



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **7893** | Service: **DTV** | Call **WEAU** | Channel: **17 (UHF)** |  
ID: | Sign:  
File **0000028728**  
Number:  
FRN: **0018223693** | Date **02/27**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>GRAY TELEVISION LICENSEE, LLC</b>	Robert Folliard 4370 Peachtree Road Atlanta, GA 30319 United States	+1 (202) 750-1585	Robert. Folliard@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
<b>Samuel Hariton</b> <i>Widely</i>	Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widely.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
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	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.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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
<b>Pad for Heat Exchangers</b>	Additional Heat Exchanger Concrete Pad plus Ice shield
<b>Transmitter remote control</b>	New transmitter will not work with existing remote control system.

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**Concrete Cutting Work**

Cutting holes in concrete walls and floors for pipes and electrical.

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**Interim  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	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
<b>Electrical Service</b>	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.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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
<b>Inside RF System</b>	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
<b>Existing Antenna Description</b>	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
<b>Existing Antenna Manufacturer and Type</b>	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 Elliptical polarization and cannot be retuned.

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	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
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches

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

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

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

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	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
<b>New Antenna Manufacturer and Type</b>	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.
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## Interim Antenna

### Other Antenna Costs

Section	Question	Response
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

## Interim Antenna

### Other Antenna Cost Not Listed

Information not provided.



**Transmission Line**

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

**Primary  
Transmission Line****Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	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

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
185159	WWJC	FM
9866	WAXX	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?	No

Primary Tower	Other Tower Expenses Not Listed
	Information not provided.

**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	900
	Explanation	Strategic Support
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	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
<b>RF Field Engineering Services</b>	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**

If wireless is not provided.

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	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
<b>Permit and Filing Costs</b>	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
<b>Other Miscellaneous Expenses</b>	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
Security	Security for site while equipment is being stored.

## 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
<b>Interim Transmitter ULXTE-40</b>	<b>\$949,000.00</b>	<b>\$738,978.18</b>		<b>\$511,754.73</b>	
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$736,978.18	Please see the attached Gatesair quote (JW30004530-1)	\$511,754.73	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.	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
<b>Primary Transmitter ULXTE-120</b>	<b>\$2,408,976.96</b>	<b>\$2,408,976.96</b>		<b>\$1,380,632.06</b>	
Concrete Cutting Work	<i>\$690.00</i>	\$690.00	See attached ERV Smith Services, Inc. quote date 6/20/17 for concrete cutting work.	N/A	N/A

Transmitter remote control	<b>\$6,000.00</b>	\$6,000.00	N/A	N/A	N/A
Pad for Heat Exchangers	<b>\$10,700.00</b>	\$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	<b>\$2,255,657.96</b>	\$2,255,657.96	Includes tax and shipping.	\$1,369,932.06	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.	<b>\$135,929.00</b>	\$135,929.00	B&B Electric Quote Dated June 21, 2017 tax included; Revised B & B Electric Quote dated March 20, 2019	N/A	N/A
<b>Sub-total</b>	<b>\$3,357,976.96</b>	<b>\$3,147,955.14</b>	<b>N/A</b>	<b>\$1,892,386.79</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$4,949,648.96</b>	<b>\$4,642,665.25</b>	<b>N/A</b>	<b>\$2,417,103.78</b>	<b>N/A</b>

## Components

**Actual Information**  
**Description**

**File Name**

UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	<p><b>Component Description:</b> ULXTE-40 Transmitter</p> <p><b>Amount:</b> \$511,754.73</p>
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.
Concrete Cutting Work	Information not provided.
Transmitter remote control	Information not provided.
Pad for Heat Exchangers	<p><b>Component Description:</b> Pour Additional Concrete Slab &amp; Fabricate &amp; Install Shield</p> <p><b>Amount:</b> \$10,700.00</p>
UHF - Liquid Cooled Solid State Transmitter 76 kW	<p><b>Component Description:</b> ULXTE-120 Transmitter</p> <p><b>Amount:</b> \$1,369,932.06</p>
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.

