



(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 **01/02**
Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC	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
Samuel Hariton <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
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 leasehold 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
Concrete Cutting Work	Cutting holes in concrete walls and floors for pipes and electrical.
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
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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 leasehold 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 Elliptical polarization 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

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.
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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

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**

Section	Question	Response
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	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes

	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	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**

If wireless is 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
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
Interim Transmitter ULXTE-40	\$949,000.00	\$738,978.18		\$511,754.73	
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
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
Primary Transmitter ULXTE-120	\$2,372,820.96	\$2,372,820.96		\$1,380,632.06	
UHF - Liquid Cooled Solid State Transmitter 76 kW	<i>\$2,255,657.96</i>	\$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.	\$99,773.00	\$99,773.00	B&B Electric Quote Dated June 21, 2017 tax included	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	\$690.00	\$690.00	See attached ERV Smith Services, Inc. quote date 6 /20/17 for concrete cutting work.	N/A	N/A
Transmitter remote control	\$6,000.00	\$6,000.00	N/A	N/A	N/A
Sub-total	\$3,321,820.96	\$3,111,799.14	N/A	\$1,892,386.79	N/A
Total for all systems	\$4,913,492.96	\$4,606,509.25	N/A	\$2,271,120.85	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:	ULXTE-40 Transmitter
	Amount:	\$511,754.73
UHF - Liquid Cooled Solid State Transmitter 76 kW	Component Description:	ULXTE-120 Transmitter
	Amount:	\$1,369,932.06
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.	
Pad for Heat Exchangers	Component Description:	Pour Additional Concrete Slab & Fabricate & Install Shield
	Amount:	\$10,700.00
Concrete Cutting Work	Information not provided.	
Transmitter remote control	Information not provided.	

Cost
Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU-WB24- C160H	\$219,380.00	\$166,752.00		\$91,713.60	
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$156,468.00	N/A	\$86,057.40	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,520.00	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$3,884.00	N/A	\$2,136.20	N/A
Primary Antenna TFU-23JTH /VP-R 06	\$328,082.00	\$266,558.97		\$118,761.91	

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$17,760.00	JEHQ1285-03	\$9,768.00	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	\$94,720.31	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,520.00	N/A
Top Plate Adapter	\$19,552.00	\$19,552.00	N/A	\$10,753.60	N/A
Sub-total	\$547,462.00	\$433,310.97	N/A	\$210,475.51	N/A
Total for all systems	\$4,913,492.96	\$4,606,509.25	N/A	\$2,271,120.85	N/A

Components

Actual Information	
Description	File Name

<p>UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized</p>	<table> <tr> <td data-bbox="726 168 1029 212">Component Description:</td><td data-bbox="1165 168 1380 369">UHF - Broadband slot, side mount aux/interim, Side mount brackets, etc.</td></tr> <tr> <td data-bbox="726 369 837 414">Amount:</td><td data-bbox="1165 369 1300 414">\$39,117.00</td></tr> <tr> <td data-bbox="726 504 1029 548">Component Description:</td><td data-bbox="1165 504 1364 660">UHF Broadband SLOT, SIDE Mount AUX /Interim</td></tr> <tr> <td data-bbox="726 660 837 705">Amount:</td><td data-bbox="1165 660 1300 705">\$46,940.40</td></tr> </table>	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
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								
<p>Sweep test of existing antenna</p>	<table> <tr> <td data-bbox="726 840 1029 884">Component Description:</td><td data-bbox="1165 840 1356 918">Sweep Test Interim Antenna</td></tr> <tr> <td data-bbox="726 918 837 963">Amount:</td><td data-bbox="1165 918 1284 963">\$1,600.00</td></tr> <tr> <td data-bbox="726 1052 1029 1097">Component Description:</td><td data-bbox="1165 1052 1356 1131">Sweep Test Interim Antenna</td></tr> <tr> <td data-bbox="726 1131 837 1176">Amount:</td><td data-bbox="1165 1131 1284 1176">\$1,920.00</td></tr> </table>	Component Description:	Sweep Test Interim Antenna	Amount:	\$1,600.00	Component Description:	Sweep Test Interim Antenna	Amount:	\$1,920.00
Component Description:	Sweep Test Interim Antenna								
Amount:	\$1,600.00								
Component Description:	Sweep Test Interim Antenna								
Amount:	\$1,920.00								
<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<table> <tr> <td data-bbox="726 1310 1029 1355">Component Description:</td><td data-bbox="1165 1310 1364 1422">Side Mount Brackets Interim Antenna</td></tr> <tr> <td data-bbox="726 1422 837 1467">Amount:</td><td data-bbox="1165 1422 1284 1467">\$1,165.20</td></tr> <tr> <td data-bbox="726 1556 1029 1601">Component Description:</td><td data-bbox="1165 1556 1364 1680">Side Mount Brackets Interim Antenna</td></tr> <tr> <td data-bbox="726 1680 837 1724">Amount:</td><td data-bbox="1165 1680 1268 1724">\$971.00</td></tr> </table>	Component Description:	Side Mount Brackets Interim Antenna	Amount:	\$1,165.20	Component Description:	Side Mount Brackets 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								

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description:	Elbow Complex New Primary Antenna
	Amount:	\$5,328.00
	Component Description:	Elbow complex new primary antenna
	Amount:	\$4,440.00
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, New Top Plate, Elbow Complex, Field Engineer
	Amount:	\$43,054.68
Sweep test of existing antenna	Component Description:	Sweep test new primary antenna
	Amount:	\$1,600.00
	Component Description:	Sweep Test Interim Antenna
	Amount:	\$1,920.00

