Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **23935** | Service: **DTV** | Call Sign: **WMUM-TV** | Channel: **9 (High VHF)** | File Number: **0000027593** | FRN: **0001844976** | Date Submitted: **04/05/2021**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION	260 14TH ST NW ATLANTA, GA 30318 United States	+1 (404) 685-2400	elaprade@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
Robert Gehman *ConsultingEngineer* *Kessler and Gehman Associates, Inc.*	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
Existing Transmitter Description	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
Existing Transmitter Manufacturer and Type	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
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	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
Standby Exciter and Switch	Standby Exciter with Automatic Change Over Switch
Additional Interior RF System	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
Existing Antenna Description	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
Existing Antenna Manufacturer and Type	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
Combiner for Shared Antenna	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
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary Antenna

Other Antenna Cost Not Listed

Information not provided.

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?	No
	Is antenna directional?	No
	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	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.

Interim Antenna

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	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.

Other Transmission Line Expenses Not Listed

Interim 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

Helicopter Services Required	Are helicopter services required?	No

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Temporary load letter	Temporary load letter

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	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.
Outside RF consulting Engineering Services	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
Attorney and Other Outside Consulting Services	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
RF Field Engineering Services	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
Other Legal Services	Legal services not already included in a pre-established OPS section.
Other Engineering Services	Engineering services not already included in a pre-established OPS section.

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	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
Permit and Filing Costs	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
Other Miscellaneous Expenses	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
Primary Transmitter HPTV-PRLX-V11	**$483,430.00**	**$479,980.00**		**$314,480.00**	
Additional Interior RF System	***$75,000.00***	$75,000.00	N/A	N/A	N/A
Standby Exciter and Switch	***$25,000.00***	$25,000.00	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
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	***$314,480.00***	$314,480.00	This transmitter is an Upgrade. See attached uploaded file "Comark S10458-1 v190911jgv1.pdf"	$314,480.00	N/A
Transformer 3 phase /480v - 150 KVA	$25,550.00	$24,300.00	N/A	N/A	N/A
Sub-total	$483,430.00	$479,980.00	N/A	$314,480.00	N/A

Total for all systems	$1,797,434.50	$1,804,463.50	N/A	$1,408,946.00	N/A

Components

Actual Information Description	File Name	
Additional Interior RF System	Information not provided.	
Standby Exciter and Switch	Information not provided.	
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	
High VHF - Liquid Cooled Solid State Transmitter 15.9 kW	**Component Description:** **Amount:**	Comark S10458-1 v190912jgv2 $314,480.00
Transformer 3 phase/480v - 150 KVA	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
Interim Antenna JSM-8 /9SHO-V	**$170,880.00**	**$169,140.00**		**$135,740.00**	
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
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	N/A	N/A
High VHF - High Power Side Mount One Station horizontally polarized	***$135,740.00***	$135,740.00	See attached / uploaded PDF file titled "Jampro 1 v200416jgv1.pdf"	$135,740.00	N/A

Primary Antenna JSM-10/9 SEO-V-R	**$215,470.00**	**$213,730.00**		**$180,330.00**	
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
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	N/A	N/A
High VHF - High Power Side Mount One Station elliptically or circularly polarized	***$180,330.00***	$180,330.00	See attached / uploaded PDF file titled "Jampro 4 v210203jgv1.pdf"	$180,330.00	N/A
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
Sub-total	$386,350.00	$382,870.00	N/A	$316,070.00	N/A
Total for all systems	$1,797,434.50	$1,804,463.50	N/A	$1,408,946.00	N/A

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.
Sweep test of existing antenna	Information not provided.
High VHF - High Power Side Mount One Station horizontally polarized	**Component Description:** Jampro 4 v210203jgv1 **Amount:** $10,100.00 **Component Description:** Jampro 1 v201204jgv5 **Amount:** $70,752.00 **Component Description:** Jampro 2 v201230jgv1 **Amount:** $49,258.00 **Component Description:** Jampro 3 v201230jgv1 **Amount:** $5,630.00
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Sweep test of existing antenna	Information not provided.

High VHF - High Power Side Mount One Station elliptically or circularly polarized	**Component Description:** **Amount:**	Jampro 2 v201230jgv1 $64,981.50
	Component Description: **Amount:**	Jampro 4 v210203jgv1 $19,330.80
	Component Description: **Amount:**	Jampro 1 v201204jgv5 $67,657.80
	Component Description: **Amount:**	Jampro 3 v201230jgv1 $17,719.90
	Component Description: **Amount:**	Jampro 4 v210203jgv1 $10,640.00
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	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	$1,797,434.50	$1,804,463.50	N/A	$1,408,946.00	N/A

