

(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 **07/16**

Submitted: /2019

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	Scott Colwell 3825 RIDGEWOOD ROAD JACKSON, MS 39211 United States	+1 (601) 432- 6367	Scott. Colwell@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
N T	Manufacturer	
	Model	TBD
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	2.2 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)	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
	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
Additional Interior RF System	Interior RF System Existing Transmitter to Interim Transmission line
Standby Exciter and Switch	Standby Exciter with Automatic Change Over Switch

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

Primary Antenna

Adjustment to Existing Antenna

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

Primary Antenna

Other Antenna Costs

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

Primary Antenna

Other Antenna Cost Not Listed

Name	Description
Rigging	Rigging to replace elbow complex which was found to be mismatched

Transmission	n ^{Sentien}	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	No

Tower
Equipment
And
Rigging
Costs

Section	Question	Response
Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	No

Outside Professional

Section	Question	Response
Al 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
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	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

Attorney and Other Outside Consulting Services

	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

I Services Costs	Description
Other Legal Services	Other Legal Services related to the DTV Repack

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 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).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter TBD	\$321,450.00	\$310,500.00		\$0.00	
Additional Interior RF System	\$75,000.00	\$75,000.00	N/A	N/A	N/A
High VHF - Air Cooled Solid State Transmitter 1.1 . 4.4 kW	\$152,500.00	\$145,000.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
Transformer 3 phase/480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
Standby Exciter and Switch	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Sub-total	\$321,450.00	\$310,500.00	N/A	\$0.00	N/A
Total for all systems	\$510,142.00	\$463,400.00	N/A	\$19,636.32	N/A

Components

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
Primary Antenna TAB- 12H	\$34,330.00	\$33,800.00		\$0.00	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Elbow complex, single channel, at antenna input, per 3 1 /8. feedline (if needed)	\$7,600.00	\$7,400.00	N/A	N/A	N/A
Rigging	\$20,000.00	\$20,000.00	N/A	N/A	N/A
Sub-total	\$34,330.00	\$33,800.00	N/A	\$0.00	N/A
Total for all systems	\$510,142.00	\$463,400.00	N/A	\$19,636.32	N/A

Components

Information not provided.

Cost Transmission Line

Information Information not provided.

Cost Tower Equipment and Rigging Costs

Information Information not provided.

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
Outside Professional Services	\$120,812.00	\$86,100.00		\$19,636.32	
Project management of the transition	\$32,232.00	\$3,000.00	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.	\$1,500.00	N/A

Other Engineering Services	\$27,600.00	\$27,600.00	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.	\$5,378.14	N/A
Other Legal Services	\$10,000.00	\$10,000.00	N/A	\$1,053.00	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	\$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	\$2,750.00	N/A	\$2,750.00	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	\$2,500.00	N/A	\$2,500.00	N/A
Sub-total	\$120,812.00	\$86,100.00	N/A	\$19,636.32	N/A
Total for all systems	\$510,142.00	\$463,400.00	N/A	\$19,636.32	N/A

