



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **71297** | Service: **DTV** | Call **WCSC-TV** | Channel: **19 (UHF)** |  
ID: | Sign:  
File **0000024799**  
Number:  
FRN: **0018223693** | Date **07/16**  
Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>GRAY TELEVISION LICENSEE, LLC</b> Doing Business As: WCSC	4370 PEACHTREE ROAD, NE ATLANTA, GA 30319 United States	+1 (843) 402-5555	allfclms@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
The Preparer is same as the reimbursement contact.			

## Broadcaster Information and Transition Plan

Question	Response
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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	Install interim antenna and connect to existing line Install new 7" EIA tx line and connect to existing antenna Will require new combiner for WCSC and WGWG. WGWG is not repacked.

## Transmitters

Section	Question	Response
<b>Transmitter Related Expenses</b>	Do you have transmitter related expenses?	Yes

## Auxiliary Transmitter

### Add Transmitter Information

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Retune Existing
	Use	Auxiliary (Backup)
	Ownership	Owned
	Owner	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	Harris
	Model	UAX-2000AT
	Year	2012

	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	2.5 kW

**Auxiliary  
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	3 kW
	Other Power	N/A
<b>New Exciter</b>	Is a new exciter needed?	No

**Auxiliary  
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

**Auxiliary  
Transmitter**

**Other Transmitter Cost Not Listed**

Information not provided.

**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	Power CD
	Year	2014
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	60 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?	No
	Manufacturer	
	Model	ULXTE-50
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	30.1 kW
	Justification for New Transmitter	The cost of rental main transmitter coupled with the cost to retune the existing main transmitter is more expensive than the purchase of a comparable solid state transmitter. Quotes attached.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No

	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	300 kVA
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	Electrical panel, conduit and wire
<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?	Yes
	Size	200.0 square feet
<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.

**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	Retune Existing
	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?	Yes
	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
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels	10
	Design power capacity in use	40.0 %
	Lower Limit	470.00 MHz



Upper Limit	690.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power) .....	1000.0 kW
Manufacturer	Dielectric
Model	TUP-C3-10-1
Year	2003

**Facility ID's and Call Signs of all stations with whom the antenna is shared.**

Facility ID	Call Sign
21536	WGWG

**Primary Antenna**

**Adjustment to Existing Antenna**

Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	Yes

**Primary Antenna**

**Other Antenna Costs**

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	2
	Frequencies of channels supported	RF channel
	Frequency	N/A

**Enter a list of RF channel numbers.**

RF Channel Number
34
19

Primary  
Antenna

Other Antenna Cost Not Listed

Name	Description
Combiner installation	Installation of new combiner.

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?	Yes
	Is antenna directional?	Yes
	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	2
	Number of Panels/Bays	16
	Lower Limit	470.00 MHz

Upper Limit	686.00 MHz
Design power capacity in use	40.0 %
Other Antenna Type	N/A
ERP: (Effective Radiated Power) .....	1000.0 kW
Manufacturer	
Model	TFU-WB16
Year	2019
Justification for New Antenna	Interim antenna for use while new transmission line is installed and connected to existing panel antenna.

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

## 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?	Yes
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1920 feet per run

**Facility ID's and Call Signs of all stations with whom the transmission line is shared.**

Facility ID	Call Sign
21536	WGWG

Primary  
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1920 feet per run

	Justification for New Transmission Line	Existing line is not true broadband but has selected cut sections to make the line work on current digital channel 47 and analog channel 5. Will not work on channel 19. Sweep data and comments attached. Existing line to serve as interim.
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Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Nitrogen	Tanks to pressurize new line



**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?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1051231
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	32° 55' 29.0" N-
	Longitude (NAD83)	079° 41' 57.0" W-
	Overall Structure Height	1999.98 feet
	Support Structure Height	1999.98 feet
	Ground Elevation Above Mean Sea Level (AMSL)	16.08 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	WCSC, LLC
	Date Constructed	10/07/2009

**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
61005	WITV	DTV
21536	WGWG	DTV
60950	WSCI	FM
60039	WIWF	FM

## Primary Tower

### Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	No reinforcements needed

## Primary Tower

### Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A

<b>Helicopter Services Required</b>	Are helicopter services required?	No
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**Primary  
Tower**

**Other Tower Expenses Not Listed**

Information not provided.