Components

Actual Information Description	File Name
Flexible Air Transmission Line - dielectric, 3"	**Component Description:** Jampro 1 v201204jgv5 **Amount:** $47,402.00
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
Primary Tower GTOWER	**$659,300.00**	**$665,500.00**		**$575,000.00**	
Major tower reinforcement /modifications	$421,000.00	$400,000.00	N/A	$309,500.00	N/A
Tall Tower (greater than 500')	$210,500.00	$215,600.00	See attached / uploaded PDF file titled "Jampro 1 v200416jgv1.pdf"	$215,600.00	N/A
Temporary load letter	*$1,500.00*	$1,500.00	See attached / uploaded PDF file titled "TEP 443228 v200924jgv1.pdf"	$1,500.00	N/A

Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	$26,300.00	$48,400.00	See attached / uploaded PDF files titled "TEP 369159 v200305jgv1.pdf", "TEP 388694 v200305jgv1.pdf", "TEP 391347 v200305jgv1.pdf", "TEP 391368 v200305jgv1.pdf", "TEP 423209 v200415jgv1.pdf" and "Haralson 180665 v210330jgv1.pdf"	$48,400.00	N/A
Sub-total	$659,300.00	$665,500.00	N/A	$575,000.00	N/A
Total for all systems	$1,797,434.50	$1,804,463.50	N/A	$1,408,946.00	N/A

Components

Actual Information Description	File Name	
Major tower reinforcement /modifications	**Component Description:** **Amount:**	TEP 419765 v200615jgv1 $90,000.00
	Component Description: **Amount:**	TEP 463525 v201208jgv1 $20,000.00

Component Description: TEP 466766 v201207jgv1
Amount: $48,000.00

Component Description: TEP 458571 v201207jgv1
Amount: $3,500.00

Component Description: TEP 470990 v201207jgv1
Amount: $3,500.00

Component Description: TEP 466763 v201207jgv1
Amount: $48,000.00

Component Description: TEP 466765 v201207jgv1
Amount: $48,000.00

Component Description: TEP 466764 v201207jgv1
Amount: $48,000.00

Component Description: TEP 458573 v201207jgv1
Amount: $27,500.00

Component Description: TEP 458572 v201207jgv1
Amount: $48,000.00

Component Description: TEP 466767 v201207jgv1
Amount: $1,500.00

	Component Description:	TEP 419764 v200615jgv1
	Amount:	$20,000.00
	Component Description:	TEP 463564 v201208jgv1
	Amount:	$13,500.00
Tall Tower (greater than 500')	**Component Description:**	Jampro 2 v201230jgv1
	Amount:	$53,900.00
	Component Description:	Jampro 4 v210203jgv1
	Amount:	$53,900.00
	Component Description:	Jampro 4 v210203jgv1
	Amount:	$53,900.00
	Component Description:	Jampro 2 v201230jgv1
	Amount:	$53,900.00
Temporary load letter	**Component Description:**	TEP 443228 v200924jgv1
	Amount:	$1,500.00

Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	**Component Description:**	Haralson 180665 v210330jgv1
	Amount:	$1,200.00
	Component Description:	TEP 391368 v200305jgv1
	Amount:	$4,200.00
	Component Description:	TEP 423209 v200415jgv1
	Amount:	$19,500.00
	Component Description:	TEP 388694 v200305jgv1
	Amount:	$10,500.00
	Component Description:	TEP 391347 v200305jgv1
	Amount:	$3,500.00
	Component Description:	TEP 369159 v200305jgv1
	Amount:	$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 C Justifica
Outside Professional Services	**$104,301.50**	**$123,699.50**		**$71,632.00**	
Other Engineering Services	***$22,600.00***	$22,600.00	The Estimated Cost includes other engineering services such as RF calculations, evolving transition plan calculations, bid spec prep / distribution / award recommendation / etc and discussion, etc.	$22,600.00	N/A
Other Legal Services	***$11,511.50***	$11,511.50	Other Legal Services related to the station's DTV Repack	$11,511.50	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	$1,553.00	See attached / uploaded PDF file titled "KGA 554-839 v201207jgv1.pdf"	$1,553.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,500.00	N/A	$750.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$3,975.00	See attached / uploaded PDF files titled "KG 554-482 WMUM-R.pdf" and "KGA 554-874 v201207jgv1.pdf"	$3,975.00	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
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	$23,310.00	The Estimated Cost includes Form 399 submissions including ongoing Actual Cost invoice prep and submission, and amendments as needed.	$23,310.00	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.	$2,700.00	N/A
Additional Field Engineering Service, 15 Days	***$30,000.00***	$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
Sub-total	$104,301.50	$123,699.50	N/A	$71,632.00	N/A
Total for all systems	$1,797,434.50	$1,804,463.50	N/A	$1,408,946.00	N/A

Components

Actual Information Description	File Name	
Other Engineering Services	**Component Description:**	KGA 554-970 v210405jgv1
	Amount:	$150.00

