

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 43170 Service: DTV Call WMAE-TV Channel:

ID: Sign: 9 (High VHF) File 0000026661

Number:

FRN: **0001739002** Date **03/18**

Submitted: /2021

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
MISSISSIPPI AUTHORITY FOR EDUCATIONAL TV Doing Business As: MISSISSIPPI AUTHORITY FOR EDUCATIONAL TV	Greg Wells 3825 RIDGEWOOD ROAD JACKSON, MS 39211 United States	+1 (601) 432- 6197	Greg. Wells@mpbonline. org	Government Entity

Reimbursement Contact Name and Information Reimbursement Contact 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	Replace transmitter using existing antenna and line.

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	
Manufacturer and Type	Model	PLATINUM PTCD10P1
	Year	2007
	Туре	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	2.2 kW

Primary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	LPTV-5000- 4000V3
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	4 kW
	Justification for New Transmitter	The manufacturer of the existing transmitter advises that the transmitter cannot be retuned 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)	No
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	No

	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	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
Electrical	Electrical
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	Retune Existing
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	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	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Not in Stac
	Polarization	Horizontal
	Туре	Other
	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	Batwing
ERP: (Effective Radiated Power)	31.0 kW
Manufacturer	Dielectric
Model	TAB-12H
Year	1990

Adjustment to Existing Antenna

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

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Туре	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	

Primary Antenna

Other Antenna Cost Not Listed

Name	Description
Antenna Re-tune	Antenna Re-tune
Rigging	Rigging to replace elbow complex which was found to be mismatched

Add Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Interim
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this antenna currently shared with any other stations?	No
	Is this antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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)	30.0 kW

Manufacturer	
Model	ALV4V7- HSO-9
Year	2021

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Interim
	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	Class	Full Power
Manufacturer and Types	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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)	30.0 kW
	Manufacturer	
	Model	ALV4V7HSO9

Year	2021
Justification for New Antenna	Interim antenna to keep station on the air while main antenna is being replaced and during tower work

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Туре	
	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?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Other Antenna Cost Not Listed

Name	Description
Patch Panel	Interior line system with patch panel

Add 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 this antenna currently shared with any other stations?	No
	Is this antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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)	35.0 kW

Manufacturer	
Model	ATW13V2- HTO-9H
Year	2021

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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)	30.0 kW
	Manufacturer	
	Model	ATW13V2HTO9H
	Year	2021
		,

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	Туре	
	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?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	3 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Other Antenna Cost Not Listed

Information not provided.

Transmission ^{Seffien}	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Add Transmission Line

Auxiliary Transmission_{Se}ir

Existing Transmission

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Interim
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmission currently shared with any other stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission	Manufacturer	
Line Manufacturer and Type	Туре	Flexible Air
	Diameter	1 5/8 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	425 feet per run

New Transmission Line

Auxiliary Transmiss

on Line Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Interim
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Туре	Flexible Air
	Diameter	1 5/8 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	450 feet per run
	Justification for New Transmission Line	Interim antenna system is required for station to stay on the air while the main antenna is being replaced and during tower work.

Auxiliary Other Transmission Line Expenses Not Listed Transmission Line tion 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	No
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure	Do you have a tower registration number?	Yes
Registration	ASR Number	1041045
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	34° 40' 00.3" N-
	Longitude (NAD83)	088° 45' 05.2" W-
	Overall Structure Height	578.08 fee
	Support Structure Height	499.99 fee
	Ground Elevation Above Mean Sea Level (AMSL)	717.84 fee

Structure Type	TOWER - Free Standing or Guyed
Tower Owner	Structure Mississippi Authority for
	Educational Television
Date Constructed	12/15/2004

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
43190	WMAE-FM	FM

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Serious Reinforcements needed

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A

Helicopter Services	Are helicopter services required?	No
Required		

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	204
	Explanation	Fewer Project Management "PM" tasks are required & Other Engineering Services "OES" are required, therefore the PM total has been reduced to 20 hrs (\$3,000 at \$150/hr), & a new OES category has been created & funded with the money removed from PM.
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	No
	Quantity	N/A
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	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	No
	Quantity	N/A
	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	13
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

Other Professional Services Expenses Not Listed

Services Costs	Description
Other Engineering Services	Fewer Project Management "PM" tasks are required & Other Engineering Services "OES" are required, therefore the PM total has been reduced to 20 hrs (\$3,000 at \$150 /hr), & a new OES category has been created & funded with the money removed from PM.
Other Legal Services	Other Legal Services related to the DTV Repack
Pre-Bid Meeting	Pre-Bid Meeting

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 Not Listed

Expenses 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).

