



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **710** | Service: **DTV** | Call **WGIQ** | Channel: **30 (UHF)**  
ID: | Sign:  
File **0000027860**  
Number:  
FRN: **0001750314** | Date **01/12**  
Submitted: **/2021**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>ALABAMA EDUCATIONAL TELEVISION COMMISSION</b>	Windell L. Wood	+1 (800)	wwood@aptv. org	Government Entity
Doing Business As: ALABAMA EDUCATIONAL TELEVISION COMMISSION	2112 11TH AVENUE SOUTH SUITE 400 BIRMINGHAM, AL 35205 United States	239- 5233		

## 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>Robert Gehman</b> <i>Consulting Engineer</i> <i>Kessler and Gehman</i> <i>Associates, Inc.</i>	Robert Gehman 507 NW 60 Street Suite D Gainesville, FL 32607 United States	+1 (352) 332- 3157	bob@kesslerandgehman. com

**Broadcaster  
Information  
and  
Transition  
Plan**

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	Replace transmitter, antenna and transmission line. Acquire interim antenna and line for continued operation during construction and duration of the assigned phase. Map and analyze tower; design and implement modifications if required.

**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	Sigma CD3130P1
	Year	2007
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	25 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-20
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	12.9 kW
	Justification for New Transmitter	The manufacturer of the existing IOT transmitter advises that the transmitter cannot be re-tuned to the assigned channel. The purchase price of a new transmitter is based on a Proposal from Comark for an MSDC IOT as suggested by the FCC. See attachment.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
	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**

Name	Description
<b>Additional Interior RF System</b>	Interior RF system to enable installation of new 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?	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	Horizontal
	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) .....	952.0 kW

Manufacturer	
Model	TFU- 36DSC-R- P310BNT DC
Year	2007



## 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?	Yes
	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) .....	702.0 kW
	Manufacturer	
	Model	TFU-29JSC /VP- RP310BNT

Year	2018
Justification for New Antenna	The existing primary antenna is a single channel slotted coaxial which cannot accommodate the assigned channel. The proposed antenna includes vertical polarization making it an Upgrade

## 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
Sweep Line		Sweep of existing transmission line

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Interim
	Description of Use	N/A
	Change Type	
	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) .....	450.0 kW
	Manufacturer	
	Model	TUA-P2-9 /18M-1-S
	Year	2018

	Justification for New Antenna	An interim antenna is necessary to keep station on the air during primary antenna replacement and for the duration of the assigned phase. Station will attempt to lease if leasing is available at time of acquisition.
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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?	S
	Feed Line Size	3 1/8 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
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	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	770 feet per run

Primary

Other Transmission Line Expenses Not Listed

Transmission Line

Information not provided.

Interim

New Transmission Line

Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Flexible Air
	Diameter	4 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	710 feet per run
	Justification for New Transmission Line	An interim transmission line is necessary for the interim antenna to keep station on the air during primary antenna replacement and for the duration of the assigned phase.



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?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1036417
Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	31° 43' 05.0" N-
	Longitude (NAD83)	085° 26' 03.0" W-
	Overall Structure Height	726.70 feet
	Support Structure Height	726.70 feet
	Ground Elevation Above Mean Sea Level (AMSL)	586.94 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	Alabama Educational Television Commission
	Date Constructed	01/01/1992

### Other Types of Users

#### Users

WBIQ microwave

### 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:	Major Reinforcements needed

### Primary Tower

### Tower Rigging Costs

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

**Primary  
Tower**

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

**Outside  
Professional**

Section	Question	Response
<b>Services Costs Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	157
	Explanation	It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel trained in project management for such complex projects.
<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	Yes

Number of Days	18
Justification	It will be necessary to survey the site, plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects. Station does not have available personnel or personnel trained in such services.

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



<b>Other Expenses</b>	<b>Other Expenses Not Listed</b>
	Information not provided.

