



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000054690** | Submit Date: **05/30/2018** | Call Sign: **WKAR-TV** | Facility ID: **6104** | FRN: **0007619026** | State: **Michigan** | City: **EAST LANSING**

Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **06/01/2018** | 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 TRUSTEES, MICHIGAN STATE UNIVERSITY Applicant Doing Business As: BOARD OF TRUSTEES, MICHIGAN STATE UNIVERSITY	Susanne Elkins, Director of Broadcasting WKAR-AM/FM/TV 404 WILSON RD, ROOM 212 EAST LANSING, MI 48824 United States	+1 (517) 884-4700	susi@wkar. org	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
(4)

Contact Name	Address	Phone	Email	Contact Type
William Beekman <i>Vice President and Secretary of the Board of Trustees</i> Michigan State University	426 Auditorium Road Room 450 EAST LANSING, MI 48824 United States	+1 (517) 353-9818	beekman@pres. msu.edu	Authorized Representative
Jonathan Cohen Cohen Wilkinson Barker Knauer LLP	1800 M Street, NW Suite 800N Washington, DC 20036 United States	+1 (202) 383-3416	jcohen@wbklaw. com	Legal Representative
Susanne Elkins <i>Director of Broadcasting</i> WKAR Michigan State University	Susanne Elkins, Director of Broadcasting 404 Wilson Rd. Room 212 East Lansing, MI 48824 United States	+1 (517) 884-4770	susi@wkar.org	Director of Broadcasting
P.E Benjamin Pidek Pidek , P.E . Mid-State Consultants	6197 Miller Rd., Suite 1 Swartz Creek, MI 48473 United States	+1 (810) 226-0750	bpidek@mscon. com	Technical Representative

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	6104
	State	Michigan
	City	EAST LANSING
	DTV Channel	33
	Designated Market Area	LANSING
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	1265362
Coordinates (NAD83)	Latitude	42° 42' 06.9" N+
	Longitude	084° 24' 47.8" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	313.3 meters
	Support Structure Height	297.8 meters
	Ground Elevation (AMSL)	259.1 meters
Antenna Data	Height of Radiation Center Above Ground Level	147.5 meters
	Height of Radiation Center Above Average Terrain	295.5 meters
	Height of Radiation Center Above Mean Sea Level	406.6 meters
	Effective Radiated Power	75 kW

Antenna
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1003755
Antenna Manufacturer and Model	Manufacturer:	ERI
	Model	I230ECW-8-23
	Rotation	230 degrees
	Electrical Beam Tilt	1
	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	0.87	90	.79	180	.24	270	.79
10	0.94	100	.66	190	.19	280	.84
20	1	110	.5	200	.14	290	.86
30	.98	120	.27	210	.11	300	.89
40	.94	130	.11	220	.09	310	.92
50	.92	140	.09	230	.11	320	.94
60	.89	150	.11	240	.27	330	.98
70	.86	160	.14	250	.5	340	1
80	.84	170	.19	260	.66	350	.94

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.	William Beekman Beekman <i>Vice President and</i> <i>Secretary of the Board of</i> <i>Trustees</i> 05/30/2018

Attachments

File Name	Uploaded By	Attachment Type	Description
WKAR STA EngSta 5-30-18.pdf	Applicant	General Information	STA Request Statement