



(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 **08/05**
Submitted: **/2022**

Applicant Information Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
West Virginia Educational Broadcasting Authority	Butch Antolini 600 Capitol Street Charleston, WV 25301 United States	+1 (304) 556-4939	bantolini@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
Robert Gehman <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
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	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
New Transmitter	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
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 leasehold 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
Standby Exciter and Switch	Standby Exciter with Automatic Change Over Switch
Additional Interior RF System	Interior RF System Existing Transmitter to Interim Transmission line
Other Transmitter Costs	Other Transmitter Costs

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?	Yes
	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	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	

Model	PSILPD18D88C-34
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?	Yes
	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)	30.0 kW
	Manufacturer	
	Model	PSIVHCB6PN- 9-EP

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
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**Primary
Antenna**

Other Antenna Cost Not Listed

Name	Description
Other Antenna Costs	Other Antenna Costs

**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)	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
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for 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?	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
Existing Transmission Line Description	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
Existing Transmission Line Manufacturer and Type	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
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	3 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1074 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

Name	Description
Other Transmission Line Parts	Other Transmission Line Parts

**Interim
Transmission
Line**

New Transmission Line

Section	Question	Response
<p>New Transmission Line Costs</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
Existing Tower Description	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
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1045615
Coordinates (NAD83 (North American Datum of 1983))	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
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Serious Reinforcements needed

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Geotechnical Report	Geotechnical Report
Structural Analysis	Structural Analysis
Weather Days	Weather Days

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	204
	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	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
Address transition timing and coordination issues w/ other stations and wireless providers	Yes	
RF Field Engineering Services	Comprehensive coverage verification via field study	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
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

Name	Description
Other Equipment Costs	Other Equipment Costs
Temporary Joint Use and Facilities Agreement	Temporary Joint Use and Facilities Agreement

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 VAXTE-16R37	\$264,543.24	\$232,147.63		\$177,947.63	
Additional Interior RF System	<i>\$15,994.99</i>	\$15,994.99	See Attachment	\$15,994.99	N/A
High VHF - Air Cooled Solid State Transmitter 12.8 kW	<i>\$151,613.00</i>	\$151,613.00	See attached / uploaded PDF file titled "Gates US034093 v210215jgv2.pdf"	\$151,613.00	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$7,354.39	N/A	\$7,354.39	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
Standby Exciter and Switch	<i>\$25,000.00</i>	\$25,000.00	See Attachment	N/A	N/A
Other Transmitter Costs	<i>\$2,985.25</i>	\$2,985.25	N/A	\$2,985.25	N/A
Sub-total	\$264,543.24	\$232,147.63	N/A	\$177,947.63	N/A

Total for all systems	\$3,187,665.75	\$2,371,032.14	N/A	\$1,107,082.14	N/A
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Components

Actual Information	
Description	File Name
Additional Interior RF System	<p>Component Description: Holzberg 71538 v220321pmv1</p> <p>Amount: \$15,994.99</p>
High VHF - Air Cooled Solid State Transmitter 12.8 kW	<p>Component Description: Gates US0340093 v210312jgv3</p> <p>Amount: \$138,572.00</p> <p>Component Description: Gates US0343266-343267 v220320pmv1</p> <p>Amount: \$13,041.00</p>
Switchgear - industrial 800 amp	<p>Component Description: Pillar 377407 v220428pmv2</p> <p>Amount: \$7,354.39</p>
Transformer 3 phase/480v - 150 KVA	Information not provided.
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Standby Exciter and Switch	Information not provided.

Other Transmitter Costs

Component Description: Pillar 384259
v220805pmv1
Amount: \$668.49

Component Description: SCMS INV43585
v220321pmv1
Amount: \$2,316.76

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 TBD	\$224,640.00	\$33,400.00		\$0.00	
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
High-VHF, One station antenna -- side mount, horizontally polarized	\$189,500.00	\$0.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	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
Primary Antenna PSIVHCB6PN-9-EP	\$149,578.00	\$148,648.00		\$130,548.00	
Other Antenna Costs	<i>\$3,256.00</i>	\$3,256.00	N/A	\$3,256.00	N/A

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
High VHF - High Power Top Mount One Station elliptically or circularly polarized	\$127,292.00	\$127,292.00	N/A	\$127,292.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A
Sub-total	\$374,218.00	\$182,048.00	N/A	\$130,548.00	N/A
Total for all systems	\$3,187,665.75	\$2,371,032.14	N/A	\$1,107,082.14	N/A

Components

Actual Information	
Description	File Name
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
High-VHF, One station antenna -- side mount, horizontally polarized	Information not provided.
Sweep test of existing antenna	Information not provided.
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.

