

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility	4688	Service: DTV	Call	WHSV-TV	Channel: 20 (UHF)
Facility	4000		Call	WH3V-IV	
ID:			Sign:		
File	000003	6132			
Number:					
FRN: 00 1	8223693	Date	12/02		
		Submitted:	/2019		

Applicant Name, Type, and Contact Information

Applicant Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC	WHSV-TV 50 NORTH MAIN STREET HARRISONBURG, VA 22802 United States	+1 (540) 433-9191	robert. folliard@gray. tv	Limited Liability Company

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Name and Information					
Contact Information	Applicant	Address	Phone	Email		
	Samuel Hariton Widelity, Inc.	Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widelity.com		

Broadcaster	Question	Response
Information and Transition Plan	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	See attached narrative.

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

Primary	Existing Transmitter Information				
Transmitter	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			
	Manufacturer and Type	Model	Ultimate /Optimum Dual Drive 5K		
		Year	2002		
		Туре	Solid State		
		Solid State Cooling	Air Cooled		
		Solid State Power Capacity	5 kW		

Existing Transmitter Information

Primary	New Transmitter Costs					
Transmitter	Section	Question	Response			
	New Transmitter	Use	Primary (Main)			
		Change Type	Purchase New			
		Is this a request for upgraded equipment?	Yes			
		Manufacturer				
		Model	MPTV- Parallax U8			
		Transmitter Type	Solid State			
		Solid State Cooling	Liquid Cooled			
		Solid State Power capacity	13 kW			
		Justification for New Transmitter	Existing transmitter cannot be retuned, therefore need a new transmitter.			

Primary	Other Transmitter Costs					
Transmitter	r Section	Question	Response			
	Electrical Service	Service Entrance (3 phases 800A 208V)	No			
		Switchgear (industrial 800 amp)	Yes			
		Transformer (480V)	No			
		Power	N/A			
		Rigid Conduit and Wiring	No			
		Size	N/A			
		Length	N/A			
			1			

	Other Electrical Service	Yes
	Description	Bringing electrical service to the new site for the new transmitter because existing service at new site is insufficient.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Heating and Cooling
	Size	20 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold 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 Other Transmitter Cost Not Listed

Transmitter Information not provided.

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary	Existing Antenna Information					
Antenna	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?	No			
		Is antenna in operating condition?	Yes			
		Is antenna located on or in close proximity to an antenna farm?	Yes			
	Existing Antenna	Class	Full Power			
	Manufacturer and Type	Mounting	Side Mount			
		Antenna position in stack	Not in Stack			
		Polarization	Horizontal			
		Туре	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)	65.0 kW			
			-			

	Manufacturer	
	Model	ALP1212- HSOC-49
-	Year	2002

Primary	New Antenna Costs			
Antenna	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?	Yes	
	New Antenna Manufacturer and Types	Class	Full Power	
		Mounting	Side Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Elliptical	
		Туре	Broadband Panel	
		Number of Stations Supported	1	
		Number of Panels/Bays	12	
		Lower Limit	470.00 MHz	
		Upper Limit	608.00 MHz	
		Design power capacity in use	100.0 %	
		Other Antenna Type	N/A	
		ERP: (Effective Radiated Power)	271.0 kW	
		Manufacturer		

Model	ETU6U4- ESP2C-20
Year	2018
Justification for New Antenna	Existing antenna cannot be retuned and will be used on the existing channel during transition. Antenna provides directional pattern to protect quiet zone Green Bank, WV.

Other Antenna Cos

Primary Antenna

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Туре	
	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 Other Antenna Cost Not Listed

Antenna Information not provided.

Transmissior	n Seffien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

ransmissio	n 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
Existing Transmission Line Manufacturer and Type		Is the existing transmission line shared with another station or stations?	No
		Is Transmission Line in operating condition?	Yes
	_	Manufacturer	
		Туре	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	485 feet per run

Primary Existing Transmission Line

Primary	New Transmission Line		
Transmissio	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?	Yes
		Туре	Flexible Air
		Diameter	3 inches
		Other Diameter	N/A
		Segment Length	N/A
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	95 feet per run
		Justification for New Transmission Line	Relocating to a new site, require new line because the existing line will be used with existing antenna during the transition.

