



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **23935** | Service: **DTV** | Call **WMUM-TV** | Channel:  
ID: | Sign:  
**9 (High VHF)** | File **0000027593**  
Number:  
FRN: **0001844976** | Date **04/16**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION</b> Doing Business As: GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION	Adam Woodlief 260 14TH ST NW ATLANTA, GA 30318 United States	+1 (404) 685- 2410	awoodlief@gpb. org	Government Entity

## 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>ConsultingEngineer</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		New transmitter and Main antenna using existing transmission line. Mapping, analysis, design of pre-EIA-222-G tower, and possible tower modifications. Interim antenna and line for use during Main antenna replacement and duration of assigned phase.

**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	PTCD20P2
	Year	2008
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	8 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	HPTV-PRLX-V11
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	15.9 kW
	Justification for New Transmitter	Manufacturer of existing transmitter advises that the existing transmitter cannot be re-tuned to the assigned channel. See Attachment.

**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	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches

	Length	100.0 feet
	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>Standby Exciter and Switch</b>	Standby Exciter with Automatic Change Over Switch
<b>Additional Interior RF System</b>	Interior RF System Existing Transmitter to Interim Transmission line

**Antennas**

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	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) .....	28.0 kW

Manufacturer	
Model	TLS-V8
Year	2008



## 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?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	31.0 kW
	Manufacturer	
	Model	JSM-10/9 SEO-V-R

Year	2018
Justification for New Antenna	The existing primary antenna is a single channel slotted coaxial which cannot accommodate the assigned channel.

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	
	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 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?	Yes
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

<b>Primary Antenna</b>	<b>Other Antenna Cost Not Listed</b> Information not provided.
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**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
<b>New Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	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) .....	28.0 kW
	Manufacturer	
	Model	JSM-8 /9SHO-V
	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?	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?	Yes
<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	ERI
	Type	Flexible Air
	Diameter	3 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1120 feet per run

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Sweep	Verify line performance on new channel

Interim Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Flexible Air
	Diameter	3 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	865 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)	Yes
	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	1018798
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	32° 28' 12.2" N-
	Longitude (NAD83)	083° 15' 18.0" W-
	Overall Structure Height	1168.95 feet
	Support Structure Height	1109.89 feet
	Ground Elevation Above Mean Sea Level (AMSL)	398.95 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION
Date Constructed	03/02/2016

**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
43212	WMAB-FM	FM

#### Other Types of Users

Users
WMAB ICR

#### 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

<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	60
	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	15
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**

Name	Description
<b>Other Legal Services</b>	Legal services not already included in a pre-established OPS section.
<b>Other Engineering Services</b>	Engineering services not already included in a pre-established OPS section.

## 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



**Other  
Expenses**

**Other Expenses Not Listed**

Name		Description
Electrical Design		Electrical Design
System Design and Site Survey		System Design and Site Survey
Electrical Work		Electrical Work

## 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 HPTV-PRLX-V11</b>	<b>\$483,430.00</b>	<b>\$479,980.00</b>		<b>\$314,480.00</b>	
Standby Exciter and Switch	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
High VHF - Liquid Cooled Solid State Transmitter 15.9 kW	<i>\$314,480.00</i>	\$314,480.00	This transmitter is an Upgrade. See attached uploaded file "Comark S10458-1 v190911jgv1.pdf"	\$314,480.00	N/A
Additional Interior RF System	<i>\$75,000.00</i>	\$75,000.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
<b>Sub-total</b>	<b>\$483,430.00</b>	<b>\$479,980.00</b>	N/A	<b>\$314,480.00</b>	N/A

<b>Total for all systems</b>	\$1,788,727.00	\$1,782,669.00	N/A	\$647,523.30	N/A
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## Components

<b>Actual Information</b>	
<b>Description</b>	<b>File Name</b>
Standby Exciter and Switch	Information not provided.
Transformer 3 phase/480v - 150 KVA	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
High VHF - Liquid Cooled Solid State Transmitter 15.9 kW	<b>Component Description:</b> Comark S10458-1 v190912jgv2 <b>Amount:</b> \$314,480.00
Additional Interior RF System	Information not provided.
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.

