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: **7893** | Service: **DTV** | Call Sign: **WEAU** | Channel: **17 (UHF)**

File Number: **0000028728**

FRN: **0018223693** | Date Submitted: **11/30/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC Doing Business As: WEAU 13 News	4370 Peachtree Road, NE Atlanta, GA 30319 United States	+1 (404) 504-9828	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
Samuel Hariton *Widelity*	Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widelity.com

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	WEAU will be transitioning from channel 38 to 17. The station plans to replace their existing main transmitter, antenna, and transmission line. The station also plans to install interim facilities to continue broadcasting during the transition.

Transmitters

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

Primary Transmitter

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	PRW90D3
	Year	2011
	Type	Inductive Output Tube
	IOT Power Type	Three
	Power Capacity	90 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-120
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	76 kW
	Justification for New Transmitter	Replacing retunable IOT with solid state transmitter

Primary Transmitter

Other Transmitter Costs

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

	Description	The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
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
Primary Transmitter - De-Install Existing Transmitter	Primary Transmitter - De-Install Existing Transmitter
Concrete Cutting Work	Cutting holes in concrete walls and floors for pipes and electrical.

Pad for Heat Exchangers	Additional Heat Exchanger Concrete Pad plus Ice shield
Transmitter remote control	New transmitter will not work with existing remote control system.

Interim Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	ULXTE-40
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	25.3 kW
	Justification for New Transmitter	Interim transmitter needed to stay broadcasting during the transition

Interim Transmitter

Other Transmitter Costs

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

	Description	The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
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
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	No

Interim Transmitter

Other Transmitter Cost Not Listed

Information not provided.

Antennas

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

Primary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	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	Elliptical
	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)	1000.0 kW

Manufacturer	
Model	ATW28H4-ETO-38H
Year	2011

Primary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	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)	700.0 kW
	Manufacturer	

	Model	TFU-23JTH /VP-R 06
	Year	2018
	Justification for New Antenna	Our existing coaxial antenna is a single channel antenna tuned to channel 38 including Ellipitical polorization and cannot be retuned.

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?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches

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

Name	Description
Top Plate Adapter	Adapted for the top of the tower to match the bolt pattern on the antenna

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	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 Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Slot
	Number of Stations Supported	1
	Number of Panels/Bays	1
	Lower Limit	488.00 MHz
	Upper Limit	494.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	230.0 kW
	Manufacturer	
	Model	TFU-WB24-C160H
	Year	2018

	Justification for New Antenna	Interim antenna needed to continue broadcasting through the transition.

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?	Yes
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

Name	Description
Ice Shield	Ice shield to protect interim antenna

Transmission Line

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

Primary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	ERI
	Type	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	2050 feet per run

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Sweep Test	Sweep test of existing transmission line
Primary Transmission Line- Additional Pieces Required	Primary Transmission Line- Additional Pieces Required

Interim Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Flexible Air
	Diameter	4 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	1680 feet per run
	Justification for New Transmission Line	Interim line needed to continue broadcasting during the transition period.

Interim 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?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1033664
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	44° 39' 50.0" N-
	Longitude (NAD83)	090° 57' 41.0" W-
	Overall Structure Height	1997.68 feet
	Support Structure Height	1895.97 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1096.77 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Gray Television Group, Inc.
Date Constructed	03/23/1981

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

Facility ID	Call Sign	Service
9866	WAXX	FM
185159	WWJC	FM

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major 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	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	Yes
	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	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Information not provided.

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
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
Equipment Rental	Equipment rental required for repack
Security	Security for site while equipment is being stored.
La Crosse Translator Expenses	La Crosse Translator Expenses

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
Interim Transmitter ULXTE-40	**$948,970.97**	**$784,240.23**		**$784,240.23**	
Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	***$1,970.97***	$1,970.97	please see Estimated Cost Justification WEAU-180-Electrical Service New Interim Transmitter V0	$1,970.97	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	$947,000.00	$782,269.26	see Estimated Cost Justification WEAU-180-New Interim Transmitter v0	$782,269.26	N/A
Primary Transmitter ULXTE-120	**$2,438,492.15**	**$2,438,492.15**		**$2,262,247.73**	
Transmitter remote control	***$6,000.00***	$6,000.00	N/A	N/A	N/A

