



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **71023** | Service: **DTV** | Call **KTNW** | Channel: **22 (UHF)** |
ID: | Sign:
File **0000028348**
Number:
FRN: **0001563949** | Date **06/18**
Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
WASHINGTON STATE UNIVERSITY Doing Business As: WASHINGTON STATE UNIVERSITY	Murrow Public Media. Jackson Hall rm 382, P.O. BOX 642530 PULLMAN, WA 99164 United States	+1 (509) 335-6585	doug.krehbiel@wsu.edu	Government Entity

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
Martin L. Gibbs <i>FCC Planning Engineer</i> <i>Washington State University Murrow Public Media</i>	2710 Crimson Way Richland, WA 99354 United States	+1 (509) 948-1496	m.gibbs@wsu.edu

**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		Replace analog antenna at top of tower with new antenna; install new transmitter. This will allow parallel operation during the testing phase without additional expenses for temporary facilities. Ref: Attachment 1

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	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	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	
	Model	Magnum
	Year	2003
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	2 kW

**Primary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	THU9-EVO
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	8.2 kW
	Justification for New Transmitter	Larcan Magnum transmitter is no longer supported and has many obsolete parts. Current manufacturer does not have documentation for re-tune. In addition, a higher TPO (4.9kW) is necessary to support the proposed antenna, 7.6 kW is an upgrade

**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	Yes
	Size	2 inches
	Length	25.0 feet
	Other Electrical Service	Yes
	Description	Branch panel with disconnect
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**
Information not provided.

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?	Yes
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	47.6 kW

Manufacturer	
Model	TLP-8L
Year	2003

**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?	No
	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?	Yes
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	29.5 kW
	Manufacturer	
	Model	SFN-3030-2

Year	2018
Justification for New Antenna	Old antenna cannot be retuned from channel 38 to channel 22. Ref: Attachment 1

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?	No

**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	Purchase New
	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	
	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	120 feet per run

Primary
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	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	140 feet per run
	Justification for New Transmission Line	Enable parallel operation during testing period. Ref: Attachment 1

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**

Add Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	No
	ASR Number	
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	46° 06' 12.8" N-
	Longitude (NAD83)	119° 07' 44.6" W-
	Overall Structure Height	62.00 feet
	Support Structure Height	62.00 feet
	Ground Elevation Above Mean Sea Level (AMSL)	2182.00 feet

	Structure Type	UTOWER - Unguyed - Free Standing Tower
	Tower Owner	Washington State University
	Date Constructed	06/02/2003

**Primary
Tower**

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Minor Reinforcements needed

**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**

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	400
	Explanation	Planning and coordination of project to assure adherence to Phase 1 schedule. See Attachment 1
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	Yes
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

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

If none, then not considered.

**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	Yes
	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?	Yes

Other Expenses	Other Expenses Not Listed Information not provided.
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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 THU9-EVO	\$508,225.00	\$278,886.00		\$271,810.60	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$265,186.00	N/A	\$265,186.00	Estimate revised to include parts required for transmitter that were not included on original estimate.
2" Rigid Conduit and Wiring (Cost per foot)	\$650.00	\$625.00	N/A	N/A	N/A
Other Electrical Service: Branch panel with disconnect	\$13,075.00	\$13,075.00	N/A	\$6,624.60	N/A
Sub-total	\$508,225.00	\$278,886.00	N/A	\$271,810.60	N/A
Total for all systems	\$976,425.00	\$727,976.00	N/A	\$363,162.05	N/A

