



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **73136** | Service: **DTV** | Call **WJHG-TV** | Channel: **16 (UHF)** |  
ID: | Sign:  
File **0000028739**  
Number:  
FRN: **0018223693** | Date **03/27**  
Submitted: **/2018**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>GRAY TELEVISION LICENSEE, LLC</b> Doing Business As: 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
<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	See attached narrative

**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	Retune Existing
	Use	Primary (Main)
	Ownership	Owned
	Owner	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	GatesAir
	Model	Maxiva ULXT-80AT UHV
	Year	2014

	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	54.8 kW

**Primary Transmitter**

**Retuning Transmitter Costs**

Section	Question	Response
<b>New IOT Tubes</b>	Number of Tubes (including accessories) needed	N/A
<b>New Mask Filter</b>	Power	Other
	Other Power	50 kW
<b>New Exciter</b>	Is a new exciter needed?	No

**Primary 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	No
	Description	N/A
<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**

Information not provided.

**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-12
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	6.46 kW

	Justification for New Transmitter	Interim transmitter installed at the alternate transmitter site needed to continue broadcasting through the transition period
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**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**

Name	Description
<b>Microwave Components</b>	Microwave Dishes, Line, etc.
<b>Microwave Radios</b>	STL Extension to alternate transmitter site
<b>Monitoring</b>	Monitoring for Interim transmitter
<b>Generator Repairs</b>	It needs to be repaired
<b>Concrete Slab</b>	10'x10' Slab

**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?	Yes
	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) .....	1000.0 kW



Manufacturer	
Model	TFU-28JSC /VP-R 4C140 D18
Year	2014

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?	Yes
	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) .....	1000.0 kW
	Manufacturer	

Model	TFU-28JSC /VP-R C140
Year	2017
Justification for New Antenna	The existing antenna is for channel 18 only and will not work for the designated re-pack channel 16.

## 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 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

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Name	Description
<b>Sweep Test Primary Chan 18 Antenna</b>	Sweep test of existing channel 18 antenna to determine if it can be used for new repack channel

**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?	Yes
	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	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) .....	72.0 kW
	Manufacturer	
	Model	TVP16B
	Year	2017

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

Name	Description
<b>Sweep Test Existing Antenna and Line</b>	Sweep test of existing antenna/line at auxiliary site to determine viability on new repack channel

**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	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1400 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	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1400 feet per run
	Justification for New Transmission Line	Sweep on existing line measured 490.460 MHz. Channel 16 needs to be within the range of 482 MHz and 488 MHz, line must be replaced.

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

Information not provided.

**Interim  
Transmission Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Flexible Air
	Diameter	3 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	825 feet per run
	Justification for New Transmission Line	Performed Line Sweep on existing 4" Rigid Line and it measured 490 MHz. The range for Channel 16 is 482 MHz - 488 MHz.

**Interim  
Transmission Line**

**Other Transmission Line Expenses Not Listed**

Name	Description
<b>Sweep Existing Transmission Line</b>	Sweep test of existing transmission line to determine if it is suitable for use

**Tower  
Equipment  
And  
Rigging  
Costs**

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

**Auxiliary  
Tower**

**Add Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	Alternate Tower Site
	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?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	No
	ASR Number	
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	30° 26' 00.1" N-
	Longitude (NAD83)	085° 24' 51.0" W-
	Overall Structure Height	1499.98 feet
	Support Structure Height	1499.98 feet

	Ground Elevation Above Mean Sea Level (AMSL)	138.12 feet
	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	Gray Television Group, Inc.
	Date Constructed	01/01/1962

### Other Types of Users

#### Users

US Customs

### Auxiliary 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

### Auxiliary Tower

### Tower Rigging Costs

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

**Auxiliary  
Tower**

**Other Tower Expenses Not Listed**  
Information not provided.

## 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	Leased
	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	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	1043251
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	30° 21' 09.0" N-
	Longitude (NAD83)	085° 23' 28.0" W-
	Overall Structure Height	1465.53 feet
	Support Structure Height	1403.20 feet
	Ground Elevation Above Mean Sea Level (AMSL)	78.74 feet
	Structure Type	TOWER - Free Standing or Guyed Structure

