



(REFERENCE COPY - Not for submission)

Modification of a License for DTV Application

File Number: **0000004580** | Submit Date: **09/02/2015** | Call Sign: **KUHM-TV** | Facility ID: **68717** | FRN: **0007148174** |

State: **Montana** | City: **HELENA**

Service: **DTV** | Purpose: **Modification of License 0000001180** | Status: **Granted** | Status Date: **09/18/2015** | Expiration Date:

04/01/2022 | Filing Status: **Active**

General Information

Section	Question	Response
Attachments	Are attachments (other than associated schedules) being filed with this application?	Yes

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:	
	Are the frequencies or parameters requested in this filing covered by grandfathered privileges, previously approved by waiver, or functionally integrated with an existing station?	No

Applicant
Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
MONTANA STATE UNIVERSITY	ROOM 183 VSB BOZEMAN, MT 59717 United States	+1 (406) 994- 3437	dean_lawver@montanapbs. 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
(2)

Contact Name	Address	Phone	Email	Contact Type
Dean Lawver <i>Director of Technology</i> Montana PBS	Room 183 VCB Bozeman, MT 59717 United States	+1 (406) 994- 3437	dean_lawver@montanapbs. org	Technical Representative
Margaret L. Miller Gray Miller Persh LLP	1200 New Hampshire Ave., NW Suite 410 Washington, DC 20036 United States	+1 (202) 776- 2914	mmiller@graymillerpersh. com	Legal Representative

Alien Ownership

Question	Response
1) Is the applicant a foreign government or the representative of any foreign government as specified in Section 310(a) of the Communications Act?	
2) Is the applicant an alien or the representative of an alien? (Section 310(b)(1))	
3) Is the applicant a corporation, or non-corporate entity, that is organized under the laws of any foreign government? (Section 310(b)(2))	
4) Is the applicant an entity of which more than one-fifth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any entity organized under the laws of a foreign country? (Section 310(b)(3))	
5) Is the applicant directly or indirectly controlled by any other entity of which more than one-fourth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any entity organized under the laws of a foreign country? (Section 310(b)(4))	
6) Has the applicant received a declaratory ruling(s) under Section 310(b)(4) of the Communications Act?	
7) In connection with this application, is the applicant filing a foreign ownership Petition for Declaratory Ruling pursuant to Section 310(b)(4) of the Communications Act?	

Basic Qualifying Questions

Section	Question	Response
Revoked Application	Has the Applicant or any party to this application had any FCC station Authorization revoked or had any application for an initial, modification or renewal of FCC station Authorization denied by the Commission?	No
State or Federal Convictions	Has the Applicant or any party to this application, or any party directly or indirectly controlling the Applicant, ever been convicted of a felony by any state or federal court?	No

Channel and
Facility
Information

Section	Question	Response
Proposed Community of License	Facility ID	68717
	State	Montana
	City	HELENA
	DTV Channel	29
	Designated Market Area	HELENA
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?	No
	ASR Number	
Coordinates (NAD83)	Latitude	46° 49' 29.4" N+
	Longitude	111° 42' 15.6" W-
	Structure Type	GTOWER-Guyed Structure Used for Communication Purposes
	Overall Structure Height	44.5 meters
	Support Structure Height	44.5 meters
	Ground Elevation (AMSL)	2357 meters
Antenna Data	Height of Radiation Center Above Ground Level	12.2 meters
	Height of Radiation Center Above Average Terrain	646.1 meters
	Height of Radiation Center Above Mean Sea Level	2369.2 meters

Antenna
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	68037
Antenna Manufacturer and Model	Manufacturer:	RFS
	Model	LPR8DM-2540
	Rotation	23.0 degrees
	Electrical Beam Tilt	Not Applicable
	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	90	0.26	180	0.25	270	0.26
10	0.95	100	0.26	190	0.25	280	0.26
20	0.8	110	0.25	200	0.25	290	0.23
30	0.5	120	0.23	210	0.23	300	0.2
40	0.28	130	0.22	220	0.22	310	0.22
50	0.22	140	0.22	230	0.22	320	0.28
60	0.2	150	0.23	240	0.23	330	0.5
70	0.23	160	0.25	250	0.25	340	0.8
80	0.26	170	0.25	260	0.26	350	0.95

