



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **4685** | Service: **DTV** | Call **WTAP-TV** | Channel: **35 (UHF)** |  
ID: | Sign:  
File **0000028742**  
Number:  
FRN: **0018223693** | Date **05/13**  
Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>GRAY TELEVISION LICENSEE, LLC</b>	Robert Folliard PO Box 30319 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.		Yes
Briefly describe transition plan		The facility will be replacing the existing main transmitter, antenna, and transmission line and building an interim tower for the new interim transmitter, antenna, and transmission line.

**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	CD3100P1
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	30 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-50
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31.7 kW
	Justification for New Transmitter	Transmitter cannot be retuned.

**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>Generator Relocation</b>	Relocation of existing generator system to facilitate reconfiguration of transmitter building.
<b>Remote Control System</b>	Remote control system for new transmitter.

<b>Transmitter building work</b>	Necessary building work for new mask filter.
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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-60
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31.7 kW
	Justification for New Transmitter	Interim transmitter needed to continue broadcasting through transition period.

**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.
<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**

Name	Description
Remote Control System	Remote control system for interim transmitter



**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	Side 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) .....	315.0 kW

Manufacturer	
Model	ATW20H3- ESO-49 TRASAR
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	Side 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) .....	242.0 kW
	Manufacturer	

Model	TFU-18JSC /VP-R-04
Year	2020
Justification for New Antenna	Existing antenna 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?	Yes
	Type	New
	Number of channels supported	4
	Frequencies of channels supported	Upper and lower frequency
	Frequency	506.0 MHz - 602.0 MHz
	Do you need a combiner output splitter /switcher for dual feed lines?	No
<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 inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power 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
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**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**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	Elliptical
	Type	Broadband Panel
	Number of Stations Supported	1
	Number of Panels/Bays	16
	Lower Limit	596.00 MHz
	Upper Limit	686.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	330.0 kW
	Manufacturer	
	Model	SBB- 16C170
	Year	2017

	Justification for New Antenna	So that the station may operate on either channel during 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?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	4 1/16 inches
<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
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	528 feet per run

**Primary** **New Transmission Line**  
**Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	620 feet per run
	Justification for New Transmission Line	Segment lengths do not match up with the new channel.

**Primary** **Other Transmission Line Expenses Not Listed**  
**Transmission Line**

Information not provided.

**Interim**      **New Transmission Line**  
**Transmission Line**      **Section**

	Question	Response
<b>New Transmission Line Costs</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	4 1/16 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	300 feet per run
	Justification for New Transmission Line	Interim transmission line needed so that the station may continue broadcasting during the transition period.

**Interim**      **Other Transmission Line Expenses Not Listed**  
**Transmission Line**      **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)	No
	Others Types of Users	Yes
	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	1239800
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	39° 20' 59.8" N-
	Longitude (NAD83)	081° 33' 55.4" W-
	Overall Structure Height	462.92 feet
	Support Structure Height	459.97 feet
	Ground Elevation Above Mean Sea Level (AMSL)	970.13 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Gray Television Group, Inc.
Date Constructed	11/21/2003

### Other Types of Users

Users
Wood EMG
Wood Co Sherrif
Warren Vol Fire
WOVA-LD 125125
WIYE-LD 130392
WA CO Sheriff
T-Mobile
Ohio Marc
Coast Guard

### 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:	Serious 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**

Name	Description
Move Equipment	Remove and install existing main and aux equipment
Anode Grounding System	Anode grounding system based upon corrosion testing
Replace Main Antenna	Remove existing main antenna and install new main antenna.
Level II corrosion	Level II corrosion testing

**Interim  
Tower****Tower Construction Costs**

Section	Question	Response
<b>Construct New Tower</b>	Use	Interim
	Description of Use	N/A
	Height	240.00 feet
	Justification for New Tower	Existing tower cannot take the weight of any more equipment.