## 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
Primary Transmitter ULXTE-20	\$614,498.63	\$698,442.27		\$642,193.64	
Additional Interior RF System	<b>\$56,248.63</b>	\$56,248.63	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$0.00	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$27,021.23	Electrical installation. Based on a sealed bid administered by the State of Alabama	\$27,021.23	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$32,273.80	N/A	\$32,273.80	N/A

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$582,898.61	Total cost of Transmitter, installation, and all equipment, materials and shipping. Cost based on sealed bids administered by the State of Alabama. The baseline cost for comparison is the Comark 25 kW IOT at \$865,551.00.	\$582,898.61	N/A
<b>Sub-total</b>	\$614,498.63	\$698,442.27	N/A	\$642,193.64	N/A
<b>Total for all systems</b>	\$2,020,712.53	\$1,667,760.61	N/A	\$1,238,987.63	N/A

## Components

Actual Information		
Description	File Name	
Additional Interior RF System	<b>Component Description:</b>  <b>Amount:</b>	Interior RF System is included in transmitter invoice N/A

Transformer 3 phase/480v - 150 KVA	<div> <b>Component Description:</b> Electrical connection of transmitter heat exchanger WGIQ </div> <div> <b>Amount:</b> \$27,571.99 </div>
	<div> <b>Component Description:</b> The freight for this item is in Other Expenses category for WGIQ </div> <div> <b>Amount:</b> \$27,021.23 </div>
Switchgear - industrial 800 amp	<div> <b>Component Description:</b> Transmitter Electrical installation WGIQ </div> <div> <b>Amount:</b> \$32,273.80 </div>
	<div> <b>Component Description:</b> Electrical installation of transmitter WGIQ </div> <div> <b>Amount:</b> \$33,304.69 </div>
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	<div> <b>Component Description:</b> Solid State Liquid Cooled Transmitter complete with installation and testing </div> <div> <b>Amount:</b> \$582,898.61 </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 TUA-P2-9 /18M-1-S</b>	<b>\$226,980.00</b>	<b>\$126,225.54</b>		<b>\$102,934.99</b>	
Sweep test of existing antenna	\$6,730.00	\$4,977.78	Sweep of interim antenna system	\$0.00	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$17,033.33	N/A	\$0.00	N/A
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	\$7,600.00	\$1,279.44	N/A	\$0.00	N/A
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$102,934.99	N/A	\$102,934.99	N/A

<b>Primary Antenna TFU-29JSC /VP-RP310BNT</b>	<b>\$293,827.90</b>	<b>\$294,219.57</b>		<b>\$225,257.53</b>	
Sweep Line	<b>\$4,977.78</b>	\$4,977.78	Sweep of Existing Line	\$0.00	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,555.56	Sealed bids administered by State of Alabama	\$0.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$14,941.11	Sealed bids administered by the State of Alabama	\$0.00	N/A
Sweep test of existing antenna	\$6,730.00	\$5,075.00	Sweep of new antenna	\$5,075.00	N/A
UHF - High Power, Side Mount, basic slot antenna, 702 kW input, directional,, elliptically or circularly polarized	<b>\$246,670.12</b>	\$246,670.12	Upgrade Primary Elliptical Polarized Antenna	\$220,182.53	N/A
<b>Sub-total</b>	<b>\$520,807.90</b>	<b>\$420,445.11</b>	N/A	<b>\$328,192.52</b>	N/A
<b>Total for all systems</b>	<b>\$2,020,712.53</b>	<b>\$1,667,760.61</b>	N/A	<b>\$1,238,987.63</b>	N/A

## Components

Actual Information Description	File Name
Sweep test of existing antenna	<div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Sweep is included in the Interim Antenna invoice N/A </div> </div> <div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> The price of the sweep is included in Line 2: Interim Antenna System. This closes out this component. N/A </div> </div>
Side mount brackets for high power antennas (if not included in antenna base cost)	<div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Side mount brackets for Interim Antenna \$17,033.33 </div> </div> <div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Side mount Brackets are included in the Interim Antenna invoice N/A </div> </div>
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	<div> <div> <b>Component Description:</b>   <b>Amount:</b> </div> <div> Elbow Complex is included in the Interim Antenna invoice N/A </div> </div>