Components

Actual Information	
Description	File Name

Project management of the transition

Component Description: WMAE KGA inv

#139-287 2017Q3

387

UL20180810jgv1

Amount: \$300.00

Component Description: WMAE KGA inv

#139-296 2018Q1

387

UL20180810jgv1

Amount: \$150.00

Component Description: KGA 139-303

v190703jgv1

Amount: \$300.00

Component Description: KGA 139-306

v190716jgv1

Amount: \$300.00

Component Description: KGA 139-318

v190715jgv1

Amount: \$300.00

Component Description: WMAE KGA inv

#139-290 2017Q4

387

UL20180809jgv1

Amount: \$150.00

Other Engineering Services Component Description: KGA 139-312 v190605pmv1 s425.00 Component Description: KGA 139-315 v190625jgv1 s4.953.14 Amount: \$4,953.14 Other Legal Services Component Description: GSB 710370 v190605pmv1 s46.50 Component Description: GSB 710996 v190605pmv1 s46.50 Component Description: GSB 667584 v190516pmv1 s150.00 Component Description: GSB 667584 v190516pmv1 s150.00 Component Description: GSB 664826 v190516pmv1 s90.00 Component Description: WMAE GSB inv #664826 DTV Repack legal services UL20180823jgv1 services UL20180823jgv1 services UL20180823jgv1 services UL20180823jgv1 services UL20180823jgv1 services V190515pmv1 services V190515pmv			
Amount:	Other Engineering Services		
Amount: \$425.00		Component Description:	KGA 139-312
Component Description: KGA 139-315 v190625jgv1			v190605pmv1
V190625jgv1 \$4,953.14		Amount:	\$425.00
V190625jgv1 \$4,953.14			
V190625jgv1 \$4,953.14		Component Description	VCA 120 215
Amount: \$4,953.14		Component Description:	
Component Description: GSB 710370 v190605pmv1		Amount:	· -
Component Description: GSB 710370 v190605pmv1 S46.50 S46.50		Amount.	ψ4,000.14
V190605pmv1 \$46.50 \$46.5	Other Legal Services		
Amount: \$46.50 Component Description: GSB 710996 v190605pmv1 Amount: \$46.50 Component Description: GSB 667584 v190516pmv1 Amount: \$150.00 Component Description: GSB 664826 v190516pmv1 Amount: \$90.00 Component Description: WMAE GSB inv #664826 DTV Repack legal services UL20180823jgv1 Amount: \$90.00 Component Description: GSB 662020 v190515pmv1		Component Description:	GSB 710370
Component Description: GSB 710996 v190605pmv1 Amount: \$46.50			v190605pmv1
V190605pmv1 \$46.50		Amount:	\$46.50
V190605pmv1 \$46.50			
Amount: \$46.50 Component Description: GSB 667584 v190516pmv1 Amount: \$150.00 Component Description: GSB 664826 v190516pmv1 Amount: \$90.00 Component Description: WMAE GSB inv #664826 DTV Repack legal services UL20180823jgv1 Amount: \$90.00		Component Description:	GSB 710996
Component Description: GSB 667584 v190516pmv1			v190605pmv1
Amount: \$150.00		Amount:	\$46.50
Amount: \$150.00			
Component Description: GSB 664826 v190516pmv1 Amount: \$90.00 Component Description: WMAE GSB inv #664826 DTV Repack legal services UL20180823jgv1 Amount: \$90.00 Component Description: GSB 662020 v190515pmv1		Component Description:	GSB 667584
Component Description: Amount: S90.00 Component Description: WMAE GSB inv #664826 DTV Repack legal services UL20180823jgv1 Amount: S90.00 Component Description: GSB 662020 v190515pmv1			v190516pmv1
Amount: Component Description: WMAE GSB inv #664826 DTV Repack legal services UL20180823jgv1 Amount: \$90.00 Component Description: GSB 662020 v190515pmv1		Amount:	\$150.00
Amount: Component Description: WMAE GSB inv #664826 DTV Repack legal services UL20180823jgv1 Amount: \$90.00 Component Description: GSB 662020 v190515pmv1			
Amount: \$90.00 Component Description: WMAE GSB inv #664826 DTV Repack legal services UL20180823jgv1 Amount: \$90.00 Component Description: GSB 662020 v190515pmv1		Component Description:	GSB 664826
Component Description: WMAE GSB inv #664826 DTV Repack legal services UL20180823jgv1 \$90.00 Component Description: GSB 662020 v190515pmv1			
#664826 DTV Repack legal services UL20180823jgv1 Amount: \$90.00 Component Description: GSB 662020 v190515pmv1		Amount:	\$90.00
#664826 DTV Repack legal services UL20180823jgv1 Amount: \$90.00 Component Description: GSB 662020 v190515pmv1			
Repack legal services UL20180823jgv1 Amount: \$90.00 Component Description: GSB 662020 v190515pmv1		Component Description:	WMAE GSB inv
services UL20180823jgv1 Amount: \$90.00 Component Description: GSB 662020 v190515pmv1			#664826 DTV
### Amount: Component Description: GSB 662020 v190515pmv1			
Amount: \$90.00 Component Description: GSB 662020 v190515pmv1			Repack legal
Component Description: GSB 662020 v190515pmv1			•
v190515pmv1			services
v190515pmv1		Amount:	services UL20180823jgv1
		Amount:	services UL20180823jgv1
Amount: \$600.00			services UL20180823jgv1 \$90.00
			services UL20180823jgv1 \$90.00 GSB 662020

Component Description: GSB 670598

v190516pmv1

Amount: \$120.00

Component Description: WMAE GSB inv

#670598 DTV Repack legal services

UL20180823jgv1

Amount: \$120.00

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

Additional Field

Engineering Service, 13

Days

Component Description: KGA inv #139-285

On site survey split evenly between WMAB WMAE

WMAW

UL20180814jgv1

Amount: \$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:	WMAE GSB inv #662020 DTV Repack legal services CP App UL20180823jgv1
	Amount:	\$49.50
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	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
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Component Description:	WMAE KGA inv #139-284 Prepare
		and or review 399

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	\$33,550.00	\$33,000.00		\$0.00	
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	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
Equipment Delivery and Handling Charges	\$10,000.00	\$10,000.00	N/A	N/A	N/A
Equipment Storage	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$0.00	\$0.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	N/A	N/A	N/A
Sub-total	\$33,550.00	\$33,000.00	N/A	\$0.00	N/A
Total for all systems	\$510,142.00	\$463,400.00	N/A	\$19,636.32	N/A

Components

Information not provided.

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$510,142.00	\$463,400.00	\$19,636.32

Reimbursem	envestiatus	Response
	The facility has ceased operating on its pre- auction channel.	No
	Construction of final facilities or all necessary modifications are complete.	No
	All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	No

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

07/16/2019

Attachments