## Cost Information

### Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Interim Antenna JSM-8 /9SHO-V</b>	<b>\$170,880.00</b>	<b>\$169,140.00</b>		<b>\$70,752.00</b>	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	N/A	N/A
High VHF - High Power Side Mount One Station horizontally polarized	<b><i>\$135,740.00</i></b>	\$135,740.00	See attached / uploaded PDF file titled "Jampro 1 v200416jgv1.pdf"	\$70,752.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A

<b>Primary Antenna JSM-10/9 SEO-V-R</b>	<b>\$217,970.00</b>	<b>\$216,230.00</b>		<b>\$68,707.80</b>	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	N/A	N/A
High VHF - High Power Side Mount One Station elliptically or circularly polarized	<b>\$182,830.00</b>	\$182,830.00	See attached / uploaded PDF file titled "Jampro 1 v200416jgv1.pdf"	\$68,707.80	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
<b>Sub-total</b>	<b>\$388,850.00</b>	<b>\$385,370.00</b>	<b>N/A</b>	<b>\$139,459.80</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$1,788,727.00</b>	<b>\$1,782,669.00</b>	<b>N/A</b>	<b>\$647,523.30</b>	<b>N/A</b>

## Components

Actual Information	
Description	File Name
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
High VHF - High Power Side Mount One Station horizontally polarized	<b>Component Description:</b> Jampro 1 v200416jgv1 <b>Amount:</b> \$70,752.00
Sweep test of existing antenna	Information not provided.
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
High VHF - High Power Side Mount One Station elliptically or circularly polarized	<b>Component Description:</b> Jampro 1 v200416jgv1 <b>Amount:</b> \$68,707.80
Sweep test of existing antenna	Information not provided.

Cost  
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$51,035.00	\$47,402.00		\$47,402.00	
Flexible Air Transmission Line - dielectric, 3"	\$51,035.00	\$47,402.00	See attached / uploaded PDF file titled "Jampro 1 v200416jgv1.pdf"	\$47,402.00	N/A
Primary Transmission Line	\$6,400.00	\$6,400.00		\$0.00	
Sweep	\$6,400.00	\$6,400.00	N/A	N/A	N/A
Sub-total	\$57,435.00	\$53,802.00	N/A	\$47,402.00	N/A
Total for all systems	\$1,788,727.00	\$1,782,669.00	N/A	\$647,523.30	N/A

Components

Actual Information	
Description	File Name
Flexible Air Transmission Line - dielectric, 3"	<div>Component Description: Jampro 1 v200416jgv1</div> <div>Amount: \$47,402.00</div>
Sweep	Information not provided.

## 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</b>	<b>\$657,800.00</b>	<b>\$662,800.00</b>		<b>\$47,200.00</b>	
<b>GTOWER</b>					
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	N/A	N/A
Tall Tower (greater than 500')	\$210,500.00	\$215,600.00	See attached / uploaded PDF file titled "Jampro 1 v200416jgv1.pdf"	N/A	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$47,200.00	See attached / uploaded PDF files titled "TEP 369159 v200305jgv1.pdf", "TEP 388694 v200305jgv1.pdf", "TEP 391347 v200305jgv1.pdf", "TEP 391368 v200305jgv1.pdf" and "TEP 423209 v200415jgv1.pdf"	\$47,200.00	N/A
<b>Sub-total</b>	<b>\$657,800.00</b>	<b>\$662,800.00</b>	N/A	<b>\$47,200.00</b>	N/A



<b>Total for all systems</b>	\$1,788,727.00	\$1,782,669.00	N/A	\$647,523.30	N/A
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## Components

<b>Actual Information</b>	
<b>Description</b>	<b>File Name</b>
Major tower reinforcement /modifications	Information not provided.
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> TEP 391368 v200305jgv1 <b>Amount:</b> \$4,200.00
	<b>Component Description:</b> TEP 388694 v200305jgv1 <b>Amount:</b> \$10,500.00
	<b>Component Description:</b> TEP 391347 v200305jgv1 <b>Amount:</b> \$3,500.00
	<b>Component Description:</b> TEP 423209 v200415jgv1 <b>Amount:</b> \$19,500.00
	<b>Component Description:</b> TEP 369159 v200305jgv1 <b>Amount:</b> \$9,500.00

## 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>\$100,190.00</b>	<b>\$100,245.00</b>		<b>\$26,509.50</b>	
Other Engineering Services	<i>\$20,000.00</i>	\$20,000.00	Fewer Project Management tasks are required & Other Engineering Services "OES" are required, therefore the PM total has been reduced and a new OES category has been created and funded with the money removed from PM.	\$11,550.00	N/A
Other Legal Services	<i>\$10,000.00</i>	\$10,000.00	N/A	\$1,232.00	N/A
Additional Field Engineering Service, 15 Days	<i>\$30,000.00</i>	\$30,000.00	N/A	N/A	N/A

Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$1,732.50	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,000.00	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,500.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$4,995.00	The cost estimate includes the initial 399 amendment, anticipated subsequent 399 amendments, and ongoing Actual Cost invoice prep and submission by KGA.	\$4,995.00	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