Components

Actual Information Description	File Name
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UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	<table> <tr> <td data-bbox="719 174 1027 210">Component Description:</td><td data-bbox="1161 174 1369 327">Additional parts needed for installation as per revised estimate.</td></tr> <tr> <td data-bbox="719 338 831 367">Amount:</td><td data-bbox="1161 338 1278 367">\$5,192.17</td></tr> <tr> <td data-bbox="719 477 1027 512">Component Description:</td><td data-bbox="1161 477 1369 584">Various parts and assembly hardware</td></tr> <tr> <td data-bbox="719 595 831 624">Amount:</td><td data-bbox="1161 595 1278 624">\$5,192.17</td></tr> <tr> <td data-bbox="719 734 1027 770">Component Description:</td><td data-bbox="1161 734 1362 922">KTNW Transmitter - portion of invoice based on bid for smaller unit.</td></tr> <tr> <td data-bbox="719 934 831 963">Amount:</td><td data-bbox="1161 934 1310 963">\$259,993.83</td></tr> </table>	Component Description:	Additional parts needed for installation as per revised estimate.	Amount:	\$5,192.17	Component Description:	Various parts and assembly hardware	Amount:	\$5,192.17	Component Description:	KTNW Transmitter - portion of invoice based on bid for smaller unit.	Amount:	\$259,993.83
Component Description:	Additional parts needed for installation as per revised estimate.												
Amount:	\$5,192.17												
Component Description:	Various parts and assembly hardware												
Amount:	\$5,192.17												
Component Description:	KTNW Transmitter - portion of invoice based on bid for smaller unit.												
Amount:	\$259,993.83												
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.												
Other Electrical Service: Branch panel with disconnect	<table> <tr> <td data-bbox="719 1218 1027 1254">Component Description:</td><td data-bbox="1161 1218 1374 1406">material and labor to upgrade electrical system for new KTNW transmitter</td></tr> <tr> <td data-bbox="719 1417 831 1447">Amount:</td><td data-bbox="1161 1417 1278 1447">\$6,624.60</td></tr> </table>	Component Description:	material and labor to upgrade electrical system for new KTNW transmitter	Amount:	\$6,624.60								
Component Description:	material and labor to upgrade electrical system for new KTNW transmitter												
Amount:	\$6,624.60												

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 SFN-3030-2	\$50,000.00	\$50,000.00		\$19,045.65	
UHF - High Power, Side Mount, basic slot antenna, 30 kW input, directional,, horizontally polarized	<i>\$50,000.00</i>	\$50,000.00	N/A	\$19,045.65	N/A
Sub-total	\$50,000.00	\$50,000.00	N/A	\$19,045.65	N/A
Total for all systems	\$976,425.00	\$727,976.00	N/A	\$363,162.05	N/A

Components

Actual Information	
Description	File Name

UHF - High Power, Side
Mount, basic slot antenna,
30 kW input, directional,,
horizontally polarized

Component Description:

rods, washers
and bolts for
antenna
installation

Amount:

\$190.54

Component Description:

Sales Tax paid by
WSU directly to
state. Not
included in
Invoice 9874-
Magnum Towers.

Amount:

\$711.68

Component Description:

Hex cap screws
for antenna
installation

Amount:

\$7.23

Component Description:

DTV Channel 22
UHF Slotted
antenna with 10
full wave spaced
bays.

Amount:

\$18,136.20

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	\$4,620.00	\$4,340.00		\$9,853.96	
Flexible Air Transmission Line - dielectric, 1 5/8"	\$4,620.00	\$4,340.00	N/A	\$9,853.96	Additional line and fittings required to attach antenna to transmitter than originally estimated.
Sub-total	\$4,620.00	\$4,340.00	N/A	\$9,853.96	N/A
Total for all systems	\$976,425.00	\$727,976.00	N/A	\$363,162.05	N/A

Components

Actual Information	
Description	File Name
Flexible Air Transmission Line - dielectric, 1 5/8"	Component Description: Amount: Transmission Line plus assembly parts. \$9,853.96

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 UTOWER	\$254,800.00	\$242,000.00		\$20,376.30	
Short Tower (less than 500')	\$84,200.00	\$80,000.00	N/A	\$10,230.30	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	\$8,896.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	\$1,250.00	N/A
Sub-total	\$254,800.00	\$242,000.00	N/A	\$20,376.30	N/A
Total for all systems	\$976,425.00	\$727,976.00	N/A	\$363,162.05	N/A

