



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: 0000054993 | Submit Date: 06/05/2018 | Call Sign: KBYU-TV | Facility ID: 6823 | FRN: 0001607407 | State: Utah | City: PROVO

Service: DTV | Purpose: Engineering STA | Status: Granted | Status Date: 06/13/2018 | 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
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William Meintel Meintel Meintel, Sgrignoli & Wallace, LLC	Bill Meintel PO Box 907 Warrenton, VA 20188 United States	+1 (540) 428- 2308	test@fcc.gov	Technical Representative

Channel and
Facility
Information

Section	Question	Response
Proposed Community of License	Facility ID	6823
	State	Utah
	City	PROVO
	DTV Channel	44
	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	1235 meters
	Height of Radiation Center Above Mean Sea Level	2819.3 meters
	Effective Radiated Power	189 kW

Antenna
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1003840
Antenna Manufacturer and Model	Manufacturer:	KATHREIN
	Model	773941
	Rotation	352 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	0.653	90	0.579	180	0.794	270	0.902
10	0.896	100	0.562	190	0.562	280	0.923
20	0.989	110	0.457	200	0.468	290	0.907
30	0.966	120	0.589	210	0.596	300	0.729
40	0.917	130	0.794	220	0.596	310	0.519
50	0.856	140	0.902	230	0.473	320	0.550
60	0.750	150	0.923	240	0.553	330	0.661
70	0.531	160	0.944	250	0.750	340	0.596
80	0.452	170	0.917	260	0.861	350	0.490

Additional Azimuths

Degree	V _A
23.0	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	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.	Matthew O. Richardson O. Richardson <i>Advancement Vice President</i> 06/05/2018

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>KBYU_STA_REQUEST_JUSTIFICATION.pdf</u>	Applicant	General Information	STA Justification