



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000094601** | Submit Date: **01/02/2020** | Call Sign: **WMBD-TV** | Facility ID: **42121** | FRN: **0009961889**
State: **Illinois** | City: **PEORIA**
Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **01/08/2020** | Expiration Date: **01/17/2020**
Filing Status: **InActive**

General Information

Section	Question	Response
---------	----------	----------

Fees, Waivers, and Exemptions

Section	Question	Response
Fees	Is the applicant exempt from FCC application Fees?	Yes
	Indicate reason for fee exemption:	Section 1.1116(a)/Incentive Auction Filing Requirement
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
NEXSTAR BROADCASTING, INC.	Elizabeth Ryder 545 E. JOHN CARPENTER FREEWAY SUITE 700 IRVING, TX 75062 United States	+1 (972) 373- 8800	eryder@nexstar. tv	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
William T. Godfrey , Jr . <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
Elizabeth Ryder <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
Proposed Community of License	Facility ID	42121
	State	Illinois
	City	PEORIA
	DTV Channel	30
	Designated Market Area	Peoria-Bloomington
Facility Type	Facility Type	Commercial
	Station Type	Main
Zone	Zone	1

Primary station proposed to be rebroadcast:

Facility Id	Call Sign	City	State
-------------	-----------	------	-------

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1016047
Coordinates (NAD83)	Latitude	40° 38' 06.0" N+
	Longitude	089° 32' 19.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	167.9 meters
	Support Structure Height	150.2 meters
	Ground Elevation (AMSL)	225.6 meters
Antenna Data	Height of Radiation Center Above Ground Level	115.4 meters
	Height of Radiation Center Above Average Terrain	149.1 meters
	Height of Radiation Center Above Mean Sea Level	341.0 meters
	Effective Radiated Power	500 kW

**Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1006169
Antenna Manufacturer and Model	Manufacturer:	Dielectric
	Model	TFU-16WB-R C160
	Rotation	0 degrees
	Electrical Beam Tilt	0.55
	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	0.444	90	0.977	180	0.976	270	0.441
10	0.594	100	0.926	190	0.999	280	0.346
20	0.719	110	0.862	200	0.988	290	0.402
30	0.803	120	0.807	210	0.953	300	0.530
40	0.859	130	0.776	220	0.907	310	0.618
50	0.906	140	0.776	230	0.859	320	0.618
60	0.952	150	0.805	240	0.802	330	0.531
70	0.988	160	0.859	250	0.717	340	0.403
80	1.000	170	0.923	260	0.591	350	0.348

Additional Azimuths

Degree	V _A
--------	----------------

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>Elizabeth Ryder <i>General Counsel</i></p> <p>01/02/2020</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>CH 30 TFU-16-C160-R.pdf</u>	Applicant	General Information	Dielectric Interim Antenna Electrical & Mechanical Data
<u>Purpose of WMBD-D30 STA. pdf</u>	Applicant	General Information	Purpose of Engineering STA