Components

Actual Information	
Description	File Name

Short Tower (less than 500')	Component Description: Labor and crane to install pole mount for new antenna at KTNW. Amount: \$9,828.00
Minor tower reinforcement /modifications	Component Description: Review of project site, determine materials and process Amount: \$402.30
Structural engineering tower load study for well documented tower	Component Description: Tower Structural analysis Amount: \$1,250.00

**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	\$109,230.00	\$103,750.00		\$31,955.94	
Project management of the transition	\$63,200.00	\$60,000.00	N/A	\$19,582.53	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,131.53	N/A
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$2,250.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$4,784.50	N/A

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$482.34	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$2,125.20	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	\$599.84	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
Sub-total	\$109,230.00	\$103,750.00	N/A	\$31,955.94	N/A
Total for all systems	\$976,425.00	\$727,976.00	N/A	\$363,162.05	N/A

Components

Actual Information	
Description	File Name
Project management of the transition	Component Description: project management - wages allocated during 3rd quarter 2017 Amount: \$1,334.00

Component Description:	Transmitter line resubmit form 399
Amount:	\$142.50

Component Description:	Progress reports and updates
Amount:	\$530.00

Component Description:	Form 399 revision assistance; channel transition
Amount:	\$380.00

Component Description:	Progress reports
Amount:	\$265.00

Component Description:	Portion of 2nd quarter wages allocated to general project management
Amount:	\$2,205.70

Component Description:	Project management - wages for 1st quarter.
Amount:	\$782.00

Component Description:	wages attributed to transition management
Amount:	\$92.00

Component Description:	Progress reports and FCC filings
Amount:	\$737.50

Component Description:	portion of wages attributed to project management
Amount:	\$76.03

Component Description:	Attorney service related to management of overall project.
Amount:	\$1,156.00

Component Description:	project management of February
Amount:	\$130.00

Component Description:	Portion of wages allocated to Project Management during 4th quarter 2017
Amount:	\$1,061.68

Component Description:	Portion of M. Gibbs time on Project Management of Repack for 2nd quarter of year.
Amount:	\$2,656.04

Component Description:	Portion of First Quarter 2018 wages applicable to Project Management
Amount:	\$4,010.28

	Component Description:	July - September portion of wages related Repack
	Amount:	\$2,716.30
	Component Description:	portion of invoice related to general transition management
	Amount:	\$1,307.50
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description:	Attorney fees related to Repack prep/construction license.
	Amount:	\$1,211.53
	Component Description:	prepare engineering section of Form 2100, construction permit application. Portion of wages allocated during 3rd quarter 2017
	Amount:	\$230.00
	Component Description:	prepare engineering section of Form 2100, construction permit application. wages during 2nd qtr 2017
	Amount:	\$690.00
RF Exposure Measurements	Information not provided.	

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description: Attorney service related to application, licensing and form 399 Amount: \$349.00
	Component Description: Attorney service related to licensing and form 399 Amount: \$317.00
	Component Description: Attorney services related to licensing and form 399 Amount: \$339.00
	Component Description: Attorney Fees - Construction portion of invoice Amount: \$42.50
	Component Description: Attorney service related to licensing and form 399 Amount: \$990.50
	Component Description: Attorney service for licensing and form 399 Amount: \$212.00
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: portion of invoice related to construction permit application Amount: \$37.00

Component Description:	FCC licensing and filing
Amount:	\$227.00

Component Description:	Attorney service related to construction permit preparation and submission
Amount:	\$1,548.00

Component Description:	Attorney fees August 2018
Amount:	\$522.50

Component Description:	Attorney Fees - Construction permit application - March
Amount:	\$242.50

Component Description:	Attorney fees for July 2018
Amount:	\$427.50

Component Description:	Attorney Fees - Construction Permit application - April
Amount:	\$712.50