	Tower Owner	Nexstar Broadcasting, Inc.
	Date Constructed	08/01/1990

**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
42372	WPFM	FM
66398	WMBB	DTV

#### Other Types of Users

Users
Verizon

#### 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**

Name	Description
Microwave Installation	Installation of Microwave Gear on towers



**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
<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	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	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	No
	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?	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
Antenna Storage Cost	Antenna storage cost at Dielectric prior to shipment to station

## 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-12	\$420,333.26	\$449,198.36		\$208,360.71	
Monitoring	\$5,975.00	\$5,975.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	\$273,500.00	\$302,365.10	Quote: GA-00022137	\$208,360.71	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.	\$2,000.00	\$2,000.00	N/A	N/A	N/A
Microwave Radios	\$114,301.10	\$114,301.10	N/A	N/A	N/A
Microwave Components	\$21,636.96	\$21,636.96	N/A	N/A	N/A
Concrete Slab	\$1,712.00	\$1,712.00	N/A	N/A	N/A
Generator Repairs	\$1,208.20	\$1,208.20	N/A	N/A	N/A

<b>Primary Transmitter Maxiva ULXT-80AT UHV</b>	<b>\$189,071.09</b>	<b>\$115,053.34</b>		<b>\$78,496.22</b>	
Other 50 kW mask filter	<b>\$83,871.09</b>	\$83,871.09	Includes shipping and state and local taxes	\$56,565.71	N/A
UHF and VHF - minor banding issues	\$105,200.00	\$31,182.25	GA-00021465	\$21,930.51	N/A
<b>Sub-total</b>	<b>\$609,404.35</b>	<b>\$564,251.70</b>	<b>N/A</b>	<b>\$286,856.93</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$2,936,704.27</b>	<b>\$2,510,969.34</b>	<b>N/A</b>	<b>\$624,565.33</b>	<b>N/A</b>

## Components

Actual Information	
Description	File Name
Monitoring	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	<b>Component Description:</b> ULXTE-12 Transmitter <b>Amount:</b> \$208,360.71
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.
Microwave Radios	Information not provided.
Microwave Components	Information not provided.
Concrete Slab	Information not provided.
Generator Repairs	Information not provided.

Other 50 kW mask filter	<div data-bbox="722 174 1027 210"><b>Component Description:</b></div> <div data-bbox="1163 174 1353 322">New Mask Filter for Existing Primary Transmitter</div> <div data-bbox="722 336 831 367"><b>Amount:</b></div> <div data-bbox="1163 336 1294 367">\$56,565.71</div>
UHF and VHF - minor banding issues	<div data-bbox="722 508 1027 544"><b>Component Description:</b></div> <div data-bbox="1163 508 1294 620">Transmitter UXLTD-80 Retuning</div> <div data-bbox="722 627 831 658"><b>Amount:</b></div> <div data-bbox="1163 627 1294 658">\$21,930.51</div>

## 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 TVP16B</b>	<b>\$124,130.00</b>	<b>\$89,980.85</b>		<b>\$6,852.80</b>	
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	\$89,400.00	\$75,099.65	N/A	N/A	N/A
Sweep Test Existing Antenna and Line	<i>\$4,850.00</i>	\$4,850.00	See attached quote	\$2,425.00	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	\$3,631.20	N/A	\$907.80	N/A
<b>Primary Antenna TFU-28JSC /VP-R C140</b>	<b>\$298,484.92</b>	<b>\$262,704.92</b>		<b>\$141,419.58</b>	



Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$0.00	Included in antenna cost	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$0.00	Included in antenna cost	\$0.00	N/A
Sweep Test Primary Chan 18 Antenna	<b>\$8,200.00</b>	\$8,200.00	See attached invoice.	\$4,100.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	<b>\$248,104.92</b>	\$248,104.92	N/A	\$133,479.58	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,840.00	N/A
<b>Sub-total</b>	\$422,614.92	\$352,685.77	N/A	\$148,272.38	N/A
<b>Total for all systems</b>	\$2,936,704.27	\$2,510,969.34	N/A	\$624,565.33	N/A