			Estimated		
Description	Predetermined Cost Estimate	Estimated Cost	Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter LPTV-5000- 4000V3	\$393,211.81	\$372,623.81		\$219,533.35	
Electrical	\$115,161.81	\$115,161.81	See attached / uploaded PDF file titled "TSG TSG-MPB-2 v200511jgv1. pdf"	\$86,371.35	N/A
Standby Exciter and Switch	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Additional Interior RF System	\$75,000.00	\$75,000.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A
High VHF - Air Cooled Solid State Transmitter 1.1 . 4.4 kW	\$152,500.00	\$133,162.00	See attached / uploaded PDF file titled "Comark 001 v200615jgv1. pdf"	\$133,162.00	N/A
Sub-total	\$393,211.81	\$372,623.81	N/A	\$219,533.35	N/A
Total for all systems	\$2,336,665.77	\$1,601,013.25	N/A	\$367,259.99	N/A

Components

Actual Information Description	File Name	
Electrical		
	Component Description:	TSG TSG-MPB-2 v200604jgv2
	Amount:	\$86,371.35
Standby Exciter and Switch	Information not provided.	
Additional Interior RF System	Information not provided.	
Transformer 3 phase/480v - 150 KVA	Information not provided.	
High VHF - Air Cooled Solid		
State Transmitter 1.1 . 4.4	Component Description:	Comark 001
kW		v200615jgv1
	Amount:	\$101,203.12
	Component Description:	Comark 003
		v210317jgv1
	Amount:	\$31,958.88

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
Primary Antenna TAB- 12H	\$43,330.00	\$43,000.00		\$9,000.00	
Antenna Retune	\$9,000.00	\$9,000.00	See attached / uploaded PDF file titled "Precision Comms 0136 v201030jgv1. pdf"	\$9,000.00	N/A
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	\$7,600.00	\$7,600.00	N/A	N/A	N/A
Rigging	\$20,000.00	\$20,000.00	N/A	\$0.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Primary Antenna ATW13V2HTO9H	\$296,380.00	\$288,780.00		\$0.00	
Sweep test of existing antenna	\$6,730.00	\$6,730.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	\$7,600.00	\$0.00	Included in cost of antenna. See ERI quote for itemized costs.	N/A	N/A

High VHF - High Power Top Mount One Station horizontally polarized	\$282,050.00	\$282,050.00	See attached ERI proposal	N/A	N/A
Auxiliary Antenna ALV4V7HSO9	\$77,292.00	\$54,142.00		\$0.00	
Sweep test of existing antenna	\$6,730.00	\$6,730.00	N/A	N/A	N/A
High VHF - High Power Side Mount One Station horizontally polarized	\$35,000.00	\$35,000.00	See ERI proposal attached	N/A	N/A
Patch Panel	\$12,412.00	\$12,412.00	See ERI Proposal attached	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$0.00	Included in cost of antenna. See ERI Quote.	N/A	N/A
Sub-total	\$417,002.00	\$385,922.00	N/A	\$9,000.00	N/A
Total for all systems	\$2,336,665.77	\$1,601,013.25	N/A	\$367,259.99	N/A

Components

Actual Information		
Description	File Name	

Antenna Re-tune	Component Description: Amount:	Precision Comms 0136 v201105jgv2 \$6,000.00
	Component Description: Amount:	Precision Comms 0182 v201204jgv1 \$3,000.00
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	Information not provided.	
Rigging	Information not provided.	
Sweep test of existing antenna	Information not provided.	
Sweep test of existing antenna	Information not provided.	
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	Information not provided.	
High VHF - High Power Top Mount One Station horizontally polarized	Information not provided.	
Sweep test of existing antenna	Information not provided.	
High VHF - High Power Side Mount One Station horizontally polarized	Information not provided.	
Patch Panel	Information not provided.	
Side mount brackets for high 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
Auxiliary Transmission Line	\$14,850.00	\$17,083.48		\$0.00	
Flexible Air Transmission Line - dielectric, 1 5 /8"	\$14,850.00	\$17,083.48	See ERI Proposal attached	N/A	N/A
Sub-total	\$14,850.00	\$17,083.48	N/A	\$0.00	N/A
Total for all systems	\$2,336,665.77	\$1,601,013.25	N/A	\$367,259.99	N/A

Components

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 TOWER	\$1,288,800.00	\$636,914.00		\$2,500.00	
Serious tower reinforcement /modifications	\$1,052,000.00	\$350,000.00	See ERI quote attached	N/A	N/A
Tall Tower (greater than 500')	\$210,500.00	\$274,504.00	See ERI Quote attached	N/A	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$12,410.00	See attached ERI quote, including Mapping \$7,910.00 Analysis \$3,500.00 Certification \$1,000.00	\$2,500.00	N/A
Sub-total	\$1,288,800.00	\$636,914.00	N/A	\$2,500.00	N/A
Total for all systems	\$2,336,665.77	\$1,601,013.25	N/A	\$367,259.99	N/A