Additional Azimuths

Degree	V _A
--------	----------------

Operating
Constants

Section	Question	Response
Transmitter and Transmission Line	Transmitter Power Output (TPO): <i>(average power at input to transmission line, after any filter attached to the transmitter, if used)</i>	-0.51 dBk 0.89 kW
	Transmission Line Loss (LL):	0.52 dB
	Antenna Input Power (AIP):	-1.03 dBk
	Max. Antenna Power Gain (AG)	17.4 dB
	Effective Radiated Power (ERP) <i>(Average Power)</i>	16.37 dBk 43.4 kW

Parties to the
Application (10)

Party Name	Address	Phone	Email	Positional Interest
ASA HOHMAN MONTANA UNIVERSITY SYSTEM BOARD OF REGENTS	4819 CHRISTIAN DR MISSOULA, MT 59803 United States	+1 (406) 444- 6570	RegentHohman@montana. edu	Positional Interest: STUDENT MEMBER, BOARD OF REGENTS Citizenship: United States Percentage of Votes: 16.6% Percentage of Total Assets: 0%
WILLIAM JOHNSTONE MONTANA UNIVERSITY SYSTEM BOARD OF REGENTS	8 3RD ST N GREAT FALLS, MT 59401 United States	+1 (406) 444- 6570	RegentJohnstone@montana. edu	Positional Interest: BOARD MEMBER, BOARD OF REGENTS Citizenship: United States Percentage of Votes: 16.6% Percentage of Total Assets: 0%
MARTHA SHEEHY MONTANA UNIVERSITY SYSTEM BOARD OF REGENTS	PO BOX 584 BILLINGS, MT 59103 United States	+1 (406) 444- 6570	RegentSheehy@montana. edu	Positional Interest: BOARD MEMBER, BOARD OF REGENTS Citizenship: United States Percentage of Votes: 16.6% Percentage of Total Assets: 0%
TERRY LEIST MONTANA STATE UNIVERSITY	P.O. BOX 172440 BOZEMAN, MT 59717- 2440 United States	+1 (406) 994- 4361	tleist@montana.edu	Positional Interest: VP OF FINANCE AND ADMINISTRATION, MONTANA STATE UNIVERSITY Citizenship: United States Percentage of Votes: 0% Percentage of Total Assets: 0%
MARTHA POTVIN MONTANA STATE UNIVERSITY	P.O. BOX 172560 BOZEMAN, MT 59717- 2560 United States	+1 (406) 994- 4371	mpotvin@montana.edu	Positional Interest: PROVOST, MONTANA STATE UNIVERSITY Citizenship: United States Percentage of Votes: 0% Percentage of Total Assets: 0%

WADED CRUZADO MONTANA STATE UNIVERSITY	P.O. BOX 172420 BOZEMAN, MT 59717- 2420 United States	+1 (406) 994- 2341	president@montana.edu	Positional Interest: PRESIDENT, MONTANA STATE UNIVERSITY Citizenship: United States Percentage of Votes: 0% Percentage of Total Assets: 0%
ROBERT A. NYSTUEN MONTANA UNIVERSITY SYSTEM BOARD OF REGENTS	PO Box 203201 BOZEMAN, MT 59620 United States	+1 (406) 444- 6570	R.nystuen@icloud.com	Positional Interest: BOARD MEMBER, BOARD OF REGENTS Citizenship: United States Percentage of Votes: 16.6% Percentage of Total Assets: 0%
FRAN M. ALBRECHT MONTANA UNIVERSITY SYSTEM BOARD OF REGENTS	PO BOX 203201 HELENA, MT 59620 United States	+1 (406) 444- 6570	regentalbrecht@montana. edu	Positional Interest: VICE CHAIR, BOARD OF REGENTS Citizenship: United States Percentage of Votes: 16.6% Percentage of Total Assets: 0%
PAUL TUSS MONTANA UNIVERSITY SYSTEM BOARD OF REGENTS	13 SPRUCE DRIVE HAVRE, MT 59501 United States	+1 (406) 444- 6570	ptuss@bearpaw.org	Positional Interest: CHAIR, BOARD OF REGENTS Citizenship: United States Percentage of Votes: 16.6% Percentage of Total Assets: 0%
MONTANA STATE UNIVERSITY N/A MONTANA STATE UNIVERSITY	MONTANA HALL BOZEMAN, MT 59717 United States	+1 (406) 994- 0211	feedback@montanapbs.org	Positional Interest: ENTITY Citizenship: United States Percentage of Votes: 0% Percentage of Total Assets: 100%