Pad for Heat Exchangers	***$10,700.00***	$10,700.00	See attached ERV Smith Services, Inc. quote dated 6/20/17 for concrete pad work. ERV Smith Services, Inc. invoice 3068346.	$10,700.00	N/A
Concrete Cutting Work	***$734.58***	$734.58	See Estimated Cost Justification WEAU-110-Concrete work New 1st Primary Transmitter v0	$734.58	N/A
Primary Transmitter - De-Install Existing Transmitter	***$31,441.58***	$31,441.58	Please see GatesAir, Inc. quote Q-77386, plus 5.5% tax	$31,441.58	N/A

Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	***$133,958.03***	$133,958.03	please see Estimated Cost Justification WEAU-110-Electrical Service New 1st Primary Transmitter V0.pdf	$133,958.03	N/A
UHF - Liquid Cooled Solid State Transmitter 76 kW	***$2,255,657.96***	$2,255,657.96	Includes tax and shipping.	$2,085,413.54	N/A
Sub-total	$3,387,463.12	$3,222,732.38	N/A	$3,046,487.96	N/A
Total for all systems	$5,308,365.86	$5,213,829.91	N/A	$4,229,734.10	N/A

Components

Actual Information Description	File Name	
Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	**Component Description:** **Amount:**	WEAU-180-Electrical Service New Interim Transmitter $1,970.97

UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	**Component Description:** **Amount:**	U LXTE-40 Transmitter $191,442.89
	Component Description: **Amount:**	ULXTE-40 Transmitter $79,071.64
	Component Description: **Amount:**	ULXTE-40 Transmitter $511,754.73
Transmitter remote control	Information not provided.	
Pad for Heat Exchangers	**Component Description:** **Amount:**	Pour Additional Concrete Slab & Fabricate & Install Shield $10,700.00
Concrete Cutting Work	**Component Description:** **Amount:**	Core Drilling of (4) Holes in Concrete $570.00
	Component Description: **Amount:**	Metal Plates $164.58
Primary Transmitter - De-Install Existing Transmitter	**Component Description:** **Amount:**	FIELD SERVICE, TV $31,441.58

Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	**Component Description:** **Amount:**	Labor and Material $133,958.03
UHF - Liquid Cooled Solid State Transmitter 76 kW	**Component Description:** **Amount:**	ULXTE-120 Transmitter $1,369,932.06
	Component Description: **Amount:**	ULXTE-120 Transmitter $147,293.78
	Component Description: **Amount:**	Transmitter $568,187.70

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-WB24-C160H	**$227,471.57**	**$179,056.07**		**$179,056.07**	
Ice Shield	***$8,091.57***	$8,091.57	See Estimated Cost Justification WEAU-280-Ice Shield - Interim Antenna V0	$8,091.57	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$3,884.00	N/A	$3,884.00	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	$160,680.50	see Estimated Cost Justification WEAU-280-New Interim Antenna v0	$160,680.50	N/A

Primary Antenna TFU-23JTH /VP-R 06	**$328,082.00**	**$266,558.97**		**$225,535.14**	
Top Plate Adapter	***$19,552.00***	$19,552.00	N/A	$19,552.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	$12,300.00	$17,760.00	JEHQ1285-03	$17,760.00	N/A
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$6,400.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	$289,500.00	$222,846.97	N/A	$181,823.14	N/A
Sub-total	$555,553.57	$445,615.04	N/A	$404,591.21	N/A
Total for all systems	$5,308,365.86	$5,213,829.91	N/A	$4,229,734.10	N/A

Components

Actual Information Description	File Name

Ice Shield	**Component Description:**	WEAU-280-Ice Shield - Interim Antenna
	Amount:	$7,458.57
	Component Description:	Installed ice shield over antenna and antenna input feed-line assembly
	Amount:	$633.00
Side mount brackets for high power antennas (if not included in antenna base cost)	**Component Description:**	WEAU Side Mount Brackets New Interim Antenna
	Amount:	$971.00
	Component Description:	Side Mount Brackets Interim Antenna
	Amount:	$1,165.20
	Component Description:	Side Mount Brackets Interim Antenna
	Amount:	$971.00
	Component Description:	WEAU-280-Side mount brackets New Interim Antenna
	Amount:	$776.80

