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: **721** | Service: **DTV** | Call Sign: **WEIQ** | Channel: **30 (UHF)**

File Number: **0000027857**

FRN: **0001750314** | Date Submitted: **01/18/2021**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
ALABAMA EDUCATIONAL TELEVISION COMMISSION Doing Business As: ALABAMA EDUCATIONAL TELEVISION COMMISSION	Windell L. Wood 2112 11TH AVE SOUTH Suite 400 BIRMINGHAM, AL 35205 United States	+1 (800) 239-5233	wwood@aetv.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 *Consulting Engineer* *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 and antenna, plus line sweep tests. Acquire interim antenna and line for continued operation during construction and duration of the assigned phase. Map and analyze tower; design and implement modifications.

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	Sigma CD3130P1
	Year	2007
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	25 kW

Primary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-50
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31.7 kW
	Justification for New Transmitter	The manufacturer of the existing IOT transmitter advises that the transmitter cannot be re-tuned to the assigned channel. A new Comark Paragon MSDC IOT transmitter is the basis for a replacement as suggested by the FCC. 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
Additional Interior RF System	Interior RF System Existing Transmitter to Interim Transmission line

Electrical	Electrical
Mechanical - HVAC - Plumbing	Mechanical - HVAC - Plumbing

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	Top 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)	464.0 kW

Manufacturer	
Model	TFU-30GTH O4 DC
Year	2007

Primary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top 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)	373.0 kW
	Manufacturer	
	Model	TFU26JTH /VP-R 04 (SP)

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?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 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

Primary Antenna

Other Antenna Cost Not Listed

Name	Description
Freight	Freight

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?	Yes
	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)	240.0 kW
	Manufacturer	
	Model	TFU-8WB C160
	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?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	4 1/16 inches
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?	No

Interim Antenna

Other Antenna Cost Not Listed

Name	Description
Freight	Freight
Sweep	Sweep

Transmission Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	570 feet per run

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Sweep Line	Sweep tests to verify performance on assigned 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	4 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	670 feet per run
	Justification for New Transmission Line	An interim transmission line is necessary for the interim antenna to keep station on the air during primary antenna replacement and for the duration of the assigned phase.

Interim Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Tower Equipment And Rigging Costs

Section	Question	Response
Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	No
	Others Types of Users	Yes
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1036419
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	30° 39' 34.0" N-
	Longitude (NAD83)	087° 53' 33.0" W-
	Overall Structure Height	545.27 feet
	Support Structure Height	545.93 feet
	Ground Elevation Above Mean Sea Level (AMSL)	166.99 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Alabama Educational Television Commission
Date Constructed	01/01/1955

Other Types of Users

Users
US Dept of Comm
WHIL aural 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

Information not provided.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	191
	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	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	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	18
Justification	It will be necessary to survey the site, plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects. Station does not have available personnel or personnel trained in such services.

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Other Engineering Services	Cost estimate for other engineering services such as RF calculations, evolving transition plan calculations, bid spec prep / distribution / award recommendation / etc and discussion, etc.

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

Information not provided.

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTE-50	**$1,360,910.88**	**$1,357,460.88**		**$1,151,960.88**	
Mechanical - HVAC - Plumbing	***$35,331.92***	$35,331.92	See attached / uploaded PDF file titled "TSG 203930 v200515jgv4.pdf"	$35,331.92	N/A
Additional Interior RF System	***$140,000.00***	$140,000.00	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
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	***$1,069,330.07***	$1,069,330.07	See attached PDF file titled "TSG 203930 v191111jgv1.pdf"	$1,069,330.07	N/A

Electrical	***$47,298.89***	$47,298.89	See attached / uploaded PDF file titled "TSG 203930 v200515jgv4.pdf"	$47,298.89	N/A
Transformer 3 phase /480v - 150 KVA	$25,550.00	$24,300.00	N/A	N/A	N/A
Sub-total	$1,360,910.88	$1,357,460.88	N/A	$1,151,960.88	N/A
Total for all systems	$2,804,263.14	$2,564,234.28	N/A	$1,889,355.28	N/A

Components

Actual Information Description	File Name	
Mechanical - HVAC - Plumbing	**Component Description:** **Amount:**	TSG 203930 v200515jgv4 $35,331.92
Additional Interior RF System	Information not provided.	
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	**Component Description:** **Amount:**	TSG 203930 v200515jgv4 $1,069,330.07