**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	595
	Explanation	WCSC-TV requires the aid of outside project management services in order to fulfill the requirements of the repack transition.
<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	No
	Address transition timing and coordination issues w/ other stations and wireless providers	No
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	No
	Additional Field Engineering Service	Yes
	Number of Days	1
	Justification	RF system analysis

**Outside Professional Services Costs**      **Other Professional Services Expenses Not Listed**

If provided, please provide details.

## 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	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
<b>Other Miscellaneous Expenses</b>	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	No
	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	Site Security to deter copper theft
Internal Corporate Project Management	Raycom Media Corp Project management

## Cost Information

### Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Transmitter ULXTE-50</b>	<b>\$1,048,823.58</b>	<b>\$1,072,882.89</b>		<b>\$995,941.64</b>	
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	\$429.00	N/A
UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	\$947,000.00	\$974,759.31	Quote attached	\$968,689.06	N/A
Transformer 3 phase /480v - 300 KVA	\$36,800.00	\$35,000.00	N/A	N/A	N/A
Other -- Building Addition Size: 200.0	<b><i>\$2,492.00</i></b>	\$2,492.00	minor ductwork demolition to allow for new RF system installation. Invoice attached	\$2,492.00	N/A



Other Electrical Service: Electrical panel, conduit and wire	<b>\$24,331.58</b>	\$24,331.58	Heat Exchanger disconnect panels, new 480v disconnect, new 400 amp distribution panel. Quote attached Invoices received	\$24,331.58	a
<b>Auxiliary Transmitter UAX-2000AT</b>	<b>\$109,355.00</b>	<b>\$12,254.02</b>		<b>\$12,254.02</b>	
3 kW mask filter	\$4,155.00	\$0.00	included in retune quote attached	N/A	N/A
UHF and VHF - minor banding issues	\$105,200.00	\$12,254.02	GateAir Invoice US0315882	\$12,254.02	N/A
<b>Sub-total</b>	<b>\$1,158,178.58</b>	<b>\$1,085,136.91</b>	N/A	<b>\$1,008,195.66</b>	N/A
<b>Total for all systems</b>	<b>\$2,569,525.06</b>	<b>\$2,190,297.39</b>	N/A	<b>\$1,464,394.68</b>	N/A

## Components

Actual Information	
Description	File Name
Switchgear - industrial 800 amp	<b>Component Description:</b> Copper Strap <b>Amount:</b> \$429.00

UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW	<table> <tr> <td data-bbox="722 174 1029 208"><b>Component Description:</b></td><td data-bbox="1163 174 1377 327">1/3 of Liquid Cooled Solid state transmitter due prior to shipment</td></tr> <tr> <td data-bbox="722 338 831 371"><b>Amount:</b></td><td data-bbox="1163 338 1310 371">\$319,229.69</td></tr> <tr> <td data-bbox="722 477 1029 510"><b>Component Description:</b></td><td data-bbox="1163 477 1297 546">UXLTE-50 Transmitter</td></tr> <tr> <td data-bbox="722 557 831 591"><b>Amount:</b></td><td data-bbox="1163 557 1310 591">\$408,330.08</td></tr> <tr> <td data-bbox="722 696 1029 730"><b>Component Description:</b></td><td data-bbox="1163 696 1366 806">15% of Liquid Cooled Solid State Transmitter</td></tr> <tr> <td data-bbox="722 817 831 851"><b>Amount:</b></td><td data-bbox="1163 817 1310 851">\$143,653.36</td></tr> <tr> <td data-bbox="722 956 1029 990"><b>Component Description:</b></td><td data-bbox="1163 956 1335 1025">ULXTE-50 Per quote</td></tr> <tr> <td data-bbox="722 1037 831 1070"><b>Amount:</b></td><td data-bbox="1163 1037 1297 1070">\$97,475.93</td></tr> </table>	<b>Component Description:</b>	1/3 of Liquid Cooled Solid state transmitter due prior to shipment	<b>Amount:</b>	\$319,229.69	<b>Component Description:</b>	UXLTE-50 Transmitter	<b>Amount:</b>	\$408,330.08	<b>Component Description:</b>	15% of Liquid Cooled Solid State Transmitter	<b>Amount:</b>	\$143,653.36	<b>Component Description:</b>	ULXTE-50 Per quote	<b>Amount:</b>	\$97,475.93
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<b>Component Description:</b>	ULXTE-50 Per quote																
<b>Amount:</b>	\$97,475.93																
Transformer 3 phase/480v - 300 KVA	Information not provided.																
Other -- Building Addition Size: 200.0	<table> <tr> <td data-bbox="722 1319 1029 1352"><b>Component Description:</b></td><td data-bbox="1163 1319 1287 1352">Duct Work</td></tr> <tr> <td data-bbox="722 1364 831 1397"><b>Amount:</b></td><td data-bbox="1163 1364 1281 1397">\$2,492.00</td></tr> </table>	<b>Component Description:</b>	Duct Work	<b>Amount:</b>	\$2,492.00												
<b>Component Description:</b>	Duct Work																
<b>Amount:</b>	\$2,492.00																

