Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **591** | Service: **DTV** | Call Sign: **WAFF** | Channel: **15 (UHF)**

File Number: **0000024797**

FRN: **0018223693** | Date Submitted: **06/10/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC Doing Business As: GRAY TELEVISION LICENSEE, LLC	Robert Folliard 4370 PEACHTREE ROAD, NE ATLANTA, GA 30319 United States	+1 (256) 564-5649	allfcclms@gray.tv	Limited Liability Company

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	Station will install interim antenna and connect to existing tx line Station will install new top mounted antenna and tx line.

Transmitters

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

Auxiliary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Emergency Backup
	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	Ranger
	Year	2009
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1.1 kW

Auxiliary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	UAXTE-2R37
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	1.2 kW
	Justification for New Transmitter	Existing transmitter cannot be re-tuned EOL letter attached

Auxiliary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes

	Description	Installation of breaker, panel board, and other equipment needed to provide power to transmitter
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 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

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Auxiliary Transmitter Installation	Auxiliary Transmitter Installation

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	Ultimate
	Year	2003
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	2.5 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	ULXTE-60
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	36.1 kW
	Justification for New Transmitter	Existing transmitter cannot be re-tuned

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes

	Description	Installation of breaker, panel board, and other equipment needed to provide power to transmitter
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 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 Transmitter

Other Transmitter Cost Not Listed

Name	Description
Fence to Surround Heat Exchangers	Fence to Surround Heat Exchangers

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?	No
	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	Top 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)	24.0 kW

Manufacturer	
Model	TFU-28G
Year	1989

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?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	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)	24.5 kW
	Manufacturer	

Model	TFU-16ETT /VP-R
Year	2019
Justification for New Antenna	Existing Ch 48 Antenna can not be retuned V-pol premium not reimbursable

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.

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	
	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 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/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)	24.0 kW
	Manufacturer	
	Model	TFU-WB8
	Year	2019

	Justification for New Antenna	Side mount Channel 48 antenna needed for transition period to allow for removal of existing top mounted antenna and installation of new.

Interim Antenna

Other Antenna Costs

Section	Question	Response
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 an 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

Interim 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	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1600 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	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1600 feet per run
	Justification for New Transmission Line	Existing Marman clamp transmission line is no longer supported by manufacturer. Existing line used as interim. Replacing 8" with 4"

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	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?	No
Existing Tower Structure Registration	Do you have a tower registration number?	No
	ASR Number	
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	34° 42' 39.3" N-
	Longitude (NAD83)	086° 32' 07.0" W-
	Overall Structure Height	1525.90 feet
	Support Structure Height	1466.85 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1152.22 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	WAFF, LLC
Date Constructed	06/15/1982

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly 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?	Yes

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?	Yes
	Number of Hours	895
	Explanation	Pattern analysis Antenna Spec Transmitter Spec Building drawings Installation Supervision Accounting Internal Legal 399 Prep and Reimbursement Project Mgmt
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	Yes
	Quantity	1
	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	Yes
	Quantity	1
	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	No
	Address transition timing and coordination issues w/ other stations and wireless providers	No
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	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

Name	Description
Attorney - Other Matters	Legal Services
Filing Fees - STA	Attorney filing fees for WAFF STA

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?	Yes

Other Expenses

Other Expenses Not Listed

Name	Description
Site Security	Site Security required due to repack construction

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 ULXTE-60	**$1,636,155.98**	**$321,714.83**		**$172,702.94**	
Fence to Surround Heat Exchangers	***$1,881.00***	$1,881.00	Athens Fence Proposal dated 11-25-2019	$1,881.00	N/A
Other Electrical Service: Installation of breaker, panel board, and other equipment needed to provide power to transmitter	***$44,125.50***	$44,125.50	Please see attached Jesse Stutts Proposal Dated 07.09.2019 and Jesse Stutts Change Order Dated 09.24.2019. This expense is split between the primary and auxiliary transmitters.	$44,125.50	N/A
Transformer 3 phase /480v - 300 KVA	$36,800.00	$5,231.64	GatesAir Quote 82172	N/A	N/A
Switchgear - industrial 800 amp	$38,200.00	$36,300.00	N/A	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	$1,473,000.00	$192,027.21	GatesAir Quote 82172 for upgraded ULXTE-60	$84,546.96	N/A
UHF - Air Cooled Solid State Transmitter 3.4 kW	***$42,149.48***	$42,149.48	***System Notice: Estimate adjusted and locked because line has been superseded. ***Quote attached Headroom analysis attached Existing transmitter can not be retuned. Manufacturer letter attached	$42,149.48	N/A
Auxiliary Transmitter UAXTE-2R37	**$234,225.50**	**$148,545.86**		**$109,245.85**	
Auxiliary Transmitter Installation	***$350.00***	$350.00	Please see WAFF Auxiliary Transmitter - Install Revision Justification Cover Letter	$350.00	N/A