## 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
<b>Interim Antenna TFU-WB24-C160H</b>	<b>\$219,380.00</b>	<b>\$166,752.00</b>		<b>\$133,401.60</b>	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$3,884.00	N/A	\$3,107.20	N/A
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$156,468.00	N/A	\$125,174.40	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,120.00	N/A
<b>Primary Antenna TFU-23JTH /VP-R 06</b>	<b>\$328,082.00</b>	<b>\$266,558.97</b>		<b>\$172,744.59</b>	

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$222,846.97	N/A	\$137,774.99	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,120.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$17,760.00	JEHQ1285-03	\$14,208.00	N/A
Top Plate Adapter	<b>\$19,552.00</b>	\$19,552.00	N/A	\$15,641.60	N/A
<b>Sub-total</b>	\$547,462.00	\$433,310.97	N/A	\$306,146.19	N/A
<b>Total for all systems</b>	\$4,949,648.96	\$4,642,665.25	N/A	\$2,417,103.78	N/A

## Components

Actual Information	
Description	File Name

<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<table> <tr> <td data-bbox="710 168 1013 212"><b>Component Description:</b></td><td data-bbox="1157 168 1380 280">WEAU Side Mount Brackets New Interim Antenna</td></tr> <tr> <td data-bbox="710 291 821 336"><b>Amount:</b></td><td data-bbox="1157 291 1252 336">\$971.00</td></tr> <tr> <td data-bbox="710 425 1013 470"><b>Component Description:</b></td><td data-bbox="1157 425 1348 537">Side Mount Brackets Interim Antenna</td></tr> <tr> <td data-bbox="710 548 821 593"><b>Amount:</b></td><td data-bbox="1157 548 1268 593">\$1,165.20</td></tr> <tr> <td data-bbox="710 683 1013 728"><b>Component Description:</b></td><td data-bbox="1157 683 1348 795">Side Mount Brackets Interim Antenna</td></tr> <tr> <td data-bbox="710 806 821 851"><b>Amount:</b></td><td data-bbox="1157 806 1252 851">\$971.00</td></tr> </table>	<b>Component Description:</b>	WEAU Side Mount Brackets New Interim Antenna	<b>Amount:</b>	\$971.00	<b>Component Description:</b>	Side Mount Brackets Interim Antenna	<b>Amount:</b>	\$1,165.20	<b>Component Description:</b>	Side Mount Brackets Interim Antenna	<b>Amount:</b>	\$971.00
<b>Component Description:</b>	WEAU Side Mount Brackets New Interim Antenna												
<b>Amount:</b>	\$971.00												
<b>Component Description:</b>	Side Mount Brackets Interim Antenna												
<b>Amount:</b>	\$1,165.20												
<b>Component Description:</b>	Side Mount Brackets Interim Antenna												
<b>Amount:</b>	\$971.00												
<p>UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized</p>	<table> <tr> <td data-bbox="710 974 1013 1019"><b>Component Description:</b></td><td data-bbox="1157 974 1316 1176">UHF - BROADBAND SLOT, SIDE MOUNT AUX /INTERIM</td></tr> <tr> <td data-bbox="710 1187 821 1232"><b>Amount:</b></td><td data-bbox="1157 1187 1284 1232">\$39,117.00</td></tr> <tr> <td data-bbox="710 1321 1013 1366"><b>Component Description:</b></td><td data-bbox="1157 1321 1380 1433">UHF Broadband SLOT, SIDE Mount AUX/Interim</td></tr> <tr> <td data-bbox="710 1444 821 1489"><b>Amount:</b></td><td data-bbox="1157 1444 1284 1489">\$46,940.40</td></tr> <tr> <td data-bbox="710 1579 1013 1624"><b>Component Description:</b></td><td data-bbox="1157 1579 1364 1780">UHF - Broadband slot, side mount aux/interim, Side mount brackets, etc.</td></tr> <tr> <td data-bbox="710 1792 821 1836"><b>Amount:</b></td><td data-bbox="1157 1792 1284 1836">\$39,117.00</td></tr> </table>	<b>Component Description:</b>	UHF - BROADBAND SLOT, SIDE MOUNT AUX /INTERIM	<b>Amount:</b>	\$39,117.00	<b>Component Description:</b>	UHF Broadband SLOT, SIDE Mount AUX/Interim	<b>Amount:</b>	\$46,940.40	<b>Component Description:</b>	UHF - Broadband slot, side mount aux/interim, Side mount brackets, etc.	<b>Amount:</b>	\$39,117.00
<b>Component Description:</b>	UHF - BROADBAND SLOT, SIDE MOUNT AUX /INTERIM												
<b>Amount:</b>	\$39,117.00												
<b>Component Description:</b>	UHF Broadband SLOT, SIDE Mount AUX/Interim												
<b>Amount:</b>	\$46,940.40												
<b>Component Description:</b>	UHF - Broadband slot, side mount aux/interim, Side mount brackets, etc.												
<b>Amount:</b>	\$39,117.00												