Electrical	**Component Description:** **Amount:**	TSG 203930 v200515jgv4 $47,298.89
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 TFU-8WB C160	**$245,734.41**	**$108,985.66**		**$103,985.66**	
Freight	***$10,254.41***	$10,254.41	See attached / uploaded PDF file titled "TSG 203930 v200515jgv4.pdf"	$10,254.41	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
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	$189,500.00	$52,412.50	See attached / uploaded PDF file titled "TSG 203930 v200515jgv4.pdf"	$52,412.50	N/A

Sweep	***$8,000.00***	$8,000.00	See attached / uploaded PDF file titled "TSG 203930 v200515jgv4.pdf"	$8,000.00	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	$23,150.00	$21,900.00	See attached / uploaded PDF file titled "TSG 203930 v200515jgv4.pdf"	$21,900.00	N/A
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	$9,570.00	$11,418.75	See attached / uploaded PDF file titled "TSG 203930 v200515jgv4.pdf"	$11,418.75	N/A
Primary Antenna TFU26JTH /VP-R 04 (SP)	**$316,074.85**	**$229,989.85**		**$229,989.85**	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	$12,300.00	$12,495.00	See attached / uploaded PDF file titled "TSG 204122 v200206jgv1.pdf"	$12,495.00	N/A

Sweep test of existing antenna	$6,730.00	$8,000.00	See attached / uploaded PDF file titled "TSG 204122 v200206jgv1.pdf"	$8,000.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	$289,500.00	$201,950.00	See attached / uploaded PDF file titled "TSG 204122 v200206jgv1.pdf"	$201,950.00	N/A
Freight	***$7,544.85***	$7,544.85	See attached / uploaded PDF file titled "TSG 204122 v200206jgv1.pdf"	$7,544.85	N/A
Sub-total	$561,809.26	$338,975.51	N/A	$333,975.51	N/A
Total for all systems	$2,804,263.14	$2,564,234.28	N/A	$1,889,355.28	N/A

Components

Actual Information Description	File Name	
Freight	**Component Description:**	TSG 203930 v200515jgv4
	Amount:	$10,254.41

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	**Component Description:** **Amount:**	TSG 203930 v200515jgv4 $52,412.50
Sweep	**Component Description:** **Amount:**	TSG 203930 v200515jgv4 $8,000.00
Side mount brackets for high power antennas (if not included in antenna base cost)	**Component Description:** **Amount:**	TSG 203930 v200515jgv4 $21,900.00
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	**Component Description:** **Amount:** **Component Description:** **Amount:**	TSG 203930 v200515jgv4 $9,773.75 TSG 203930 v200515jgv4 $1,645.00
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	**Component Description:** **Amount:**	TSG 204122 v200519jgv3 $12,495.00
Sweep test of existing antenna	**Component Description:** **Amount:**	TSG 204122 v200519jgv3 $8,000.00

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	**Component Description:** **Amount:**	TSG 204122 v200519jgv3 $201,950.00
Freight	**Component Description:** **Amount:**	TSG 204122 v200519jgv3 $7,544.85

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	**$49,580.00**	**$38,844.89**		**$38,844.89**	
Flexible Air Transmission Line - dielectric, 4"	$49,580.00	$38,844.89	See attached / uploaded PDF file titled "TSG 203930 v200515jgv4.pdf"	$38,844.89	N/A
Primary Transmission Line	**$6,400.00**	**$6,400.00**		**$0.00**	
Sweep Line	***$6,400.00***	$6,400.00	N/A	N/A	N/A
Sub-total	$55,980.00	$45,244.89	N/A	$38,844.89	N/A
Total for all systems	$2,804,263.14	$2,564,234.28	N/A	$1,889,355.28	N/A

Components

Actual Information Description	File Name
Flexible Air Transmission Line - dielectric, 4"	**Component Description:** TSG 203930 v200515jgv4 **Amount:** $38,844.89
Sweep Line	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	**$657,800.00**	**$655,300.00**		**$331,771.00**	
Tall Tower (greater than 500')	$210,500.00	$230,300.00	See attached / uploaded PDF files titled "TSG 203930 v200515jgv4.pdf" and "TSG 204122 v200519jgv3"	$230,300.00	N/A
Major tower reinforcement /modifications	$421,000.00	$400,000.00	N/A	$80,721.00	N/A

Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	$26,300.00	$25,000.00	N/A	$20,750.00	Tower mapping, condition assessmen and initial structural analysis. Analysis failed. Foundation mapping an geotechnica investigatio leading to Structural Design Drawings fo bidding towe modification to upgrade tower to 22 G to accommoda new ante
Sub-total	$657,800.00	$655,300.00	N/A	$331,771.00	N/A
Total for all systems	$2,804,263.14	$2,564,234.28	N/A	$1,889,355.28	N/A

Components

Actual Information Description	File Name	
Tall Tower (greater than 500')	**Component Description:**	TSG 203930 v200515jgv4
	Amount:	$115,150.00
	Component Description:	TSG 204122 v200519jgv3
	Amount:	$115,150.00

Major tower reinforcement /modifications	**Component Description:** **Amount:**	Tilson 4052775 v190619jgv1 $80,721.00
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	**Component Description:** **Amount:**	Structural Design Drawings $8,000.00
	Component Description: **Amount:**	Foundation Mapping $3,500.00
	Component Description: **Amount:**	Geotechnical Investigation $3,250.00
	Component Description: **Amount:**	Tower Mapping $2000, Structural Analysis $2500, and Maintenance and Condition Assessment TIA $1500. $6,000.00

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	**$104,598.00**	**$112,518.00**		**$28,068.00**	
Prepare and or review reimbursement form	$2,630.00	$14,065.00	The Estimated Cost includes Form 399 submissions including ongoing Actual Cost invoice prep and submission, and amendments as needed.	$14,065.00	N/A
Other Engineering Services	***$3,500.00***	$3,500.00	Cost estimate for other engineering services such as RF calculations, evolving transition plan calculations, bid spec prep / distribution / award recommendation / etc and discussion, etc.	$3,500.00	N/A
Additional Field Engineering Service, 18 Days	***$36,000.00***	$36,000.00	N/A	N/A	N/A

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	$2,105.00	$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	$2,105.00	$2,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	$3,680.00	$3,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	$2,365.00	$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	$5,260.00	$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	$2,050.00	$1,500.00	N/A	$1,500.00	N/A

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	$1,580.00	$1,553.00	N/A	$1,553.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	$3,155.00	$3,000.00	N/A	$2,000.00	FCC Fo 2100 C applica
Perform engineering study for new channel assignment and antenna development	$7,360.00	$7,000.00	N/A	$3,500.00	Enginee study f new chann assignm and antenr developr
Address transition timing and coordination issues w/ other stations and wireless	$2,630.00	$2,500.00	N/A	N/A	N/A
Project management of the transition	$30,178.00	$28,650.00	N/A	$1,950.00	N/A
Sub-total	$104,598.00	$112,518.00	N/A	$28,068.00	N/A
Total for all systems	$2,804,263.14	$2,564,234.28	N/A	$1,889,355.28	N/A

Components

Actual Information Description	File Name
Prepare and or review reimbursement form	

Component Description:	KGA 250-272 v201211jgv1
Amount:	$1,725.00
Component Description:	KGA 250-241 v201211jgv1
Amount:	$265.00
Component Description:	KGA 250-280 v201211jgv1
Amount:	$925.00
Component Description:	KGA 250-288 v201211jgv1
Amount:	$4,100.00
Component Description:	KGA 250-269 v201211jgv1
Amount:	$150.00
Component Description:	KGA 250-275 v201211jgv1
Amount:	$50.00
Component Description:	KGA 250-216 v210118jgv1
Amount:	$300.00
Component Description:	KGA 250-212 v210118jgv1
Amount:	$300.00

Component Description:	This WGIQ invoice was erroneously applied to WEIQ's 399, so it is being zeroed out here and correctly applied to WGIQ's 399.
Amount:	N/A
Component Description:	KGA 250-228 v201214jgv1
Amount:	$625.00
Component Description:	KGA 250-282 v201211jgv1
Amount:	$900.00
Component Description:	KGA 250-257 v201221jgv1
Amount:	$150.00
Component Description:	KGA 250-251 v201221jgv1
Amount:	$150.00
Component Description:	This WGIQ invoice was erroneously applied to WEIQ's 399, so it is being zeroed out here and correctly applied to WGIQ's 399.
Amount:	N/A

