration Date:  
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. Applicant</b> Doing Business As: NEXSTAR BROADCASTING, INC.	Elizabeth Ryder 545 E. JOHN CARPENTER FREEWAY SUITE 700 IRVING, TX 75062 United States	+1 (972) 373- 8800	eryder@nexstar. tv	Other

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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>Jr William T. Godfrey T. Godfrey , Jr .</b> Kessler and Gehman Associates, Inc.	William T. Godfrey, Jr. Kessler and Gehman Associates, Inc. 507-D NW 60th Street Gainesville, FL 32607-2055 United States	+1 (352) 332-3157	bill@kesslerandgehman.com	Technical Representative
<b>Elizabeth Ryder Ryder</b> 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**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<b>Proposed Community of License</b>	Facility ID	52408
	State	Illinois
	City	ROCKFORD
	DTV Channel	42
	Designated Market Area	Rockford
<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	1035539
<b>Coordinates (NAD83)</b>	Latitude	42° 17' 14.0" N+
	Longitude	089° 10' 15.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	216.0 meters
	Support Structure Height	198.0 meters
	Ground Elevation (AMSL)	241.0 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	97.5 meters
	Height of Radiation Center Above Average Terrain	94.7 meters
	Height of Radiation Center Above Mean Sea Level	338.5 meters
	Effective Radiated Power	368 kW

**Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1006440
<b>Antenna Manufacturer and Model</b>	Manufacturer:	Dielectric
	Model	TUA-P4-4/10H-1 SM
	Rotation	0 degrees
	Electrical Beam Tilt	0.75
	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	0.341	90	1.000	180	0.341	270	1.000
10	0.329	100	0.956	190	0.329	280	0.956
20	0.338	110	0.832	200	0.338	290	0.832
30	0.349	120	0.640	210	0.349	300	0.640
40	0.354	130	0.460	220	0.354	310	0.460
50	0.455	140	0.359	230	0.455	320	0.359
60	0.653	150	0.367	240	0.653	330	0.367
70	0.837	160	0.350	250	0.837	340	0.350
80	0.954	170	0.336	260	0.954	350	0.336

**Additional Azimuths**

Degree	V <sub>A</sub>
348	0.335
193	0.324
168	0.335
13	0.324

**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 Ryder</b> <i>General Counsel</i></p> <p>02/20/2020</p>

## Attachments

File Name	Uploaded By	Attachment Type	Description
<a href="#"><u>C-71274-2 WQRF EZ Prop.pdf</u></a>	Applicant	General Information	Dielectric Interim Antenna Electrical & Mechanical Data
<a href="#"><u>Purpose of WQRF-D42 STA.pdf</u></a>	Applicant	General Information	Purpose of Engineering STA