## Components

Actual Information	
Description	File Name
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	Information not provided.
Sweep Test Existing Antenna and Line	<p><b>Component Description:</b> Sweep Test of Existing Auxiliary Transmission Line</p> <p><b>Amount:</b> \$2,425.00</p>
Sweep test of existing antenna	<p><b>Component Description:</b> Sweep Test Auxiliary Antenna</p> <p><b>Amount:</b> \$1,600.00</p> <p><b>Component Description:</b> Sweep test Aux. Antenna</p> <p><b>Amount:</b> \$1,920.00</p>
Side mount brackets for high power antennas (if not included in antenna base cost)	<p><b>Component Description:</b> Side Mount Brackets for Lower Power Antenna</p> <p><b>Amount:</b> \$907.80</p>
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Sweep Test Primary Chan 18 Antenna	<p><b>Component Description:</b> Sweep test of existing primary antenna system</p> <p><b>Amount:</b> \$4,100.00</p>

UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized	<b>Component Description:</b>		Elbow Complex, New Primary Antenna
	<b>Amount:</b>		\$3,192.00
	<b>Component Description:</b>		Primary Antenna Side-Mount Brackets
	<b>Amount:</b>		\$6,132.00
	<b>Component Description:</b>		Primary Antenna - UHF - High Power Side mount
	<b>Amount:</b>		\$71,679.29
	<b>Component Description:</b>		Primary Antenna Elbow Complex
	<b>Amount:</b>		\$4,468.80
	<b>Component Description:</b>		UHF High Power side mount
	<b>Amount:</b>		\$51,199.49
	<b>Component Description:</b>		New Primary Antenna, Side Mount Brackets
	<b>Amount:</b>		\$4,380.00

Sweep test of existing antenna	<b>Component Description:</b>	Sweep Test of New Primary Antenna
	<b>Amount:</b>	\$2,240.00
	<b>Component Description:</b>	New Primary Antenna, Sweep Test
	<b>Amount:</b>	\$1,600.00

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	\$61,725.00	\$47,902.66		\$19,550.56	
Flexible Air Transmission Line - dielectric, 3"	\$48,675.00	\$34,852.66	See vendor quote JEHQ1257-01	\$19,550.56	N/A
Sweep Existing Transmission Line	\$13,050.00	\$13,050.00	See vendor invoice	N/A	N/A
Primary Transmission Line	\$282,800.00	\$263,955.76		\$121,887.86	
Rigid Transmission Line - copper, 6 1/8"	\$282,800.00	\$263,955.76	N/A	\$121,887.86	N/A
Sub-total	\$344,525.00	\$311,858.42	N/A	\$141,438.42	N/A
Total for all systems	\$2,936,704.27	\$2,510,969.34	N/A	\$624,565.33	N/A

Components

Actual Information	
Description	File Name

Flexible Air Transmission Line - dielectric, 3"	<div> <b>Component Description:</b> New Auxiliary Transmission Line         </div> <div> <b>Amount:</b> \$8,713.16         </div>
	<div> <b>Component Description:</b> Aux. Transmission Line         </div> <div> <b>Amount:</b> \$10,837.40         </div>
Sweep Existing Transmission Line	Information not provided.
Rigid Transmission Line - copper, 6 1/8"	<div> <b>Component Description:</b> Primary Transmission Line         </div> <div> <b>Amount:</b> \$71,101.25         </div> <div> <b>Component Description:</b> New Primary Transmission Line         </div> <div> <b>Amount:</b> \$50,786.61         </div>

## 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>\$670,300.00</b>	<b>\$579,880.00</b>		<b>\$7,500.00</b>	
Structural engineering tower load study for well documented tower	\$12,600.00	\$7,500.00	N/A	\$7,500.00	N/A
Microwave Installation	<i>\$26,200.00</i>	\$26,200.00	N/A	N/A	N/A
Tall Tower (greater than 500')	\$210,500.00	\$146,180.00	N/A	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	N/A	N/A
<b>Auxiliary Tower TOWER</b>	<b>\$644,100.00</b>	<b>\$474,800.00</b>		<b>\$13,250.00</b>	
Structural engineering tower load study for well documented tower	\$12,600.00	\$15,000.00	2017-Gray-WJHG-AUX-0406-N plus invoice for \$1,750 for feasibility analysis	\$13,250.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$59,800.00	N/A	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	N/A	N/A