Sweep test of existing antenna	**Component Description:**	WEAU Sweep Test New Interim Antenna
	Amount:	$1,600.00
	Component Description:	Sweep Test Interim Antenna
	Amount:	$1,920.00
	Component Description:	WEAU-280-Sweep test New Interim Antenna
	Amount:	$1,280.00
	Component Description:	Sweep Test Interim Antenna
	Amount:	$1,600.00

UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	**Component Description:**	UHF - BROADBAND SLOT
	Amount:	$35,506.10
	Component Description:	UHF - BROADBAND SLOT, SIDE MOUNT AUX /INTERIM
	Amount:	$39,117.00
	Component Description:	UHF - Broadband slot, side mount aux/interim, Side mount brackets, etc.
	Amount:	$39,117.00
	Component Description:	UHF Broadband SLOT, SIDE Mount AUX/Interim
	Amount:	$46,940.40

Top Plate Adapter	**Component Description:**	WEAU-210-Top plate adapter New Primary Antenna
	Amount:	$3,910.40
	Component Description:	WEAU-210-Top plate adapter New Primary Antenna
	Amount:	$4,888.00
	Component Description:	Top plate adapter new primary antenna
	Amount:	$4,888.00
	Component Description:	Top Plate Adapter new primary antenna
	Amount:	$5,865.60

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	**Component Description:**	WEAU-210-Elbow complex New Primary Antenna
	Amount:	$3,552.00
	Component Description:	Elbow complex new primary antenna
	Amount:	$4,440.00
	Component Description:	WEAU-210-Elbow complex New Primary Antenna
	Amount:	$4,440.00
	Component Description:	Elbow Complex New Primary Antenna
	Amount:	$5,328.00

Sweep test of existing antenna	**Component Description:**	WEAU-210-Sweep test New Primary Antenna
	Amount:	$1,280.00
	Component Description:	Sweep test new primary antenna
	Amount:	$1,600.00
	Component Description:	Sweep Test Interim Antenna
	Amount:	$1,920.00
	Component Description:	WEAU-210-Sweep test New Primary Antenna
	Amount:	$1,600.00

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	**Component Description:**	UHF High Power Top Mount, etc.
	Amount:	$51,665.63
	Component Description:	UHF-HIGH POWER TOP MOUNT (200-1000KW)
	Amount:	$44,048.15
	Component Description:	UHF-HIGH POWER TOP MOUNT (200-1000KW)
	Amount:	$43,054.68
	Component Description:	UHF-High Power Top Mount, New Top Plate, Elbow Complex, Field Engineer
	Amount:	$43,054.68

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
Interim Transmission Line	**$124,320.00**	**$77,375.32**		**$77,375.28**	
Flexible Air Transmission Line - dielectric, 4"	$124,320.00	$77,375.32	see Estimated Cost Justification WEAU-380-Interim Transmission Line v0	$77,375.28	N/A
Primary Transmission Line	**$14,376.50**	**$14,376.50**		**$13,952.75**	
Primary Transmission Line-Additional Pieces Required	***$7,976.50***	$7,976.50	Please see DTVPros change order 236-CO-1	$7,976.50	N/A
Sweep Test	***$6,400.00***	$6,400.00	N/A	$5,976.25	N/A
Sub-total	$138,696.50	$91,751.82	N/A	$91,328.03	N/A
Total for all systems	$5,308,365.86	$5,213,829.91	N/A	$4,229,734.10	N/A

Components

Actual Information Description	File Name

Flexible Air Transmission Line - dielectric, 4"	**Component Description:** **Amount:**	WEAU-380-Interim Transmission Line $23,847.78
	Component Description: **Amount:**	WEAU Interim Transmission Line $16,727.35
	Component Description: **Amount:**	Interim Transmission Line $16,727.35
	Component Description: **Amount:**	Interim Transmission Line $20,072.80
Primary Transmission Line-Additional Pieces Required	**Component Description:** **Amount:**	WEAU-310-Primary Transmission Line- Additional Pieces Required $7,976.50
Sweep Test	**Component Description:** **Amount:**	REPACK INVOICE $2,901.25
	Component Description: **Amount:**	Sweep Test of Transmission Line and Antenna $3,075.00