**Interim  
Tower****Tower Rigging Costs**

Section	Question	Response
<b>Tower Rigging Costs</b>	Complex Tower	N/A
<b>Helicopter Services Required</b>	Are helicopter services required?	No

**Interim  
Tower****Other Tower Expenses Not Listed**

Name	Description
<b>Interim Antenna Installation</b>	Installation of interim antenna and associated transmission line
<b>Ice Bridge</b>	Additional ice bridge for heat exchangers. 15'x20'



**Outside  
Professional**

Section	Question	Response
<b>Services Costs Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	900
	Explanation	Strategic Support and antenna RF consultant for selection of feed line antennas.
<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	2
	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	2
	NEPA Section 106 environmental review	Yes
	Environmental Assessment	Yes
	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 Other Professional Services Expenses Not Listed**  
**Professional Services Costs** Services 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	Yes
	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?	No
	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
Fencing	Erect fence extension around relocated generator

## 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-60	\$2,699,294.56	\$1,950,273.59		\$723,979.03	
Remote Control System	<i>\$9,006.86</i>	\$9,006.86	N/A	N/A	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
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	<i>\$1,215,287.70</i>	\$1,215,287.70	GatesAir Quote Q-80474	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$723,979.03	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$723,979.03	N/A
<b>Primary Transmitter ULXTE-50</b>	<b>\$1,197,181.52</b>	<b>\$1,197,181.52</b>		<b>\$615,164.63</b>	
Generator Relocation	<b>\$14,700.00</b>	\$14,700.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	<b>\$870,034.66</b>	\$870,034.66	GA-0002297r2	\$606,056.59	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>\$287,500.00</b>	\$287,500.00	N/A	\$9,108.04	N/A
Remote Control System	<b>\$9,046.86</b>	\$9,046.86	N/A	N/A	N/A
Transmitter building work	<b>\$15,900.00</b>	\$15,900.00	N/A	N/A	N/A
<b>Sub-total</b>	<b>\$3,896,476.08</b>	<b>\$3,147,455.11</b>	<b>N/A</b>	<b>\$1,339,143.66</b>	<b>N/A</b>

<b>Total for all systems</b>	\$6,951,991.33	\$5,788,936.72	N/A	\$1,757,576.44	N/A
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## Components

<b>Actual Information</b>	
<b>Description</b>	<b>File Name</b>
Remote Control System	Information not provided.
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 31.7 kW	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<b>Component Description:</b> ULXTE-60 Transmitter <b>Amount:</b> \$723,979.03
Generator Relocation	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	<b>Component Description:</b> ULXTE-50 Transmitter <b>Amount:</b> \$606,056.59
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>Component Description:</b> Provide 277/490V SVC to Customer <b>Amount:</b> \$9,108.04
Remote Control System	Information not provided.
Transmitter building work	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 SBB- 16C170</b>	<b>\$267,830.00</b>	<b>\$152,730.40</b>		<b>\$56,335.84</b>	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	N/A	N/A
Elbow complex, broadband, at antenna input, per 4 1/16. feedline (if needed)	\$10,950.00	\$10,588.00	Includes state and local taxes	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,520.00	N/A



UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$113,742.40	See attached Quote	\$52,815.84	N/A
<b>Primary Antenna TFU-18JSC /VP-R-04</b>	<b>\$353,380.00</b>	<b>\$291,257.09</b>		<b>\$105,428.40</b>	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$17,520.00	N/A	\$9,636.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$12,768.00	JEHQ1288- 03	\$7,022.40	N/A

UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$187,520.00	See attached Quote	\$85,250.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,520.00	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$67,049.09	N/A	N/A	N/A
<b>Sub-total</b>	\$621,210.00	\$443,987.49	N/A	\$161,764.24	N/A
<b>Total for all systems</b>	\$6,951,991.33	\$5,788,936.72	N/A	\$1,757,576.44	N/A

## Components

Actual Information	
Description	File Name
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, broadband, at antenna input, per 4 1/16. feedline (if needed)	Information not provided.

Sweep test of existing antenna	<b>Component Description:</b> Repack Sweep <b>Amount:</b> \$1,920.00
	<b>Component Description:</b> Sweep <b>Amount:</b> \$1,600.00
UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	<b>Component Description:</b> UHF - Broadband Panel, Side Mount Aux /Interim, Sweep - Repack, incl. Field Engineer <b>Amount:</b> \$28,808.64
	<b>Component Description:</b> UHF - Broadband panel, side mount Aux/Interim SBB-16C170 16 Bay Broadband UHF Side Mount Antenna <b>Amount:</b> \$24,007.20
Side mount brackets for high power antennas (if not included in antenna base cost)	<b>Component Description:</b> WTAP-210-Side mount brackets New Primary Antenna <b>Amount:</b> \$4,380.00
	<b>Component Description:</b> Side mount brackets New Primary Antenna <b>Amount:</b> \$5,256.00

