



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **169027** | Service: **DTV** | Call **KUKL-TV** | Channel: **15 (UHF)** |
ID:
File **0000026466**
Number:
FRN: **0007148174** | Date **05/03**
Submitted: **/2018**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
BOARD OF REGENTS OF THE MONTANA UNIVERSITY SYSTEM	Aaron Pruitt PO Box 59717	+1 (406) 994- 3437	aaron_pruitt@montanapbs. org	Government Entity
Doing Business As: BOARD OF REGENTS OF THE MONTANA UNIVERSITY SYSTEM	Bozeman, MT 59717 United States			

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
The Preparer is same as the reimbursement contact.			

**Broadcaster
Information
and
Transition
Plan**

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	The station will replace the existing transmitter and antenna with a new transmitter and a new antenna that can operate at the new assigned frequency in compliance with the Phase I timeline. This is anticipated to be a direct replacement project.

Transmitters

Section	Question	Response
Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

**Primary
Transmitter****Existing Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Retune Existing
	Use	Primary (Main)
	Ownership	Owned
	Owner	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	Harris

Model	Maxiva UAX2000AT
Year	2011
Type	Solid State
Solid State Cooling	Air Cooled
Solid State Power capacity	2.0 kW

Primary Transmitter

Retuning Transmitter Costs

Section	Question	Response
New IOT Tubes	Number of Tubes (including accessories) needed	N/A
New Mask Filter	Power	3 kW
	Other Power	N/A
New Exciter	Is a new exciter needed?	No

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No

	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Retune services	Retuning services by Gates Air

Antennas

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

Primary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	1
	Number of Panels	4
	Design power capacity in use	20.0 %
	Lower Limit	662.00 MHz
	Upper Limit	668.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	23.4 kW

Manufacturer	
Model	ETU-2U2- HSC1-46
Year	2011

**Primary
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Class A
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Broadband Panel
	Number of Stations Supported	1
	Number of Panels/Bays	4
	Lower Limit	476.00 MHz
	Upper Limit	482.00 MHz
	Design power capacity in use	20.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	12.4 kW
	Manufacturer	
	Model	ESR-PC1

Year	2017
Justification for New Antenna	Existing antenna is unable to operate at the required power at the new assigned frequency. We have attached the price quote for an 'upgraded' elliptical polarized antenna. This quote is less than the catalog price for a standard H-pol antenna.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A

	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary
Antenna**

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary Transmission Line**Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Commscope
	Type	Flexible Air
	Diameter	1 5/8 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	175 feet per run

Primary Transmission Line	Other Transmission Line Expenses Not Listed
Information not provided.	

**Tower
Equipment
And
Rigging
Costs**

Section	Question	Response
Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

**Primary
Tower**

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Move Equipment
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	Is tower documented for structural analysis?	Unknown
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1000780
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	48° 00' 48.0" N-
	Longitude (NAD83)	114° 21' 58.0" W-
	Overall Structure Height	239.83 feet
	Support Structure Height	199.80 feet
	Ground Elevation Above Mean Sea Level (AMSL)	6679.05 feet
	Structure Type	TOWER - Free Standing or Guyed Structure

	Tower Owner	EAGLE COMMUNICATIONS
	Date Constructed	06/01/1968

**FM, AM or TV radio
broadcasters. Facility ID's,
Call Signs and Services of
other broadcast stations with
whom the tower is shared**

Facility ID	Call Sign	Service
49340	KALS	FM
18079	KCFW-TV	DTV
35453	KAJJ-CD	DTV
89617	KLKM	FM

**Primary
Tower**

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

**Primary
Tower**

Other Tower Expenses Not Listed

Information not provided.

**Outside
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	No
	Number of Hours	N/A
	Explanation	N/A
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes

	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs **Other Professional Services Expenses Not Listed**

If wireless is not provided.

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	No

**Other
Expenses**

Other Expenses Not Listed

Name	Description
Freight	Freight charges for antenna

Cost Information

Transmitters

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter Maxiva UAX2000AT	\$119,355.00	\$17,400.00		\$12,180.00	
3 kW mask filter	\$4,155.00	\$7,400.00	From attached quote from Gates Air	N/A	N/A
UHF and VHF - minor banding issues	\$105,200.00	\$0.00	N/A	\$0.00	N/A
Retune services	<i>\$10,000.00</i>	\$10,000.00	Quote is attached for mask filter and re-tuning services	\$12,180.00	This invoice has both the Retune Services of \$10,000 and the Mask Filter costs for \$7400 on one invoice. It is not split into two as the Estimate is.
Sub-total	\$119,355.00	\$17,400.00	N/A	\$12,180.00	N/A
Total for all systems	\$313,770.25	\$109,775.50	N/A	\$42,855.50	N/A

Components

Actual Information

Description	File Name
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3 kW mask filter	Information not provided.
UHF and VHF - minor banding issues	Information not provided.
Retune services	<div> <div> Component Description: Amount: </div> <div> Deposit - 70% \$12,180.00 </div> </div>