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	**$819,100.00**	**$1,060,543.00**		**$517,685.07**	
Tower Helicopter Lift	***$175,000.00***	$175,000.00	Please see WEAU GTI America quote Q17-06-021d and helicopter services email	$138,385.75	N/A
Structural engineering tower load study for well documented tower	$12,600.00	$12,000.00	N/A	$7,750.00	N/A
Major tower reinforcement /modifications	$421,000.00	$400,000.00	N/A	N/A	N/A
Tall Tower (greater than 500')	$210,500.00	$473,543.00	Please see quotes Q17-06-021c and Q17-06-021d	$371,549.32	N/A
Sub-total	$819,100.00	$1,060,543.00	N/A	$517,685.07	N/A
Total for all systems	$5,308,365.86	$5,213,829.91	N/A	$4,229,734.10	N/A

Components

Actual Information Description	File Name

Tower Helicopter Lift	**Component Description:** **Amount:** **Component Description:** **Amount:**	WEAU-410-Helicopter service existing tower $131,250.00 Tower Rigging Services - Tall Tower Auxiliary Antenna $7,135.75
Structural engineering tower load study for well documented tower	**Component Description:** **Amount:** **Component Description:** **Amount:**	Perform structural analysis $6,250.00 Site specific wind and ice analysis survey performed by International CLimate Evaluations $1,500.00
Major tower reinforcement /modifications	Information not provided.	

Tall Tower (greater than 500')	**Component Description:**	Phase 3: Completion of 4 coax installation and entire project
	Amount:	$87,817.72
	Component Description:	WEAU-410-Install antennas and lines existing tower
	Amount:	$7,458.57
	Component Description:	"Tower rigging services - Tall Tower (500') Auxiliary Antenna"
	Amount:	$122,657.25
	Component Description:	Labor
	Amount:	$31,999.99
	Component Description:	J-BOLT HDG 3/8-16 X 4 W/NUT, FW & LW- 3/8" x 4"
	Amount:	$4,115.80
	Component Description:	Antenna Installation at 1558 AGL
	Amount:	$39,999.99
	Component Description:	Tower rigging services - Tall Tower (greater 500")
	Amount:	$77,500.00

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cos Justificati
Outside Professional Services	**$178,700.00**	**$170,975.00**		**$129,040.90**	
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
Attorney Fees - Prepare and File request for Special Temporary Authorization	$3,680.00	$3,500.00	N/A	$1,525.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	$2,365.00	$2,250.00	N/A	$124.50	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$5,000.00	N/A	$196.50	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	$1,580.00	$250.00	Please see WEAU RF Eng Auxiliary License to Cover Budget Revision Justification Letter	$250.00	N/A
Prepare and or review reimbursement form	$2,630.00	$2,500.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	$2,630.00	$2,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,500.00	N/A	$300.00	N/A
Project management of the transition	$142,200.00	$135,000.00	N/A	$116,794.90	N/A

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$5,975.00	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	$5,975.00	N/A
Perform engineering study for new channel assignment and antenna development	$7,360.00	$7,000.00	N/A	$3,875.00	N/A
Prepare request for Special Temporary Authorization	$2,050.00	$1,500.00	N/A	N/A	N/A
Sub-total	$178,700.00	$170,975.00	N/A	$129,040.90	N/A
Total for all systems	$5,308,365.86	$5,213,829.91	N/A	$4,229,734.10	N/A

Components

Actual Information Description	File Name
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.

Attorney Fees - Prepare and File request for Special Temporary Authorization	**Component Description:** **Amount:**	WEAU-550-Attorney fees STA $83.00
	Component Description: **Amount:**	Total Professional Services $166.00
	Component Description: **Amount:**	For Professional Services Rendered $740.00
	Component Description: **Amount:**	Prepare CP extension request. $536.00
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	**Component Description:** **Amount:**	Professional Services $124.50
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:**	Complete legal section and file initial repack CP application $196.50