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	<b>Component Description:</b>		WTAP-210-Elbow complex New
	<b>Amount:</b>		Primary Antenna \$3,192.00
	<b>Component Description:</b>		WTAP-210-Elbow complex New
	<b>Amount:</b>		Primary Antenna \$3,830.40
UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	<b>Component Description:</b>		UHF - High Power Side Mount TV Ant
	<b>Amount:</b>		TFU 18JSC/VP-R-04 WTAP \$38,750.00
	<b>Component Description:</b>		New Primary Antenna
	<b>Amount:</b>		\$46,500.00
Sweep test of existing antenna	<b>Component Description:</b>		Sweep test New
	<b>Amount:</b>		Primary Antenna \$1,920.00
	<b>Component Description:</b>		WTAP-210- Sweep test New
	<b>Amount:</b>		Primary Antenna \$1,600.00
New combiner, cost per channel (without antenna)	Information not provided.		

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	\$48,900.00	\$47,335.55		\$0.00	
Rigid Transmission Line - copper, 4 1 /16" broadband	\$48,900.00	\$47,335.55	JEHQ1307	N/A	N/A
Primary Transmission Line	\$125,240.00	\$100,536.15		\$99,789.41	
Rigid Transmission Line - copper, 6 1/8"	\$125,240.00	\$100,536.15	JEHQ1288- 03	\$99,789.41	N/A
Sub-total	\$174,140.00	\$147,871.70	N/A	\$99,789.41	N/A
Total for all systems	\$6,951,991.33	\$5,788,936.72	N/A	\$1,757,576.44	N/A

Components

Actual Information	
Description	File Name
Rigid Transmission Line - copper, 4 1/16" broadband	Information not provided.

Rigid Transmission Line -  
copper, 6 1/8"

**Component Description:** 0018596501 6-50  
TO 4-50 Reducer  
**Amount:** \$18,105.30

**Component Description:** WTAP-310-New  
Primary  
Transmission Line  
**Amount:** \$23,412.99

**Component Description:** Rigid  
Transmission Line  
- Copper, Elbow,  
Dehydrator, etc.  
**Amount:** \$30,175.50

**Component Description:** New Primary  
Transmission Line  
**Amount:** \$28,095.62

## 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>\$1,435,228.00</b>	<b>\$1,245,572.41</b>		<b>\$68,823.75</b>	
Structural engineering tower load study for well documented tower	\$12,600.00	\$19,815.00	Gates Air Quote Q-76839 Includes state and local taxes; see invoice Hodge Structural Engineers 17G000508.1	\$19,815.00	N/A
Replace Main Antenna	<i>\$134,813.00</i>	\$134,813.00	N/A	N/A	N/A
Move Equipment	<i>\$130,215.00</i>	\$130,215.00	GTIA Quote Q17-06-030b1 dated 12/17/18 (uploaded into LMS)	\$32,553.75	N/A
Anode Grounding System	<i>\$15,000.00</i>	\$15,000.00	See vendor invoice	\$10,055.00	N/A
Short Tower (less than 500')	\$84,200.00	\$134,954.41	E-17440-5 Includes steel member replacement at top of tower	N/A	N/A

Serious tower reinforcement /modifications	\$1,052,000.00	\$804,375.00	Includes state and local taxes	N/A	N/A
Level II corrosion	<b>\$6,400.00</b>	\$6,400.00	N/A	\$6,400.00	N/A
<b>Interim Tower</b>	<b>\$536,776.25</b>	<b>\$532,576.25</b>		<b>\$7,332.00</b>	
New tower	<b>\$351,576.25</b>	\$351,576.25	Includes the foundation, as well as state and local taxes and shipping.	\$7,332.00	N/A
Ice Bridge	<b>\$21,000.00</b>	\$21,000.00	N/A	N/A	N/A
Interim Antenna Installation	<b>\$80,000.00</b>	\$80,000.00	N/A	N/A	N/A
Short Tower (less than 500')	\$84,200.00	\$80,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$1,972,004.25	\$1,778,148.66	N/A	\$76,155.75	N/A
<b>Total for all systems</b>	\$6,951,991.33	\$5,788,936.72	N/A	\$1,757,576.44	N/A

