

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

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

ID:

File 0000024797

Number:

FRN: 0018223693 Date 10/27

> Submitted: /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	Robert. Folliard@gray. tv	Limited Liability Company

Reimbursement Contact Name and Information Reimbursement Contact 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

s S	ection	Question	Response
_	Fransmitter 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
	Туре	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

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

	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
	Туре	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
AuxiliaryTransmitter - De-installation	De-install pre-transition transmitter

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
	Туре	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
	Туре	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
Primary Transmitter - De-installation	De-install pre-transition transmitter
Fence to Surround Heat Exchangers	Fence to Surround Heat Exchangers
Primary Transmitter- Road Repairs	Road repairs required due to transportation of repack equipment.

Antennas

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

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
	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)	24.0 kW

Manufacturer	
Model	TFU-28G
Year	1989

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	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	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

Other Antenna Costs

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

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	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/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

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 ^{Seffien}	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary Transmission Line

Existing Transmission Line

n 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	Manufacturer	
Line Manufacturer and Type	Туре	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

New Transmission Line

Primary
Transmissi

on 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
	Туре	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 Other Transmission Line Expenses Not Listed

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

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

Name	Description
Primary Tower - Structural Engineering Tower Load Study	Existing Primary Tower - Structural Engineering Tower Load Study

Outside Professional

Section	Question	Response
Services Costs 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	Prepare and file Form FCC Construction Permit Application	Yes
Services	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	Yes
Number of Days	3

Justification	Required for
	the installation
	of various RF
	parts and to
	transition
	station to
	interim facilities

Outside Professional

Other Professional Services Expenses Not Listed

I Services Costs	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	Yes
	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 Justific
Primary Transmitter ULXTE- 60	\$1,649,050.98	\$334,609.83		\$261,114.87	
Primary Transmitter - De-installation	\$5,000.00	\$5,000.00	Please see WAFF THTV Estimate 1017 Removal and De- Installation of Pre Transition Transmitters	N/A	N/ <i>i</i>
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
Primary Transmitter- Road Repairs	\$7,895.00	\$7,895.00	Please see Cantrell Proposal dated 4-7- 2020	\$7,895.00	N/A

Fence to Surround Heat Exchangers	\$1,881.00	\$1,881.00	Athens Fence Proposal dated 11-25- 2019	\$1,881.00	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	\$165,063.89	N/.
Transformer 3 phase/480v - 300 KVA	\$36,800.00	\$5,231.64	GatesAir Quote 82172	\$0.00	N/
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	\$0.00	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 Fransmitter UAXTE- 2R37	\$239,225.50	\$153,545.86		\$81,698.34	
Auxiliary Transmitter Installation	\$350.00	\$350.00	Please see WAFF Auxiliary Transmitter - Install Revision Justification Cover Letter	\$350.00	N//

Sub-total	\$1,888,276.48	\$488,155.69	N/A	\$342,813.21	N/
Transformer 3 phase/480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	\$0.00	N/.
Switchgear - industrial 800 amp	\$38,200.00	\$15,000.00	N/A	\$0.00	N/
AuxiliaryTransmitter - De-installation	\$5,000.00	\$5,000.00	Please see WAFF THTV Estimate 1017 Removal and De- Installation of Pre Transition Transmitters	N/A	N/
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	\$37,222.84	N/ <i>i</i>
Service: Installation of breaker, panel board, and other equipment needed to provide power to transmitter			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		

Components

Actual Information Description	File Name	
Primary Transmitter - De- installation	Information not provided.	
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
Primary Transmitter- Road Repairs	Component Description: Amount:	Mobilize equipment and manpower. \$7,895.00
Fence to Surround Heat Exchangers	Component Description: Amount:	Install 35' - 2' galvanized 9 ga chain-link fence \$1,881.00

