

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility	7893	Service: DTV	Call	WEAU	Channel: 17 (UHF)
ID:			Sign:		
File	000002	8728			
Number:					
FRN: 00	18223693	Date	11/16		
		Submitted:	/2020		

Applicant Name, Type, and Contact Information

Applicant 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 Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Ontact Name and Information

Contact 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	Question	Response
Information and Transition Plan	Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Νο
	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	Existing Transmitter Information				
Transmitter	Section	Question	Response		
	Existing Transmitter Description	Type of change	Purchase New		
		Use	Primary (Main)		
		Description of Use	N/A		
		Ownership	Owned		
		Owner	N/A		
		Site	N/A		
		Is this transmitter currently shared with another station?	No		
		Is this transmitter currently in operating condition?	Yes		
	Existing Transmitter Manufacturer and Type	Manufacturer			
		Model	PRW90D3		
		Year	2011		
		Туре	Inductive Output Tube		
		IOT Power Type	Three		
		Power Capacity	90 kW		

Existing Transmitter Information

Primary	New Transmitter Costs				
Transmitter	Section	Question	Response		
	New Transmitter	Use	Primary (Main)		
		Change Type	Purchase New		
		Is this a request for upgraded equipment?	Yes		
		Manufacturer			
		Model	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 Other Transmitter Costs

Transmitter	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
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
Improvement	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	
	Concrete Cutting Work	Cutting holes in concrete walls and floors for pipes and electrical.	
	Primary Transmitter - De-Install Existing Transmitter	Primary Transmitter - De-Install Existing Transmitter	

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

Interim	New Transmitter Costs		
Transmitter	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 Other Transmitter Costs

Transmitter	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
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
Improvement	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 Other Transmitter Cost Not Listed

Transmitter Information not provided.

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

Primary	Existing Antenna Information			
Antenna	Section	Question	Response	
	Existing Antenna Description	Type of change	Purchase New	
		Antenna Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is the existing antenna shared with another station or stations?	No	
		Is the existing antenna directional?	No	
		Is antenna in operating condition?	Yes	
		Is antenna located on or in close proximity to an antenna farm?	No	
	Existing Antenna	Class	Full Power	
	Manufacturer and Type	Mounting	Top Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Elliptical	
		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)	1000.0 kW	

Manufacturer	
Model	ATW28H4- ETO-38H
Year	2011

Primary	New Antenna Costs		
Antenna	Section	Question	Response
	New Antenna Description	Use	Primary (Main)
		Description of Use	N/A
		Change Type	Purchase New
		Is this a request for upgraded equipment?	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
		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)	700.0 kW
		Manufacturer	
			1

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.

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Primary Antenna Section Question Response **Combiner for Shared** Do you need a Combiner for a Shared No Antenna Antenna? Туре Number of channels supported N/A Frequencies of channels supported N/A N/A Frequency Do you need a combiner output splitter N/A /switcher for dual feed lines? **Elbow Complex** Do you require the separate purchase of Yes the Elbow Complex? Broadband or Single Channel? Single Channel Feed Line Size 6 1/8 inches

Other Antenna Costs

Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary	Other Antenna Cost Not Listed		
Antenna	Name	Description	
	Top Plate Adapter	Adapted for the top of the tower to match the bolt pattern on the antenna	

Interim	New Antenna Costs		
Antenna	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	Class	Full Power
	Manufacturer and Type	Mounting	Side Mount
		Antenna position in stack	Not in Stack
		Polarization	Horizontal
		Туре	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

Interim antenna
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 Other Antenna Cost Not Listed

Antenna

NameDescriptionIce ShieldIce shield to protect interim antenna

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

Existing Transmission Line Primary Existing Transmission

sior	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
		Туре	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 Other Transmission Line Expenses Not Listed Transmission

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

New Transmission Line Transmission Line

ransmission	n Line Section	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	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 Other Transmission Line Expenses Not Listed

Transmission hometion not provided.