Attributable Interest

Section	Question	Response
Equity and Financial Interests	Applicant certifies that equity and financial interests not set forth by the applicant parties are non-attributable.	
Other Authorizations	Does the applicant or any party to the application have an attributable interest in any other broadcast station(s).	

License
Certifications

Section	Question	Response
Main Studio Location	The main studio location complies with 47 C.F.R. Section 73.1125.	No
	Country	US
	PO Box	
	Address Line 1	183 VCB
	Address Line 2	
	City	Bozeman
	State	MT
	Zip Code	59717
	Phone	+1 (406) 994-3437
Constructed Facility	The facility constructed as authorized in the underlying construction permit.	
Special Operating Conditions	The facility was constructed in compliance with all special operating conditions, terms, and obligations described in the construction permit. An exhibit may be required. Review the underlying construction permit.	Yes
Transmitter	The transmitter complies with 47 C.F.R. Section 73.1660.	Yes
Changing Transmitter Power Output	Is this application being filed to authorize a change in transmitter power output caused by the replacement of an omnidirectional antenna with another omnidirectional antenna or an alteration of the transmission line system? See 47 C.F.R. Sections 73.1690(c)(1) and (c)(10).	No
Replacing a Directional Antenna	Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(3) to replace a directional antenna with another directional antenna?	No
	The proposed theoretical antenna pattern complies with 47 C.F.R. Section 73.1690(c)(3).	
Use a formerly licensed main facility as an auxiliary facility	Is this application being filed pursuant to 47 C.F.R. Section 73.1675(c)(1) to request authorization to use a formerly licensed main facility as an auxiliary facility and/or change the ERP of the proposed auxiliary facility?	No
	The proposed auxiliary facility complies with 47 C.F.R. Section 73.1675(a).	
	Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? (See 47 C.F.R. Section 1.1306)	

Point System
Factors

Section	Question	Response
---------	----------	----------

Established Local Applicant	Applicant certifies that for at least the 24 months immediately prior to application, and continuing through the present, it qualifies as a local applicant pursuant to 47 C.F.R. Section 73.7000, that its governing documents require that such localism be maintained, and that it has placed documentation of its qualifications as an established local applicant in a local public inspection file and has submitted to the Commission copies of the documentation.	Yes(3 points)
Diversity of Ownership	Applicant certifies that the principal community (city grade) contour of the proposed station does not overlap the principal community contour of any other authorized station (comparing radio to radio and television to television, including non-fill-in translator stations other than those identified in question below) in which any party to the application has an attributable interest as defined in 47 C.F.R. Section 73.3555, that its governing documents require that such diversity be maintained, and that it has placed documentation of its diversity qualifications in a local public inspection file and has submitted to the Commission copies of the documentation.	Yes(2 points)
	Is the applicant's certification to the above question based on its exclusion of translator station(s) that will be replaced with a full service station pursuant to the authorization requested here?	No
State-wide Network	Applicant certifies that (a) it has NOT claimed a credit for diversity of ownership above; (b) it is one of the three specific types of organizations described in 47 C.F.R. Section 73.7003(b)(3); and (c) it has placed documentation of its qualifications in a local public inspection file and has submitted to the Commission copies of the documentation.	Yes(2 points)
Technical Parameters	Applicant certifies that the numbers in the boxes below accurately reflect the new area and population that its proposal would serve with a 60 dBu (FM) or noise-limited (TV) signal measured in accordance with the standard predicted contours in 47 C.F.R. Sections 73.313(c) (FM) and 73.622(e) and that it has documented the basis for its calculations in the local public inspection file and has submitted copies to the Commission. Major modification applicants should include new area proposed only (exclude any area already within the station's existing service area). (Points, if any, will be determined by FCC).	Yes
	New area served in square kilometers (excluding areas of water):	0
	Population served based on the most recent census block data from the United States:	0