UHF - Liquid Cooled Solid		
State Transmitter 35 - 50 kW	Component Description:	A. Mask Filter and
		RF Accessories
	Amount:	\$80,764.95
	Component Description:	AC CURRENT
		SENSOR
	Amount:	\$248.01
	Component Description:	"ULXTE-60-WB
		Channel Change
		per Quote Q-
		82172"
	Amount:	\$84,298.94
Transformer 3 phase/480v - 300 KVA	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	
UHF - Air Cooled Solid		
State Transmitter 3.4 kW	Component Description:	Transmitter, Mask
	·	Filter Saystem, RF
		Accessories,
		Electrical,
		Installation &
		Proof
	Amount:	\$25,289.69
		110/75 0 5
	Component Description: Amount:	UAXTE-6-E
	Amount:	\$16,859.79
Auxiliary Transmitter		
Installation	Component Description:	Adam J. installed
	,	square to round

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: \$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

Component Description: WAFF-150-1st

Auxiliary
Transmitter Other Electrical

Service

Amount: \$12,400.00

UHF - Air Cooled Solid		
State Transmitter 1 - 2.5 kW	Component Description:	ULXTE-2R37
		Transmitter
	Amount:	\$7,350.87
	Component Description:	Transmitter, Mask Filter Saystem, Electrical,
		Installation &
		Proof
	Amount:	\$7,891.62
	Component Description:	Transmitter
	Amount:	\$16,719.27
	Component Description:	UAXTE-2-E
	Amount:	\$5,261.08
	Component Description:	"Transmitter Mask
		Filter Saystem"
	Amount:	\$27,547.51
AuxiliaryTransmitter - De- installation	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	

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	
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
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,440.00	N/A
Primary Antenna TFU-16ETT /VP-R	\$296,230.00	\$167,195.50		\$166,165.48	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,369.99	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	\$160,795.49	N/A
Sub-total	\$357,140.00	\$227,775.50	N/A	\$217,658.48	N/A

Total for	\$3,284,537.76	\$1,877,527.35	N/A	\$1,465,288.47	N/A
all systems					

Components

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

Sweep test of existing antenna	Component Description:	WAFF - 210 -
		Primary Antenna - Sweep Test
	Amount:	\$3,129.99
	Component Description:	Primary Antenna
		Sweep
	Amount:	\$640.00
	Component Description:	WAFF - 210 -
		Primary Antenna
	Amount:	- Sweep Test \$1,600.00
	Amount	ψ1,000.00
UHF - High Power Top Mount (200-1000 kW), One		
station antenna, elliptically	Component Description:	UHF- HIGH POWER TOP
or circularly polarized		MOUNT
	Amount:	\$40,198.86
	Component Description:	UHF - High
	Component 2000 pilom	Power Top Mount
		(200 - EA 1,000
	Amount:	KW) \$24,119.33
	Amount.	φ 24 ,119.33
	Component Description:	UHF - HIGH
		POWER TOP
	Amount:	MOUNT \$80,397.75
	Amount.	ψυυ, <u></u> σαι.1σ
	Component Description:	UHF High Power
		Top Mount (200-
	Amazinti	1000kW)
	Amount:	\$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	\$3,284,537.76	\$1,877,527.35	N/A	\$1,465,288.47	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: \$35,470.22

Component Description: Primary

Transmission Line

Amount: \$14,188.09

Component Description: WAFF-310-

Primary

Transmission Line
- Rigid, Copper, 4

1-16"

Amount: \$70,940.45

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 C
Primary Tower TOWER	\$479,959.00	\$679,239.00		\$606,997.43	
Tower Helicopter Lift	\$70,300.00	\$70,300.00	Please see Estimated Cost Justification WAFF-410- Existing Primary Tower - Tower Helicopter Lift v0	\$65,800.00	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
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	\$91,617.43	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
Primary Tower - Structural Engineering Tower Load Study	\$14,859.00	\$14,859.00	Please see Stainless proposals P20_2819_001 and P17_281910_001	\$5,500.00	N/A

Sub-total	\$479,959.00	\$679,239.00	N/A	\$606,997.43	N/A
Total for all systems	\$3,284,537.76	\$1,877,527.35	N/A	\$1,465,288.47	N/A

Components

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

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:

Engineering Study

\$2,500.00

Component Description: Tower Service -

Mapping of WAFF

for Repack

Amount: \$5,500.00

Minor tower reinforcement /modifications

Component Description:

Engineering Services Down

PMT 50% \$40,203.00

Amount:

Component Description: engineering -

material only

Amount:

\$4,679.50

Component Description:

Amount:

F1905336 \$1,852.43

Component Description:

engineering material only

Amount:

\$4,679.50

Component Description:

Engineering Services Final

Amount:

\$40,203.00

Tall Tower (greater than 500')		
500)	Component Description:	Acceptance of
		Contract Down
		Payment
	Amount:	\$130,235.49
	Component Description:	Tower Service
	Amount:	\$86,823.66
	Component Description:	Progress payment billing for the
		WAFF-TV Project in Huntsville AL.
	Amount:	\$216,520.85
Primary Tower - Structural		
Engineering Tower Load	Component Description:	Broadcast
Study		Analysis Final
		PMT 50%
	Amount:	\$2,750.00
	Component Description:	Broadcast
		Analysis Down
		PMT 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 Co
Outside Professional Services	\$260,346.99	\$277,460.97		\$164,385.30	
Filing Fees - STA	\$600.00	\$600.00	Please see WAFF STA Filing Fees Revision Justification Cover Letter	\$600.00	Invoices received
Additional Field Engineering Service, 3 Days	\$7,600.04	\$7,600.04	Please see WAFF Field Engineering Services Budget Revision Justification Letter	\$7,600.04	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	\$0.00	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	\$850.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$747.00	N/A

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Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$0.00	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	\$26,748.98	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$26,748.98	Please se submitte invoices
Project management of the transition	\$141,410.00	\$144,675.00	Widelity Strategic Support Quote	\$123,702.36	N/A
Attorney - Other Matters	\$1,086.95	\$1,086.95	Covington 60801187	\$1,086.92	N/A
Sub-total	\$260,346.99	\$277,460.97	N/A	\$164,385.30	N/A
Total for all systems	\$3,284,537.76	\$1,877,527.35	N/A	\$1,465,288.47	N/A

Components

Actual Information Description	File Name	
Filing Fees - STA	Component Description: Amount:	WAFF-550- Attorney - Filing Fees - STA \$400.00
	Component Description: Amount:	For Professional Services Rendered \$200.00
Additional Field Engineering Service, 3 Days	Component Description: Amount:	WAFF-530-RF Eng - Additional Field Engineering Service \$7,600.04
Comprehensive coverage verification via field study, if needed	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Component Description: Amount:	Total Professional Services \$850.00
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	WAFF-550- Attorney - License to Cover Application (Main) \$747.00
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
	Amount.	φοσο.σο
Prepare engineering section		
of FCC Form 2100 (main),	Component Description:	Consulting
License to Cover Application	Component Description.	Engineer - J.
		Davis - Hourly
	Amount:	\$150.00
	Amount.	\$130.00
Prepare engineering section		
of FCC Form 2100 (main),	Component Description:	FCC Form 2100
Construction Permit	Component Description.	Construction
Application		Permit Application
	Amount:	\$2,000.00
	Allount.	ψ2,000.00
Perform engineering study		
for new channel assignment	Component Description:	Engineering study
and antenna development	Component Description.	work for new
		channel
		assignment and
		antenna
		development.
	Amount:	\$125.00
	Common and Docoring ion	
	Component Description.	WAFF-530-RF
	Component Description:	WAFF-530-RF
	Component Description:	Eng - Engineering
	Component Description:	Eng - Engineering Study for New
	Component Description:	Eng - Engineering Study for New Channel
		Eng - Engineering Study for New Channel Assignment
	Amount:	Eng - Engineering Study for New Channel
	Amount:	Eng - Engineering Study for New Channel Assignment \$15,001.39
		Eng - Engineering Study for New Channel Assignment \$15,001.39
	Amount:	Eng - Engineering Study for New Channel Assignment \$15,001.39 Review Dielectric's gain-loss summary
	Amount:	Eng - Engineering Study for New Channel Assignment \$15,001.39 Review Dielectric's gain-loss summary sheets for planned
	Amount:	Eng - Engineering Study for New Channel Assignment \$15,001.39 Review Dielectric's gain-loss summary sheets for planned antenna/line
	Amount:	Eng - Engineering Study for New Channel Assignment \$15,001.39 Review Dielectric's gain-loss summary sheets for planned