Other Antenna Costs	<p>Component Description: SCMS INV28191 v220321pmv1</p> <p>Amount: \$3,256.00</p>
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.
High VHF - High Power Top Mount One Station elliptically or circularly polarized	<p>Component Description: PSI 2208 v220428pmv2a</p> <p>Amount: \$127,292.00</p>
Sweep test of existing antenna	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
Interim Transmission Line	\$110,250.00	\$105,000.00		\$0.00	
Flexible Air Transmission Line - dielectric, 5"	\$110,250.00	\$105,000.00	N/A	\$0.00	N/A
Primary Transmission Line	\$132,778.00	\$86,882.00		\$86,882.00	
Rigid Transmission Line - copper, 3 1/8"	\$111,696.00	\$65,800.00	N/A	\$65,800.00	N/A
Other Transmission Line Parts	<i>\$21,082.00</i>	\$21,082.00	N/A	\$21,082.00	N/A
Sub-total	\$243,028.00	\$191,882.00	N/A	\$86,882.00	N/A
Total for all systems	\$3,187,665.75	\$2,371,032.14	N/A	\$1,107,082.14	N/A

Components

Actual Information	
Description	File Name
Flexible Air Transmission Line - dielectric, 5"	Information not provided.
Rigid Transmission Line - copper, 3 1/8"	<p>Component Description: PSI 2208 v220428pmv2a</p> <p>Amount: \$65,800.00</p>

Other Transmission Line Parts	Component Description: PSI 2208 v220428pmv2a Amount: \$21,082.00
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Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$1,952,050.00	\$1,477,750.00		\$452,750.00	
Weather Days	<i>\$27,750.00</i>	\$27,750.00	N/A	\$27,750.00	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	N/A	N/A
Tower Helicopter Lift	<i>\$407,500.00</i>	\$407,500.00	Estimated cost is based on prior experience using helicopters for rigging.	\$407,500.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$0.00	See attached / uploaded PDFs titled "FairLifts I-00048932 v220321pmv1, FairLifts I-00048933 v220321pmv1, FairLifts I-00049814 v220321pmv1"	\$0.00	N/A

Serious tower reinforcement /modifications	\$1,052,000.00	\$1,000,000.00	N/A	N/A	N/A
Structural Analysis	<i>\$4,500.00</i>	\$4,500.00	N/A	\$4,500.00	N/A
Geotechnical Report	<i>\$13,000.00</i>	\$13,000.00	N/A	\$13,000.00	N/A
Sub-total	\$1,952,050.00	\$1,477,750.00	N/A	\$452,750.00	N/A
Total for all systems	\$3,187,665.75	\$2,371,032.14	N/A	\$1,107,082.14	N/A

Components

Actual Information	
Description	File Name
Weather Days	<p>Component Description: FairLifts I-00049814 v220428pmv2</p> <p>Amount: \$27,750.00</p>
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	Information not provided.

Tower Helicopter Lift	<p>Component Description: FairLifts I-00048933 v220428pmv2</p> <p>Amount: \$60,000.00</p> <p>Component Description: FairLifts I-00048932 v220428pmv2</p> <p>Amount: \$132,000.00</p> <p>Component Description: FairLifts I-00049814 v220428pmv2</p> <p>Amount: \$215,500.00</p>
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	<p>Component Description: Moved to 'Tower Helicopter Lift'</p> <p>Amount: N/A</p> <p>Component Description: Moved to 'Tower Helicopter Lift'</p> <p>Amount: N/A</p> <p>Component Description: Moved to 'Tower Helicopter Lift'</p> <p>Amount: N/A</p>
Serious tower reinforcement /modifications	Information not provided.