<p>UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized</p>	<table> <tr> <td data-bbox="702 174 1018 210"><b>Component Description:</b></td><td data-bbox="1145 174 1428 244">Interim antenna for WGIQ</td></tr> <tr> <td data-bbox="702 255 815 291"><b>Amount:</b></td><td data-bbox="1145 255 1294 291">\$102,934.99</td></tr> <tr> <td data-bbox="702 394 1018 430"><b>Component Description:</b></td><td data-bbox="1145 394 1428 546">Interim Antenna, including sweep, brackets and elbow complex.</td></tr> <tr> <td data-bbox="702 557 815 593"><b>Amount:</b></td><td data-bbox="1145 557 1294 593">\$102,934.99</td></tr> </table>	<b>Component Description:</b>	Interim antenna for WGIQ	<b>Amount:</b>	\$102,934.99	<b>Component Description:</b>	Interim Antenna, including sweep, brackets and elbow complex.	<b>Amount:</b>	\$102,934.99
<b>Component Description:</b>	Interim antenna for WGIQ								
<b>Amount:</b>	\$102,934.99								
<b>Component Description:</b>	Interim Antenna, including sweep, brackets and elbow complex.								
<b>Amount:</b>	\$102,934.99								
<p>Sweep Line</p>	<table> <tr> <td data-bbox="702 725 1018 761"><b>Component Description:</b></td><td data-bbox="1145 725 1428 837">Sweep is included in the primary antenna invoice</td></tr> <tr> <td data-bbox="702 848 815 884"><b>Amount:</b></td><td data-bbox="1145 848 1197 884">N/A</td></tr> </table>	<b>Component Description:</b>	Sweep is included in the primary antenna invoice	<b>Amount:</b>	N/A				
<b>Component Description:</b>	Sweep is included in the primary antenna invoice								
<b>Amount:</b>	N/A								
<p>Side mount brackets for high power antennas (if not included in antenna base cost)</p>	<table> <tr> <td data-bbox="702 1016 1018 1052"><b>Component Description:</b></td><td data-bbox="1145 1016 1428 1207">Side mount brackets are included in the primary antenna invoice</td></tr> <tr> <td data-bbox="702 1218 815 1254"><b>Amount:</b></td><td data-bbox="1145 1218 1197 1254">N/A</td></tr> </table>	<b>Component Description:</b>	Side mount brackets are included in the primary antenna invoice	<b>Amount:</b>	N/A				
<b>Component Description:</b>	Side mount brackets are included in the primary antenna invoice								
<b>Amount:</b>	N/A								
<p>Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)</p>	<table> <tr> <td data-bbox="702 1388 1018 1424"><b>Component Description:</b></td><td data-bbox="1145 1388 1428 1541">Elbow complex is included in the primary antenna invoice</td></tr> <tr> <td data-bbox="702 1552 815 1588"><b>Amount:</b></td><td data-bbox="1145 1552 1197 1588">N/A</td></tr> </table>	<b>Component Description:</b>	Elbow complex is included in the primary antenna invoice	<b>Amount:</b>	N/A				
<b>Component Description:</b>	Elbow complex is included in the primary antenna invoice								
<b>Amount:</b>	N/A								



<p>Sweep test of existing antenna</p>	<table> <tr> <td data-bbox="708 174 1015 210"><b>Component Description:</b></td><td data-bbox="1150 174 1377 483">Sweep measurements and report for existing antenna and line. This report confirmed the existing line can be used.</td></tr> <tr> <td data-bbox="708 495 815 530"><b>Amount:</b></td><td data-bbox="1150 495 1267 530">\$5,075.00</td></tr> <tr> <td data-bbox="708 633 1015 669"><b>Component Description:</b></td><td data-bbox="1150 633 1318 669">Added in error</td></tr> <tr> <td data-bbox="708 674 815 710"><b>Amount:</b></td><td data-bbox="1150 674 1198 710">N/A</td></tr> </table>	<b>Component Description:</b>	Sweep measurements and report for existing antenna and line. This report confirmed the existing line can be used.	<b>Amount:</b>	\$5,075.00	<b>Component Description:</b>	Added in error	<b>Amount:</b>	N/A
<b>Component Description:</b>	Sweep measurements and report for existing antenna and line. This report confirmed the existing line can be used.								
<b>Amount:</b>	\$5,075.00								
<b>Component Description:</b>	Added in error								
<b>Amount:</b>	N/A								
<p>UHF - High Power, Side Mount, basic slot antenna, 702 kW input, directional,, elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="708 846 1015 882"><b>Component Description:</b></td><td data-bbox="1150 846 1369 1236">Above cost is for Baseline Antenna with Horizontal polarization, including brackets, sweep, elbow complex and freight. Licensee will pay added V-pol.</td></tr> <tr> <td data-bbox="708 1247 815 1283"><b>Amount:</b></td><td data-bbox="1150 1247 1299 1283">\$220,182.53</td></tr> </table>	<b>Component Description:</b>	Above cost is for Baseline Antenna with Horizontal polarization, including brackets, sweep, elbow complex and freight. Licensee will pay added V-pol.	<b>Amount:</b>	\$220,182.53				
<b>Component Description:</b>	Above cost is for Baseline Antenna with Horizontal polarization, including brackets, sweep, elbow complex and freight. Licensee will pay added V-pol.								
<b>Amount:</b>	\$220,182.53								