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

marv	Existing	Tower
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Primary	Existing Tower			
Tower	Section	Question	Response	
	Existing Tower Description	Type of change	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 (<u>NAD83</u> (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 Constructe	ed 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 Modification Costs

Tower

Tower

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 Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	Yes

Primary Other Tower Expenses Not Listed

Tower Information not provided.

Outside	Section	Question	Response
Professional	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	900
		Explanation	Strategic Support
	Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
		Prepare engineering section of Form FCC Construction Permit Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes
		Prepare engineering section of Form FCC License to Cover Application	Yes
		For Auxiliary Facility	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	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	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

Other Professional Services Expenses Not Listed Professional Services roopstsided.

Other Expenses	Section	Question	Response
Expenses	AM Pattern Disturbance	Is an Impact Study needed?	No
		Is Remediation needed?	No
	Facility Expenses	Name	N/A
		Other Distributed Transmission System Expenses Not listed	N/A
		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 Not Listed

Other	Other Expenses Not Listed				
Expenses	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			

Transmitters

Cost Information

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

			Estimated		
Description	Predetermined Cost Estimate	Estimated Cost	Cost Justification	Actual Cost	Actual Cost Justificatior
Interim Transmitter ULXTE-40	\$948,970.97	\$784,240.23		\$782,269.26	
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	N/A	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		\$2,128,289.70	
Transmitter remote control	\$6,000.00	\$6,000.00	N/A	N/A	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
Concrete Cutting Work	\$734.58	\$734.58	See Estimated Cost Justification WEAU-110- Concrete work New 1st Primary Transmitter v0	\$734.58	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
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

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	N/A	N/A
Sub-total	\$3,387,463.12	\$3,222,732.38	N/A	\$2,910,558.96	N/A
Total for all systems	\$5,308,188.24	\$5,213,652.29	N/A	\$4,088,403.50	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.	Information not provided.

UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW		
	Component Description:	U LXTE-40
	Amount:	Transmitter \$191,442.89
	Amount.	φ191,442.09
	Component Description:	ULXTE-40
		Transmitter
	Amount:	\$511,754.73
	Component Description:	ULXTE-40
		Transmitter
	Amount:	\$79,071.64
Transmitter remote control	Information not provided.	
Primary Transmitter - De- Install Existing Transmitter		
Ū	Component Description:	FIELD SERVICE, TV
	Amount:	\$31,441.58
Concrete Cutting Work		
	Component Description:	Core Drilling of (4)
		Holes in Concrete
	Amount:	\$570.00
	Component Description:	Metal Plates
	Amount:	\$164.58
Pad for Heat Exchangers		
	Component Description:	Pour Additional
		Concrete Slab &
		Fabricate & Install
	•	Shield
	Amount:	\$10,700.00

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
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.	Information not provided.	

Antennas

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU-WB24- C160H	\$227,471.57	\$179,056.07		\$179,056.07	
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
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

Primary Antenna TFU-23JTH VP-R 06\$328,082.00\$266,558.97\$225,535.14Top Plate Adapter\$19,552.00\$19,552.00\$14Step Plate Adapter\$19,552.00\$17,760.00\$19,552.00Step Plate Complex, single channel, at antenna input, per 6\$12,300.00\$17,760.00JEHQ1285- 03\$17,760.00\$14Sweep test of existing antenna\$6,730.00\$6,400.00\$1/A\$6,400.00\$1/AOHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or circulary\$289,500.00\$222,846.97\$1/A\$181,823.14\$1/ASub-total\$555,553.57\$445,615.04\$1/A\$181,823.14\$1/ATotal for all systems\$5,308,188.24\$5,213,652.29\$1/A\$4,088,403.50\$1/A						
Adapter Single Single	Antenna TFU-23JTH	\$328,082.00	\$266,558.97		\$225,535.14	
complex, single channel, at antenna 		\$19,552.00	\$19,552.00	N/A	\$19,552.00	N/A
of existing antenna 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 \$5,308,188.24 \$5,213,652.29 N/A \$4,088,403.50 N/A	complex, single channel, at antenna input, per 6 1/8. feedline (if	\$12,300.00	\$17,760.00		\$17,760.00	N/A
Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized Sub-total \$555,553.57 \$445,615.04 N/A \$404,591.21 N/A Total for \$5,308,188.24 \$5,213,652.29 N/A \$4,088,403.50 N/A	of existing	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
Total for \$5,308,188.24 \$5,213,652.29 N/A \$4,088,403.50 N/A all	Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly	\$289,500.00	\$222,846.97	N/A	\$181,823.14	N/A
all	Sub-total	\$555,553.57	\$445,615.04	N/A	\$404,591.21	N/A
	all	\$5,308,188.24	\$5,213,652.29	N/A	\$4,088,403.50	N/A

