



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000068503** | Submit Date: **03/13/2019** | Call Sign: **WFLD** | Facility ID: **22211** | FRN: **0005795067** | State: **Illinois** | City: **CHICAGO**
 Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **03/20/2019** | Expiration Date: **09/20/2019** | Filing Status: **Active**

General Information

Section	Question	Response
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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	MGT	\$200.00
Total		\$200.00

**Applicant
Information**

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
FOX TELEVISION STATIONS, LLC	Joseph M, Di Scipio 400 N. CAPITOL STREET, NW SUITE 890 WASHINGTON, DC 20001 United States	+1 (202) 824- 6522	JDISCIPIO@21CF. COM	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
Joseph M. Di Scipio <i>Senior Vice President Legal and FCC Compliance</i> Fox Television Stations, LLC	Joseph M. Di Scipio 400 North Capitol Street, NW Suite 890 Washington, DC 20001 United States	+1 (202) 824- 6522	jdiscipio@21cf.com	Legal Representative
William Meintel <i>Senior Partner</i> Meintel, Sgrignoli & Wallace LLC	Bill Meintel PO Box 907 Warrenton, VA 20188-0907 United States	+1 (540) 428- 2308	william. meintel@mswdtv. com	Technical Representative

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	22211
	State	Illinois
	City	CHICAGO
	DTV Channel	31
	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	1009013
Coordinates (NAD83)	Latitude	41° 53' 55.6" N+
	Longitude	087° 37' 23.7" W-
	Structure Type	BTWR-Building with TOWER /ANTENNA on top
	Overall Structure Height	425.2 meters
	Support Structure Height	337.4 meters
	Ground Elevation (AMSL)	179.5 meters
Antenna Data	Height of Radiation Center Above Ground Level	417 meters
	Height of Radiation Center Above Average Terrain	417 meters
	Height of Radiation Center Above Mean Sea Level	596.5 meters
	Effective Radiated Power	1000 kW

**Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1004737
Antenna Manufacturer and Model	Manufacturer:	DIELECTRIC
	Model	TFU-24WB/VP-R C160 OS
	Rotation	0 degrees
	Electrical Beam Tilt	0.95
	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	0.491	90	0.182	180	0.958	270	0.875
10	0.364	100	0.170	190	0.994	280	0.940
20	0.243	110	0.243	200	0.985	290	0.988
30	0.171	120	0.364	210	0.937	300	0.998
40	0.183	130	0.491	220	0.873	310	0.963
50	0.230	140	0.606	230	0.818	320	0.891
60	0.261	150	0.707	240	0.788	330	0.802
70	0.261	160	0.800	250	0.788	340	0.708
80	0.229	170	0.888	260	0.819	350	0.606

Additional Azimuths

Degree	V _A
97.0	0.165
33.0	0.167
297.0	1.000
193.0	0.996

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>Joseph M. Di Scipio <i>SVP, Legal and FCC Compliance</i></p> <p>03/13/2019</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
C-71181-2 24WB Hancock EZ Prop.pdf	Applicant	All Purpose	Antenna Data
RF Exposure Statement CH 31 STA.pdf	Applicant	All Purpose	RF Exposure Statement
STA Justification and Engineering Statement WFLD CH 31 STA.pdf	Applicant	General Information	STA Justification and Engineering Statement
WFLD CH 31 STA tvixstudy.pdf	Applicant	All Purpose	TVStudy Interference Analysis Results