## Components

Actual Information	
Description	File Name



Structural engineering tower load study for well documented tower	<b>Component Description:</b> Structural Engineering Services <b>Amount:</b> \$6,500.00
	<b>Component Description:</b> Engineering Evaluation <b>Amount:</b> \$2,000.00
	<b>Component Description:</b> Engineering evaluation of the 460' guyed tower. <b>Amount:</b> \$2,000.00
	<b>Component Description:</b> Site Survey <b>Amount:</b> \$8,115.00
	<b>Component Description:</b> Re-analysis Structural engineering of 460 tower <b>Amount:</b> \$1,200.00
Replace Main Antenna	Information not provided.
Move Equipment	<b>Component Description:</b> Tower Equipment and Rigging <b>Amount:</b> \$32,553.75



New tower	<b>Component Description:</b>		For professional services rendered through October 31, 2018
	<b>Amount:</b>		\$852.00
	<b>Component Description:</b>		Geotechnical services for New Interim tower proposed site
	<b>Amount:</b>		\$5,865.00
	<b>Component Description:</b>		Total professional services
	<b>Amount:</b>		\$615.00
Ice Bridge	Information not provided.		
Interim Antenna Installation	Information not provided.		
Short Tower (less than 500')	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>\$199,680.00</b>	<b>\$192,244.76</b>		<b>\$79,585.51</b>	
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	\$1,337.50	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$12,041.13	Environmentex Consulting Proposal	N/A	N/A
NEPA Section 106 environmental review, if needed	\$6,310.00	\$7,391.13	Waterman Douglass & Associates invoice 20180051 A WTAP	\$7,391.11	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,000.00	N/A	\$125.00	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	\$4,100.00	\$3,000.00	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	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,062.50	Hodge Structural Engineers invoice 17G000507.1	\$7,062.50	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 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	\$63,472.90	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$199,680.00	\$192,244.76	N/A	\$79,585.51	N/A
<b>Total for all systems</b>	\$6,951,991.33	\$5,788,936.72	N/A	\$1,757,576.44	N/A

## Components

Actual Information	
Description	File Name

<p>FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase</p>	<table> <tr> <td data-bbox="710 174 1018 208"><b>Component Description:</b></td><td data-bbox="1150 174 1362 483">Regarding interim operation on repack Ch-35, determine site location and elevation data for new (interim antenna) tower.</td></tr> <tr> <td data-bbox="710 499 820 533"><b>Amount:</b></td><td data-bbox="1150 499 1249 533">\$687.50</td></tr> <tr> <td data-bbox="710 633 1018 667"><b>Component Description:</b></td><td data-bbox="1150 633 1362 1061">Regarding interim operation on repack Ch-35, various discussions regarding removal of tower lighting requirement, prepare and submit FAA form 74460-1</td></tr> <tr> <td data-bbox="710 1077 820 1111"><b>Amount:</b></td><td data-bbox="1150 1077 1249 1111">\$650.00</td></tr> </table>	<b>Component Description:</b>	Regarding interim operation on repack Ch-35, determine site location and elevation data for new (interim antenna) tower.	<b>Amount:</b>	\$687.50	<b>Component Description:</b>	Regarding interim operation on repack Ch-35, various discussions regarding removal of tower lighting requirement, prepare and submit FAA form 74460-1	<b>Amount:</b>	\$650.00
<b>Component Description:</b>	Regarding interim operation on repack Ch-35, determine site location and elevation data for new (interim antenna) tower.								
<b>Amount:</b>	\$687.50								
<b>Component Description:</b>	Regarding interim operation on repack Ch-35, various discussions regarding removal of tower lighting requirement, prepare and submit FAA form 74460-1								
<b>Amount:</b>	\$650.00								
<p>Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet</p>	<p>Information not provided.</p>								
<p>NEPA Section 106 environmental review, if needed</p>	<table> <tr> <td data-bbox="710 1480 1018 1514"><b>Component Description:</b></td><td data-bbox="1150 1480 1353 1592">20180051 WTAP Tower NEPA Study</td></tr> <tr> <td data-bbox="710 1608 820 1641"><b>Amount:</b></td><td data-bbox="1150 1608 1267 1641">\$7,391.11</td></tr> </table>	<b>Component Description:</b>	20180051 WTAP Tower NEPA Study	<b>Amount:</b>	\$7,391.11				
<b>Component Description:</b>	20180051 WTAP Tower NEPA Study								
<b>Amount:</b>	\$7,391.11								
<p>Attorney Fees - Prepare and File request for Special Temporary Authorization</p>	<table> <tr> <td data-bbox="710 1771 1018 1805"><b>Component Description:</b></td><td data-bbox="1150 1771 1362 2002">Review proposed main antenna and broadband interim antenna specification from 2 manufacturers.</td></tr> <tr> <td data-bbox="710 2018 820 2051"><b>Amount:</b></td><td data-bbox="1150 2018 1249 2051">\$125.00</td></tr> </table>	<b>Component Description:</b>	Review proposed main antenna and broadband interim antenna specification from 2 manufacturers.	<b>Amount:</b>	\$125.00				
<b>Component Description:</b>	Review proposed main antenna and broadband interim antenna specification from 2 manufacturers.								
<b>Amount:</b>	\$125.00								

