

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility 721 Service: DTV Call WEIQ Channel: 30 (UHF)

ID:

Sign:

File **0000027857** 

Number:

FRN: **0001750314** Date **12/21** 

Submitted: /2020

# 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 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 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**

rs	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	Sigma CD3130P1
	Year	2007
	Туре	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 retuned 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
	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
Mechanical - HVAC - Plumbing	Mechanical - HVAC - Plumbing
Electrical	Electrical

Additional	Interior	RF S	vstem
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Interior RF System Existing Transmitter to Interim Transmission line

#### **Antennas**

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

# **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	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)	464.0 kW

Manufacturer	
Model	TFU- 30GTH O4 DC
Year	2007

# **New Antenna Costs**

Section	Question	Response
New Antenna	Use	Primary (Main)
Description	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
	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)	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.

#### **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	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
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# **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	Class	Full Power
Manufacturer and Type	Mounting	Side Moun
	Antenna position in stack	Not in Stac
	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)	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 Seffien	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

# Primary Transmission

# **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	Manufacturer	Dielectric
Line Manufacturer and Type	Туре	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**

# Other Transmission Line Expenses Not Listed

Transmission	Naine	Description
	Sweep Line	Sweep tests to verify performance on assigned channel

# Interim Transmiss

#### **New Transmission Line**

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Туре	Flexible Air
	Diameter	4 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	670 feet per
	Justification for New Transmission Line	An interim transmission line is necessary for the interim antenna to keep station on the air during primary antenna replacemen and for the duration of the assigned phase.

# Interim Other Transmission Line Expenses Not Listed

Transmission loine 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)	No
	Others Types of Users	Yes
	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	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 fee
	Support Structure Height	545.93 fee
	Ground Elevation Above Mean Sea Level (AMSL)	166.99 fee

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

Section	Question	Response
Services Costs 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	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	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

# Other Professional Services Expenses Not Listed

Services Costs	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 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).

	Predetermined	Estimated	Estimated Cost		Actual Cost
Description	Cost Estimate	Cost	Justification	Actual Cost	Justification
Primary Transmitter ULXTE-50	\$1,360,910.88	\$1,357,460.88		\$1,151,960.88	
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
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
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

Electrical	\$47,298.89	\$47,298.89	See attached / uploaded PDF file titled "TSG 203930 v200515jgv4. pdf"	\$47,298.89	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	\$2,563,334.28	N/A	\$1,888,455.28	N/A

# Components

Actual Information Description	File Name	
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Transformer 3 phase/480v - 150 KVA	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
Mechanical - HVAC - Plumbing	Component Description: Amount:	TSG 203930 v200515jgv4 \$35,331.92
Additional Interior RF System	Information not provided.	
Electrical		
	Component Description:	TSG 203930 v200515jgv4
	Amount:	\$47,298.89

# **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	
Sweep	\$8,000.00	\$8,000.00	See attached / uploaded PDF file titled "TSG 203930 v200515jgv4. pdf"	\$8,000.00	N/A
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

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
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
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
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	\$2,563,334.28	N/A	\$1,888,455.28	N/A

# Components

Actual Information Description	File Name	
Sweep		
	Component Description:	TSG 203930 v200515jgv4
	Amount:	\$8,000.00

Freight		T20 00000
	Component Description:	TSG 203930 v200515jgv4
	Amount:	\$10,254.41
	7.111-5.111	<b>\$</b> 10, <b>2</b> 0
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
Elbow complex, single channel, at antenna input,		
per 4 1/16. feedline (if	Component Description:	TSG 203930
needed)	A	v200515jgv4
	Amount:	\$9,773.75
	Component Description:	TSG 203930
		v200515jgv4
	Amount:	\$1,645.00
Side mount brackets for		
high power antennas (if not included in antenna base	Component Description:	TSG 203930
cost)		v200515jgv4
333,	Amount:	\$21,900.00
UHF - Lower Power Side		
Mount, One station - 200- 500 kW, horizontally	Component Description:	TSG 203930
polarized		v200515jgv4
pos200	Amount:	\$52,412.50
Elbow complex, single		
channel, at antenna input, per 6 1/8. feedline (if	Component Description:	TSG 204122
needed)		v200519jgv3
<b> </b>	Amount:	\$12,495.00
Sweep test of existing		
antenna	Component Description:	TSG 204122
		v200519jgv3
	Amount:	\$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:	TSG 204122
		v200519jgv3
	Amount:	\$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 Interim Transmission Line	Predetermined Cost Estimate \$49,580.00	Estimated Cost \$38,844.89	Estimated Cost Justification	Actual Cost \$38,844.89	Actual Cost Justification
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	\$2,563,334.28	N/A	\$1,888,455.28	N/A