<b>Sub-total</b>	\$1,314,400.00	\$1,054,680.00	N/A	\$20,750.00	N/A
<b>Total for all systems</b>	\$2,936,704.27	\$2,510,969.34	N/A	\$624,565.33	N/A

## Components

Actual Information Description	File Name
Structural engineering tower load study for well documented tower	<p><b>Component Description:</b> Tower Mapping</p> <p><b>Amount:</b> \$3,750.00</p> <p><b>Component Description:</b> Structural engineering Tower Load study</p> <p><b>Amount:</b> \$3,750.00</p>
Microwave Installation	Information not provided.
Tall Tower (greater than 500')	Information not provided.
Major tower reinforcement /modifications	Information not provided.



Structural engineering tower load study for well documented tower	<b>Component Description:</b>  <b>Amount:</b>	Structural engineering Tower Load study \$1,750.00
	<b>Component Description:</b>  <b>Amount:</b>	Structural Analysis of Auxiliary Tower \$6,625.00
	<b>Component Description:</b>  <b>Amount:</b>	Structural engineering Tower Load study \$1,750.00
	<b>Component Description:</b> <b>Amount:</b>	Tower Mapping \$6,625.00
Tall Tower (greater than 500')	Information not provided.	
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>\$172,910.00</b>	<b>\$163,750.00</b>		<b>\$27,247.60</b>	
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	N/A	N/A
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$24,222.60	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	\$1,675.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,350.00	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 request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
<b>Sub-total</b>	\$172,910.00	\$163,750.00	N/A	\$27,247.60	N/A
<b>Total for all systems</b>	\$2,936,704.27	\$2,510,969.34	N/A	\$624,565.33	N/A

## Components

**Actual Information**  
**Description**

**File Name**

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	Information not provided.	
Project management of the transition	<b>Component Description:</b> <b>Amount:</b>	Project Management \$2,556.05
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$28.20
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$868.30
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$988.95
	<b>Component Description:</b> <b>Amount:</b>	Project management \$1,853.55
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$1,856.30
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$802.25

	<b>Component Description:</b> <b>Amount:</b>	Project Management \$4,079.35
	<b>Component Description:</b> <b>Amount:</b>	Project management \$2,471.90
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$3,425.10
	<b>Component Description:</b> <b>Amount:</b>	Transition Related Project Management Costs \$2,850.00
	<b>Component Description:</b> <b>Amount:</b>	Project management \$2,442.65
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	<b>Component Description:</b>		Perform engineering study for new channel assignment
	<b>Amount:</b>		\$687.50
	<b>Component Description:</b>		Perform engineering study for new channel assignment
	<b>Amount:</b>		\$800.00
	<b>Component Description:</b>		Review scope of work regarding modification work of Hwy 20 tower, discuss with J McKee.
	<b>Amount:</b>		\$187.50
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<b>Component Description:</b>		Develop final ERP and parameters for initial CP application
	<b>Amount:</b>		\$1,350.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.		
Prepare request for Special Temporary Authorization	Information not provided.		

## Cost Information

### Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$72,850.00</b>	<b>\$63,743.45</b>		<b>\$0.00</b>	
MVPD Notification of Channel Change	<i>\$1,070.00</i>	\$1,070.00	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 Delivery and Handling Charges	<i>\$2,400.00</i>	\$2,400.00	Main and alternate sites	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,498.45	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
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

Disposal Costs (for equipment and other waste, net of any salvage value)	<b>\$20,000.00</b>	\$20,000.00	For main and alternate sites	N/A	N/A
Equipment Storage	<b>\$6,650.00</b>	\$6,650.00	N/A	N/A	N/A
Antenna Storage Cost	<b>\$19,540.00</b>	\$19,540.00	See WJHG storage quote from Dielectric	N/A	N/A
<b>Sub-total</b>	\$72,850.00	\$63,743.45	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$2,936,704.27	\$2,510,969.34	N/A	\$624,565.33	N/A

## Components

Information not provided.



**Cost  
Information**

**Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$2,936,704.27	\$2,510,969.34	\$624,565.33

**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.

<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><b>Robert Folliard</b>  <i>Assistant Secretary</i></p> <p>03/27/2018</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"> <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</b>  <i>Assistant Secretary</i></p> <p>03/27/2018</p>

## Attachments