



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000087046** | Submit Date: **10/22/2019** | Call Sign: **WTTW** | Facility ID: **10802** | FRN: **0002860179** | State: **Illinois** | City: **CHICAGO**
Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **10/22/2019** | Expiration Date: **04/22/2020**
Filing Status: **Active**

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)?	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
WINDOW TO THE WORLD COMMUNICATIONS, INC. Doing Business As: WINDOW TO THE WORLD COMMUNICATIONS, INC.	Eshed Halpern 5400 NORTH ST. LOUIS AVE CHICAGO, IL 60625 United States	+1 (773) 509-5412	ehalpern@wtw. com	Not-for-Profit

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
(5)**

Contact Name	Address	Phone	Email	Contact Type
Todd D. Gray <i>Partner</i> Gray Miller Persh LLP	2233 Wisconsin Avenue, NW Suite 226 Washington, DC 20007 United States	+1 (202) 776-2571	tgray@graymillerpersh. com	Legal Representative
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Jeremy D Ruck , PE . <i>Consulting Engineer</i> Jeremy Ruck & Associates, Inc.	P.O. Box 415 Canton, IL 61520 United States	+1 (309) 647-1200	jeremy@jeremyruck. com	Technical Representative
Derek Teslik Gray Miller Persh, LLP	2233 Wisconsin Ave NW Ste 226 Washington, DC 20007 United States	+1 (202) 559-7489	dteslik@graymillerpersh. com	Legal Representative
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Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	10802
	State	Illinois
	City	CHICAGO
	DTV Channel	25
	Designated Market Area	CHICAGO
Facility Type	Facility Type	Noncommercial Educational
	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	1032960
Coordinates (NAD83)	Latitude	41° 52' 44.0" N+
	Longitude	087° 38' 08.0" W-
	Structure Type	BMAST-Building with MAST /ANTENNA on top
	Overall Structure Height	524.9 meters
	Support Structure Height	437.5 meters
	Ground Elevation (AMSL)	181.4 meters
Antenna Data	Height of Radiation Center Above Ground Level	508.1 meters
	Height of Radiation Center Above Average Terrain	510.0 meters
	Height of Radiation Center Above Mean Sea Level	689.5 meters
	Effective Radiated Power	110 kW

**Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1005805
Antenna Manufacturer and Model	Manufacturer:	RFS
	Model	PHP24C
	Rotation	0 degrees
	Electrical Beam Tilt	1
	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	0.212	90	0.52	180	0.978	270	0.900
10	0.205	100	0.714	190	0.884	280	0.839
20	0.168	110	0.861	200	0.832	290	0.881
30	0.117	120	0.945	210	0.865	300	0.953
40	0.117	130	0.953	220	0.865	310	0.945
50	0.168	140	0.881	230	0.832	320	0.861
60	0.205	150	0.839	240	0.884	330	0.714
70	0.212	160	0.900	250	0.978	340	0.520
80	0.317	170	0.989	260	0.989	350	0.317

Additional Azimuths

Degree	V _A
35	0.107
255	1.000
175	1.000

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>Michael Tompary <i>Director of Engineering</i></p> <p>10/22/2019</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>WTTW STA Request Technical Exhibit 10222019.pdf</u>	Applicant	General Information	WTTW STA Request Technical Exhibit (10-22-2019)