Components

Actual Information	
Description	File Name

UHF - Lower Power Side Mount, One station - 200-		
500 kW, horizontally polarized	Component Description:	UHF - BROADBAND
•		SLOT, SIDE MOUNT AUX
		/INTERIM
	Amount:	\$39,117.00
	Component Description:	UHF -
		BROADBAND
		SLOT
	Amount:	\$35,506.10
	Component Description:	UHF - Broadband
		slot, side mount
		aux/interim, Side
		mount brackets,
		etc.
	Amount:	\$39,117.00
	Component Description:	UHF Broadband
	eenipenen zeeeniphen	SLOT, SIDE Mour
		AUX/Interim
	Amount:	\$46,940.40
Ice Shield		
	Component Description:	WEAU-280-Ice
		Shield - Interim Antenna
	Amount:	\$7,458.57
	Amount.	ψι,+00.01
	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-280-Side mount brackets
	Amount:	New Interim Antenna \$776.80
	Component Description:	WEAU Side Moun Brackets New
	Amount:	Interim Antenna \$971.00
	Component Description:	Side Mount Brackets Interim
	Amount:	Antenna \$1,165.20
	Component Description:	Side Mount Brackets Interim
	Amount:	Antenna \$971.00

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

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

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

Sweep test of existing		
antenna	Component Description:	WEAU-210-Sweep
		test New Primary
		Antenna
	Amount:	\$1,600.00
	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

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

Transmission Line

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
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

Actual Information	
Description	File Name

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

Tower Equipment and Rigging Costs

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$819,100.00	\$1,060,543.00		\$517,685.07	
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
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	N/A	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	\$7,750.00	N/A
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
Sub-total	\$819,100.00	\$1,060,543.00	N/A	\$517,685.07	N/A
Total for all systems	\$5,308,188.24	\$5,213,652.29	N/A	\$4,088,403.50	N/A

Actual Information	
Description	

Tall Tower (greater than	ſ
500')	

Tall Tower (greater than		
500')	Component Description:	Phase 3: Completion of 4 coax installation and entire project
	Amount:	\$87,817.72
	Component Description:	Tower rigging services - Tall Tower (greater 500")
	Amount:	\$77,500.00
	Component Description:	"Tower rigging services - Tall Tower (500') Auxiliary Antenna"
	Amount:	\$122,657.25
	Component Description:	WEAU-410-Install antennas and lines existing tower
	Amount:	\$7,458.57
	Component Description: Amount:	Labor \$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: Amount:	Antenna Installation at 1558 AGL \$39,999.99
Major tower reinforcement	Information not provided.	ф
/modifications		

Structural engineering tower		
load study for well documented tower	Component Description:	Site specific wind
uocumenteu tower		and ice analysis
		survey performed
		by International
		CLimate
		Evaluations
	Amount:	\$1,500.00
	Component Description:	Perform structural
		analysis
	Amount:	\$6,250.00
Tower Helicopter Lift		
	Component Description:	Tower Rigging
		Services - Tall
		Tower Auxiliary
		Antenna
	Amount:	\$7,135.75
	Component Description:	WEAU-410-
		Helicopter service
		existing tower
		existing tower

Outside Professional Services

Cost Information

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

Description Outside Professional Services	Predetermined Cost Estimate \$178,700.00	Estimated Cost \$170,975.00	Estimated Cost Justification	Actual Cost \$129,040.90	Actual Co Justificati
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
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	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 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
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$116,794.90	N/A
Sub-total	\$178,700.00	\$170,975.00	N/A	\$129,040.90	N/A
Total for all systems	\$5,308,188.24	\$5,213,652.29	N/A	\$4,088,403.50	N/A

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.