Project management of the transition	\$9,480.00	\$9,000.00	Fewer Project Management tasks are required & Other Engineering Services "OES" are required, therefore the PM total has been reduced and a new OES category has been created and funded with the money removed from PM.	\$1,500.00	N/A
<b>Sub-total</b>	\$100,190.00	\$100,245.00	N/A	\$26,509.50	N/A
<b>Total for all systems</b>	\$1,788,727.00	\$1,782,669.00	N/A	\$647,523.30	N/A

## Components

Actual Information	
Description	File Name

Other Engineering Services	<b>Component Description:</b>		KGA 554-612 v190620pmv1
	<b>Amount:</b>		\$700.00
	<b>Component Description:</b>		KGA 554-698 v200218jgv1
	<b>Amount:</b>		\$2,075.00
	<b>Component Description:</b>		KGA 554-668 v200218jgv1
	<b>Amount:</b>		\$1,275.00
	<b>Component Description:</b>		KGA 554-642 v190702pmv1
	<b>Amount:</b>		\$1,450.00
Other Legal Services	<b>Component Description:</b>		KGA 554-677 v200218jgv1
	<b>Amount:</b>		\$1,225.00
	<b>Component Description:</b>		KGA 554-629 v190620pmv1
	<b>Amount:</b>		\$2,525.00
	<b>Component Description:</b>		KGA 554-611 v190620pmv1
	<b>Amount:</b>		\$800.00
	<b>Component Description:</b>		KGA 554-725 v200218jgv1
	<b>Amount:</b>		\$1,500.00

<b>Component Description:</b>	WMUM amount. Refer to Jan-April GMP matter summary. Refer to letter and attachments uploaded from GPB 8.2.18
<b>Amount:</b>	\$38.50

<b>Component Description:</b>	WMUM amount. Refer to GMP matter summary May 2018. Refer to letter and attachments uploaded from GPB 8.2.18
<b>Amount:</b>	\$154.00

<b>Component Description:</b>	GMP 31513 v200218jgv1
<b>Amount:</b>	\$385.00

<b>Component Description:</b>	GMP 31276 v200218jgv1
<b>Amount:</b>	\$77.00

<b>Component Description:</b>	WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice.
<b>Amount:</b>	\$38.50

<b>Component Description:</b>	GMP 30379 v190702pmv1
<b>Amount:</b>	\$115.50

	<b>Component Description:</b>  <b>Amount:</b>	WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice.  \$115.50
	<b>Component Description:</b>  <b>Amount:</b>	Repack Prep legal Invoices  \$77.00
	<b>Component Description:</b>  <b>Amount:</b>	GMP 30912 v200218jgv1  \$192.50
	<b>Component Description:</b>  <b>Amount:</b>	WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice.  \$38.50
Additional Field Engineering Service, 15 Days	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	



<p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p>	<table> <tr> <td data-bbox="692 100 1114 515"> <p><b>Component Description:</b></p> </td><td data-bbox="1114 100 1426 515"> <p>WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice. Refer to letter and attachments uploaded by GPB 8.2.18</p> </td></tr> <tr> <td data-bbox="692 515 1114 627"> <p><b>Amount:</b></p> </td><td data-bbox="1114 515 1426 627"> <p>\$1,347.50</p> </td></tr> <tr> <td data-bbox="692 627 1114 1008"> <p><b>Component Description:</b></p> </td><td data-bbox="1114 627 1426 1008"> <p>WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice. Refer to letter and attachments uploaded by GPB 8.2.18</p> </td></tr> <tr> <td data-bbox="692 1008 1114 1120"> <p><b>Amount:</b></p> </td><td data-bbox="1114 1008 1426 1120"> <p>\$385.00</p> </td></tr> </table>	<p><b>Component Description:</b></p>	<p>WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice. Refer to letter and attachments uploaded by GPB 8.2.18</p>	<p><b>Amount:</b></p>	<p>\$1,347.50</p>	<p><b>Component Description:</b></p>	<p>WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice. Refer to letter and attachments uploaded by GPB 8.2.18</p>	<p><b>Amount:</b></p>	<p>\$385.00</p>
<p><b>Component Description:</b></p>	<p>WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice. Refer to letter and attachments uploaded by GPB 8.2.18</p>								
<p><b>Amount:</b></p>	<p>\$1,347.50</p>								
<p><b>Component Description:</b></p>	<p>WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice. Refer to letter and attachments uploaded by GPB 8.2.18</p>								
<p><b>Amount:</b></p>	<p>\$385.00</p>								
<p>Prepare request for Special Temporary Authorization</p>	<p>Information not provided.</p>								
<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>								
<p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p>	<table> <tr> <td data-bbox="692 1467 1114 1736"> <p><b>Component Description:</b></p> </td><td data-bbox="1114 1467 1426 1736"> <p>Prepare engineering section of FCC Form 2100 (main) construction permit</p> </td></tr> <tr> <td data-bbox="692 1736 1114 1836"> <p><b>Amount:</b></p> </td><td data-bbox="1114 1736 1426 1836"> <p>\$2,000.00</p> </td></tr> </table>	<p><b>Component Description:</b></p>	<p>Prepare engineering section of FCC Form 2100 (main) construction permit</p>	<p><b>Amount:</b></p>	<p>\$2,000.00</p>				
<p><b>Component Description:</b></p>	<p>Prepare engineering section of FCC Form 2100 (main) construction permit</p>								
<p><b>Amount:</b></p>	<p>\$2,000.00</p>								