Component Description:	This WGIQ invoice was erroneously applied to WEIQ's 399, so it is being zeroed out here and correctly applied to WGIQ's 399.
Amount:	N/A
Component Description:	KGA 250-294 v201211jgv1
Amount:	$1,150.00
Component Description:	Prepare FCC Form 399 for Reimbursement - WEIQ
Amount:	$2,500.00
Component Description:	KGA 250-302 v201211jgv1
Amount:	$775.00
Component Description:	This WGIQ invoice was erroneously applied to WEIQ's 399, so it is being zeroed out here and correctly applied to WGIQ's 399.
Amount:	N/A

Component Description:	This WGIQ invoice was erroneously applied to WEIQ's 399, so it is being zeroed out here and correctly applied to WGIQ's 399.
Amount:	N/A
Component Description:	This WGIQ invoice was erroneously applied to WEIQ's 399, so it is being zeroed out here and correctly applied to WGIQ's 399.
Amount:	N/A
Component Description:	This WGIQ invoice was erroneously applied to WEIQ's 399, so it is being zeroed out here and correctly applied to WGIQ's 399.
Amount:	N/A

Other Engineering Services	**Component Description:** KGA 250-228 v201214jgv1 **Amount:** $250.00 **Component Description:** KGA 250-261 v201211jgv1 **Amount:** $375.00 **Component Description:** KGA 250-291 v201211jgv1 **Amount:** $625.00 **Component Description:** KGA 250-228 v201214jgv1 **Amount:** $1,750.00 **Component Description:** KGA 250-274 v201221jgv2 **Amount:** $450.00 **Component Description:** KGA 250-264 v201211jgv1 **Amount:** $50.00
Additional Field Engineering Service, 18 Days	Information not provided.
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	**Component Description:** **Amount:**	KGA 250-267 v201211jgv1 $1,500.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	**Component Description:** **Amount:**	KGA 250-276 v201211jgv1 $1,553.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:**	Form FCC Construction permit application $2,000.00
Perform engineering study for new channel assignment and antenna development	**Component Description:** **Amount:**	Engineering study for new channel assignment and antenna development $3,500.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Project management of the transition	**Component Description:** **Amount:**	KGA 250-209 v201214jgv1 $300.00

Component Description: KGA 250-245 v201214jgv1
Amount: $150.00

Component Description: KGA 250-268 v201211jgv1
Amount: $150.00

Component Description: KGA 250-265 v201211jgv1
Amount: $150.00

Component Description: KGA 250-277 v201211jgv1
Amount: $150.00

Component Description: KGA 250-278 v201211jgv1
Amount: $150.00

Component Description: KGA 250-271 v201211jgv1
Amount: $150.00

Component Description: KGA 250-225 v201214jgv1
Amount: $225.00

Component Description: KGA 250-230 v201214jgv1
Amount: $150.00

Component Description: KGA 250-236 v201214jgv1
Amount: $150.00

Component Description:	KGA 250-219 v201214jgv1
Amount:	$225.00

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	**$63,165.00**	**$54,735.00**		**$4,735.00**	
Develop and air announcement of upcoming channel change	***$0.00***	$0.00	N/A	N/A	N/A
Equipment Storage	***$10,000.00***	$10,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	***$25,000.00***	$25,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	***$15,000.00***	$15,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	***$1,615.00***	$1,615.00	N/A	$1,615.00	N/A
DTV Medical Facility Notification	$11,550.00	$3,120.00	N/A	$3,120.00	N/A
Sub-total	$63,165.00	$54,735.00	N/A	$4,735.00	N/A
Total for all systems	$2,804,263.14	$2,564,234.28	N/A	$1,889,355.28	N/A

Components

Actual Information Description	File Name
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
MVPD Notification of Channel Change	**Component Description:** KGA 250-263 v201211jgv1 **Amount:** $1,615.00
DTV Medical Facility Notification	**Component Description:** KGA 250-262 v201211jgv1 **Amount:** $3,120.00

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$2,804,263.14	$2,564,234.28	$1,889,355.28

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* 01/18/2021

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* 01/18/2021

Attachments