Other Electrical Service: Installation of breaker, panel board, and other equipment needed to provide power to transmitter	***$44,125.50***	$44,125.50	Please see attached Jesse Stutts Proposal Dated 07.09.2019 and Jesse Stutts Change Order Dated 09.24.2019. This expense is split between the primary and auxiliary transmitters	$44,125.50	N/A
Transformer 3 phase /480v - 150 KVA	$25,550.00	$24,300.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	$38,200.00	$15,000.00	N/A	N/A	N/A
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	$126,000.00	$64,770.36	see Estimated Cost Justification WAFF-150-1st Auxiliary Transmitter - UHF Air-Cooled Solid State, 1-2.5 kW v0	$64,770.35	N/A
Sub-total	$1,870,381.48	$470,260.69	N/A	$281,948.79	N/A
Total for all systems	$3,240,022.73	$1,824,527.23	N/A	$1,081,925.52	N/A

Components

Actual Information Description	File Name

Fence to Surround Heat Exchangers	**Component Description:** **Amount:**	Install 35' - 2' galvanized 9 ga chain-link fence $1,881.00
Other Electrical Service: Installation of breaker, panel board, and other equipment needed to provide power to transmitter	**Component Description:** **Amount:**	Scope of PO- Partial Billing #2 $12,400.00
	Component Description: **Amount:**	Final Billing $12,404.50
	Component Description: **Amount:**	Scope of PO $12,400.00
	Component Description: **Amount:**	Change Order Scope of Work $6,921.00
Transformer 3 phase/480v - 300 KVA	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	**Component Description:** **Amount:**	AC CURRENT SENSOR $248.01
	Component Description: **Amount:**	"ULXTE-60-WB Channel Change per Quote Q-82172" $84,298.95

UHF - Air Cooled Solid State Transmitter 3.4 kW	**Component Description:**	Transmitter, Mask Filter Saystem, RF Accessories, Electrical, Installation & Proof
	Amount:	$25,289.69
	Component Description:	UAXTE-6-E
	Amount:	$16,859.79
Auxiliary Transmitter Installation	**Component Description:**	Adam J. installed square to round
	Amount:	$350.00

Other Electrical Service: Installation of breaker, panel board, and other equipment needed to provide power to transmitter	**Component Description:** WAFF-150-1st Auxiliary Transmitter - Other Electrical Service **Amount:** $12,400.00 **Component Description:** WAFF-150-1st Auxiliary Transmitter - Other Electrical Service **Amount:** $6,921.00 **Component Description:** WAFF-150-1st Auxiliary Transmitter - Other Electrical Service **Amount:** $12,400.00 **Component Description:** WAFF-150-1st Auxiliary Transmitter - Other Electrical Service **Amount:** $12,404.50
Transformer 3 phase/480v - 150 KVA	Information not provided.
Switchgear - industrial 800 amp	Information not provided.

UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	**Component Description:**	ULXTE-2R37 Transmitter
	Amount:	$7,350.87
	Component Description:	Transmitter
	Amount:	$16,719.27
	Component Description:	Transmitter, Mask Filter Saystem, Electrical, Installation & Proof
	Amount:	$7,891.62
	Component Description:	"Transmitter Mask Filter Saystem"
	Amount:	$27,547.51
	Component Description:	UAXTE-2-E
	Amount:	$5,261.08