Component Description: KGA 554-966 v210405jgv1
Amount: $700.00

Component Description: KGA 554-945 v210405jgv1
Amount: $75.00

Component Description: KGA 554-918 v210405jgv1
Amount: $1,025.00

Component Description: KGA 554-907 v210405jgv1
Amount: $2,625.00

Component Description: KGA 554-611 v190620pmv1
Amount: $800.00

Component Description: KGA 554-885 v201204jgv1
Amount: $1,000.00

Component Description: KGA 554-629 v190620pmv1
Amount: $2,525.00

Component Description: KGA 554-612 v190620pmv1
Amount: $700.00

Component Description: KGA 554-698 v200218jgv1
Amount: $2,075.00

Component Description:	KGA 554-642 v190702pmv1
Amount:	$1,450.00
Component Description:	KGA 554-822 v200924jgv1
Amount:	$800.00
Component Description:	KGA 554-859 v201204jgv1
Amount:	$250.00
Component Description:	KGA 554-778 v200610jgv1
Amount:	$900.00
Component Description:	KGA 554-814 v200924jgv1
Amount:	$450.00
Component Description:	KGA 554-725 v200218jgv1
Amount:	$1,500.00
Component Description:	KGA 554-848 v201228jgv2
Amount:	$1,625.00
Component Description:	KGA 554-668 v200218jgv1
Amount:	$1,275.00
Component Description:	KGA 554-873 v201204jgv1
Amount:	$1,450.00

	Component Description:	KGA 554-677 v200218jgv1
	Amount:	$1,225.00
Other Legal Services		
	Component Description:	GMP 33428 v210405jgv1
	Amount:	$385.00
	Component Description:	GMP 33255 v210405jgv1
	Amount:	$192.50
	Component Description:	GMP 30379 v190702pmv1
	Amount:	$115.50
	Component Description:	GMP 32080 v200618pmv1
	Amount:	$192.50
	Component Description:	GMP 32894 v201204jgv1
	Amount:	$4,851.00
	Component Description:	WMUM amount. Refer to Jan-April GMP matter summary. Refer to letter and attachments uploaded from GPB 8.2.18
	Amount:	$38.50
	Component Description:	GMP 31276 v200218jgv1
	Amount:	$77.00

Component Description:	GMP 31513 v200218jgv1
Amount:	$385.00
Component Description:	WMUM amount. Refer to GMP matter summary May 2018. Refer to letter and attachments uploaded from GPB 8.2.18
Amount:	$154.00
Component Description:	GMP 32753 v201204jgv1
Amount:	$1,848.00
Component Description:	GMP 32601 v201204jgv1
Amount:	$77.00
Component Description:	GMP 32246 v200618pmv1
Amount:	$231.00
Component Description:	WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice.
Amount:	$115.50
Component Description:	GMP 32420 v200618pmv1
Amount:	$1,963.50

	Component Description: GMP 33050 v201204jgv1 **Amount:** $539.00 **Component Description:** GMP 30912 v200218jgv1 **Amount:** $192.50 **Component Description:** Repack Prep legal Invoices **Amount:** $77.00 **Component Description:** WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice. **Amount:** $38.50 **Component Description:** WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice. **Amount:** $38.50
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	**Component Description:** **Amount:** **Component Description:** **Amount:**	WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice. Refer to letter and attachments uploaded by GPB 8.2.18 $1,347.50 WMUM amount. Refer to GMP master summary invoice WMUM with attached invoice. Refer to letter and attachments uploaded by GPB 8.2.18 $385.00
Prepare request for Special Temporary Authorization	**Component Description:** **Amount:**	KGA 554-839 v201207jgv1 $1,553.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	**Component Description:** **Amount:**	KGA 554-895 v201207jgv1 $750.00

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:**	Prepare engineering section of FCC Form 2100 (main) construction permit $2,000.00
	Component Description: **Amount:**	KGA 554-874 v201207jgv1 $1,975.00
Perform engineering study for new channel assignment and antenna development	**Component Description:** **Amount:**	Perform engineering study for new channel assignment $3,500.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	**Component Description:** **Amount:**	KGA 554-929 v210405jgv1 $1,425.00
	Component Description: **Amount:**	KGA 554-951 v210405jgv1 $575.00
	Component Description: **Amount:**	KGA 554-958 v210405jgv1 $2,075.00
	Component Description: **Amount:**	KGA 554-935 v210405jgv1 $3,925.00

Component Description:	KGA 554-923 v210405jgv1
Amount:	$875.00
Component Description:	KGA 554-875 v201204jgv1
Amount:	$200.00
Component Description:	KGA 554-656 v200610jgv1
Amount:	$410.00
Component Description:	KGA 554-784 v200415jgv1
Amount:	$850.00
Component Description:	Prepare and review reimbursement form
Amount:	$2,500.00
Component Description:	KGA 554-648 v190702pmv1
Amount:	$50.00
Component Description:	KGA 554-799 v200618pmv1
Amount:	$2,500.00
Component Description:	KGA 554-610 v190620pmv1
Amount:	$275.00
Component Description:	KGA 554-784 v200618pmv1
Amount:	$850.00

