



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **71657** | Service: **DTV** | Call **WVPB-TV** | Channel:  
ID: | Sign:  
**9 (High VHF)** | File **000028684**  
Number:  
FRN: **0002017572** | Date **10/15**  
Submitted: **/2021**

## Applicant Information Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>West Virginia Educational Broadcasting Authority</b>	Chuck Roberts 600 Capitol Street Charleston, WV 25301 United States	+1 (304) 556-4939	croberts@wvpublic.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
<b>Robert Gehman</b> <i>Consulting Engineer</i> <i>Kessler and Gehman Associates, Inc.</i>	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 using existing line. Acquire interim antenna and line for continued operation during construction and duration of the assigned phase. Map and analyze tower; design and implement modifications if required.

**Transmitters**

Section	Question	Response
<b>Transmitter Related Expenses</b>	Do you have transmitter related expenses?	Yes

**Primary  
Transmitter**

**Existing Transmitter Information**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	TDU22K500 LV
	Year	2007
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	2.5 kW

**Primary Transmitter**

**New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	VAXTE-16R37
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	12.8 kW
	Justification for New Transmitter	The manufacturer of the existing transmitter advises that the transmitter cannot be re-tuned to the assigned channel. See attachment.

**Primary Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	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
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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**

<b>Name</b>	<b>Description</b>
<b>Standby Exciter and Switch</b>	Standby Exciter with Automatic Change Over Switch
<b>Additional Interior RF System</b>	Interior RF System Existing Transmitter to Interim Transmission line

**Antennas**

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

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	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?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	76.3 kW
	Manufacturer	

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Model	PSILPD18D88C-34
Year	2007

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**Primary  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	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?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
<b>New Antenna Manufacturer and Types</b>	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/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) .....	56.2 kW
	Manufacturer	
	Model	TBD
Year	2018	

Justification for New Antenna	The existing primary antenna is a single channel slotted coaxial which cannot accommodate the assigned channel.
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**Primary Antenna**

**Other Antenna Costs**

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	No
	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
<b>Elbow Complex</b>	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
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	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
<b>New Antenna Manufacturer and Type</b>	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)	76.0 kW
	Manufacturer	
	Model	TBD
Year	2018	

	Justification for New Antenna	An interim antenna is necessary to keep station on the air during primary antenna replacement. Station will attempt to rent if renting is available at time of acquisition.
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**Interim Antenna**

**Other Antenna Costs**

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

**Interim Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Transmission  
Line**

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

**Primary  
Transmission  
Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	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
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1050 feet per run

**Primary  
Transmission  
Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	70 feet per run
	Justification for New Transmission Line	Extension of existing line to top of tower for new post transition top mount antenna.

**Primary  
Transmission  
Line**

**Other Transmission Line Expenses Not Listed**

Information not provided.



**Interim  
Transmission  
Line**

**New Transmission Line**

Section	Question	Response
<p><b>New Transmission Line Costs</b></p>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Flexible Air
	Diameter	5 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	1050 feet per run
	Justification for New Transmission Line	<p>An interim transmission line is necessary for the existing antenna to keep station on the air during top mount antenna replacement and for the duration of the assigned phase. Station will attempt to rent if renting is available at time of acquisition.</p>

**Interim**                    **Other Transmission Line Expenses Not Listed**  
**Transmission** information not provided.  
**Line**

**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
<b>Existing Tower Description</b>	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	Terrain Constrained
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	Yes
<b>Existing Tower Structure Registration</b>	Do you have a tower registration number?	Yes
	ASR Number	1045615
<b>Coordinates (NAD83 (North American Datum of 1983))</b>	Latitude (NAD83)	38° 29' 41.3" N-
	Longitude (NAD83)	082° 12' 02.5" W-
	Overall Structure Height	1059.70 feet
	Support Structure Height	1020.33 feet
	Ground Elevation Above Mean Sea Level (AMSL)	940.28 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	WEST VIRGINIA EDUCATIONAL BROADCASTING AUTHORITY
Date Constructed	08/01/1968

**FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared**

Facility ID	Call Sign	Service
71656	WVWV	FM

**Other Types of Users**

Users
WVPB microwave

**Primary Tower**

**Tower Modification Costs**

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

**Primary Tower**

**Tower Rigging Costs**

Section	Question	Response
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<b>Tower Rigging Costs</b>	Complex Tower	Terrain constrained
<b>Helicopter Services Required</b>	Are helicopter services required?	Yes

**Primary Tower**

**Other Tower Expenses Not Listed**

<b>Name</b>	<b>Description</b>
<b>Structural Analysis</b>	Structural Analysis
<b>Geotechnical Report</b>	Geotechnical Report

**Outside Professional Services Costs**

Section	Question	Response
<p><b>Outside Project Management Services</b></p>	<p>Do you require outside project management services?</p>	<p>Yes</p>
	<p>Number of Hours</p>	<p>204</p>
	<p>Explanation</p>	<p>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.</p>
<p><b>Outside RF consulting Engineering Services</b></p>	<p>Perform engineering study for new channel assignment and antenna development</p>	<p>Yes</p>
	<p>Prepare engineering section of Form FCC Construction Permit Application</p>	<p>Yes</p>
	<p>For Auxiliary Facility</p>	<p>No</p>
	<p>For Main Facility</p>	<p>Yes</p>
	<p>Prepare engineering section of Form FCC License to Cover Application</p>	<p>Yes</p>
	<p>For Auxiliary Facility</p>	<p>No</p>
	<p>For Main Facility</p>	<p>Yes</p>
	<p>Prepare request for Special Temporary Authority</p>	<p>Yes</p>

	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
Address transition timing and coordination issues w/ other stations and wireless providers	Yes	
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	Yes
	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	Other Engineering Services
Other Legal Services	Other Legal Services



**Other Expenses**

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	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
<b>Permit and Filing Costs</b>	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
<b>Other Miscellaneous Expenses</b>	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other  
Expenses**

**Other Expenses Not Listed**

Name	Description
Other Equipment Costs	Other Equipment Costs

**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
<b>Primary Transmitter VAXTE-16R37</b>	<b>\$372,522.00</b>	<b>\$369,072.00</b>		<b>\$138,572.00</b>	
Additional Interior RF System	<i>\$140,000.00</i>	\$140,000.00	See Attachment	N/A	N/A
Standby Exciter and Switch	<i>\$25,000.00</i>	\$25,000.00	See Attachment	N/A	N/A
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
High VHF - Air Cooled Solid State Transmitter 12.8 kW	<i>\$138,572.00</i>	\$138,572.00	See attached / uploaded PDF file titled "Gates US034093 v210215jgv2.pdf"	\$138,572.00	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
<b>Sub-total</b>	<b>\$372,522.00</b>	<b>\$369,072.00</b>	N/A	<b>\$138,572.00</b>	N/A
<b>Total for all systems</b>	<b>\$3,147,291.08</b>	<b>\$2,523,689.08</b>	N/A	<b>\$218,223.02</b>	N/A

## Components

Actual Information Description	File Name
Additional Interior RF System	Information not provided.
Standby Exciter and Switch	Information not provided.
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Transformer 3 phase/480v - 150 KVA	Information not provided.
High VHF - Air Cooled Solid State Transmitter 12.8 kW	<b>Component Description:</b> Gates US0340093 v210312jgv3 <b>Amount:</b> \$138,572.00
Switchgear - industrial 800 amp	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
<b>Interim Antenna TBD</b>	<b>\$224,640.00</b>	<b>\$33,400.00</b>		<b>\$0.00</b>	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
High-VHF, One station antenna -- side mount, horizontally polarized	\$189,500.00	\$0.00	N/A	N/A	N/A
<b>Primary Antenna TBD</b>	<b>\$361,030.00</b>	<b>\$18,100.00</b>		<b>\$0.00</b>	

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$11,700.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
High-VHF, One station antenna -- top mount, horizontally polarized	\$342,000.00	\$0.00	N/A	N/A	N/A
<b>Sub-total</b>	\$585,670.00	\$51,500.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$3,147,291.08	\$2,523,689.08	N/A	\$218,223.02	N/A

## Components

Information not provided.