Primary Other Transmission Line Expenses Not Listed Transmission

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

marv	Existing	Tower
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Primary	Existing Tower			
Tower	Section	Question	Response	
	Existing Tower Description	Type of change	Construct New	
		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?	No	
_	Existing Tower Structure	Do you have a tower registration number?	Yes	
	Registration	ASR Number	1017951	
No	Coordinates (NAD83 (North American Datum of	Latitude (NAD83)	38° 36' 05.0" N-	
	1983))	Longitude (NAD83)	078° 37' 56.0" W-	
		Overall Structure Height	336.94 feet	
		Support Structure Height	299.87 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	2956.00 feet	

Structure Type	TOWER - Free Standing of Guyed Structure
Tower Owner	Gray Television Group, Inc.
Date Constructed	12/01/1973

Primary	Tower Construction Costs	8	
Tower	Section	Question	Response
	Construct New Tower	Use	Primary (Main)
		Description of Use	N/A
		Is this a request for upgraded equipment?	No
		Height	100.00 feet
		Justification for New Tower	Must change transmitter site to new location per Green Bank (NRAO), new site requires new tower.

Primary Tower Rigging Costs

Tower

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

Primary Other Tower Expenses Not Listed

Tower Information not provided.

Outside	Section	Question	Response
Professional	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	900
		Explanation	Strategic support.
	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	Prepare and file Form FCC Construction Permit Application	Yes
	Services	For Auxiliary Facility	No
		For Main Facility	NoYesYesNoYesNoYesNoNAN/AN/AYesYes
		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	Yes
	Environmental Assessment	Yes
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	Yes
	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	Yes
	Number of Days	10
	Justification	Adjacent to NRAO site, need to address quiet zone issues.

Other Professional Services Expenses Not Listed Professional Services roopstsided.

Other	Section	Question	Response
Expenses	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
		Non-zoning permitsYesBLM or NFS CoordinationYesFCC Construction Permit Minor ChangeNoFCC License to Cover ApplicationYesFCC Special Temporary Authority ApplicationNo	
			Yes
	Permit and Filing Costs	Local Zoning	Yes
		Non-zoning permits	Yes
		BLM or NFS Coordination	Yes
		FCC Construction Permit Minor Change	No
		FCC License to Cover Application	Yes
			No
	Other Miscellaneous Expenses	Disposal Costs (for equipment and other	Yes
		Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
		Does this relocation require Equipment Storage?	No
		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 Not Listed

Other Expenses	Other Expenses Not Listed				
	Name	Description			
	Microwave Equipment	Microwave equipment required to delivery station's signal to new transmitter site.			

Transmitters

Cost Information

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 MPTV- Parallax U8	\$702,471.97	\$627,537.07		\$590,506.57	
20 Ton system	\$115,500.00	\$33,775.00	Riddleberger Brothers Invoice #113133	\$33,775.00	N/A
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$503,190.10	See manufacturer's quote.	\$502,459.60	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
Other Electrical Service: Bringing electrical service to the new site for the new transmitter because existing service at new site is insufficient.	\$54,271.97	\$54,271.97	See electrical company estimate; GenServ LLC Quote #1326 also TTM invoice 70501 for network cabling	\$54,271.97	per invoices received
Sub-total	\$702,471.97	\$627,537.07	N/A	\$590,506.57	N/A
Total for all systems	\$1,905,081.71	\$1,496,791.37	N/A	\$1,239,998.10	N/A

Actual Information Description	File Name	
20 Ton system	Component Description: Amount:	Replace Two (2) 3- ton Units with Two (2) 5-ton Bard Units \$33,775.00
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	Component Description: Amount:	System, WHSV PRLX U8 D20 \$25,536.80
	Component Description: Amount:	Transmitter \$298,165.20
	Component Description: Amount:	Hardware \$730.50
	Component Description:	Primary Transmitter System, WHSV PRLX U8 D20
	Amount:	\$178,757.60
	Component Description: Amount:	Invalid invoice N/A
Switchgear - industrial 800 amp	Information not provided.	

Other Electrical Service: Bringing electrical service to the new site for the new transmitter because existing service at new site is insufficient.	Component Description:	One Kohler Generator M #125REOZJG \$54,216.86
	Component Description:	CAT 5 OUTDOOR,
	Amount:	5NF4 \$55.11

Antennas

Cost Information

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 ETU6U4- ESP2C-20	\$423,230.00	\$74,642.13		\$62,972.70	
UHF - Lower Power Side Mount, One station antenna 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$42,978.69	Per DTVPros Quote JEHQ1431- 01 - the previously reimbursed amount of \$25,263.44 has been removed from the previously approved amount of \$68,242.13	\$31,309.26	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$25,263.44	***System Notice: Estimate adjusted and locked because line has been superseded. ***Per Quote JEHQ1431- 01	\$25,263.44	Please deny 174a
Sub-total	\$423,230.00	\$74,642.13	N/A	\$62,972.70	N/A

