



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000187041** | Submit Date: **03/22/2022** | Call Sign: **WGN-TV** | Facility ID: **72115** | FRN: **0005047105** | State: **Illinois** | City: **CHICAGO**
 Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **03/29/2022** | Expiration Date: **09/28/2022**
 Filing Status: **InActive**

General Information

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

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	MPV	\$270.00
Total		\$270.00

**Applicant
Information**

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
Tribune Media Company	Elizabeth Ryder 545 E. John Carpenter Freeway Suite 700 Irving, TX 75062 United States	+1 (972) 373- 8000	eryder@nexstar. tv	Limited Liability Company

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 32607-2055 United States	+1 (352) 332- 3157	bill@kesslerandgehman. com	Technical Representative
Elizabeth Ryder <i>General Counsel</i> Nexstar Media Group, Inc.	545 E. John Carpenter Freeway Irving, TX 75062 United States	+1 (972) 373- 8000	eryder@nexstar.tv	Legal Representative

**Channel and
Facility
Information**

Section	Question	Response
Proposed Community of License	Facility ID	72115
	State	Illinois
	City	CHICAGO
	DTV Channel	19
	Designated Market Area	Chicago
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	1032959
Coordinates (NAD83)	Latitude	41° 52' 44.1" N+
	Longitude	087° 38' 10.2" W-
	Structure Type	BTWR-Building with TOWER /ANTENNA on top
	Overall Structure Height	527.3 meters
	Support Structure Height	437.5 meters
	Ground Elevation (AMSL)	181.4 meters
Antenna Data	Height of Radiation Center Above Ground Level	495.9 meters
	Height of Radiation Center Above Average Terrain	497.5 meters
	Height of Radiation Center Above Mean Sea Level	677.3 meters
	Effective Radiated Power	645 kW

**Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1009398
Antenna Manufacturer and Model	Manufacturer:	RFS
	Model	PEPL24C
	Rotation	0 degrees
	Electrical Beam Tilt	0.75
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Elliptical
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	0.566	90	0.293	180	0.799	270	0.815
10	0.415	100	0.428	190	0.849	280	0.847
20	0.299	110	0.608	200	0.760	290	0.746
30	0.178	120	0.792	210	0.680	300	0.661
40	0.093	130	0.942	220	0.824	310	0.790
50	0.117	140	1.000	230	0.976	320	0.942
60	0.093	150	0.928	240	0.949	330	0.989
70	0.093	160	0.785	250	0.802	340	0.911
80	0.193	170	0.716	260	0.731	350	0.749

Additional Azimuths

Degree	V _A
66	0.074
328	0.992

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>03/22/2022</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
EXHIBIT 1.pdf	Applicant	General Information	EXHIBIT 1
Purpose of WGN-TV STA.pdf	Applicant	General Information	Engineering Technical Statement
RFS Model PEPL24C (WGN-TV CH19).pdf	Applicant	General Information	Antenna Electrical Data
WGN-TV CH19 CP (File No. 0000127570).pdf	Applicant	General Information	Construction Permit