Structural Analysis	<p data-bbox="711 174 1318 293">Component Description: TEP 484433 v210826pmv1 Amount: \$3,500.00</p> <p data-bbox="711 398 1318 517">Component Description: Pillar 381715 v220321pmv1 Amount: \$1,000.00</p>
Geotechnical Report	<p data-bbox="711 649 1318 768">Component Description: TEP 495273 v210826pmv1 Amount: \$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
Outside Professional Services	\$198,010.36	\$139,438.36		\$126,188.36	
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 engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,000.00	N/A	\$1,000.00	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
Project management of the transition	\$32,232.00	\$1,950.00	N/A	\$1,950.00	N/A
Other Legal Services	<i>\$40,806.42</i>	\$40,806.42	N/A	\$40,806.42	The amounts are the same

Other Engineering Services	\$6,200.00	\$6,200.00	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.	\$6,200.00	N/A
Additional Field Engineering Service, 18 Days	\$3,861.94	\$3,861.94	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	\$48,260.00	N/A	\$48,260.00	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 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 and or review reimbursement form	\$2,630.00	\$15,360.00	The Estimated Cost includes Form 399 submissions including ongoing Actual Cost invoice prep and submission, and amendments as needed.	\$15,360.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$3,500.00	N/A	\$3,500.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$2,500.00	N/A	\$2,500.00	N/A
Sub-total	\$198,010.36	\$139,438.36	N/A	\$126,188.36	N/A
Total for all systems	\$3,187,665.75	\$2,371,032.14	N/A	\$1,107,082.14	N/A

Components

Actual Information	
Description	File Name
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	<p>Component Description: KGA 575-458 v211229pmv1</p> <p>Amount: \$1,000.00</p>

Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Project management of the transition	Component Description:	KGA 575-402 v200813pmv1
	Amount:	\$150.00
	Component Description:	KGA 575-390 v200813pmv1
	Amount:	\$150.00
	Component Description:	KGA 575-422 v200813pmv1
	Amount:	\$150.00
	Component Description:	KGA 575-347 v210713jgv1
	Amount:	\$225.00
	Component Description:	KGA 575-354 v210713jgv1
	Amount:	\$225.00
	Component Description:	KGA 575-378 v210709jgv1
	Amount:	\$150.00
	Component Description:	KGA 575-416 v200813pmv1
	Amount:	\$150.00
	Component Description:	KGA 575-398 v200813pmv1
	Amount:	\$150.00

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

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

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

Other Legal Services

Component Description: Akin Gump
1959540
v220304pmv1
Amount: \$118.87

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

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

Component Description: Akin Gump
1914931
v211015pmv1
Amount: N/A

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

Component Description: Akin Gump
1950551
v220304pmv1
Amount: \$412.30

Component Description: Akin Gump
1955161
v220304pmv1
Amount: \$74.30

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

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

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

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

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

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

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

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

Component Description: Akin Gump
1904270
v2220310pmv2
Amount: \$2,730.00

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

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

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

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

Component Description: Akin Gump
1965164
v220304pmv1
Amount: \$40.00

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

Component Description: Akin Gump
1896557
v211007pmv1b
Amount: \$1,470.00

Component Description: Akin Gump
1958259
v211026pmv1
Amount: \$12,440.10

Other Engineering Services	<p>Component Description: KGA 575-428 v210322jgv2</p> <p>Amount: \$250.00</p> <p>Component Description: KGA 575-420 v200813pmv1</p> <p>Amount: \$1,900.00</p> <p>Component Description: KGA 575-443 v210315jgv1</p> <p>Amount: \$2,200.00</p> <p>Component Description: KGA 575-465 v211229pmv1</p> <p>Amount: \$625.00</p> <p>Component Description: KGA 575-452 v210315jgv1</p> <p>Amount: \$1,225.00</p>
Additional Field Engineering Service, 18 Days	<p>Component Description: KGA 575-329 v210709jgv1</p> <p>Amount: \$3,861.94</p>
Comprehensive coverage verification via field study, if needed	<p>Component Description: KGA 575-501 v220303jgv1</p> <p>Amount: \$48,260.00</p>
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.