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	<div> <div> <b>Component Description:</b> </div> <div> Complete and file initial repack construction permit application for WTAP </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$196.50 </div> </div>
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	Information not provided.



Perform engineering study for new channel assignment and antenna development	<b>Component Description:</b>  <b>Amount:</b>	Perform engineering study for new channel assignment \$437.50
	<b>Component Description:</b>  <b>Amount:</b>	Antenna and Transmission Line Mapping \$3,600.00
	<b>Component Description:</b> <b>Amount:</b>	RF Consulting \$125.00
	<b>Component Description:</b>  <b>Amount:</b>	Regarding repack Ch-35, review antenna proposals from two vendors \$187.50
	<b>Component Description:</b>  <b>Amount:</b>	Perform engineering study for new channel assignment \$2,712.50
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	
Project management of the transition	<b>Component Description:</b> <b>Amount:</b>	Project managment \$1,328.55
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$4,037.30

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,992.65

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,457.40

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,775.85

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,588.75

<b>Component Description:</b>	Project management
<b>Amount:</b>	\$3,536.90

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,721.85

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,369.80

<b>Component Description:</b>	Project management
<b>Amount:</b>	\$2,750.15

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,558.80

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,521.95

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$755.80

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$802.25

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,363.95

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,280.65

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,472.60

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,728.10

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,116.85

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,605.65

	<b>Component Description:</b>	Project Management
	<b>Amount:</b>	\$1,845.25
	<b>Component Description:</b>	Project Management
	<b>Amount:</b>	\$1,706.25
	<b>Component Description:</b>	Transition Related Project Management Costs
	<b>Amount:</b>	\$3,300.00
	<b>Component Description:</b>	Project Management
	<b>Amount:</b>	\$1,936.65
	<b>Component Description:</b>	Project Management
	<b>Amount:</b>	\$28.20
	<b>Component Description:</b>	Project Management
	<b>Amount:</b>	\$1,890.75
ASR modification (prepare FCC Form 854)	Information not provided.	

## Cost Information

### Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$88,481.00</b>	<b>\$79,229.00</b>		<b>\$1,137.87</b>	
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$30,000.00</i>	\$30,000.00	N/A	\$1,137.87	N/A
Fencing	<i>\$9,691.00</i>	\$9,691.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<i>\$1,000.00</i>	\$1,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$13,600.00</i>	\$13,600.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
Non-zoning permits	<i>\$16,000.00</i>	\$16,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A

FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,353.00	N/A	N/A	N/A
<b>Sub-total</b>	\$88,481.00	\$79,229.00	N/A	\$1,137.87	N/A
<b>Total for all systems</b>	\$6,951,991.33	\$5,788,936.72	N/A	\$1,757,576.44	N/A

## Components

Actual Information	
Description	File Name
Disposal Costs (for equipment and other waste, net of any salvage value)	<b>Component Description:</b> 30 yrd dumpster <b>Amount:</b> \$1,137.87
Fencing	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.
Non-zoning permits	Information not provided.
FCC Filing Fees - Special Temporary Authorization request	Information not provided.

FCC Filing Fees - Form 2100 license to cover application	Information not provided.
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.
DTV Medical Facility Notification	Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$6,951,991.33	\$5,788,936.72	\$1,757,576.44

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"> <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 J. Folliard , III**  
.  
*Assistant Secretary*

05/13/2019

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 J. Folliard , III</b> . <i>Assistant Secretary</i></p> <p>05/13/2019</p>

## Attachments