**Cost Information**

**Transmission Line**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Interim Transmission Line</b>	<b>\$110,250.00</b>	<b>\$105,000.00</b>		<b>\$0.00</b>	
Flexible Air Transmission Line - dielectric, 5"	\$110,250.00	\$105,000.00	N/A	\$0.00	N/A
<b>Primary Transmission Line</b>	<b>\$14,140.00</b>	<b>\$13,440.00</b>		<b>\$0.00</b>	
Rigid Transmission Line - copper, 6 1/8"	\$14,140.00	\$13,440.00	Extra length of line to extend from the existing side mount to the new top mount antenna.	N/A	N/A
<b>Sub-total</b>	<b>\$124,390.00</b>	<b>\$118,440.00</b>	N/A	<b>\$0.00</b>	N/A
<b>Total for all systems</b>	<b>\$3,147,291.08</b>	<b>\$2,523,689.08</b>	N/A	<b>\$218,223.02</b>	N/A

**Components**

Information not provided.

**Cost Information**

**Tower Equipment and Rigging Costs**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Primary Tower TOWER</b>	<b>\$1,765,800.00</b>	<b>\$1,691,500.00</b>		<b>\$16,500.00</b>	
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	N/A	N/A
Tower Helicopter Lift	<i>\$250,000.00</i>	\$250,000.00	Estimated cost is based on prior experience using helicopters for rigging.	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$400,000.00	N/A	N/A	N/A
Serious tower reinforcement /modifications	\$1,052,000.00	\$1,000,000.00	N/A	N/A	N/A
Structural Analysis	<i>\$3,500.00</i>	\$3,500.00	N/A	\$3,500.00	N/A



Geotechnical Report	<i>\$13,000.00</i>	\$13,000.00	N/A	\$13,000.00	N/A
<b>Sub-total</b>	\$1,765,800.00	\$1,691,500.00	N/A	\$16,500.00	N/A
<b>Total for all systems</b>	\$3,147,291.08	\$2,523,689.08	N/A	\$218,223.02	N/A

## Components

Actual Information	
Description	File Name
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Information not provided.
Tower Helicopter Lift	Information not provided.
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.
Serious tower reinforcement /modifications	Information not provided.
Structural Analysis	<p><b>Component Description:</b> TEP 484433 v210826pmv1</p> <p><b>Amount:</b> \$3,500.00</p>
Geotechnical Report	<p><b>Component Description:</b> TEP 495273 v210826pmv1</p> <p><b>Amount:</b> \$13,000.00</p>

**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
<b>Outside Professional Services</b>	<b>\$219,003.85</b>	<b>\$213,821.85</b>		<b>\$54,283.79</b>	
Other Legal Services	<i>\$30,286.85</i>	\$30,286.85	N/A	\$30,286.85	The amounts are the same.
Other Engineering Services	<i>\$5,575.00</i>	\$5,575.00	The Estimated Cost includes other engineering services such as RF calculations, evolving transition plan calculations, bid spec prep / distribution / award recommendation / etc and discussion, etc.	\$5,575.00	N/A
Additional Field Engineering Service, 18 Days	<i>\$36,000.00</i>	\$36,000.00	See attached quote from Kessler and Gehman Associates, Inc.	\$3,861.94	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	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), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$2,750.00	See attached / uploaded PDF files titled "KGA 575-431 v210315jgv1. pdf" and "KGA 575-441 v210315jgv1.pdf"	\$2,750.00	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	\$2,500.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,500.00	N/A

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$3,860.00	The Estimated Cost includes Form 399 submissions including ongoing Actual Cost invoice prep and submission, and amendments as needed.	\$3,860.00	N/A
Project management of the transition	\$32,232.00	\$30,600.00	N/A	\$1,950.00	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
<b>Sub-total</b>	\$219,003.85	\$213,821.85	N/A	\$54,283.79	N/A
<b>Total for all systems</b>	\$3,147,291.08	\$2,523,689.08	N/A	\$218,223.02	N/A