<p>Other Electrical Service: Electrical panel, conduit and wire</p>	<table> <tr> <td data-bbox="722 174 1029 208"><b>Component Description:</b></td><td data-bbox="1163 174 1334 286">Union, Cast Copper, 1-1/2" Tube, CXC</td></tr> <tr> <td data-bbox="722 297 831 331"><b>Amount:</b></td><td data-bbox="1163 297 1259 331">\$219.05</td></tr> <tr> <td data-bbox="722 439 1029 472"><b>Component Description:</b></td><td data-bbox="1163 439 1369 551">Installed new Channel 2 Tower Transmitter Panel</td></tr> <tr> <td data-bbox="722 562 831 595"><b>Amount:</b></td><td data-bbox="1163 562 1294 595">\$23,922.00</td></tr> <tr> <td data-bbox="722 703 1029 736"><b>Component Description:</b></td><td data-bbox="1163 703 1345 770">Clevis Hanger Adjustable Pipe</td></tr> <tr> <td data-bbox="722 781 831 815"><b>Amount:</b></td><td data-bbox="1163 781 1259 815">\$190.53</td></tr> </table>	<b>Component Description:</b>	Union, Cast Copper, 1-1/2" Tube, CXC	<b>Amount:</b>	\$219.05	<b>Component Description:</b>	Installed new Channel 2 Tower Transmitter Panel	<b>Amount:</b>	\$23,922.00	<b>Component Description:</b>	Clevis Hanger Adjustable Pipe	<b>Amount:</b>	\$190.53
<b>Component Description:</b>	Union, Cast Copper, 1-1/2" Tube, CXC												
<b>Amount:</b>	\$219.05												
<b>Component Description:</b>	Installed new Channel 2 Tower Transmitter Panel												
<b>Amount:</b>	\$23,922.00												
<b>Component Description:</b>	Clevis Hanger Adjustable Pipe												
<b>Amount:</b>	\$190.53												
<p>3 kW mask filter</p>	<p>Information not provided.</p>												
<p>UHF and VHF - minor banding issues</p>	<table> <tr> <td data-bbox="722 1021 1029 1055"><b>Component Description:</b></td><td data-bbox="1163 1021 1374 1245">Channel Change, Quote GA-00020216 11,092.44 Low Pass Filter, Quote Q-77296</td></tr> <tr> <td data-bbox="722 1256 831 1290"><b>Amount:</b></td><td data-bbox="1163 1256 1278 1290">\$9,480.91</td></tr> <tr> <td data-bbox="722 1397 1029 1431"><b>Component Description:</b></td><td data-bbox="1163 1397 1369 1464">15% of channel change and proof</td></tr> <tr> <td data-bbox="722 1476 831 1509"><b>Amount:</b></td><td data-bbox="1163 1476 1278 1509">\$1,663.87</td></tr> <tr> <td data-bbox="722 1617 1029 1650"><b>Component Description:</b></td><td data-bbox="1163 1617 1361 1729">Channel Change UAX-2000 per quote</td></tr> <tr> <td data-bbox="722 1740 831 1774"><b>Amount:</b></td><td data-bbox="1163 1740 1278 1774">\$1,109.24</td></tr> </table>	<b>Component Description:</b>	Channel Change, Quote GA-00020216 11,092.44 Low Pass Filter, Quote Q-77296	<b>Amount:</b>	\$9,480.91	<b>Component Description:</b>	15% of channel change and proof	<b>Amount:</b>	\$1,663.87	<b>Component Description:</b>	Channel Change UAX-2000 per quote	<b>Amount:</b>	\$1,109.24
<b>Component Description:</b>	Channel Change, Quote GA-00020216 11,092.44 Low Pass Filter, Quote Q-77296												
<b>Amount:</b>	\$9,480.91												
<b>Component Description:</b>	15% of channel change and proof												
<b>Amount:</b>	\$1,663.87												
<b>Component Description:</b>	Channel Change UAX-2000 per quote												
<b>Amount:</b>	\$1,109.24												