# Components

Actual Information Description	File Name	
Flexible Air Transmission Line - dielectric, 4"	Component Description: Amount:	TSG 203930 v200515jgv4 \$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 investigation leading to Structural Design Drawings fo bidding tower modification to upgrade tower to 222 G to accommodal new anterpressment assessment assessment assessment and the second to
Out total	<b>#057.000.00</b>	<b>0055 000 00</b>	N1/A	0004 774 00	new ante
Sub-total	\$657,800.00 \$2,804,263.14	\$655,300.00 \$2,563,334.28	N/A N/A	\$331,771.00 \$1,888,455.28	N/A 

# Components

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

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

# **Cost Information**

## **Outside Professional Services**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual C Justifica
Outside Professional Services	\$104,598.00	\$111,618.00		\$27,168.00	
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 Fc 2100 C applicat
Project management of the transition	\$30,178.00	\$28,650.00	N/A	\$1,950.00	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

Prepare and or review reimbursement form	\$2,630.00	\$13,165.00	The Estimated Cost includes Form 399 submissions including ongoing Actual Cost invoice prep and submission, and amendments as needed.	\$13,165.00	N/A
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
Sub-total	\$104,598.00	\$111,618.00	N/A	\$27,168.00	N/A
Total for all systems	\$2,804,263.14	\$2,563,334.28	N/A	\$1,888,455.28	N/A

## Components

Actual Information Description	File Name	
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:	Form FCC Construction permit
	Amount:	application \$2,000.00
Project management of the		
ransition	Component Description:	KGA 250-209 v201214jgv1
	Amount:	\$300.00
	Component Description:	KGA 250-245
	Amount:	v201214jgv1 \$150.00
	Component Description	KGA 250-268
	Component Description:	v201211jgv1
	Amount:	\$150.00
	Component Description:	KGA 250-265
	Amount:	v201211jgv1 \$150.00
	Component Description:	KGA 250-236
		v201214jgv1
	Amount:	\$150.00
	Component Description:	KGA 250-225 v201214jgv1

Component Description: KGA 250-277

v201211jgv1

**Amount:** \$150.00

Component Description: KGA 250-278

v201211jgv1

**Amount:** \$150.00

Component Description: KGA 250-219

v201214jgv1

**Amount:** \$225.00

Component Description: KGA 250-271

v201211jgv1

**Amount:** \$150.00

Component Description: KGA 250-230

v201214jgv1

**Amount:** \$150.00

	Component Description:	KGA 250-264
	Component Description.	v201211jgv1
	Amount:	\$50.00
	Component Description:	KGA 250-261
	Amount:	v201211jgv1 \$375.00
	Component Description:	KGA 250-228
	Amount:	v201214jgv1 \$250.00
	Component Description:	KGA 250-228
	Amount:	v201214jgv1 \$1,750.00
	Component Description:	KGA 250-291
	Amount:	v201211jgv1 \$625.00
	Component Description:	KGA 250-274 v201221jgv2
	Amount:	\$450.00
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	Information not provided.	

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare and or review reimbursement form	Component Description:	KGA 250-294 v201211jgv1 \$1,150.00
	Amount.	ψ1,130.00
	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
	Amount:	v201211jgv1 \$50.00
	Component Description:	KGA 250-228
	Amount:	v201214jgv1 \$625.00
	Component Description:	KGA 250-272
		v201211jgv1

Amount:

\$1,725.00

**Component Description:** Prepare FCC Form 399 for Reimbursement -WEIQ \$2,500.00 Amount: **Component Description:** KGA 250-302 v201211jgv1 Amount: \$775.00 **Component Description:** KGA 250-282 v201211jgv1 Amount: \$900.00 Perform engineering study for new channel **Component Description:** Engineering study assignment and antenna for new channel development assignment and antenna development Amount: \$3,500.00 Address transition timing Information not provided. and coordination issues w/

other stations and wireless

# **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	
DTV Medical Facility Notification	\$11,550.00	\$3,120.00	N/A	\$3,120.00	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
Equipment Delivery and Handling Charges	\$25,000.00	\$25,000.00	N/A	N/A	N/A
Equipment Storage	\$10,000.00	\$10,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$0.00	\$0.00	N/A	N/A	N/A
Sub-total	\$63,165.00	\$54,735.00	N/A	\$4,735.00	N/A
Total for all systems	\$2,804,263.14	\$2,563,334.28	N/A	\$1,888,455.28	N/A

## Components

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

# Cost Information

## **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$2,804,263.14	\$2,563,334.28	\$1,888,455.28

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

12/21/2020

#### **Attachments**