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
Interim Antenna TFU-WB8	**$60,910.00**	**$60,580.00**		**$51,493.00**	
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$5,440.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 24 kW input, directional,, horizontally polarized	***$54,180.00***	$54,180.00	Quote attached	$46,053.00	N/A
Primary Antenna TFU-16ETT /VP-R	**$296,230.00**	**$167,195.50**		**$16,719.55**	
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$640.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	$289,500.00	$160,795.50	Quote attached E-pol premium not included in cost	$16,079.55	N/A
Sub-total	$357,140.00	$227,775.50	N/A	$68,212.55	N/A

Total for all systems	$3,240,022.73	$1,824,527.23	N/A	$1,081,925.52	N/A

Components

Actual Information Description	File Name	
Sweep test of existing antenna	**Component Description:** **Amount:**	WAFF-280-Interim Antenna - Sweep test $3,200.00
	Component Description: **Amount:**	WAFF-280-Interim Antenna - Sweep test $1,600.00
	Component Description: **Amount:**	Interim Antenna Sweep $640.00
UHF - High Power, Side Mount, basic slot antenna, 24 kW input, directional,, horizontally polarized	**Component Description:** **Amount:**	Antenna $13,545.00
	Component Description: **Amount:**	ANTENNA $27,090.00
	Component Description: **Amount:**	Interim Antenna $5,418.00
Sweep test of existing antenna	**Component Description:** **Amount:**	Primary Antenna Sweep $640.00

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	**Component Description:** **Amount:**	UHF High Power Top Mount (200-1000kW) $16,079.55

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	**$227,200.00**	**$141,880.90**		**$120,598.76**	
Rigid Transmission Line - copper, 4 1 /16"	$227,200.00	$141,880.90	Quote attached (see interim antenna quote) This is main line replacement even though it is shown inside the interim quote	$120,598.76	N/A
Sub-total	$227,200.00	$141,880.90	N/A	$120,598.76	N/A
Total for all systems	$3,240,022.73	$1,824,527.23	N/A	$1,081,925.52	N/A

Components

Actual Information Description	File Name

Rigid Transmission Line - copper, 4 1/16"	**Component Description:**	WAFF-310-Primary Transmission Line - Rigid, Copper, 4 1-16"
	Amount:	$70,940.45
	Component Description:	WAFF-310-Primary Transmission Line - Rigid, Copper, 4 1 /16"
	Amount:	$35,470.22
	Component Description:	Primary Transmission Line
	Amount:	$14,188.09

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	**$464,100.00**	**$663,380.00**		**$524,591.43**	
Tower Helicopter Lift	***$69,300.00***	$69,300.00	Please see WAFF Tower King II proposal C-20-012 and WAFF Tree Pro proposal dated 2-7-2020	$69,300.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	$26,300.00	$10,500.00	Please see the attached Tower King II, Inc. invoice #3179 and FDH Velocitel Invoices 134562 and 127306	$10,500.00	N/A
Tall Tower (greater than 500')	$210,500.00	$433,580.00	see Estimated Cost Justification WAFF-410-Existing Primary Tower - Tower Rigging, Tall Tower v0	$433,580.00	N/A

Minor tower reinforcement /modifications	$158,000.00	$150,000.00	N/A	$11,211.43	N/A
Sub-total	$464,100.00	$663,380.00	N/A	$524,591.43	N/A
Total for all systems	$3,240,022.73	$1,824,527.23	N/A	$1,081,925.52	N/A

Components

Actual Information Description	File Name
Tower Helicopter Lift	**Component Description:** Tree Removal **Amount:** $3,500.00 **Component Description:** WAFF-410-Existing Primary Tower - Tower Helicopter Lift **Amount:** $13,176.34 **Component Description:** WAFF-410-Existing Primary Tower - Tower Helicopter Lift **Amount:** $19,764.51 **Component Description:** WAFF-410-Existing Primary Tower - Tower Helicopter Lift **Amount:** $32,859.15

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	**Component Description:** **Amount:**	Engineering Study $2,500.00
	Component Description: **Amount:**	Tower Service - Mapping of WAFF for Repack $5,500.00
	Component Description: **Amount:**	Engineering Study $2,500.00
Tall Tower (greater than 500')	**Component Description:** **Amount:**	Acceptance of Contract Down Payment $130,235.49
	Component Description: **Amount:**	Tower Service $86,823.66
	Component Description: **Amount:**	Progress payment billing for the WAFF-TV Project in Huntsville AL. $216,520.85