Prepare request for Special Temporary Authorization	Component Description: KGA 575-431 v210315jgv1 Amount: \$1,250.00
	Component Description: KGA 575-441 v210315jgv1 Amount: \$1,500.00
Prepare and or review reimbursement form	Component Description: KGA 575-477 v220105pmv1 Amount: \$805.00
	Component Description: KGA 575-523 v220304pmv1 Amount: \$405.00
	Component Description: KGA 575-509 v220124jgv1 Amount: \$230.00
	Component Description: KGA 575-450 v210315jgv1 Amount: \$375.00
	Component Description: KGA 575-446 v210315jgv1 Amount: \$620.00
	Component Description: KGA 575-440 v210315jgv1 Amount: \$365.00
	Component Description: KGA 575-462 v220214pmv1 Amount: \$1,050.00

Component Description: KGA 575-500
v220105pmv1
Amount: \$875.00

Component Description: KGA 575-525
v220322jgv1
Amount: \$3,255.00

Component Description: KGA 575-495
v220105pmv1
Amount: \$1,120.00

Component Description: KGA 575-457
v220105pmv1
Amount: \$975.00

Component Description: KGA 575-337
v210715jgv1
Amount: \$2,500.00

Component Description: KGA 575-486
v211029pmv1
Amount: \$1,410.00

Component Description: KGA 575-516
v220214pmv1
Amount: \$375.00

Component Description: KGA 575-470
v220105pmv1
Amount: \$1,000.00

Perform engineering study
for new channel
assignment and antenna
development

Component Description: KGA 575-334
v210720jgv1
Amount: \$3,500.00

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

Component Description:

KGA 575-334
v210720jgv1

Amount:

\$2,500.00

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	\$155,816.15	\$147,766.15		\$132,766.15	
Other Equipment Costs	<i>\$1,355.23</i>	\$1,355.23	N/A	\$1,355.23	N/A
MVPD Notification of Channel Change	<i>\$1,850.00</i>	\$1,850.00	Estimated cost is based on the need for one day of outside consulting services.	\$1,850.00	N/A
Equipment Delivery and Handling Charges	<i>\$6,060.92</i>	\$6,060.92	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	\$6,060.92	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	\$3,500.00	N/A	\$3,500.00	N/A
Temporary Joint Use and Facilities Agreement	<i>\$120,000.00</i>	\$120,000.00	N/A	\$120,000.00	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
Sub-total	\$155,816.15	\$147,766.15	N/A	\$132,766.15	N/A
Total for all systems	\$3,187,665.75	\$2,371,032.14	N/A	\$1,107,082.14	N/A

Components

Actual Information	
Description	File Name

Other Equipment Costs	<p>Component Description: Fastenal WVCH192232 v210830pmv1</p> <p>Amount: \$675.27</p> <p>Component Description: Fastenal WVCH191938 v210907pmv1</p> <p>Amount: \$679.96</p>
MVPD Notification of Channel Change	<p>Component Description: KGA 575-426 v200813pmv1</p> <p>Amount: \$1,850.00</p>
Equipment Delivery and Handling Charges	<p>Component Description: Pillar 375775 v220321pmv1</p> <p>Amount: \$2,295.00</p> <p>Component Description: Sunbelt 105222851-0001 v220321pmv1</p> <p>Amount: \$1,603.92</p> <p>Component Description: Gates US0340093 v210312jgv3</p> <p>Amount: \$2,162.00</p> <p>Component Description: This invoice has been superceded</p> <p>Amount: N/A</p>
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.

DTV Medical Facility Notification	<p>Component Description: KGA 575-423 v200813pmv1</p> <p>Amount: \$3,500.00</p>
Temporary Joint Use and Facilities Agreement	<p>Component Description: Nexstar WOWK 11-01-20 v220321pmv1</p> <p>Amount: \$20,000.00</p> <p>Component Description: Nexstar WOWK 12-01-20 v220321pmv1</p> <p>Amount: \$20,000.00</p> <p>Component Description: Nexstar WOWK 10-01-20 v220321pmv1</p> <p>Amount: \$20,000.00</p> <p>Component Description: Nexstar WOWK 03-01-21 v220321pmv1</p> <p>Amount: \$20,000.00</p> <p>Component Description: Nexstar WOWK 01-01-21 v220321pmv1</p> <p>Amount: \$40,000.00</p>
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.

Cost Information **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,187,665.75	\$2,371,032.14	\$1,107,082.14

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.	Yes
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.	Yes

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<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"> 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*

08/05/2022

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<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"> 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*

08/05/2022

Certification	Section	Question	Response
	Submission of Final Allocation or Accounting Information Statements	<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"> 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 2. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	

3. The above-named entity certifies that all costs identified as "actual costs" herein accurately represent the costs actually paid by the above-named entity, including any discounts, refunds, or rebates.
4. 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.
5. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
6. 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*

08/05/2022

Attachments