Actual Information Description	File Name	
UHF - Lower Power Side Mount, One station antenna 200-500 kW, elliptically or circularly polarized	Component Description: Amount:	Proposal B18- 1373 \$3,545.00
	Component Description: Amount:	New Primary Antenna \$15,158.07
	Component Description:	UHF-High power broadband side mount, Field engineer, etc.
	Amount:	\$12,606.19

antenna	Component Description:	Sweep Test New
	Amount:	Primary Antenna \$1,920.00
	Component Description:	WHSV-210- Primary Antenna - Sweep Test
	Amount:	\$1,280.00
	Component Description:	Sweep Test New Primary Antenna
	Amount:	\$1,600.00
	Component Description:	Sweep Test New
	Amount:	Primary Antenna \$1,600.00
UHF - Lower Power Side Mount, One station - 200- 500 kW, horizontally polarized	Component Description:	Primary antenna; UHF-High Power broadband side
	Amount:	mount (200- 1000KW) \$12,631.72
	Component Description:	Please deny this invoice
	Amount:	N/A
	Component Description:	UHF- High Power Broadband Side
		Mount

Transmission Line

Cost Information

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	\$5,605.00	\$9,837.43		\$9,837.43	
Flexible Air Transmission Line - dielectric, 3"	\$5,605.00	\$9,837.43	See dealer's quote.	\$9,837.43	Z
Sub-total	\$5,605.00	\$9,837.43	N/A	\$9,837.43	N/A
Total for all systems	\$1,905,081.71	\$1,496,791.37	N/A	\$1,239,998.10	N/A

Components

Actual Information Description File Name

Flexible Air Transmission Line - dielectric, 3"	Component Description: Amount:	New Primary Transmission Line \$1,697.57
	Component Description:	WHSV-310- Primary Transmission Line - 3" Flexible Air Dielectric
	Amount:	\$2,810.56
	Component Description: Amount:	New Primary Transmission Line \$1,414.65
	Component Description: Amount:	New Primary Transmission Line \$1,414.65
	Component Description:	Provide One ASCO 300 Transfer Switch
	Amount:	\$2,500.00

Tower Equipment and Rigging Costs

Cost Information

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	\$348,559.74	\$344,359.74		\$295,022.23	
Short Tower (less than 500')	\$84,200.00	\$80,000.00	N/A	\$30,662.50	N/A
New tower	\$264,359.74	\$264,359.74	see Estimated Cost Justification WHSV-480- Construct New Tower v1	\$264,359.73	N/A
Primary Tower TOWER	\$0.00	\$0.00		\$0.00	
Sub-total	\$348,559.74	\$344,359.74	N/A	\$295,022.23	N/A
Total for all systems	\$1,905,081.71	\$1,496,791.37	N/A	\$1,239,998.10	N/A

Actual Information	
Description	File Name

Short Tower (less than 500')		
	Component Description:	Per Proposal
		Agreement
	Amount:	20190930-897 \$12,060.00
	Anount.	φ12,000.00
	Component Description:	POLE SOLID
		STEEL
	Amount:	\$5,882.50
	Component Description:	Trx #300244; Line
		#1
	Amount:	\$12,720.00
New tower		
	Component Description:	Perform structural
		inspection in
		accordance with
		TIA 222G and
		document location
		of all tower
	Amount	appurtenances
	Amount:	\$1,475.00
	Component Description:	Reimburse
		construction costs
		- Dominion Energy
		Virginia - Elliott's
		Knob
	Amount:	\$1,531.48
	Component Description:	Underground
		conduit for shelter
	Amount:	\$16,970.00
	Component Description:	Trx #300245; Line
	••••••••••••••••••••••••••••••	#1

Component Description: Amount:	Materials \$45,063.00
Component Description: Amount:	1/3 Completion of FND \$61,132.66
Component Description: Amount:	Tower analysis \$2,800.00
Component Description: Amount:	Shenandoah Tower construction \$61,132.67
Component Description:	Install new 400amp service for tower site, customer installing conduit.
Amount:	\$222.26
Component Description:	Removal vegetation /Ant Mounts REPACK
Amount:	\$12,900.00

Outside Professional Services

Cost Information

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	\$212,430.00	\$235,575.00		\$153,645.36	
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$96,861.54	N/A
Additional Field Engineering Service, 10 Days	\$20,000.00	\$20,000.00	N/A	N/A	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$10,000.00	N/A	\$9,831.16	N/A