## Cost Information

### Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Interim Antenna TFU-WB16</b>	<b>\$130,120.70</b>	<b>\$129,790.70</b>		<b>\$115,242.78</b>	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,000.00	Quote attached
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 1000 kW input, directional,, horizontally polarized	<i>\$123,390.70</i>	\$123,390.70	Quote 63001 attached	\$112,242.78	Quote: 123,390.7 Invoice Total: 111,290.92
<b>Primary Antenna TUP-C3-10-1</b>	<b>\$105,930.00</b>	<b>\$21,400.00</b>		<b>\$1,730.00</b>	
UHF - High Power, Side Mount, broadband panel, 10 bay,, 1000 kW input, directional,, horizontally polarized	<i>\$0.00</i>	\$0.00	N/A	\$0.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$0.00	N/A

Combiner installation	\$15,000.00	\$15,000.00	N/A	\$1,730.00	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$0.00	Included in TX line quote 67003 attached	N/A	N/A
<b>Sub-total</b>	\$236,050.70	\$151,190.70	N/A	\$116,972.78	N/A
<b>Total for all systems</b>	\$2,569,525.06	\$2,190,297.39	N/A	\$1,464,394.68	N/A

## Components

Actual Information	
Description	File Name
Sweep test of existing antenna	<p><b>Component Description:</b> RF sweep testing of two coax transmission lines</p> <p><b>Amount:</b> \$3,000.00</p>
UHF - High Power, Side Mount, basic slot antenna, 16 bay,, 1000 kW input, directional,, horizontally polarized	<p><b>Component Description:</b> interim antenna</p> <p><b>Amount:</b> \$30,847.68</p> <p><b>Component Description:</b> T/L 6-75 EIA Length up to 5' fixed flg 1 end/ swivel flg 1 end</p> <p><b>Amount:</b> \$951.86</p> <p><b>Component Description:</b> 10% Balance Due</p> <p><b>Amount:</b> \$18,747.89</p> <p><b>Component Description:</b> interim antenna</p> <p><b>Amount:</b> \$61,695.35</p>

UHF - High Power, Side Mount, broadband panel, 10 bay,, 1000 kW input, directional,, horizontally polarized	Information not provided.	
Sweep test of existing antenna	<b>Component Description:</b> <b>Amount:</b>	Engineering Services \$2,709.04
Combiner installation	<b>Component Description:</b> <b>Amount:</b>  <b>Component Description:</b> <b>Amount:</b>	Connect coax output of WGWG-TV transmitter into WCSC-TVs new 2-station RF combiner \$1,730.00  Electrical Testing \$7,362.25
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
Primary Transmission Line	\$639,993.86	\$414,902.86		\$60,943.88	
Nitrogen	\$633.86	\$633.86	Airgas invoices total (attached)	\$633.24	N/A
Rigid Transmission Line - copper, 7 3 /16" broadband	\$639,360.00	\$414,269.00	Quote 67003: 390,816.00 C/O: 2/8 /18: 10,015.00 cut sections C /O: 1/23 /18: 13,438.00 cut sections Net: 414,269	\$60,310.64	N/A
Sub-total	\$639,993.86	\$414,902.86	N/A	\$60,943.88	N/A
Total for all systems	\$2,569,525.06	\$2,190,297.39	N/A	\$1,464,394.68	N/A

Components

Actual Information	
Description	File Name

Nitrogen		
	<b>Component Description:</b>	Nitrogen Industrial
		300
	<b>Amount:</b>	\$199.31
	<b>Component Description:</b>	Nitrogen Industrial
		300
	<b>Amount:</b>	\$234.62
	<b>Component Description:</b>	Nitrogen industrial
		300
	<b>Amount:</b>	\$199.31