Top Plate Adapter	Component Description:	Top Plate
		Adapter new
		primary antenna
	Amount:	\$5,865.60
	Component Description:	Top plate adapter
		new primary
		antenna
	Amount:	\$4,888.00

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		\$36,800.15	
Flexible Air Transmission Line - dielectric, 4"	\$124,320.00	\$81,859.14	N/A	\$36,800.15	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	\$39,875.15	N/A
Total for all systems	\$4,913,492.96	\$4,606,509.25	N/A	\$2,271,120.85	N/A

Components

Actual Information	
Description	File Name
Flexible Air Transmission Line - dielectric, 4"	Component Description:
	Interim Transmission Line
	Amount:
	\$16,727.35
	Component Description:
	Interim Transmission Line
	Amount:
	\$20,072.80

Sweep Test	<table><tr><td data-bbox="705 174 1023 212">Component Description:</td><td data-bbox="1155 174 1374 286">Sweep Test of Transmission Line and Antenna</td></tr><tr><td data-bbox="705 297 823 331">Amount:</td><td data-bbox="1155 297 1273 331">\$3,075.00</td></tr></table>	Component Description:	Sweep Test of Transmission Line and Antenna	Amount:	\$3,075.00
Component Description:	Sweep Test of Transmission Line and Antenna				
Amount:	\$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	\$644,100.00	\$722,000.00		\$85,250.00	
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
Sub-total	\$644,100.00	\$722,000.00	N/A	\$85,250.00	N/A
Total for all systems	\$4,913,492.96	\$4,606,509.25	N/A	\$2,271,120.85	N/A

Components

Actual Information	
Description	File Name
Tall Tower (greater than 500')	<div> <div>Component Description:</div> <div>Tower rigging services - Tall Tower (greater 500")</div> </div> <div> <div>Amount:</div> <div>\$77,500.00</div> </div>
Structural engineering tower load study for well documented tower	<div> <div>Component Description:</div> <div>Site specific wind and ice analysis survey performed by International CLimate Evaluations</div> </div> <div> <div>Amount:</div> <div>\$1,500.00</div> </div> <div> <div>Component Description:</div> <div>Perform structural analysis</div> </div> <div> <div>Amount:</div> <div>\$6,250.00</div> </div>
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
Outside Professional Services	\$177,120.00	\$167,750.00		\$43,133.40	
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 and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$39,536.90	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	\$1,825.00	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
Sub-total	\$177,120.00	\$167,750.00	N/A	\$43,133.40	N/A
Total for all systems	\$4,913,492.96	\$4,606,509.25	N/A	\$2,271,120.85	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	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>Component Description: Complete legal section and file initial repack CP application</p> <p>Amount: \$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 and or review reimbursement form	Information not provided.	
Project management of the transition	Component Description: Amount:	Project Management \$1,895.60
	Component Description: Amount:	Project Management \$733.30
	Component Description: Amount:	Project Management \$802.25
	Component Description: Amount:	Project management \$2,895.65
	Component Description: Amount:	Project Management \$2,920.20
	Component Description: Amount:	Project Management \$2,316.85
	Component Description: Amount:	Project Management \$1,928.85
	Component Description: Amount:	Project Management \$1,863.20

Component Description:	Project Management
Amount:	\$1,726.65

Component Description:	Project management
Amount:	\$2,442.65

Component Description:	Transition Related Project Management Costs
Amount:	\$3,150.00

Component Description:	Project Management
Amount:	\$2,356.15

Component Description:	Project Management
Amount:	\$2,681.30

Component Description:	Project Management
Amount:	\$28.20

Component Description:	Project Management
Amount:	\$2,423.55

Component Description:	Project Management
Amount:	\$1,623.10

Component Description:	Project Management
Amount:	\$1,026.45

	Component Description: Amount:	Project Management \$1,676.50
	Component Description: Amount:	Project Management \$1,936.65
	Component Description: Amount:	Project management \$1,328.55
	Component Description: Amount:	Project Management \$1,781.25
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	Perform engineering study for new channel assignment \$950.00
	Component Description: Amount:	Perform engineering study for new channel assignment \$875.00
	Component Description: Amount:	Perform engineering study for new channel assignment \$875.00
	Component Description: Amount:	Perform engineering study for new channel assignment \$875.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Prepare engineering section of FCC Form 2100 \$1,575.00

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$92,270.00	\$83,390.00		\$0.00	
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
Equipment Storage	<i>\$12,000.00</i>	\$12,000.00	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
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
Non-zoning permits	<i>\$11,000.00</i>	\$11,000.00	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
Equipment Delivery and Handling Charges	<i>\$15,000.00</i>	\$15,000.00	N/A	N/A	N/A

Develop and air announcement of upcoming channel change	\$10,000.00	\$10,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,685.00	N/A	N/A	N/A
Sub-total	\$92,270.00	\$83,390.00	N/A	\$0.00	N/A
Total for all systems	\$4,913,492.96	\$4,606,509.25	N/A	\$2,271,120.85	N/A

Components

Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$4,913,492.96	\$4,606,509.25	\$2,271,120.85

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	<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"> 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.

<p>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.</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>Robert Folliard <i>Assistant Secretary</i></p> <p>01/02/2019</p>

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 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).	
		<ol style="list-style-type: none"> 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.

<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>Robert Folliard <i>Assistant Secretary</i></p> <p>01/02/2019</p>

Attachments