Minor tower reinforcement /modifications	**Component Description:** **Amount:**	engineering - material only $4,679.50
	Component Description: **Amount:**	F1905336 $1,852.43
	Component Description: **Amount:**	engineering - material only $4,679.50

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	**$252,346.95**	**$260,975.84**		**$73,655.69**	
Project management of the transition	$141,410.00	$144,675.00	Widelity Strategic Support Quote	$51,054.88	N/A
Filing Fees - STA	***$200.00***	$200.00	Please see WAFF STA Filing Fees Revision Justification Cover Letter	$200.00	N/A
Attorney - Other Matters	***$1,086.95***	$1,086.95	Covington 60801187	$1,086.92	N/A
Comprehensive coverage verification via field study, if needed	$84,200.00	$80,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	$3,680.00	$3,500.00	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	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	$2,050.00	$1,500.00	N/A	$900.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,500.00	N/A	$150.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$3,000.00	N/A	$2,000.00	N/A
Perform engineering study for new channel assignment and antenna development	$7,360.00	$18,263.89	Per Estimated Cost Justification WAFF-530-RF Eng-Engineering Study for New Channel Assignment v3	$18,263.89	N/A
Sub-total	$252,346.95	$260,975.84	N/A	$73,655.69	N/A
Total for all systems	$3,240,022.73	$1,824,527.23	N/A	$1,081,925.52	N/A

Components

Actual Information Description	File Name
Project management of the transition	**Component Description:** Project Management **Amount:** $3,897.65 **Component Description:** Project Management **Amount:** $3,577.85 **Component Description:** Project Management **Amount:** $2,216.20 **Component Description:** Project Management **Amount:** $77.00 **Component Description:** Project Management **Amount:** $2,357.20 **Component Description:** Project Management **Amount:** $736.63 **Component Description:** System floor plan design, Project Management **Amount:** $1,768.44 **Component Description:** Project Management **Amount:** $2,572.55

Component Description: Project Management
Amount: $1,398.84

Component Description: Project Management
Amount: $3,121.90

Component Description: Project Management
Amount: $2,565.85

Component Description: Project Management
Amount: $3,296.95

Component Description: Project Management
Amount: $3,057.30

Component Description: Project Management
Amount: $4,402.00

Component Description: Project Management
Amount: $8,710.15

Component Description: Off-Duty Officers
Amount: $360.00

Component Description: Off-Duty Officers
Amount: $360.00

Component Description:	Project Management
Amount:	$3,356.20
Component Description:	Off-Duty Officers
Amount:	$360.00
Component Description:	Project Management
Amount:	$43.12
Component Description:	Off-Duty Officers
Amount:	$720.00
Component Description:	Off-Duty Officers
Amount:	$360.00
Component Description:	Off-Duty Officers
Amount:	$180.00
Component Description:	Off-Duty Officers
Amount:	$540.00
Component Description:	Project Management
Amount:	$2,156.70
Component Description:	Off-Duty Officers
Amount:	$720.00
Component Description:	Off-Duty Officers
Amount:	$630.00

	Component Description: Off-Duty Officers **Amount:** $360.00 **Component Description:** Off-Duty Officers **Amount:** $360.00 **Component Description:** Project Management **Amount:** $2,305.25
Filing Fees - STA	**Component Description:** For Professional Services Rendered **Amount:** $200.00
Attorney - Other Matters	**Component Description:** Professional legal services **Amount:** $1,086.92
Comprehensive coverage verification via field study, if needed	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare request for Special Temporary Authorization	**Component Description:** Consulting Engineer **Amount:** $900.00

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	**Component Description:** **Amount:**	Consulting Engineer - J. Davis - Hourly $150.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:**	FCC Form 2100 Construction Permit Application $2,000.00
Perform engineering study for new channel assignment and antenna development	**Component Description:** **Amount:**	WAFF-530-RF Eng - Engineering Study for New Channel Assignment $15,001.39
	Component Description: **Amount:**	Review Dielectric's gain-loss summary sheets for planned antenna/line configuration $775.00
	Component Description: **Amount:**	Consulting Engineer $450.00
	Component Description: **Amount:**	WAFF-530-RF Eng - Engineering Study for New Channel Assignment $762.50