Sweep test of existing antenna	<b>Component Description:</b>	WEAU Sweep Test New Interim Antenna
	<b>Amount:</b>	\$1,600.00
	<b>Component Description:</b>	Sweep Test Interim Antenna
	<b>Amount:</b>	\$1,920.00
	<b>Component Description:</b>	Sweep Test Interim Antenna
	<b>Amount:</b>	\$1,600.00
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<b>Component Description:</b>	UHF High Power Top Mount, etc.
	<b>Amount:</b>	\$51,665.63
	<b>Component Description:</b>	UHF-HIGH POWER TOP MOUNT (200- 1000KW)
	<b>Amount:</b>	\$43,054.68
	<b>Component Description:</b>	UHF-High Power Top Mount, New Top Plate, Elbow Complex, Field Engineer
	<b>Amount:</b>	\$43,054.68



Sweep test of existing antenna	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> WEAU-210-Sweep test New Primary Antenna  \$1,600.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Sweep test new primary antenna  \$1,600.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Sweep Test Interim Antenna  \$1,920.00 </div> </div>
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> WEAU-210-Elbow complex New Primary Antenna  \$4,440.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Elbow complex new primary antenna  \$4,440.00 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Elbow Complex New Primary Antenna  \$5,328.00 </div> </div>

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Top Plate Adapter

**Component Description:** WEAU-210-Top  
plate adapter New  
Primary Antenna  
**Amount:** \$4,888.00

**Component Description:** Top Plate Adapter  
new primary  
antenna  
**Amount:** \$5,865.60

**Component Description:** Top plate adapter  
new primary  
antenna  
**Amount:** \$4,888.00

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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	\$81,859.14		\$53,527.50	
Flexible Air Transmission Line - dielectric, 4"	\$124,320.00	\$81,859.14	N/A	\$53,527.50	N/A
Primary Transmission Line	\$6,400.00	\$6,400.00		\$3,075.00	
Sweep Test	\$6,400.00	\$6,400.00	N/A	\$3,075.00	N/A
Sub-total	\$130,720.00	\$88,259.14	N/A	\$56,602.50	N/A
Total for all systems	\$4,949,648.96	\$4,642,665.25	N/A	\$2,417,103.78	N/A

Components

Actual Information Description	File Name
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<p>Flexible Air Transmission Line - dielectric, 4"</p>	<table> <tr> <td data-bbox="708 98 1114 376"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 98 1428 376"> <p>WEAU Interim Transmission Line</p> <p>\$16,727.35</p> </td></tr> <tr> <td data-bbox="708 376 1114 607"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 376 1428 607"> <p>Interim Transmission Line</p> <p>\$20,072.80</p> </td></tr> <tr> <td data-bbox="708 607 1114 786"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 607 1428 786"> <p>Interim Transmission Line</p> <p>\$16,727.35</p> </td></tr> </table>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>WEAU Interim Transmission Line</p> <p>\$16,727.35</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Interim Transmission Line</p> <p>\$20,072.80</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Interim Transmission Line</p> <p>\$16,727.35</p>
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>WEAU Interim Transmission Line</p> <p>\$16,727.35</p>						
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Interim Transmission Line</p> <p>\$20,072.80</p>						
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Interim Transmission Line</p> <p>\$16,727.35</p>						
<p>Sweep Test</p>	<table> <tr> <td data-bbox="708 786 1114 1075"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1114 786 1428 1075"> <p>Sweep Test of Transmission Line and Antenna</p> <p>\$3,075.00</p> </td></tr> </table>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Sweep Test of Transmission Line and Antenna</p> <p>\$3,075.00</p>				
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Sweep Test of Transmission Line and Antenna</p> <p>\$3,075.00</p>						

## 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
<b>Primary Tower TOWER</b>	<b>\$644,100.00</b>	<b>\$722,000.00</b>		<b>\$85,250.00</b>	
Tall Tower (greater than 500')	\$210,500.00	\$310,000.00	The estimated cost was exceeded for the "Tall Tower (greater than 500')\" work. Please look at the invoice labeled as "Q17-06-021c WEAU Eau Claire WI antenna install Rev 1 _ 8-27-2018"	\$77,500.00	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
<b>Sub-total</b>	<b>\$644,100.00</b>	<b>\$722,000.00</b>	N/A	<b>\$85,250.00</b>	N/A
<b>Total for all systems</b>	<b>\$4,949,648.96</b>	<b>\$4,642,665.25</b>	N/A	<b>\$2,417,103.78</b>	N/A

## Components

Actual Information	
Description	File Name
Tall Tower (greater than 500')	<p><b>Component Description:</b> Tower rigging services - Tall Tower (greater 500")</p> <p><b>Amount:</b> \$77,500.00</p>
Structural engineering tower load study for well documented tower	<p><b>Component Description:</b> Perform structural analysis</p> <p><b>Amount:</b> \$6,250.00</p> <p><b>Component Description:</b> Site specific wind and ice analysis survey performed by International CLimate Evaluations</p> <p><b>Amount:</b> \$1,500.00</p>
Major tower reinforcement /modifications	Information not provided.