## Components

Actual Information Description	File Name
Other Legal Services	<p><b>Component Description:</b> Akin Gump 1896557 v211007pmv1b</p> <p><b>Amount:</b> \$1,470.00</p>

**Component Description:** Akin Gump  
1912342  
v211007pmv1  
**Amount:** \$840.00

**Component Description:** Akin Gump  
1884346  
v210929pmv1  
**Amount:** \$640.13

**Component Description:** Akin Gump  
1904270  
v211015pmv1  
**Amount:** \$4,158.00

**Component Description:** Akin Gump  
1925146  
v211015pmv1  
**Amount:** \$1,653.00

**Component Description:** Akin Gump  
1929274  
v211015pmv1  
**Amount:** \$2,573.00

**Component Description:** Akin Gump  
1914931  
v211015pmv1  
**Amount:** \$1,138.00

**Component Description:** Akin Gump  
1921363  
v211015pmv1  
**Amount:** \$326.25

**Component Description:** Akin Gump  
1719160  
v210923pmv1  
**Amount:** \$361.81

**Component Description:** Akin Gump  
1770885  
v210925pmv1  
**Amount:** \$36.00

**Component Description:** Akin Gump  
1757561  
v210925pmv1  
**Amount:** \$1,546.75

**Component Description:** Akin Gump  
1888451  
v210923pmv1  
**Amount:** \$896.75

**Component Description:** Akin Gump  
1714759  
v210923pmv1  
**Amount:** \$106.50

**Component Description:** Akin Gump  
1736519  
v210916pmv1  
**Amount:** \$491.50

**Component Description:** Akin Gump  
1742362  
v210916pmv1  
**Amount:** \$2,217.16

**Component Description:** Akin Gump  
1746414  
v210925pmv1  
**Amount:** \$126.00

**Component Description:** Akin Gump  
1727627  
v210916pmv1  
**Amount:** \$5,645.00

**Component Description:** Akin Gump  
1892904  
v210924pmv1  
**Amount:** \$5,948.50

**Component Description:** Akin Gump  
1884714  
v210929pmv2  
**Amount:** \$112.50

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Other Engineering Services

**Component Description:** KGA 575-420  
v200813pmv1  
**Amount:** \$1,900.00

**Component Description:** KGA 575-428  
v210322jgv2  
**Amount:** \$250.00

**Component Description:** KGA 575-443  
v210315jgv1  
**Amount:** \$2,200.00

**Component Description:** KGA 575-452  
v210315jgv1  
**Amount:** \$1,225.00

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<p>Additional Field Engineering Service, 18 Days</p>	<p><b>Component Description:</b> KGA 575-329 v210709jgv1</p> <p><b>Amount:</b> \$3,861.94</p>
<p>Comprehensive coverage verification via field study, if needed</p>	<p>Information not provided.</p>
<p>Attorney Fees - Prepare and File request for Special Temporary Authorization</p>	<p>Information not provided.</p>
<p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p>	<p>Information not provided.</p>
<p>Prepare request for Special Temporary Authorization</p>	<p><b>Component Description:</b> KGA 575-441 v210315jgv1</p> <p><b>Amount:</b> \$1,500.00</p> <p><b>Component Description:</b> KGA 575-431 v210315jgv1</p> <p><b>Amount:</b> \$1,250.00</p>
<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>
<p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p>	<p><b>Component Description:</b> KGA 575-334 v210720jgv1</p> <p><b>Amount:</b> \$2,500.00</p>
<p>Perform engineering study for new channel assignment and antenna development</p>	<p><b>Component Description:</b> KGA 575-334 v210720jgv1</p> <p><b>Amount:</b> \$3,500.00</p>



Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	<p><b>Component Description:</b></p> <p><b>Amount:</b></p> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> <p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>KGA 575-337 v210715jgv1 \$2,500.00</p> <p>KGA 575-446 v210315jgv1 \$620.00</p> <p>KGA 575-450 v210315jgv1 \$375.00</p> <p>KGA 575-440 v210315jgv1 \$365.00</p>
Project management of the transition	<p><b>Component Description:</b></p> <p><b>Amount:</b></p> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> <p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>KGA 575-354 v210713jgv1 \$225.00</p> <p>KGA 575-416 v200813pmv1 \$150.00</p> <p>KGA 575-378 v210709jgv1 \$150.00</p> <p>KGA 575-422 v200813pmv1 \$150.00</p>

**Component Description:** KGA 575-369  
v210713jgv1  
**Amount:** \$150.00

**Component Description:** KGA 575-402  
v200813pmv1  
**Amount:** \$150.00

**Component Description:** KGA 575-341  
v210713jgv1  
**Amount:** \$300.00

**Component Description:** KGA 575-347  
v210713jgv1  
**Amount:** \$225.00

**Component Description:** KGA 575-390  
v200813pmv1  
**Amount:** \$150.00

**Component Description:** KGA 575-363  
v210713jgv1  
**Amount:** \$150.00

**Component Description:** KGA 575-398  
v200813pmv1  
**Amount:** \$150.00

Attorney Fees -Prepare  
and File FCC Form 2100  
(main), License to Cover  
Application

Information not provided.

**Cost Information**

**Other Expenses**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$79,905.23</b>	<b>\$79,355.23</b>		<b>\$8,867.23</b>	
Other Equipment Costs	<i>\$1,355.23</i>	\$1,355.23	N/A	\$1,355.23	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	Estimated cost is based on the need for one day of outside consulting services.	\$1,850.00	N/A
Develop and air announcement of upcoming channel change	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Equipment Storage	<i>\$5,000.00</i>	\$5,000.00	Estimated cost is based on industry experience.	N/A	N/A

Equipment Delivery and Handling Charges	<i>\$50,000.00</i>	\$50,000.00	Based on review of various vendor proposals, equipment delivery and handling charges estimated to be \$10 K per major item, and this project is expected to include delivery and handling of 5 major items - 2 antennas, 1 transmission line, and 1 transmitter	\$2,162.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$10,000.00</i>	\$10,000.00	Estimated cost is based industry experience.	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$3,500.00	N/A
<b>Sub-total</b>	\$79,905.23	\$79,355.23	N/A	\$8,867.23	N/A
<b>Total for all systems</b>	\$3,147,291.08	\$2,523,689.08	N/A	\$218,223.02	N/A

## Components

Actual Information Description	File Name
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Other Equipment Costs	<p><b>Component Description:</b> Fastenal WVCH192232 v210830pmv1</p> <p><b>Amount:</b> \$675.27</p> <p><b>Component Description:</b> Fastenal WVCH191938 v210907pmv1</p> <p><b>Amount:</b> \$679.96</p>
MVPD Notification of Channel Change	<p><b>Component Description:</b> KGA 575-426 v200813pmv1</p> <p><b>Amount:</b> \$1,850.00</p>
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.
Equipment Delivery and Handling Charges	<p><b>Component Description:</b> Gates US0340093 v210312jgv3</p> <p><b>Amount:</b> \$2,162.00</p> <p><b>Component Description:</b> This invoice has been superceded</p> <p><b>Amount:</b> N/A</p>
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
DTV Medical Facility Notification	<p><b>Component Description:</b> KGA 575-423 v200813pmv1</p> <p><b>Amount:</b> \$3,500.00</p>

**Cost Information** **Grand Total**

	<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>	<b>Actual Cost</b>
<b>Total for all systems</b>	\$3,147,291.08	\$2,523,689.08	\$218,223.02

**Reimbursement Status**

<b>Question</b>	<b>Response</b>
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
	<p><b>Submission of Estimated Expenses Statements</b></p>	<p>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.</p>	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

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*

10/15/2021

Certification	Section	Question	Response
	<p><b>Submission of Actual Cost Documentation Statements</b></p>	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS 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 AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

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*

10/15/2021

## Attachments