



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: 0000070430 | Submit Date: 04/09/2019 | Call Sign: KOZK | Facility ID: 51102 | FRN: 0002487056 | State: Missouri | City: SPRINGFIELD

Service: DTV | Purpose: Engineering STA | Status: Granted | Status Date: 04/10/2019 | Expiration Date:

Filing Status: InActive

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
BOARD OF GOVERNORS OF MISSOURI STATE UNIVERSITY Applicant Doing Business As: BOARD OF GOVERNORS OF MISSOURI STATE UNIVERSITY	Tammy Wiley 901 S. NATIONAL AVE. SPRINGFIELD, MO 65897 United States	+1 (417) 836-5878	TAMMYWILEY@MISSOURISTATE.EDU	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
(2)

Contact Name	Address	Phone	Email	Contact Type
Margaret L. Miller L. Miller Gray Miller Persh LLP	2233 Wisconsin Avenue, NW Suite 226 Washington, DC 20007 United States	+1 (202) 776-2914	mmiller@graymillerpersh.com	Legal Representative
David Sanderford Sanderford Marsand, Inc.	1957 Reynolds Dr. Azle, TX 76020 United States	+1 (817) 783-5566	david@marsand.com	Technical Representative

Channel and
Facility
Information

Section	Question	Response
Proposed Community of License	Facility ID	51102
	State	Missouri
	City	SPRINGFIELD
	DTV Channel	16
	Designated Market Area	SPRINGFIELD MO
Facility Type	Facility Type	Noncommercial Educational
	Station Type	Main
Zone	Zone	2

Antenna Location
Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1218324
Coordinates (NAD83)	Latitude	37° 10' 26.0" N+
	Longitude	092° 56' 28.1" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	609.4 meters
	Support Structure Height	574.6 meters
	Ground Elevation (AMSL)	471.5 meters
Antenna Data	Height of Radiation Center Above Ground Level	419.1 meters
	Height of Radiation Center Above Average Terrain	442.4 meters
	Height of Radiation Center Above Mean Sea Level	890.6 meters
	Effective Radiated Power	153 kW

Antenna
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	1003984
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-16WB-S230
	Rotation	260 degrees
	Electrical Beam Tilt	.55
	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	1.0	90	.649	180	.508	270	.652
10	.994	100	.553	190	.478	280	.725
20	.976	110	.444	200	.428	290	.789
30	.951	120	.337	210	.347	300	.841
40	.920	130	.265	220	.278	310	.882
50	.884	140	.273	230	.268	320	.918
60	.843	150	.345	240	.340	330	.950
70	.793	160	.428	250	.447	340	.976
80	.729	170	.487	260	.556	350	.993

Additional Azimuths

Degree	V _A
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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.	James Baker Baker <i>Vice President</i> 04/09/2019

Attachments

File Name	Uploaded By	Attachment Type	Description
KOZK 16 STA Engineering Statement 4.8.19.pdf	Applicant	All Purpose	Engineering Statement