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	**Component Description:** **Amount:**	"Regarding repack Ch-17 auxiliary antenna facility, develop final operating constants, preparation of engineering portions of FCC application for license to cover." $250.00
Prepare and or review reimbursement form	Information not provided.	
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	**Component Description:** **Amount:**	Regarding repack Ch-17 top-mount main antenna $300.00
Project management of the transition	**Component Description:** **Amount:** **Component Description:** **Amount:** **Component Description:** **Amount:**	Project Management $2,712.45 Project Management $3,013.55 Project management $7,002.40

Component Description: Project Management
Amount: $28.20

Component Description: Project Management
Amount: $3,960.55

Component Description: Project Management
Amount: $4,370.15

Component Description: Project Management
Amount: $8,601.60

Component Description: Project management
Amount: $2,895.65

Component Description: Project Management
Amount: $1,990.95

Component Description: Project Management
Amount: $2,036.05

Component Description: Project Management
Amount: $1,798.75

Component Description: Project Management
Amount: $1,821.95

Component Description: Project Management
Amount: $7,934.95

Component Description: Project Management
Amount: $2,362.15

Component Description: Project Management
Amount: $2,123.35

Component Description: Project Management
Amount: $2,920.20

Component Description: Project Management
Amount: $1,863.20

Component Description: Project Management
Amount: $733.30

Component Description: Project Management
Amount: $1,676.50

Component Description: Project Management
Amount: $1,026.45

Component Description: Project Management
Amount: $5,024.75

Component Description: Project management
Amount: $2,442.65

Component Description: Project Management
Amount: $2,208.25

Component Description: Project Management
Amount: $2,316.85

Component Description: Project Management
Amount: $2,443.40

Component Description: Project Management
Amount: $1,936.65

Component Description: Project Management
Amount: $1,928.85

Component Description: Project Management
Amount: $2,356.15

Component Description: Project Management
Amount: $1,726.65

Component Description: Project Management
Amount: $1,781.25

Component Description: Project Management
Amount: $802.25

Component Description: Project Management
Amount: $2,866.90

Component Description: Project Management
Amount: $2,053.25

Component Description: Project Management
Amount: $2,516.70

Component Description: Project Management
Amount: $2,206.90

Component Description: Project Management
Amount: $2,423.55

Component Description: Project management
Amount: $1,328.55

Component Description: Project Management
Amount: $3,093.80

Component Description: Project Management
Amount: $1,623.10

	Component Description:	Project Management
	Amount:	$2,681.30
	Component Description:	Transition Related Project Management Costs
	Amount:	$3,150.00
	Component Description:	Project Management
	Amount:	$1,895.60
	Component Description:	Project Management
	Amount:	$1,613.15
	Component Description:	Project Management
	Amount:	$3,502.05
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	**Component Description:**	Develop final configuration for main antenna
	Amount:	$1,850.00
	Component Description:	Prepare engineering section of FCC Form 2100
	Amount:	$1,575.00
	Component Description:	Preparation of engineering portions
	Amount:	$2,550.00

Perform engineering study for new channel assignment and antenna development	**Component Description:** **Amount:**	Consulting Engineer - J. Davis - Hourly $100.00
	Component Description: **Amount:**	Perform engineering study for new channel assignment $875.00
	Component Description: **Amount:**	Consulting Engineer $1,375.00
	Component Description: **Amount:**	Perform engineering study for new channel assignment $950.00
	Component Description: **Amount:**	Consulting Engineer $575.00
Prepare request for Special Temporary Authorization	Information not provided.	

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	**$228,852.67**	**$222,212.67**		**$40,600.93**	
Equipment Delivery and Handling Charges	***$15,177.62***	$15,177.62	Please see Estimated Cost Justification WEAU-610-Equipment Delivery V0	$15,177.60	N/A
Equipment Rental	***$1,266.00***	$1,266.00	Please see Estimated Cost Justification WEAU-610-Equipment Rental V0	$1,266.00	N/A
Security	***$12,000.00***	$12,000.00	N/A	$4,533.75	N/A
MVPD Notification of Channel Change	***$2,166.50***	$2,166.50	see Estimated Cost Justification WEAU-610-MVPD Notifications v0	$2,166.50	N/A
Develop and air announcement of upcoming channel change	***$10,000.00***	$10,000.00	N/A	$370.00	N/A