NEPA Section 106 environmental review, if needed	\$6,310.00	\$6,000.00	N/A	\$1,174.00	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	\$1,865.66	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$589.50	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$4,061.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$0.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$7,325.00	Quiet zone; Chesapeake RF Consultants, LLC Invoice #10267	\$7,325.00	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$35,500.00	Quiet zone Chesapeake RF Consultants invoice	\$31,937.50	Z
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$0.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Sub-total	\$212,430.00	\$235,575.00	N/A	\$153,645.36	N/A
Total for all systems	\$1,905,081.71	\$1,496,791.37	N/A	\$1,239,998.10	N/A

Actual Information Description	File Name	
Project management of the transition	Component Description: Amount:	Reference WHSV- 510-Project Management Widelity, Inc. GRY- WHSV-TV-010 \$1,822.50
	Component Description: Amount:	Project Management \$28.20
	Component Description: Amount:	Project Management \$1,500.00

Component Description: Amount:	Project Management \$951.45
Component Description: Amount:	Project Management \$487.80
Component Description: Amount:	Project Management \$3,352.00
Component Description: Amount:	Project Management \$2,962.20
Component Description: Amount:	Project Management \$4,946.30
Component Description: Amount:	Project Management \$5,042.95
Component Description: Amount:	Project Management \$5,090.60
Component Description: Amount:	Project Management \$2,022.90
Component Description: Amount:	Cost Reconciliation \$8,285.45

Component Description: Amount:	Project Management \$2,231.90
Component Description: Amount:	Project Management \$3,545.70
Component Description: Amount:	Project Management \$4,977.10
Component Description: Amount:	Project Management \$1,861.40
Component Description: Amount:	Project Management \$7,014.40
Component Description: Amount:	Project Management \$2,367.65
Component Description: Amount:	Project Management \$3,737.70
Component Description: Amount:	Project Management \$1,723.55
Component Description: Amount:	Project Management \$1,795.60

Component Description: Amount:	Project Management \$733.30
Component Description: Amount:	Professional Services \$236.44
Component Description: Amount:	Project Management \$1,916.50
Component Description: Amount:	Project Management \$4,100.40
Component Description: Amount:	Project Management \$1,856.30
Component Description: Amount:	Project Management \$802.25
Component Description: Amount:	Project Management \$3,395.10
Component Description: Amount:	Project Management \$1,668.10
Component Description: Amount:	Project Management \$6,234.80

	Component Description:	Project Managemen
	Amount:	\$4,749.40
	Component Description:	Project
		Managemen
	Amount:	\$1,328.55
	Component Description:	Project
		Managemen
	Amount:	\$4,093.05
Additional Field Engineering Service, 10 Days	Information not provided.	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
ASR modification (prepare FCC Form 854)	Information not provided.	
Environmental		
Assessment, if triggered by NEPA Section 106 review	Component Description:	Elliot Knob
or for certain structures		Biological
over 450 feet		Assesment
	Amount:	\$9,831.16

NEPA Section 106 environmental review, if needed	Component Description:	NEPA Section 106 Environmental
	Amount:	Review \$829.00
	Component Description:	Research and analyze applicability of Forest Service letter to need for environmental review.
	Amount:	\$345.00
Attorney Fees - Negotiation of lease and other matters for shared locations	Component Description: Amount:	Legal services \$123.00
	Component Description: Amount:	For Professional Services \$370.00
	Component Description:	Prepare pro hac vice motion
	Amount:	\$291.37
	Component Description:	Total professional services, total Disbursements
	Amount:	\$697.00
	Component Description:	Professional Services Rendered through December
		31, 2018

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description:	Professional services: Complete and file WHSV Repack construction permit application. Call re: WHSV quiet zone concerns; email with FCC staff re: same \$589.50
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Attorney Fees Prepare and File Construction Permit Application \$524.00
	Component Description: Amount:	Prepare and File Construction Permit Application (Main) \$1,637.50
	Component Description: Amount:	FCC Filing fees for modified CP and construction waiver request \$1,048.00
	Component Description: Amount:	Prepare and File Construction Permit Application (Main) \$851.50
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	Component Description:	RF Eng - Construction Permit Application
	Amount:	(Main) \$3,000.00
	Component Description:	RF Eng - Construction Permit Application
	Amount:	(Main) \$275.00
	Component Description:	Consulting Engineer
	Amount:	\$4,050.00
Perform engineering study for new channel assignment and antenna development	Component Description:	Re: prospective digital replacement translators ar 4 sites, continued review of antenna vendor responses and discussions.
	Amount:	\$375.00
	Component Description:	Engineering Study for New Channel Assignment
	Amount:	\$1,075.00
	Component Description:	Engineering Study for New Channel Assignment
	Amount:	\$325.00

