



(REFERENCE COPY - Not for submission)

# DTV Engineering STA Application

File Number: **0000083065** | Submit Date: **10/01/2019** | Call Sign: **WLS-TV** | Facility ID: **73226** | FRN: **0003471315** | State: **Illinois** | City: **CHICAGO**  
 Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **10/02/2019** | Expiration Date: **04/15/2020**  
 Filing Status: **Active**

**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?	No
	Indicate reason for fee exemption:	
<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:	

Application Type	Fee Code	Fee Amount
Engineering STA	MGT	\$200.00
<b>Total</b>		<b>\$200.00</b>

**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>WLS TELEVISION, INC.</b> Doing Business As: WLS TELEVISION, INC.	John W. Zucker 77 W 66TH ST FL 16 NEW YORK, NY 10023 United States	+1 (212) 456- 7777	john.w.zucker@abc. com	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  
(3)**

Contact Name	Address	Phone	Email	Contact Type
<b>Susan Fox</b> The Walt Disney Company	425 3rd Street SW Suite 1100 Washington, DC 20024 United States	+1 (202) 222- 4780	Susan.Fox@disney.com	Legal Representative
<b>William J. Getz</b> <i>Consulting Engineer</i> Carl T. Jones Corporation	7901 Yarnwood Court Springfield, VA 22153 United States	+1 (703) 569- 7704	wgetz@ctjc.com	Technical Representative
<b>Grace Kavadoy</b> ABC, Inc.	77 W 66th St., 16th FL., New York, NY 10023 United States	+1 (212) 456- 6686	Grace.Kavadoy@disney. com	Legal Representative

**Channel and Facility Information**

Section	Question	Response
<b>Proposed Community of License</b>	Facility ID	73226
	State	Illinois
	City	CHICAGO
	DTV Channel	22
	Designated Market Area	Chicago
<b>Facility Type</b>	Facility Type	Commercial
	Station Type	Auxiliary
<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	1032960
<b>Coordinates (NAD83)</b>	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
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	474 meters
	Height of Radiation Center Above Average Terrain	475 meters
	Height of Radiation Center Above Mean Sea Level	655.4 meters
	Effective Radiated Power	908 kW

**Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	111644
<b>Antenna Manufacturer and Model</b>	Manufacturer:	RFS
	Model	PHP-24C
	Rotation	0 degrees
	Electrical Beam Tilt	1.0
	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	0.326	90	0.668	180	0.893	270	0.95
10	0.367	100	0.795	190	0.853	280	0.848
20	0.2	110	0.881	200	0.921	290	0.779
30	0.175	120	0.92	210	0.964	300	0.917
40	0.181	130	0.856	220	0.9	310	0.995
50	0.226	140	0.617	230	0.802	320	0.918
60	0.272	150	0.869	240	0.823	330	0.825
70	0.289	160	0.949	250	0.929	340	0.752
80	0.541	170	0.977	260	0.992	350	0.551

**Additional Azimuths**

Degree	V <sub>A</sub>
309	1

**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>John W. Zucker</b>  <i>Assistant Secretary</i></p> <p>10/01/2019</p>

## Attachments

File Name	Uploaded By	Attachment Type	Description
<a href="#"><u>Repack CP and Proposed STA Contour Map v2.pdf</u></a>	Applicant	All Purpose	WLSTV Willis NE Tower STA Contour Analysis
<a href="#"><u>WLSTV DT Phase Completion STA Allocation Exhibit.pdf</u></a>	Applicant	All Purpose	DTV Allocation Considerations
<a href="#"><u>WLSTV DT Phase Completion STA Statement ver2.pdf</u></a>	Applicant	General Information	Nature of STA Request
<a href="#"><u>WLSTV STA UHF Max Power Showing.pdf</u></a>	Applicant	All Purpose	DTV Section 73.622 ERP Statement of Compliance
<a href="#"><u>WLS Willis 22 STA NE Tower 908 KW RFR Statement.pdf</u></a>	Applicant	All Purpose	DTV RFR Statement of Compliance
<a href="#"><u>WLS willis NE Tower DA Antenna Exhibit.pdf</u></a>	Applicant	All Purpose	WLSTV Willis NE Tower DA Antenna Exhibit