Equipment Storage	***$13,542.08***	$13,542.08	Please See Estimated Cost Justification WEAU-610-Equipment Storage v0	$13,542.08	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	***$18,990.00***	$18,990.00	See attached OK Tower Service estimate #413.	$1,900.00	N/A
Non-zoning permits	***$11,000.00***	$11,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	$195.00	$2,420.00	see Estimated Cost Justification WEAU-610-STA FCC Filing Fees v1	$1,310.00	N/A
FCC Filing Fees - Form 2100 license to cover application	$335.00	$335.00	See Estimated Cost Justification WEAU-610-License to Cover FCC Filing Fees v0	$335.00	N/A
DTV Medical Facility Notification	$11,550.00	$2,685.00	N/A	N/A	N/A
La Crosse Translator Expenses	***$132,630.47***	$132,630.47	Please see WEAU La Crosse Translator Expenses Budget Revision Justification Letter	$0.00	N/A

Sub-total	$228,852.67	$222,212.67	N/A	$40,600.93	N/A
Total for all systems	$5,308,365.86	$5,213,829.91	N/A	$4,229,734.10	N/A

Components

Actual Information Description	File Name
Equipment Delivery and Handling Charges	**Component Description:** Forklift Rental **Amount:** $3,003.18 **Component Description:** WEAU-610-Equipment Delivery **Amount:** $4,135.60 **Component Description:** United Rentals **Amount:** $3,694.88 **Component Description:** Labor **Amount:** $1,440.07 **Component Description:** Labor **Amount:** $2,903.87
Equipment Rental	**Component Description:** Labor Per Man Hour **Amount:** $1,266.00
Security	**Component Description:** Physical Security Officer **Amount:** $4,533.75

MVPD Notification of Channel Change	**Component Description:** **Amount:**	For Professional Services Rendered $2,166.50
Develop and air announcement of upcoming channel change	**Component Description:** **Amount:**	Total Professional Services $370.00
Equipment Storage	**Component Description:** **Amount:**	Delivery Rent $1,112.08
	Component Description: **Amount:**	WEAU-610-Equipment Storage $10,530.00
	Component Description: **Amount:**	Rent $1,520.00
	Component Description: **Amount:**	Rent 4/7-5/4 $380.00
Disposal Costs (for equipment and other waste, net of any salvage value)	**Component Description:** **Amount:**	30Y ROLLOFF TRASH REMOVAL 07/30 /20-08/10/20 $700.00
	Component Description: **Amount:**	Clean out transmitter room and move items $1,200.00
Non-zoning permits	Information not provided.	

FCC Filing Fees - Special Temporary Authorization request	**Component Description:** **Amount:**	WEAU-610-STA FCC Filing Fees $200.00
	Component Description: **Amount:**	WEAU-610-STA FCC Filing Fees $1,110.00
FCC Filing Fees - Form 2100 license to cover application	**Component Description:** **Amount:**	Joan Stewart - Filing Fees $335.00
DTV Medical Facility Notification	Information not provided.	
La Crosse Translator Expenses	**Component Description:** **Amount:**	Cost Name: Mikrotik RB401HGS RM T20200616.0003 2019 Gray Television Standard Agreement $398.00
	Component Description: **Amount:**	SERVICE SHOP LABOR HOURS $1,586.77
	Component Description: **Amount:**	MASK 2 5KW 6P UHF ATSC/6 TUNED $12,526.65
	Component Description: **Amount:**	UAXTE-4-G2-R37 HIGH EFFICIENCY $56,821.72

Component Description:	FREIGHT
Amount:	$480.76
Component Description:	UAXTE-1 - UAXTE-8 Install Serv
Amount:	$16,329.96
Component Description:	Antenna removal and installation
Amount:	$2,700.00
Component Description:	SW-24P GIG Netgear SMT POE192W
Amount:	$297.00
Component Description:	UHF - LOW POWER SIDE MOUNT
Amount:	$29,240.78
Component Description:	FREIGHT
Amount:	$3,894.70
Component Description:	MISC-614R3
Amount:	$3,950.00
Component Description:	15/8" LINE UNFLANGED 10'
Amount:	$1,178.35

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$5,308,365.86	$5,213,829.91	$4,229,734.10

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 J. Folliard , III .** *Assistant Secretary* 11/30/2020

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 J. Folliard , III .** *Assistant Secretary* 11/30/2020

Attachments