Components

Actual Information Description	File Name
Serious 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

Component Description: Pate 2021-17

v210305jgv1

Amount: \$2,500.00

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 Outside	Predetermined Cost Estimate \$181,050.96	Estimated Cost \$147,268.96	Estimated Cost Justification	Actual Cost \$107,706.64	Actual Cost Justification
Professional Services					
Pre-Bid Meeting	\$6,220.00	\$6,220.00	See attached / uploaded PDF file titled "KGA 139-402 v210315jgv1. pdf"	\$6,220.00	N/A
Other Legal Services	\$10,000.00	\$10,000.00	N/A	\$2,732.50	N/A
Other Engineering Services	\$81,618.96	\$81,618.96	KGA-MPB Contract GS# 529- 004 + \$425 KGA invoice 139-312, and see attached / uploaded PDF file titled "KGA 139-399 v210305jgv1. pdf"	\$81,618.96	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	\$2,750.00	N/A	\$2,750.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$3,580.00	See attached / uploaded PDF files titled "WMAE KGA 592048959 139-284 170605 170705 Prepare and or review 399 7500-00 v1.pdf" and "KGA 139- 403 v210315jgv1. pdf"	\$3,580.00	N/A
Project management of the transition	\$32,232.00	\$3,600.00	This component is being used to apply expenses for such tasks as project management and Form 387 Transition Plan Progress Report preparation.	\$3,600.00	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
Additional Field Engineering Service, 13 Days	\$26,000.00	\$26,000.00	N/A	\$4,405.68	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	\$49.50	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$750.00	N/A	\$750.00	N/A
Sub-total	\$181,050.96	\$147,268.96	N/A	\$107,706.64	N/A
Total for all systems	\$2,336,665.77	\$1,601,013.25	N/A	\$367,259.99	N/A

Components

Actual Information	
Description	File Name

Pre-Bid Meeting		
	Component Description:	KGA 139-402
		v210315jgv1
	Amount:	\$6,220.00
Other Legal Services		
	Component Description:	GSB 670598
		v190516pmv1
	Amount:	\$120.00
	Component Description:	GSB 662020
		v190515pmv1
	Amount:	\$600.00
	Component Description:	GSB 664826
		v190516pmv1
	Amount:	\$90.00
	Component Description:	GMP 32684
		v200605jgv1
	Amount:	\$101.00
	Component Description:	GMP 32982
		v200806jgv1
	Amount:	\$513.50
	Component Description:	GMP 31016
		v190926jgv2
	Amount:	\$35.00
	Component Description:	GMP 31400
		v191113jgv1
	Amount:	\$85.50
	Component Description:	GSB 710370
		v190605pmv1
	Amount:	\$46.50