Legal Certifications

Section	Question	Response
Obligations	Licensee/Permittee certifies that all terms, conditions, and obligations set forth in the underlying construction permit have been fully met.	Yes
	Licensee/Permittee certifies that, apart from changes already reported, no cause or circumstance has arisen since the grant of the underlying construction permit which would result in any statement or representation contained in the construction permit application to be now incorrect.	Yes
Eligibility	The applicant certifies that it is a:	Nonprofit educational institution
	The applicant certifies that the applicant's officers, directors and members of its governing board are broadly representative of the educational, cultural, and civic segments of the principal community to be served.	
	The applicant certifies that the Commission has previously granted a broadcast application identified here by file number that found this applicant qualified as a noncommercial educational entity with a qualifying educational program, and that the applicant will use the proposed station to advance a program similar to that the Commission has found qualifying in applicant's previous application.	Yes
	FCC File Number	19830906
	The applicant certifies that its governing documents (e.g., articles of incorporation, by-laws, charter, enabling statute, and/or other pertinent organizational document) permit the applicant to advance an educational program and that there is no provision in any of those documents that would restrict the applicant from advancing an educational program or complying with any Commission rule, policy, or provision of the Communications Act of 1934, as amended.	Yes
Character Issues	Applicant certifies that neither applicant nor any party to the application has or had any interest in, or connection with: <ul style="list-style-type: none"> (a) any broadcast application in any proceeding where character issues were left in unresolved or were resolved adversely against the applicant or party to the application; or (b) any pending broadcast application in which character issues have been raised. 	Yes
Adverse Findings	Has the Applicant or any party to this application had an adverse finding or an adverse final action taken by any court or administrative body in a civil or criminal proceeding brought under any law related to the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination?	No
Program Service Certification	Applicant certifies that it is cognizant of and will comply with its obligations as a Commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area.	Yes
Local Public Notice	Applicant certifies that it has or will comply with the public notice requirements of 47 C.F.R. Section 73.3580.	Yes

Equal Employment Opportunity (EEO)	If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Model EEO Program Report.	N/A
Holding Period	Applicant certifies that this application does not propose a modification to an authorization that was awarded on the basis of a preference for fair distribution of service pursuant to 47 U.S.C. Section 307(b).	Yes
	Applicant certifies that the proposed modification will not downgrade service to the area on which the Section 307(b) preference was based.	
	Applicant certifies that although it proposes to downgrade service to the area on which the Section 307(b) preference was based, applicant has provided full service to that area for a period of four years of on-air operations.	
	Applicant certifies that this application does not propose a modification to an authorized station that received a credit for superior technical parameters under the point system selection method in 47 C.F.R. Section 73.7003.	Yes
	Applicant certifies that the population and area within the proposed service contour (60 dBu (FM) or Noise-Limited (TV)) are greater than or equivalent to those authorized.	
Financial	The applicant certifies that sufficient net liquid assets are on hand or that sufficient funds are available from committed sources to construct and operate the requested facilities for three months without revenue.	Yes
	The applicant certifies that this application is contingent upon receipt of a grant from the National Telecommunications and Information Administration.	
	The applicant certifies that this application is contingent upon receipt of a grant from a charitable organization, the approval of the budget of a school or university, or an appropriation from a state, county, municipality or other political subdivision.	

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.	Dean Lawver <i>Director of Technology,</i> <i>MontanaPBS</i> 09/02/2015

Attachments

File Name	Uploaded By	Attachment Type	Description
KMTF Main Studio Waiver Request.pdf	Applicant	License Certifications	Main Studio Waiver Request
KMTF NCE Mod of License for NCE Status.pdf	Applicant	All Purpose	Modification of License for Noncommercial Status - Explanation of Filing
KUHMTV letter 9-18-15.pdf	Internal	All Purpose	