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	\$52,540.00	\$38,652.71		\$38,652.71	
Flexible Air Transmission Line - dielectric, 4"	\$52,540.00	\$38,652.71	N/A	\$38,652.71	N/A
Primary Transmission Line	\$0.00	\$0.00		\$0.00	
Sub-total	\$52,540.00	\$38,652.71	N/A	\$38,652.71	N/A
Total for all systems	\$2,020,712.53	\$1,667,760.61	N/A	\$1,238,987.63	N/A

Components

Actual Information	
Description	File Name
Flexible Air Transmission Line - dielectric, 4"	<div>Component Description: New Interim Transmission Line</div> <div>Amount: \$38,652.71</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
Primary Tower TOWER	\$657,800.00	\$338,406.02		\$198,537.61	
Tall Tower (greater than 500')	\$210,500.00	\$139,868.41	N/A	\$0.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$14,000.00	N/A	\$14,000.00	N/A
Major tower reinforcement /modifications	\$421,000.00	\$184,537.61	N/A	\$184,537.61	N/A
Sub-total	\$657,800.00	\$338,406.02	N/A	\$198,537.61	N/A
Total for all systems	\$2,020,712.53	\$1,667,760.61	N/A	\$1,238,987.63	N/A

Components

Actual Information	
Description	File Name
Tall Tower (greater than 500')	Information not provided.

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	<b>Component Description:</b>  <b>Amount:</b>	Geotechnical Investigation \$3,250.00
	<b>Component Description:</b>  <b>Amount:</b>	Mapping, Maintenance & condition assessment and structural analysis \$6,000.00
	<b>Component Description:</b>  <b>Amount:</b>	Structural Reanalysis \$750.00
	<b>Component Description:</b>  <b>Amount:</b>	Structural Design Drawings \$4,000.00
Major tower reinforcement /modifications	<b>Component Description:</b>  <b>Amount:</b>	FCC Tower Modifications WGIQ \$74,920.65
	<b>Component Description:</b>  <b>Amount:</b>	Actual Additional Tower Modifications WGIQ \$109,616.96

## 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>\$91,516.00</b>	<b>\$97,049.50</b>		<b>\$25,064.50</b>	
Additional Field Engineering Service, 18 Days	<i>\$36,000.00</i>	\$36,000.00	N/A	\$5,000.00	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	\$1,500.00	N/A

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,537.00	N/A	\$1,537.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,500.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$2,000.00	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	\$11,212.50	The Estimated Cost includes Form 399 submissions including ongoing Actual Cost invoice prep and submission, and amendments as needed.	\$11,212.50	N/A

Project management of the transition	\$24,806.00	\$23,550.00	N/A	\$1,315.00	N/A
<b>Sub-total</b>	\$91,516.00	\$97,049.50	N/A	\$25,064.50	N/A
<b>Total for all systems</b>	\$2,020,712.53	\$1,667,760.61	N/A	\$1,238,987.63	N/A

## Components

Actual Information	
Description	File Name
Additional Field Engineering Service, 18 Days	<p><b>Component Description:</b> Bid Spec Post Transition WGIQ-TV. Technical specifications for bidding transmitter and antenna systems.</p> <p><b>Amount:</b> \$5,000.00</p>
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.
Prepare request for Special Temporary Authorization	<p><b>Component Description:</b> KGA 250-234 v201215jgv1</p> <p><b>Amount:</b> \$1,500.00</p>

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	<b>Component Description:</b> KGA 250-240 v201215jgv1 <b>Amount:</b> \$1,537.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<b>Component Description:</b> FCC Form FCC Construction Permit application <b>Amount:</b> \$2,500.00
Perform engineering study for new channel assignment and antenna development	<b>Component Description:</b> Engineering Study for New Channel Assignment and antenna development <b>Amount:</b> \$2,000.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Prepare and or review reimbursement form	<b>Component Description:</b> KGA 250-303 v210107jgv1 <b>Amount:</b> \$175.00  <b>Component Description:</b> KGA 250-228 v201214jgv1 <b>Amount:</b> \$2,750.00  <b>Component Description:</b> KGA 250-249 v210107jgv1 <b>Amount:</b> \$1,500.00  <b>Component Description:</b> KGA 250-213 v210107jgv1 <b>Amount:</b> \$300.00