Component Description: Amount:	Engineering Study for New Channel Assignment \$375.00
Component Description: Amount:	Engineering Study for New Channel Assignment \$1,812.50
Component Description:	Consulting Engineer - J. Davis. Participate in telephone conference call regarding buildout of WHSV-TV repack facility \$125.00
Component Description: Amount:	Consulting Engineer \$250.00
Component Description: Amount:	Engineering Study for New Channel Assignment \$437.50
Component Description: Amount:	Frequency study \$1,425.00
Component Description: Amount:	Engineering Study for New Channel Assignment \$3,475.00

Component Description: Amount:	Engineering Study for New Channel Assignment \$1,287.50
Component Description:	Prepare site location map; provide NRAO Quiet Zone interference office w/ specs of substitute directional antenna. \$2,125.00
Component Description:	Engineering Study for New Channel Assignment
Amount:	\$250.00
Component Description: Amount:	Engineering Study for New Channel Assignment \$4,687.50
Component Description: Amount:	Engineering Study for New Channel Assignment \$1,125.00
Component Description:	Provide NRAO Quiet Zone interference office with tech specs; discuss with FCC staff the coverage extension into loss area that will be created \$2,775.00

	Component Description: Amount:	Consulting Engineer - J. Davis - Hourly (@ \$250 /hr) \$250.00
	Component Description: Amount:	Provide coverage contour map of WHSV-TV's repack facility and planned translators. \$587.50
	Component Description: Amount:	Consulting Engineer - J. Davis - Hourly \$1,050.00
	Component Description:	Develop final technical parameters for prospective displacement facilities - re: 4 digital replacement translators \$5,662.50
	Amount:	Engineering Study for New Channel Assignment \$2,462.50
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	

Other Expenses

Cost Information

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	\$212,785.00	\$204,840.00		\$128,013.81	
Microwave Equipment	\$120,200.00	\$120,200.00	STL link.	\$101,724.91	N/A
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	N/A	\$2,000.00	N/A
Develop and air announcement of upcoming channel change	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$20,000.00	\$20,000.00	N/A	\$8,276.40	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$15,375.00	\$15,375.00	N/A	\$8,975.00	N/A
BLM or NFS Coordination	\$30,000.00	\$30,000.00	NFS coordination.	N/A	N/A
Non-zoning permits	\$6,325.00	\$6,325.00	N/A	\$6,325.00	N/A
Local Zoning	\$2,000.00	\$2,000.00	N/A	N/A	N/A

FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$712.50	Chesapeake RF Consultants Invoice #4869 and Wiley Rein, LLP, Invoice #1479797	\$712.50	N/A
DTV Medical Facility Notification	\$11,550.00	\$3,227.50	N/A	N/A	N/A
Sub-total	\$212,785.00	\$204,840.00	N/A	\$128,013.81	N/A
Total for all systems	\$1,905,081.71	\$1,496,791.37	N/A	\$1,239,998.10	N/A

Components

Actual Information Description	File Name	
Microwave Equipment		
	Component Description:	Antenna Mounts and Waveguide
	Amount:	\$38,617.88
	Component Description:	Microwave system on-site installation
	Amount:	\$62,914.03
	Component Description:	SW-16pt Netgear GIG SMRT GS716
	Amount:	\$193.00
MVPD Notification of Channel Change		
	Component Description:	Prepare MVPD notification letters
	Amount:	(Repack) \$2,000.00

Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Delivery and Handling Charges	Component Description: Amount:	Equipment Delivery and Handling Charges \$8,276.40
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: Amount:	Disposal Costs \$8,975.00
BLM or NFS Coordination	Information not provided.	
Non-zoning permits	Component Description: Amount:	Permit drawings \$6,325.00
Local Zoning	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Component Description:	Regarding repack Ch-20 buildout at Elliott Knob, preparation and review of engineering portions of FCC application for license to cover. \$187.50
	Component Description:	Filing Fees- license to cover
	Amount:	\$190.00
	Component Description:	WHSV-610-FCC Filing Fee -
		License to Cover

DTV Medical Facility	Information not provided.
Notification	

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$1,905,081.71	\$1,496,791.37	\$1,239,998.10

Reimbursem	entestatus	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.	
		 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. 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).
- 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.	Robert Folliard , III Assistant Secretary 12/02/2019

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 IMPRISIONMENT (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).	
		 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).
- 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.	
an au name	are, under penalty of perjury, that I am thorized representative of the above- d applicant for the Authorization(s) ied above.	Robert Folliard , III Assistant Secretary 12/02/2019

Attachments

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