Component Description: Amount:	Total Professional Services \$166.00
Component Description: Amount:	WEAU-550- Attorney fees STA \$83.00
Component Description: Amount:	For Professional Services Rendered \$740.00
Component Description: Amount:	Prepare CP extension request. \$536.00
Component Description: Amount:	Professional Services \$124.50
Component Description: Amount:	Complete legal section and file initial repack CP application \$196.50
	Amount: Component Description: Amount: Component Description: Amount: Component Description: Amount: Component Description: Amount:

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Component Description:	"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
Prepare request for Special Temporary Authorization	Information not provided.	

for new channel assignment and antenna development	Component Description:	Consulting Engineer - J. Davis - Hourly
	Amount:	\$100.00
	Component Description:	Consulting
	Amount:	Engineer \$1,375.00
	Component Description:	Perform engineering stud for new channel
	Amount:	assignment \$950.00
	Component Description:	Perform engineering stud for new channel
	Amount:	assignment \$875.00
	Component Description:	Consulting Engineer
	Amount:	\$575.00

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description:	Preparation of engineering
	Amount:	portions \$2,550.00
	Component Description:	Prepare engineering section of FCC
	Amount:	Form 2100 \$1,575.00
	Component Description:	Develop final configuration for main antenna
	Amount:	\$1,850.00
Project management of the transition		
	Component Description:	Project Management
	Amount:	\$2,712.45
	Component Description:	Project management
	Amount:	\$7,002.40
	Component Description:	Project
	component beschption.	Management
	Amount:	\$28.20
	Component Description:	Project
	Amount:	Management \$3,960.55
	Component Description:	Project
	Component Description.	Management
	Amount:	\$4,370.15

Component Description: Amount:	Project Management \$7,934.95
Component Description: Amount:	Project Management \$1,990.95
Component Description: Amount:	Project Management \$2,036.05
Component Description: Amount:	Project Management \$1,798.75
Component Description: Amount:	Project Management \$1,821.95
Component Description: Amount:	Project Management \$2,362.15
Component Description: Amount:	Project Management \$8,601.60
Component Description: Amount:	Project Management \$5,024.75
Component Description: Amount:	Project Management \$733.30

Component Description: Amount:	Project Management \$1,928.85
Component Description: Amount:	Project Management \$2,443.40
Component Description: Amount:	Project Management \$2,516.70
Component Description: Amount:	Project Management \$3,093.80
Component Description: Amount:	Project management \$2,895.65
Component Description: Amount:	Project Management \$2,316.85
Component Description: Amount:	Project Management \$2,053.25
Component Description: Amount:	Project Management \$2,920.20
Component Description: Amount:	Project management \$1,328.55

Component Description: Amount:	Project Management \$2,681.30
Component Description: Amount:	Project Management \$2,123.35
Component Description: Amount:	Project Management \$2,206.90
Component Description: Amount:	Project Management \$2,423.55
Component Description: Amount:	Project Management \$1,895.60
Component Description: Amount:	Project Management \$802.25
Component Description: Amount:	Project Management \$1,613.15
Component Description: Amount:	Project Management \$1,676.50
Component Description: Amount:	Project Management \$1,726.65

