Approved by OMB (Office of Management and Budget) 3060-0386
July 2002

Federal Communications Commission

(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000081448** | Submit Date: **09/16/2019** | Call Sign: **WFLD** | Facility ID: **22211** | FRN: **0005795067** | State: **Illinois** | City: **CHICAGO**

Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **09/19/2019** | Expiration Date:

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	MGT	$200.00
	Total	**$200.00**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
FOX TELEVISION STATIONS, LLC **Applicant** Doing Business As: FOX TELEVISION STATIONS, LLC	Ann West Bobeck 400 N. CAPITOL STREET, NW SUITE 890 WASHINGTON, DC 20001 United States	+1 (202) 824-6503	ann.bobeck@fox.com	Other

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
Ann West Bobeck *VP, FCC Legal and Business Affairs* Fox Television Stations, LLC	Ann West Bobeck PO Box 20001 Suite 890 WASHINGTON, DC 20001 United States	+1 (202) 824-6503	ann.bobeck@fox.com	Legal Representative
Joseph M. Di Scipio M. Di Scipio Fox Television Stations, LLC	Joseph M. Di Scipio 400 North Capitol Street, NW Suite 890 Washington, DC 20001 United States	+1 (202) 824-6522	joe.discipio@fox.com	Legal Representative
WILLIAM R MEINTEL R MEINTEL Meintel, Sgrignoli & Wallace, LLC	Bill Meintel PO Box 907 WARRENTON, VA 20188 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' 56.1" N+
	Longitude	087° 37' 23.2" 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)	180.7 meters
Antenna Data	Height of Radiation Center Above Ground Level	417 meters
	Height of Radiation Center Above Average Terrain	419 meters
	Height of Radiation Center Above Mean Sea Level	597.7 meters
	Effective Radiated Power	1000 kW

Antenna Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	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
General Certification Statements	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.).	
	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.	
Authorized Party to Sign	**FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID** 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. 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).	
	I certify that this application includes all required and relevant attachments.	Yes
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Ann West Bobeck West Bobeck** *VP, FCC Legal and Business Affairs* 09/16/2019

Attachments

File Name	Uploaded By	Attachment Type	Description
RF_Exposure_Statement_CH_31_STA.pdf	Applicant	All Purpose	RF Exposure Statement
STA_Extension_Justification_and_Engineering Statement_WFLD_CH_31_STA.pdf	Applicant	General Information	STA Justification and Engineering Statement
WFLD_STA_EXT_MOD_09132019_tvixstudy.pdf	Applicant	General Information	TVStudy Interference Analysis Results