	Component Description:	KGA 554-623 v190620pmv1
	Amount:	$145.00
	Component Description:	KGA 554-682 v200218jgv1
	Amount:	$675.00
	Component Description:	KGA 554-768 v200610jgv1
	Amount:	$475.00
	Component Description:	KGA 554-853 v201204jgv1
	Amount:	$4,230.00
	Component Description:	KGA 554-707 v200218jgv1
	Amount:	$450.00
	Component Description:	KGA 554-892 v201215jgv2
	Amount:	$1,450.00
	Component Description:	KGA 554-808 v200924jgv1
	Amount:	$175.00
	Component Description:	KGA 554-629 v190620pmv1
	Amount:	$50.00
Project management of the transition	**Component Description:**	Project management Bob Gehman
	Amount:	$300.00

Component Description:	KGA 554-898 v201207jgv1
Amount:	$150.00
Component Description:	Project management Bob Gehman
Amount:	$225.00
Component Description:	KGA 554-764 v200610jgv1
Amount:	$150.00
Component Description:	KGA 554-711 v200618pmv1
Amount:	$150.00
Component Description:	KGA 554-789 v200618pmv1
Amount:	$150.00
Component Description:	Form 387 4Q18
Amount:	$150.00
Component Description:	KGA 554-749 v200610jgv1
Amount:	$150.00
Component Description:	KGA 554-598 v190620pmv1b
Amount:	$150.00
Component Description:	KGA 554-899 v201207jgv1
Amount:	$150.00

	Component Description: KGA 554-866 v201207jgv1 **Amount:** $150.00 **Component Description:** KGA inv #554-554 Form 387 2018 Q3 UL20190426jgv1 **Amount:** $150.00 **Component Description:** KGA 554-863 v201207jgv1 **Amount:** $150.00 **Component Description:** Form 387 2Q18 **Amount:** $150.00 **Component Description:** Project management Bob Gehman **Amount:** $225.00 **Component Description:** KGA 554-662 v200218jgv1 **Amount:** $150.00
Additional Field Engineering Service, 15 Days	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	**$106,618.00**	**$98,612.00**		**$84,362.00**	
Electrical Work	***$54,212.00***	$54,212.00	See attached / uploaded PDF file titled "All-State 3712 v200415jgv1.pdf"	$54,212.00	N/A
System Design and Site Survey	***$15,300.00***	$15,300.00	N/A	$15,300.00	N/A
Electrical Design	***$8,660.00***	$8,660.00	See attached / uploaded PDF files titled "NBP Eng 18187 v200303jgv1.pdf" and "NBP Eng 18371 v210301jgv1.pdf"	$8,660.00	N/A
MVPD Notification of Channel Change	***$1,896.00***	$1,896.00	N/A	$1,896.00	N/A
Develop and air announcement of upcoming channel change	***$0.00***	$0.00	N/A	N/A	N/A

Equipment Storage	***$5,000.00***	$5,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	***$5,000.00***	$5,000.00	N/A	$750.00	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	$3,544.00	N/A	$3,544.00	N/A
Sub-total	$106,618.00	$98,612.00	N/A	$84,362.00	N/A
Total for all systems	$1,797,434.50	$1,804,463.50	N/A	$1,408,946.00	N/A

Components

Actual Information Description	File Name	
Electrical Work	**Component Description:** **Amount:**	All-State 3712 v200415jgv1 $54,212.00
System Design and Site Survey	**Component Description:** **Amount:**	Comark 12830 v190911jgv1 $15,300.00

Electrical Design	**Component Description:** **Amount:**	NBP Eng 18187 v200318jgv2 $2,960.00
	Component Description: **Amount:**	NBP Eng 18371 v210308jgv2 $5,700.00
MVPD Notification of Channel Change	**Component Description:** **Amount:**	KGA 554-757 v200610jgv1 $1,896.00
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	
Equipment Delivery and Handling Charges	**Component Description:** **Amount:**	TEP 463565 v201208jgv1 $750.00
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
DTV Medical Facility Notification	**Component Description:** **Amount:**	KGA 554-756 v200610jgv1 $3,544.00

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$1,797,434.50	$1,804,463.50	$1,408,946.00

Reimbursement Status

Question	Response
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	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.	
	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. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 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.	

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.	**Jeffrey C Gehman** *Engineering Associate* 04/05/2021

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 IMPRISIONMENT (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).	
	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. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

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.

	8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 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.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Jeffrey C Gehman** *Engineering Associate* 04/05/2021

Attachments