Component Description: Consulting

Engineer \$450.00

Amount: \$450.00

Component Description: WAFF-530-RF

Eng - Engineering Study for New Channel Assignment

Amount: \$762.50

Component Description: Initial steps toward

review of planned antenna/line configuration for repac CH-15

Amount: \$150.00

Component Description: Repack

Engineering

Amount: \$4,467.44

Component Description: WAFF-530-RF

Eng - Engineering Study for New Channel Assignment

Amount: \$541.66

Component Description: WAFF-530-RF

Eng - Engineering Study for New Channel Assignment:

Amount: \$3,475.99

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

Project management of the transition

Component Description: Project

Amount:

Amount:

Management \$12,627.85

Component Description: Project

Management

Amount: \$2,156.70

Component Description: Project

Management \$6,192.25

Component Description: Project

Management

Amount: \$6,337.00

Component Description: Project

Management

Amount: \$2,216.20

Component Description: Project

Management

Amount: \$2,572.55

Project Management

Amount:

\$1,398.84

Component Description:

Project

Amount:

Management \$3,121.90

Component Description:

Project

Amount:

Management \$2,565.85

Component Description:

Project

Amount:

Management \$3,296.95

Component Description:

Project

Amount:

Management

\$2,343.15

Component Description:

Project

Management

\$3,057.30

Component Description:

Project

Amount:

Amount:

Management

\$4,402.00

Component Description:

Project

Amount:

Management

\$56.46

Component Description:

Amount:

Off-Duty Officers

\$630.00

Amount:

Off-Duty Officers

\$360.00

Component Description:

Amount:

Off-Duty Officers

\$360.00

Component Description:

Project Management

Amount:

\$736.63

Component Description:

Project

Amount:

Management \$3,897.65

Component Description:

Amount:

Off-Duty Officers

\$360.00

Component Description:

Amount:

Off-Duty Officers

\$540.00

Component Description:

Project

Amount:

Management \$3,697.50

Component Description:

Project

Amount:

Management

\$318.26

Component Description:

Project

Amount:

Management

\$4,555.90

Component Description:

Project

Amount:

Management

\$6,985.90

Amount:

Off-Duty Officers

\$360.00

Component Description:

Project Management

Amount:

\$8,774.55

Component Description:

Project

Amount:

Management \$2,357.20

Component Description:

Project

Amount:

Management \$2,156.70

Component Description:

Project

Amount:

\$43.12

Management

Component Description:

Project

Amount:

Management \$3,577.85

Component Description: Project

Management

Amount: \$8,710.15

Component Description:

System floor plan

design, Project Management

Amount: \$1,768.44

Component Description:

Amount:

Off-Duty Officers

\$720.00

Project

Amount:

Management \$148.86

Component Description:

Project

Amount:

management \$10,291.80

Component Description:

Amount:

Off-Duty Officers

\$720.00

Component Description:

Project

Amount:

Amount:

Management \$272.05

Component Description:

Project

Management

\$77.00

Component Description:

Amount:

Amount:

Amount:

Off-Duty Officers

\$360.00

Component Description:

Project

Management

\$2,305.25

Component Description:

Project

Management

\$3,356.20

Component Description:

Project

Management

Amount: \$3,356.20

Amount:

Off-Duty Officers

\$360.00

Component Description:

Project

Amount:

\$174.53

Management

Component Description:

WAFF-510-Project

Management

Amount:

\$41.07

Component Description:

Amount:

Amount:

Off-Duty Officers

\$180.00

Component Description:

Project

Management

\$9,267.45

Attorney - Other Matters

Component Description:

Professional legal

services

Amount:

\$1,086.92

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
Other Expenses	\$71,615.29	\$63,015.29		\$12,835.29	
Site Security	\$17,190.00	\$17,190.00	see Estimated Cost Justification WAFF-610- Site Security v2	\$360.00	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	\$0.00	N/A
Equipment Storage	\$30,500.00	\$30,500.00	Estimate for Dielectric on site antenna storage Dielectric letter attached	\$0.00	N/A
Equipment Delivery and Handling Charges	\$5,138.81	\$5,138.81	See Estimated Cost Justification WAFF-610- Equipment Delivery and Handling v0	\$5,138.81	N/A

Total for all systems	\$3,284,537.76	\$1,877,527.35	N/A	\$1,465,288.47	N/A
Sub-total	\$71,615.29	\$63,015.29	N/A	\$12,835.29	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,950.00	Group quote attached	\$2,950.00	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$335.00	Please see WAFF Filing Fee - License to Cover Budget Justification Cover Letter	\$335.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$1,933.18	\$1,933.18	Please see Estimated Cost Justification WAFF-610- Disposal v0	\$1,933.18	N/A

Components

Components		
Actual Information Description	File Name	
Site Security	Component Description: Amount:	Joshua Smith \$360.00
	Component Description: Amount:	Joseph Deboer \$360.00
	Component Description: Amount:	Timothy Richards \$360.00
	Component Description: Amount:	Gerald Johnson \$720.00

Amount:

Dequan Hyter \$360.00

Component Description:

Amount:

Joshua Smith

\$360.00

Component Description:

Amount:

Timothy Richards

\$360.00

Component Description:

Amount:

Eric Watkins \$360.00

Component Description:

Amount:

Off-Duty Officers

\$360.00

Component Description:

Amount:

Gerald Johnson

\$360.00

Component Description:

Amount:

Stephen Gibbs

\$360.00

Component Description:

Amount:

Donald Long

\$360.00

Component Description:

Angela Nance-

Woods

\$720.00

Component Description:

Amount:

Amount:

Gerald Johnson

\$720.00

Component Description:

Amount:

Eric Watkins

\$360.00

Amount:

Donald Long \$360.00

Component Description:

Amount:

Dequan Hyter

\$360.00

Component Description:

Amount:

Dequan Hyter

\$360.00

Component Description:

GERALD JOHNSON

Amount:

\$360.00

Component Description:

Amount:

Jefford Wright

\$180.00

Component Description:

Amount:

Timothy Richards

\$720.00

Component Description:

Amount:

Timothy Richards

\$720.00

Component Description:

Amount:

Joseph Deboer

\$360.00

Component Description:

Amount:

Joseph Deboer

\$360.00

Component Description:

Amount:

Donald Long

\$360.00

Component Description:

Amount:

Gerald Johnson

\$360.00

	Component Description: Amount:	Donald Long \$180.00
	Component Description: Amount:	KEVIN LAMBERT \$360.00
	Component Description: Amount:	Joshua Smith \$360.00
	Component Description: Amount:	Timothy Richards \$360.00
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	Component Description: Amount:	FREIGHT AND SHIPPING \$4,952.00
	Component Description: Amount:	Freight and shipping \$186.81

Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: Amount:	Delivery 20 yd open top \$257.18
	Component Description: Amount:	20 Yd flat rolloff \$488.91
	Component Description: Amount:	20 Yd flat rolloff \$1,187.09
FCC Filing Fees - Form 2100 license to cover application	Component Description: Amount:	For Professional Services Rendered \$335.00
DTV Medical Facility Notification	Component Description: Amount:	Medical Notification \$2,950.00

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,284,537.76	\$1,877,527.35	\$1,465,288.47

Reimburseme	entestiatus	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

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 abovenamed applicant for the Authorization(s) specified above. Robert Folliard , III

Assistant Secretary

10/27/2020

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.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- 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 abovenamed applicant for the Authorization(s) specified above. Robert Folliard , III

Assistant Secretary

10/27/2020

Attachments