Cost Information

Antennas

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna ESR-PC1	\$64,370.00	\$31,810.25		\$20,610.25	
UHF - Lower Power Side Mount, Class A One Station antenna -- basic	\$26,300.00	\$0.00	N/A	N/A	N/A
UHF - Lower Power Side Mount, Class A broadband panel (cost per panel)	\$5,040.00	\$4,800.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
UHF - Lower Power Side Mount, Class A One Station antenna -- basic	\$26,300.00	\$20,610.25	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$20,610.25	N/A
Sub-total	\$64,370.00	\$31,810.25	N/A	\$20,610.25	N/A
Total for all systems	\$313,770.25	\$109,775.50	N/A	\$42,855.50	N/A

Components

Actual Information	
Description	File Name
UHF - Lower Power Side Mount, Class A One Station antenna -- basic	Information not provided.
UHF - Lower Power Side Mount, Class A broadband panel (cost per panel)	Information not provided.
Sweep test of existing antenna	Information not provided.
UHF - Lower Power Side Mount, Class A One Station antenna -- basic	<div> <div> Component Description: </div> <div> 50% down payment on UHF Antenna. </div> </div> <div> Amount: </div> <div> \$8,897.50 </div> <div> Component Description: </div> <div> Final 50% of UHF Antenna plus related freight costs. </div> <div> Amount: </div> <div> \$11,712.75 </div>

Cost
Information

Transmission Line

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$0.00	\$0.00		\$0.00	
Sub-total	\$0.00	\$0.00	N/A	\$0.00	N/A
Total for all systems	\$313,770.25	\$109,775.50	N/A	\$42,855.50	N/A

Components

Information not provided.

Cost
Information

Tower Equipment and Rigging Costs

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$84,200.00	\$25,000.00		\$0.00	
Short Tower (less than 500')	\$84,200.00	\$25,000.00	N/A	N/A	N/A
Sub-total	\$84,200.00	\$25,000.00	N/A	\$0.00	N/A
Total for all systems	\$313,770.25	\$109,775.50	N/A	\$42,855.50	N/A

Components

Information not provided.

Cost Information

Outside Professional Services

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$24,980.00	\$23,750.00		\$10,065.25	
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$7,305.75	We were not able to build monthly Out-of-pocket general expenses into the estimate.
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$2,759.50	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Sub-total	\$24,980.00	\$23,750.00	N/A	\$10,065.25	N/A
Total for all systems	\$313,770.25	\$109,775.50	N/A	\$42,855.50	N/A

Components

Actual Information

Description

File Name

<p>Perform engineering study for new channel assignment and antenna development</p>	<table> <tr> <td data-bbox="710 87 1093 414"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1093 87 1426 414"> <p>August Consulting Services for Repack.</p> <p>\$514.00</p> </td></tr> <tr> <td data-bbox="710 414 1093 728"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1093 414 1426 728"> <p>July Consulting Services for Repack.</p> <p>\$4,608.30</p> </td></tr> <tr> <td data-bbox="710 728 1093 981"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1093 728 1426 981"> <p>October consulting services for Repack.</p> <p>\$2,183.45</p> </td></tr> </table>	<p>Component Description:</p> <p>Amount:</p>	<p>August Consulting Services for Repack.</p> <p>\$514.00</p>	<p>Component Description:</p> <p>Amount:</p>	<p>July Consulting Services for Repack.</p> <p>\$4,608.30</p>	<p>Component Description:</p> <p>Amount:</p>	<p>October consulting services for Repack.</p> <p>\$2,183.45</p>
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<p>Component Description:</p> <p>Amount:</p>	<p>July Consulting Services for Repack.</p> <p>\$4,608.30</p>						
<p>Component Description:</p> <p>Amount:</p>	<p>October consulting services for Repack.</p> <p>\$2,183.45</p>						
<p>Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>						

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: July legal fees. Amount: \$392.50
	Component Description: September legal fees. Amount: \$56.00
	Component Description: September legal fees. Amount: \$56.00
	Component Description: January 2018 legal fees. Amount: \$151.50
	Component Description: October legal fees. Amount: \$151.00
	Component Description: May Legal Permit Fees. Amount: \$335.00
	Component Description: June legal fees for permit. Amount: \$1,673.50
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.

Prepare and or review reimbursement form	Information not provided.
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Cost
Information

Other Expenses

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$20,865.25	\$11,815.25		\$0.00	
Freight	\$2,815.25	\$2,815.25	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$1,000.00	\$1,000.00	N/A	N/A	N/A
Equipment Storage	\$1,500.00	\$1,500.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$2,500.00	\$2,500.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$1,500.00	\$1,500.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,500.00	N/A	N/A	N/A
Sub-total	\$20,865.25	\$11,815.25	N/A	\$0.00	N/A
Total for all systems	\$313,770.25	\$109,775.50	N/A	\$42,855.50	N/A

Components

Information not provided.

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$313,770.25	\$109,775.50
			\$42,855.50

Reimbursement Status	Question	Response
	The facility has ceased operating on its pre-auction channel.	No
	Construction of final facilities or all necessary modifications are complete.	No
	All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	No

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

	<p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</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>Carol F Farris <i>Director of Finance</i></p> <p>05/03/2018</p>

Attachments