Rigid Transmission Line -  
copper, 7 3/16" broadband

**Component Description:**

Rigid  
Transmission Line  
10% Balance Due

**Amount:**

\$39,081.53

**Component Description:**

Rigid  
Transmission Line

**Amount:**

\$21,229.11

**Component Description:**

Rigid  
Transmission Line

**Amount:**

\$14,769.15

**Component Description:**

Reducer, Flange,  
etc

**Amount:**

\$4,271.33

**Component Description:**

Interim Antenna  
N/A

**Amount:**

**Component Description:**

Interim Antenna  
N/A

**Amount:**

**Component Description:**

Elbow, Anchor,  
Flange quote with  
change orders  
attached

**Amount:**

\$8,795.40

## 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>\$236,800.00</b>	<b>\$248,600.00</b>		<b>\$193,100.00</b>	
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$18,600.00	Per invoices received	\$13,100.00	There is a pre-determined cost that is more than the invoice.
Tall Tower (greater than 500')	\$210,500.00	\$230,000.00	Per Tower King II proposal C-18-001 (uploaded to LMS)	\$180,000.00	N/A
<b>Sub-total</b>	<b>\$236,800.00</b>	<b>\$248,600.00</b>	<b>N/A</b>	<b>\$193,100.00</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$2,569,525.06</b>	<b>\$2,190,297.39</b>	<b>N/A</b>	<b>\$1,464,394.68</b>	<b>N/A</b>

### Components

Actual Information Description	File Name
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<p>Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study</p>	<table> <tr> <td data-bbox="713 174 1023 210"><b>Component Description:</b></td><td data-bbox="1161 174 1278 286">Feasibility Structural Analysis</td></tr> <tr> <td data-bbox="713 297 828 333"><b>Amount:</b></td><td data-bbox="1161 297 1278 333">\$7,600.00</td></tr> <tr> <td data-bbox="713 434 1023 470"><b>Component Description:</b></td><td data-bbox="1161 434 1374 546">WCSC's portion of tower mapping services</td></tr> <tr> <td data-bbox="713 557 828 593"><b>Amount:</b></td><td data-bbox="1161 557 1278 593">\$5,500.00</td></tr> <tr> <td data-bbox="713 694 1023 730"><b>Component Description:</b></td><td data-bbox="1161 694 1362 846">Tower Service - Mapping of WCSC Facility ID # 71297</td></tr> <tr> <td data-bbox="713 857 828 893"><b>Amount:</b></td><td data-bbox="1161 857 1278 893">\$5,500.00</td></tr> </table>	<b>Component Description:</b>	Feasibility Structural Analysis	<b>Amount:</b>	\$7,600.00	<b>Component Description:</b>	WCSC's portion of tower mapping services	<b>Amount:</b>	\$5,500.00	<b>Component Description:</b>	Tower Service - Mapping of WCSC Facility ID # 71297	<b>Amount:</b>	\$5,500.00
<b>Component Description:</b>	Feasibility Structural Analysis												
<b>Amount:</b>	\$7,600.00												
<b>Component Description:</b>	WCSC's portion of tower mapping services												
<b>Amount:</b>	\$5,500.00												
<b>Component Description:</b>	Tower Service - Mapping of WCSC Facility ID # 71297												
<b>Amount:</b>	\$5,500.00												
<p>Tall Tower (greater than 500')</p>	<table> <tr> <td data-bbox="713 1025 1023 1061"><b>Component Description:</b></td><td data-bbox="1161 1025 1342 1137">Down payment /mobilization for WCSC</td></tr> <tr> <td data-bbox="713 1149 828 1184"><b>Amount:</b></td><td data-bbox="1161 1149 1291 1184">\$50,000.00</td></tr> <tr> <td data-bbox="713 1285 1023 1321"><b>Component Description:</b></td><td data-bbox="1161 1285 1323 1397">Completion of Phase 1a of WCSC</td></tr> <tr> <td data-bbox="713 1408 828 1444"><b>Amount:</b></td><td data-bbox="1161 1408 1307 1444">\$130,000.00</td></tr> </table>	<b>Component Description:</b>	Down payment /mobilization for WCSC	<b>Amount:</b>	\$50,000.00	<b>Component Description:</b>	Completion of Phase 1a of WCSC	<b>Amount:</b>	\$130,000.00				
<b>Component Description:</b>	Down payment /mobilization for WCSC												
<b>Amount:</b>	\$50,000.00												
<b>Component Description:</b>	Completion of Phase 1a of WCSC												
<b>Amount:</b>	\$130,000.00												

