



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: 0000059695 | Submit Date: 09/19/2018 | Call Sign: KBYU-TV | Facility ID: 6823 | FRN: 0001607407 | State: Utah | City: PROVO

Service: DTV | Purpose: Engineering STA | Status: Granted | Status Date: 09/25/2018 | 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
BRIGHAM YOUNG UNIVERSITY Applicant Doing Business As: BRIGHAM YOUNG UNIVERSITY	Scott Halvorsen A-357 ASB PROVO, UT 84602 United States	+1 (801) 422- 8450	scott.halvorsen@byu. 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  
(3)

Contact Name	Address	Phone	Email	Contact Type
Patricia M. Chuh M. Chuh Wilkinson Barker Knauer, LLP	1800 M Street, NW Suite 800N Washington, DC 20036 United States	+1 (202) 783- 4141	pchuh@wbklaw.com	Legal Representative
William Meintel Grover Meintel, Sgrignoli & Wallace, LLC	Warrenton, VA 20188 United States	+1 (540) 428- 2308	test@fcc.gov	Technical Representative
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Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	6823
	State	Utah
	City	PROVO
	DTV Channel	17
	Designated Market Area	SALT LAKE CITY
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	1257 meters
	Height of Radiation Center Above Mean Sea Level	2819.3 meters
	Effective Radiated Power	169.0 kW

Antenna  
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1004133
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	Value	Degree	Value	Degree	Value	Degree	Value
0	0.705	90	0.421	180	0.720	270	0.994
10	0.870	100	0.413	190	0.540	280	0.964
20	0.956	110	0.471	200	0.478	290	0.852
30	0.966	120	0.657	210	0.496	300	0.671
40	0.924	130	0.832	220	0.476	310	0.524
50	0.816	140	0.916	230	0.463	320	0.539
60	0.619	150	0.946	240	0.607	330	0.579
70	0.443	160	0.940	250	0.813	340	0.542
80	0.407	170	0.877	260	0.945	350	0.555

Additional Azimuths

Degree	V <sub>A</sub>
272.0	1.000

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	<b>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</b> 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.	<b>Matthew O. Richardson O. Richardson</b> <i>Advancement Vice President</i>  09/19/2018

Attachments

File Name	Uploaded By	Attachment Type	Description
<a href="#"><u>0000059695_KBYU_Antenna_Relocation.doc</u></a>	Internal	All Purpose	Processed STA Letter
<a href="#"><u>Kathrein_773941AUX_ANTENNA_CH_17.pdf</u></a>	Applicant	All Purpose	Antenna Data
<a href="#"><u>KBYU_CH_17_AUX_169_KW_tvixstudy.txt</u></a>	Applicant	All Purpose	TVStudy Interference Analysis Results
<a href="#"><u>RF_Exposure_Statement.pdf</u></a>	Applicant	General Information	RF Exposure Statement
<a href="#"><u>STA_Justification_and_Engineering_Statement.pdf</u></a>	Applicant	General Information	STA Justification and Engineering Statement