## Cost Information

### Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Outside Professional Services</b>	<b>\$177,120.00</b>	<b>\$167,750.00</b>		<b>\$76,718.30</b>	
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$71,746.80	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$196.50	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	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	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,575.00	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



Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,200.00	N/A
<b>Sub-total</b>	\$177,120.00	\$167,750.00	N/A	\$76,718.30	N/A
<b>Total for all systems</b>	\$4,949,648.96	\$4,642,665.25	N/A	\$2,417,103.78	N/A

## Components

Actual Information		
Description	File Name	
Project management of the transition	<b>Component Description:</b>	Project Management
	<b>Amount:</b>	\$28.20
	<b>Component Description:</b>	Project Management
	<b>Amount:</b>	\$802.25
	<b>Component Description:</b>	Project management
	<b>Amount:</b>	\$2,895.65
	<b>Component Description:</b>	Project Management
	<b>Amount:</b>	\$2,123.35
	<b>Component Description:</b>	Project Management
	<b>Amount:</b>	\$1,990.95

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,036.05

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,798.75

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,362.15

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,821.95

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,613.15

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,356.15

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,681.30

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,712.45

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,053.25

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,013.55

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,026.45

<b>Component Description:</b>	Project management
<b>Amount:</b>	\$2,442.65

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,726.65

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,316.85

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,895.60

<b>Component Description:</b>	Project management
<b>Amount:</b>	\$1,328.55

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,863.20

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,866.90

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,423.55

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,928.85

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,623.10

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,093.80

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$733.30

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,206.90

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,516.70

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,936.65

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,676.50

	<p><b>Component Description:</b> Transition Related Project Management Costs</p> <p><b>Amount:</b> \$3,150.00</p>
	<p><b>Component Description:</b> Project Management</p> <p><b>Amount:</b> \$2,920.20</p>
	<p><b>Component Description:</b> Project Management</p> <p><b>Amount:</b> \$1,781.25</p>
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	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	<p><b>Component Description:</b> Complete legal section and file initial repack CP application</p> <p><b>Amount:</b> \$196.50</p>
Prepare request for Special Temporary Authorization	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<div> <b>Component Description:</b> Prepare engineering section of FCC Form 2100</div> <div> <b>Amount:</b> \$1,575.00</div>
Prepare and or review reimbursement form	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Perform engineering study for new channel assignment and antenna development	<div> <b>Component Description:</b> Consulting Engineer</div> <div> <b>Amount:</b> \$1,375.00</div>
	<div> <b>Component Description:</b> Perform engineering study for new channel assignment</div> <div> <b>Amount:</b> \$875.00</div>
	<div> <b>Component Description:</b> Perform engineering study for new channel assignment</div> <div> <b>Amount:</b> \$950.00</div>

**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
<b>Other Expenses</b>	<b>\$92,270.00</b>	<b>\$83,390.00</b>		<b>\$0.00</b>	
Security	<i>\$12,000.00</i>	\$12,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<i>\$1,200.00</i>	\$1,200.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,685.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
Equipment Storage	<i>\$12,000.00</i>	\$12,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$15,000.00</i>	\$15,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$18,990.00</i>	\$18,990.00	See attached OK Tower Service estimate #413.	N/A	N/A

Non-zoning permits	<b>\$11,000.00</b>	\$11,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
<b>Sub-total</b>	\$92,270.00	\$83,390.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$4,949,648.96	\$4,642,665.25	N/A	\$2,417,103.78	N/A

## Components

Information not provided.



<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$4,949,648.96	\$4,642,665.25
			\$2,417,103.78

<b>Reimbursement Status</b>	<b>Question</b>	<b>Response</b>
	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	<p>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.</p>	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

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

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Robert  
Folliard , III**  
.  
*Assistant  
Secretary*

02/27/2020

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS 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 AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

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.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Robert Folliard , III</b> . <i>Assistant Secretary</i></p> <p>02/27/2020</p>

## Attachments