Component Description:	Attorney service related to construction permit preparation and submission
Amount:	\$301.00

	Component Description: Amount:	Attorney fees - Construction permit application - Dec 17 \$47.50
	Component Description: Amount:	Attorney Fees - Construction permit application - February \$159.00
	Component Description: Amount:	Attorney service related to construction permit preparation and submission \$375.00
	Component Description: Amount:	Attorney Fees - Construction permit application June \$185.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	portion of invoice related to license to cover \$216.00
	Component Description: Amount:	portion of wages attributed to FCC form 2100 \$266.34

Perform engineering study for new channel assignment and antenna development	<table> <tr> <td data-bbox="708 174 1015 210">Component Description:</td><td data-bbox="1150 174 1366 286">Engineering Study portion of 2nd quarter wages.</td></tr> <tr> <td data-bbox="708 297 815 333">Amount:</td><td data-bbox="1150 297 1267 333">\$1,840.00</td></tr> <tr> <td data-bbox="708 434 1015 470">Component Description:</td><td data-bbox="1150 434 1358 627">portion of wages attributed to engineering study and antenna development</td></tr> <tr> <td data-bbox="708 638 815 674">Amount:</td><td data-bbox="1150 638 1246 674">\$285.20</td></tr> </table>	Component Description:	Engineering Study portion of 2nd quarter wages.	Amount:	\$1,840.00	Component Description:	portion of wages attributed to engineering study and antenna development	Amount:	\$285.20
Component Description:	Engineering Study portion of 2nd quarter wages.								
Amount:	\$1,840.00								
Component Description:	portion of wages attributed to engineering study and antenna development								
Amount:	\$285.20								
Prepare and or review reimbursement form	<table> <tr> <td data-bbox="708 801 1015 837">Component Description:</td><td data-bbox="1150 801 1342 958">portion of wages attributed to reimbursement form review</td></tr> <tr> <td data-bbox="708 969 815 1005">Amount:</td><td data-bbox="1150 969 1246 1005">\$599.84</td></tr> </table>	Component Description:	portion of wages attributed to reimbursement form review	Amount:	\$599.84				
Component Description:	portion of wages attributed to reimbursement form review								
Amount:	\$599.84								
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.								

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	\$49,550.00	\$49,000.00		\$10,119.60	
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$3,000.00</i>	\$3,000.00	N/A	N/A	N/A
Equipment Storage	<i>\$4,000.00</i>	\$4,000.00	N/A	\$900.00	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	\$5,089.60	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$4,130.00	N/A
Non-zoning permits	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Sub-total	\$49,550.00	\$49,000.00	N/A	\$10,119.60	N/A
Total for all systems	\$976,425.00	\$727,976.00	N/A	\$363,162.05	N/A

Components

Actual Information	
Description	File Name
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Component Description: Storage of transmitter Amount: \$900.00
Equipment Delivery and Handling Charges	Component Description: Transmitter handling and delivery Amount: \$2,718.00 Component Description: Pole mount handling and delivery Amount: \$1,900.50 Component Description: rental of front loader Amount: \$380.10 Component Description: Rental of portable toilet Amount: \$91.00
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.

DTV Medical Facility Notification	Component Description: Notification of Medical Facilities Amount: \$2,375.00
	Component Description: Notification of Cable and Satellite MVPD Providors of new RF Chanel & Transport Stream parameters Amount: \$1,755.00
Non-zoning permits	Information not provided.

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$976,425.00	\$727,976.00
			\$363,162.05

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	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.	
		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.

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.	
I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	Denise Crossler , Crossler . Grant & Contract Specialist 06/18/2019

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS 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 AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		1. The Authorized Person signing below certifies and represents 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 certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
5. 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 (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD) .
6. 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.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	Denise Crossler , Crossler . <i>Grant & Contract Specialist</i> 06/18/2019

Attachments