Component Description: GSB 710996

v190605pmv1

Amount: \$46.50

Component Description: WMAE GSB inv

#662020 DTV Repack legal services

UL20180823jgv1

Amount: \$600.00

Component Description: WMAE GSB inv

#667584 DTV Repack legal services

UL20180823jgv1

Amount: \$150.00

Component Description: GMP 32344

v200408jgv1

Amount: \$39.00

Component Description: GSB 667584

v190516pmv1

Amount: \$150.00

Component Description: GMP 31984

v200219jgv1

Amount: \$140.00

Component Description: WMAE GSB inv

#664826 DTV Repack legal services

UL20180823jgv1

Amount: \$90.00

Component Description: GMP 31600

v191211jgv1

Amount: \$101.00

Component Description: WMAE GSB inv

#670598 DTV Repack legal services

UL20180823jgv1

Amount: \$120.00

Component Description: GMP 32518

v200506jgv1

Amount: \$202.00

Component Description: GMP 32827

v200713jgv1

Amount: \$462.50

Other Engineering Services

Component Description: KGA 139-380

v200608jgv1

Amount: \$4,953.14

Component Description: KGA 139-386

v200709jgv1

Amount: \$4,953.14

Component Description: KGA 139-399

v210305jgv1

Amount: \$11,800.00

Component Description: KGA 139-312

v190605pmv1

Amount: \$425.00

Component Description: KGA 139-342

v191211jgv2

Amount: \$4,953.14

Component Description: KGA 139-331

v191009jgv1

Amount: \$4,953.14

Component Description: KGA 139-379

v200506jgv1

Amount: \$4,953.14

Component Description: KGA 139-365

v200408jgv1

Amount: \$4,953.14

Component Description: KGA 139-327

v190909jgv1

Amount: \$4,953.14

Component Description: KGA 139-351

v200207jgv1

Amount: \$4,953.14

Component Description: KGA 139-356

v200207jgv1

Amount: \$4,953.14

Component Description: KGA 139-324

v190909jgv1

Amount: \$4,953.14

Component Description: KGA 139-364

v200320jgv1

Amount: \$4,953.14

Component Description: KGA 139-338

v191112jgv1 \$4,953.14

Amount: \$4,953.14

Component Description: KGA 139-309

v200128jgv1

Amount: \$50.00

Component Description: KGA 139-321

v190909jgv1

Amount: \$4,953.14

Component Description: KGA 139-315

v190625jgv1

Amount: \$4,953.14

Component Description: KGA 139-338

v191210jgv1

Amount: \$4,953.14

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application

Component Description: WMAE KGA inv

#139-283 CP App UL20180809jgv1

Amount: \$2,000.00

Perform engineering study for new channel assignment and antenna development

Component Description:

WMAE KGA inv

#139-283 New channel assignment

UL20180809jgv1

Amount: \$2,750.00

Prepare and or review reimbursement form	Component Description: Amount:	KGA 139-403 v210315jgv1 \$1,080.00
	Component Description:	WMAE KGA inv #139-284 Prepare and or review 399
	Amount:	UL20180813jgv1 \$2,500.00
Project management of the		
transition	Component Description:	WMAE KGA inv #139-296 2018Q1 387
	Amount:	UL20180810jgv1 \$150.00
	Component Description:	KGA 139-390 v200713jgv1
	Amount:	\$300.00
	Component Description:	KGA 139-303
	Amount:	v190703jgv1 \$300.00
	Component Description:	KGA 139-333
	Amount:	v191011jgv1 \$300.00
	Component Description:	KGA 139-389
	Amount:	v200713jgv1 \$300.00
	Component Description:	KGA 139-358
	Amount:	v200207jgv1 \$300.00
		•

Component Description: KGA 139-377

v200430jgv1

Amount: \$150.00

Component Description: KGA 139-306

v190716jgv1

Amount: \$300.00

Component Description: KGA 193-303

v190716jgv1

Amount: \$300.00

Component Description: WMAE KGA inv

#139-290 2017Q4

387

UL20180809jgv1

Amount: \$150.00

Component Description: KGA 139-300

v200128jgv1

Amount: \$150.00

Component Description: WMAE KGA inv

#139-287 2017Q3

387

UL20180810jgv1

Amount: \$300.00

Component Description:

Amount:

KGA 139-370

v200415jgv1

\$300.00

Component Description: KGA 139-318

v190715jgv1

Amount: \$300.00

Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Additional Field Engineering Service, 13 Days	Component Description: Amount:	KGA inv #139-285 On site survey split evenly between WMAB WMAE WMAW UL20180814jgv1 \$4,405.68
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:	GSB 662020 v190515pmv1 \$49.50
	Component Description: Amount:	WMAE GSB inv #662020 DTV Repack legal services CP App UL20180823jgv1 \$49.50
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	KGA 139-387 v200709jgv1 \$750.00

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
Other Expenses	\$41,751.00	\$41,201.00		\$28,520.00	
MVPD Notification of Channel Change	\$2,965.00	\$2,965.00	N/A	\$2,965.00	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	\$2,353.00	\$2,353.00	N/A	\$2,353.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$19,883.00	\$19,883.00	See attached / uploaded PDF file titled "Comark 001 v200615jgv1. pdf"	\$19,883.00	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$3,319.00	N/A
Sub-total	\$41,751.00	\$41,201.00	N/A	\$28,520.00	N/A
Total for all systems	\$2,336,665.77	\$1,601,013.25	N/A	\$367,259.99	N/A

Components

Actual Information Description	File Name	
MVPD Notification of Channel Change	Component Description: Amount:	KGA 139-383 v200623jgv1 \$1,186.00
	Component Description: Amount:	KGA 139-372 v200420jgv1 \$1,779.00
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Information not provided.	
Equipment Delivery and Handling Charges	Component Description: Amount:	Comark 003 v210317jgv1 \$117.65
	Component Description: Amount:	Comark 001 v200615jgv1 \$2,235.35
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: Amount:	Comark 003 v210317jgv1 \$994.15
	Component Description: Amount:	Comark 001 v200615jgv1 \$18,888.85

DTV Medical Facility Notification

Component Description: KGA 139-373

v200420jgv1

Amount: \$3,319.00

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$2,336,665.77	\$1,601,013.25	\$367,259.99

Reimbursem	enrestiatus	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

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 abovenamed applicant for the Authorization(s) specified above. Jeffrey C Gehman Engineering Associate

03/18/2021

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.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- 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 abovenamed applicant for the Authorization(s) specified above. Jeffrey C Gehman Engineering Associate

03/18/2021

Attachments