Component Description: Amount:	Project Management \$1,623.10
Component Description:	Transition Related Project Management
Amount:	Costs \$3,150.00
Component Description: Amount:	Project Management \$1,026.45
Component Description: Amount:	Project Management \$3,013.55
Component Description: Amount:	Project Management \$1,781.25
Component Description: Amount:	Project Management \$2,208.25
Component Description: Amount:	Project Management \$1,936.65
Component Description: Amount:	Project Management \$1,863.20
Component Description: Amount:	Project management \$2,442.65

Component Description: Amount:	Project Management \$3,502.05
Component Description:	Project
	Management
Amount:	\$2,866.90
Component Description:	Project
	Management
	\$2,356.15

Other Expenses

Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$228,675.05	\$222,035.05		\$35,199.33	
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
Equipment Rental	\$1,266.00	\$1,266.00	Please see Estimated Cost Justification WEAU-610- Equipment Rental V0	\$0.00	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
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//
Equipment Delivery and Handling Charges	\$15,000.00	\$15,000.00	N/A	\$11,042.00	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//
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
DTV Medical Facility Notification	\$11,550.00	\$2,685.00	N/A	N/A	N/A
Security	\$12,000.00	\$12,000.00	N/A	\$4,533.75	N/A
Sub-total	\$228,675.05	\$222,035.05	N/A	\$35,199.33	N/A
Total for all	\$5,308,188.24	\$5,213,652.29	N/A	\$4,088,403.50	N/A

Actual Information Description	File Name	
La Crosse Translator Expenses	Component Description: Amount:	Cost Name: Mikrotik RB401HGS RM T20200616.0003 2019 Gray Television Standard Agreement \$398.00
	Component Description: Amount:	Antenna removal and installation \$2,700.00
	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:	UHF - LOW POWER SIDE MOUNT \$29,240.78
	Component Description: Amount:	FREIGHT \$480.76
	Component Description: Amount:	UAXTE-1 - UAXTE-8 Install Serv \$16,329.96

	Component Description: Amount:	15/8" LINE UNFLANGED 10' \$1,178.35
	Component Description: Amount:	MISC-614R3 \$3,950.00
	Component Description: Amount:	FREIGHT \$3,894.70
	Component Description:	SW-24P GIG Netgear SMT POE192W
	Amount: Component Description:	\$297.00 UAXTE-4-G2-R37
	Amount:	HIGH EFFICIENCY \$56,821.72
Equipment Rental	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Component Description: Amount:	Joan Stewart - Filing Fees \$335.00
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:	Total Professional Services \$370.00

Equipment Storage	Component Description:	Rent 4/7-5/4
	Amount:	\$380.00
	Component Description: Amount:	Delivery Rent \$1,112.08
	Component Description: Amount:	Rent \$1,520.00
	Component Description:	WEAU-610-
	Amount:	Equipment Storage \$10,530.00
Equipment Delivery and Handling Charges	Component Description:	Forklift Rental
	Amount:	\$3,003.18
	Component Description: Amount:	Labor \$1,440.07
	Component Description: Amount:	United Rentals \$3,694.88
	Component Description: Amount:	Labor \$2,903.87

Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description:	30Y ROLLOFF TRASH REMOVAL 07/3
	Amount:	/20-08/10/20 \$700.00
	Component Description:	Clean out transmitter room
	Amount:	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
DTV Medical Facility Notification	Information not provided.	
Security		
	Component Description:	Physical Securit Officer
	Amount:	\$4,533.75

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$5,308,188.24	\$5,213,652.29	\$4,088,403.50

Reimbursem	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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
		 The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. The above-named entity acknowledges that all certifications and attached documentation are 	
		considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

- 4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
- 7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
I declare, under penalty of perjury, that I ar an authorized representative of the above- named applicant for the Authorization(s) specified above.	

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		 The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 	
		2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.	
		3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

- 4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster **Relocation Fund are** necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

8.	The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.	
9.	The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
an au name	are, under penalty of perjury, that I am thorized representative of the above- d applicant for the Authorization(s) ied above.	Robert Folliard , III Assistant Secretary 11/16/2020

Attachments

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