Component Description:	Initial steps toward review of planned antenna/line configuration for repac CH-15
Amount:	$150.00
Component Description:	Engineering study work for new channel assignment and antenna development; Preparation of the engineering portion of FCC Form 2100
Amount:	$1,000.00
Component Description:	Engineering study work for new channel assignment and antenna development.
Amount:	$125.00

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 Co Justificati
Other Expenses	**$68,854.30**	**$60,254.30**		**$12,918.30**	
Site Security	***$17,190.00***	$17,190.00	see Estimated Cost Justification WAFF-610-Site Security v2	$10,800.00	N/A
MVPD Notification of Channel Change	***$2,118.30***	$2,118.30	Estimated Cost Justification WAFF-610-MVPD Notifications v0	$2,118.30	N/A
Develop and air announcement of upcoming channel change	***$2,850.00***	$2,850.00	estimate for on air rescan announcement production. Quote attached	N/A	N/A
Equipment Storage	***$30,500.00***	$30,500.00	Estimate for Dielectric on site antenna storage Dielectric letter attached	N/A	N/A
Equipment Delivery and Handling Charges	***$2,970.00***	$2,970.00	On site forklift rental estimate Representative quote attached	N/A	N/A

Disposal Costs (for equipment and other waste, net of any salvage value)	***$1,676.00***	$1,676.00	Please see attached WAFF - Disposal Costs Justification Cover Letter Regarding WM Corporate Services Invoice #0921412-2090-2	N/A	N/A
DTV Medical Facility Notification	$11,550.00	$2,950.00	Group quote attached	N/A	N/A
Sub-total	$68,854.30	$60,254.30	N/A	$12,918.30	N/A
Total for all systems	$3,240,022.73	$1,824,527.23	N/A	$1,081,925.52	N/A

Components

Actual Information Description	File Name
Site Security	**Component Description:** Off-Duty Officers **Amount:** $360.00 **Component Description:** Joshua Smith **Amount:** $360.00 **Component Description:** Gerald Johnson **Amount:** $360.00 **Component Description:** Joseph Deboer **Amount:** $360.00 **Component Description:** Timothy Richards **Amount:** $360.00

Component Description:	Stephen Gibbs
Amount:	$360.00
Component Description:	Dequan Hyter
Amount:	$360.00
Component Description:	Gerald Johnson
Amount:	$720.00
Component Description:	Timothy Richards
Amount:	$720.00
Component Description:	Jefford Wright
Amount:	$180.00
Component Description:	Eric Watkins
Amount:	$360.00
Component Description:	Timothy Richards
Amount:	$360.00
Component Description:	GERALD JOHNSON
Amount:	$360.00
Component Description:	Donald Long
Amount:	$360.00
Component Description:	Gerald Johnson
Amount:	$720.00
Component Description:	Joseph Deboer
Amount:	$360.00

Component Description: Timothy Richards
Amount: $720.00

Component Description: Joshua Smith
Amount: $360.00

Component Description: Donald Long
Amount: $360.00

Component Description: KEVIN LAMBERT
Amount: $360.00

Component Description: Eric Watkins
Amount: $360.00

Component Description: Dequan Hyter
Amount: $360.00

Component Description: Donald Long
Amount: $180.00

Component Description: Timothy Richards
Amount: $360.00

Component Description: Dequan Hyter
Amount: $360.00

Component Description: Gerald Johnson
Amount: $360.00

Component Description: Donald Long
Amount: $360.00

	Component Description: **Amount:**	Joseph Deboer $360.00
	Component Description: **Amount:**	Joshua Smith $360.00
	Component Description: **Amount:**	Angela Nance-Woods $720.00
MVPD Notification of Channel Change	**Component Description:** **Amount:**	Prepare WAFF MVPD Repack Notices $2,118.30
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	
Equipment Delivery and Handling Charges	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
DTV Medical Facility Notification	Information not provided.	

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$3,240,022.73	$1,824,527.23	$1,081,925.52

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.	**Robert Folliard , III .** *Assistant Secretary* 06/10/2020

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).	
	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.	**Robert Folliard , III .** *Assistant Secretary* 06/10/2020

Attachments