Perform engineering study for new channel assignment and antenna development	<b>Component Description:</b>  <b>Amount:</b>	Perform engineering study for new channel assignment \$3,500.00
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Prepare and or review reimbursement form	<b>Component Description:</b> KGA 554-784 v200415jgv1 <b>Amount:</b> \$850.00
	<b>Component Description:</b> KGA 554-707 v200218jgv1 <b>Amount:</b> \$450.00
	<b>Component Description:</b> KGA 554-623 v190620pmv1 <b>Amount:</b> \$145.00
	<b>Component Description:</b> KGA 554-610 v190620pmv1 <b>Amount:</b> \$275.00
	<b>Component Description:</b> KGA 554-629 v190620pmv1 <b>Amount:</b> \$50.00
	<b>Component Description:</b> KGA 554-682 v200218jgv1 <b>Amount:</b> \$675.00
	<b>Component Description:</b> Prepare and review reimbursement form <b>Amount:</b> \$2,500.00
	<b>Component Description:</b> KGA 554-648 v190702pmv1 <b>Amount:</b> \$50.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.

Project management of  
the transition

**Component Description:** KGA 554-598  
v190620pmv1b  
**Amount:** \$150.00

**Component Description:** Form 387 2Q18  
**Amount:** \$150.00

**Component Description:** KGA 554-662  
v200218jgv1  
**Amount:** \$150.00

**Component Description:** Project  
management Bob  
Gehman  
**Amount:** \$300.00

**Component Description:** Form 387 4Q18  
**Amount:** \$150.00

**Component Description:** KGA inv #554-554  
Form 387 2018 Q3  
UL20190426jgv1  
**Amount:** \$150.00

**Component Description:** Project  
management Bob  
Gehman  
**Amount:** \$225.00

**Component Description:** Project  
management Bob  
Gehman  
**Amount:** \$225.00

## 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>\$101,022.00</b>	<b>\$100,472.00</b>		<b>\$72,472.00</b>	
Electrical Work	<i>\$54,212.00</i>	\$54,212.00	See attached / uploaded PDF file titled "All-State 3712 v200415jgv1.pdf"	\$54,212.00	N/A
System Design and Site Survey	<i>\$15,300.00</i>	\$15,300.00	N/A	\$15,300.00	N/A
Electrical Design	<i>\$2,960.00</i>	\$2,960.00	See attached / uploaded PDF file titled "NBP Eng 18187 v200303jgv1.pdf"	\$2,960.00	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Equipment Storage	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A

Equipment Delivery and Handling Charges	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$5,000.00	\$5,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$101,022.00	\$100,472.00	N/A	\$72,472.00	N/A
<b>Total for all systems</b>	\$1,788,727.00	\$1,782,669.00	N/A	\$647,523.30	N/A

## Components

Actual Information	
Description	File Name
Electrical Work	<p><b>Component Description:</b> All-State 3712 v200415jgv1</p> <p><b>Amount:</b> \$54,212.00</p>
System Design and Site Survey	<p><b>Component Description:</b> Comark 12830 v190911jgv1</p> <p><b>Amount:</b> \$15,300.00</p>
Electrical Design	<p><b>Component Description:</b> NBP Eng 18187 v200318jgv2</p> <p><b>Amount:</b> \$2,960.00</p>
MVPD Notification of Channel Change	Information not provided.

Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
DTV Medical Facility Notification	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>	\$1,788,727.00	\$1,782,669.00	\$647,523.30

<b>Reimbursement Status</b>	<b>Question</b>	<b>Response</b>
	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>Jeffrey C Gehman</b> <i>Engineering Associate</i></p> <p>04/16/2020</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>Jeffrey C Gehman</b>  <i>Engineering Associate</i></p> <p>04/16/2020</p>

## Attachments