<b>Component Description:</b>	KGA 250-238 v201215jgv1
<b>Amount:</b>	\$530.00

<b>Component Description:</b>	KGA 250-289 v210107jgv1
<b>Amount:</b>	\$350.00

<b>Component Description:</b>	KGA 250-283 v210107jgv1
<b>Amount:</b>	\$550.00

<b>Component Description:</b>	KGA 250-215 v210107jgv1
<b>Amount:</b>	\$300.00

<b>Component Description:</b>	KGA 250-252 v210107jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	Prepare FCC Form 399 for Reimbursement - WGIQ
<b>Amount:</b>	\$2,500.00

<b>Component Description:</b>	KGA 250-247 v201215jgv1
<b>Amount:</b>	\$1,975.00

<b>Component Description:</b>	KGA 250-243 v201215jgv1
<b>Amount:</b>	\$132.50

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Project management of the transition

**Component Description:** KGA 250-226  
v201215jgv1  
**Amount:** \$225.00

**Component Description:** KGA 250-231  
v201215jgv1  
**Amount:** \$150.00

**Component Description:** KGA 250-220  
v201215jgv1  
**Amount:** \$225.00

**Component Description:** KGA 250-210  
v201215jgv1  
**Amount:** \$300.00

**Component Description:** KGA 250-235  
v201215jgv1  
**Amount:** \$150.00

**Component Description:** KGA 250-242  
v201215jgv1  
**Amount:** \$265.00

## Cost Information

### Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$83,550.00</b>	<b>\$74,765.00</b>		<b>\$6,346.65</b>	
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	\$2,000.00	N/A
Develop and air announcement of upcoming channel change	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$35,000.00</i>	\$35,000.00	The freight charges are higher than were anticipated in the planning and estimating stages of the repack.	\$1,581.65	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,765.00	N/A	\$2,765.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$25,000.00</i>	\$25,000.00	N/A	\$0.00	N/A
Equipment Storage	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
<b>Sub-total</b>	<b>\$83,550.00</b>	<b>\$74,765.00</b>	N/A	<b>\$6,346.65</b>	N/A

<b>Total for all systems</b>	\$2,020,712.53	\$1,667,760.61	N/A	\$1,238,987.63	N/A
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## Components

Actual Information	
Description	File Name
MVPD Notification of Channel Change	<p><b>Component Description:</b> KGA 250-232 v201215jgv1</p> <p><b>Amount:</b> \$2,000.00</p>
Develop and air announcement of upcoming channel change	Information not provided.

Equipment Delivery and  
Handling Charges

**Component Description:** Transmitter Heat  
Exchanger  
Electrical delivery  
**Amount:** \$550.76

**Component Description:** Transmitter  
Electrical delivery  
**Amount:** \$1,030.89

**Component Description:** Delivery is included  
in the Transmitter  
invoice  
**Amount:** N/A

**Component Description:** This is the total  
cost of shipping the  
transmitter, main  
antenna and  
interim antenna  
and line. Shipping  
for electrical is  
included in the cost  
of the electrical  
component. See  
WGIQ Supporting  
Documentation for  
invoice 202775  
attached.  
**Amount:** \$25,002.77

**Component Description:** Delivery is included  
in the Interim  
Transmission Line  
invoice  
**Amount:** N/A

**Component Description:** Delivery is included  
in the Primary  
Antenna invoice  
**Amount:** N/A

DTV Medical Facility Notification	<div> <div><b>Component Description:</b></div> <div>KGA 250-233 v201215jgv1</div> <div><b>Amount:</b></div> <div>\$2,765.00</div> </div>
Disposal Costs (for equipment and other waste, net of any salvage value)	<div> <div><b>Component Description:</b></div> <div>Disposal is included in the Transmitter invoice</div> <div><b>Amount:</b></div> <div>N/A</div> </div> <div> <div><b>Component Description:</b></div> <div>The price of Disposal associated with the transmitter project is included Line 3: Main/Primary Transmitter. See WGIQ Supporting Documentation for invoice 202775 attached.</div> <div><b>Amount:</b></div> <div>N/A</div> </div>
Equipment Storage	Information not provided.

<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$2,020,712.53	\$1,667,760.61
			\$1,238,987.63

<b>Reimbursement Status</b>	<b>Question</b>	<b>Response</b>
	The facility has ceased operating on its pre-auction channel.	Yes
	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>Jeffrey C Gehman</b>  <i>Engineering Associate</i></p> <p>01/12/2021</p>

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>Jeffrey C Gehman</b>  <i>Engineering Associate</i></p> <p>01/12/2021</p>

## Attachments