



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000059671** | Submit Date: **09/18/2018** | Call Sign: **KUED** | Facility ID: **69396** | FRN: **0001597590** | State: **Utah** | City: **SALT LAKE CITY**
Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **09/25/2018** | Expiration Date: **03/25/2019** |
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
UNIVERSITY OF UTAH Doing Business As: UNIVERSITY OF UTAH	Philip Titus 101 WASATCH DRIVE BLDG. 179 SALT LAKE CITY, UT 84112 United States	+1 (801) 585- 3601	ptitus@kued. org	Government Entity

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
Michael Beder Covington and Burling	One CityCenter 850 Tenth St. NW Washington, DC 20001 United States	+1 (202) 662- 5138	mbeder@cov.com	Legal Representative
William Meintel <i>Senior Partner</i> Meintel, Sgrignoli & Wallace, LLC	Bill Meintel PO Box 907 Warrenton, VA 20187 United States	+1 (540) 428- 2308	william.meintel@mswdtv. com	Technical Representative
Philip Titus <i>DIRECTOR OF ENGINEERING</i> KUED / University of Utah	101 South Wasatch Drive Salt Lake City, UT 84112 United States	+1 (801) 585- 3601	ptitus@kued.org	Technical Representative

Channel and Facility Information

Section	Question	Response
Facility ID	69396	
State	Utah	
City	SALT LAKE CITY	
DTV Channel	27	
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	1237796
Coordinates (NAD83)	Latitude	40° 39' 35.0" N+
	Longitude	112° 12' 07.5" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	86.0 meters
	Support Structure Height	86.0 meters
	Ground Elevation (AMSL)	2755.0 meters
Antenna Data	Height of Radiation Center Above Ground Level	64.3 meters
	Height of Radiation Center Above Average Terrain	1266 meters
	Height of Radiation Center Above Mean Sea Level	2819.3 meters
	Effective Radiated Power	158.0 kW

**Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1004126
Antenna Manufacturer and Model	Manufacturer:	KATHREIN
	Model	773941
	Rotation	352.0 degrees
	Electrical Beam Tilt	1.5
	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	V _A (Authorized Value)	Degree	V _A (Authorized Value)	Degree	V _A (Authorized Value)	Degree	V _A (Authorized Value)
0	0.759	90	0.545	180	0.772	270	0.992
10	0.916	100	0.508	190	0.582	280	0.988
20	0.982	110	0.518	200	0.569	290	0.881
30	0.961	120	0.700	210	0.620	300	0.715
40	0.930	130	0.876	220	0.567	310	0.561
50	0.840	140	0.926	230	0.500	320	0.632
60	0.657	150	0.940	240	0.646	330	0.704
70	0.482	160	0.955	250	0.832	340	0.639
80	0.498	170	0.932	260	0.963	350	0.593

Additional Azimuths

Degree	V _A
272.0	1.000

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>Philip Titus <i>Director of Engineering</i></p> <p>09/18/2018</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>Kathrein_773941AUX_ANTENNA_CH_27.pdf</u>	Applicant	All Purpose	Antenna Data
<u>KUED_CH_27_AUX_158_KW_tvixstudy.txt</u>	Applicant	All Purpose	TVStudy interference analysis results
<u>RF_Exposure_Statement.pdf</u>	Applicant	All Purpose	RF Exposure Statement
<u>STA_Justification_and_Engineering_Statement.pdf</u>	Applicant	All Purpose	STA Justification and Engineering Statement