## 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>\$203,660.00</b>	<b>\$203,425.00</b>		<b>\$29,623.33</b>	
Additional Field Engineering Service, 1 Days	<i>\$0.00</i>	\$0.00	not required	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	\$868.73	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
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$0.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$2,375.00	Estimated cost to be added.
Project management of the transition	\$94,010.00	\$99,675.00	Please see the attached Widelity quote.	\$26,379.60	N/A
<b>Sub-total</b>	\$203,660.00	\$203,425.00	N/A	\$29,623.33	N/A
<b>Total for all systems</b>	\$2,569,525.06	\$2,190,297.39	N/A	\$1,464,394.68	N/A

## Components

Actual Information	
Description	File Name
Additional Field Engineering Service, 1 Days	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.

Attorney Fees - Prepare and File request for Special Temporary Authorization	<b>Component Description:</b> Professional legal services <b>Amount:</b> \$868.73
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.
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> Engineering study and preparation of engineering portion of FCC Form 2100 <b>Amount:</b> \$2,250.00  <b>Component Description:</b> Engineering study work new channel and antenna development <b>Amount:</b> \$125.00
Project management of the transition	<b>Component Description:</b> Project management <b>Amount:</b> \$4,861.55

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,320.65

<b>Component Description:</b>	Project Management LMS 387 Q1 Progress Report - Robert E Thurber, 15 mins @ \$154.00/hr
<b>Amount:</b>	\$77.00

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,734.60

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,097.45

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,531.70

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,960.35

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,583.85

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,212.45

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## 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>\$94,841.92</b>	<b>\$87,041.92</b>		<b>\$55,559.03</b>	
Internal Corporate Project Management	<i>\$35,000.00</i>	\$35,000.00	Estimated internal labor cost Detailed spreadsheet will be attached for each invoice	\$26,367.11	N/A
Security	<i>\$7,072.00</i>	\$7,072.00	Hours and cost verification attached with initial quote	\$7,072.00	N/A
DTV Medical Facility Notification	\$11,550.00	\$3,750.00	Group quote attached	\$3,750.00	N/A
Equipment Delivery and Handling Charges	<i>\$18,369.92</i>	\$18,369.92	On site forklift rental Per invoice received	\$18,369.92	N/A
Equipment Storage	<i>\$20,000.00</i>	\$20,000.00	Estimate for Dielectric on site antenna storage Dielectric letter attached	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$2,850.00</i>	\$2,850.00	estimate for on air rescan announcement production. Quote attached	N/A	N/A



MVPD Notification of Channel Change	<b>\$0.00</b>	\$0.00	N/A	N/A	N/A
<b>Sub-total</b>	\$94,841.92	\$87,041.92	N/A	\$55,559.03	N/A
<b>Total for all systems</b>	\$2,569,525.06	\$2,190,297.39	N/A	\$1,464,394.68	N/A

## Components

Actual Information	
Description	File Name
Internal Corporate Project Management	<p><b>Component Description:</b> Internal Project Management See attachment for details</p> <p><b>Amount:</b> \$26,367.11</p>
Security	<p><b>Component Description:</b> Security</p> <p><b>Amount:</b> \$2,992.00</p> <p><b>Component Description:</b> Security</p> <p><b>Amount:</b> \$4,080.00</p>
DTV Medical Facility Notification	<p><b>Component Description:</b> Medical</p> <p><b>Amount:</b> \$3,750.00</p>

Equipment Delivery and Handling Charges	<b>Component Description:</b> Diesel <b>Amount:</b> \$80.93
	<b>Component Description:</b> Shooting Boom Forklift <b>Amount:</b> \$5,463.00
	<b>Component Description:</b> Shooting Boom Forklift <b>Amount:</b> \$5,013.32
	<b>Component Description:</b> Shooting Boom Forklift <b>Amount:</b> \$3,040.34
	<b>Component Description:</b> Shooting Boom Forklift Rental <b>Amount:</b> \$4,772.33
Equipment Storage	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
MVPD Notification of Channel Change	Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$2,569,525.06	\$2,190,297.39	\$1,464,394.68

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  
Folliard , III**  
.  
*Assistant  
Secretary*

07/16/2019

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 , III</b> . <i>Assistant Secretary</i></p> <p>07/16/2019</p>

## Attachments