



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **69271** | Service: **DTV** | Call **WEKW-TV** | Channel: **18 (UHF)**
ID: | Sign:
File **0000027760**
Number:
FRN: **0021895115** | Date **05/07**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
NEW HAMPSHIRE PUBLIC BROADCASTING Doing Business As: NEW HAMPSHIRE PUBLIC BROADCASTING	Dawn DeAngelis 268 MAST ROAD DURHAM, NH 03824 United States	+1 (603) 868-4304	ddeangelis@nhpbs.org	Not-for-Profit

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
Ryan Wilhour <i>Consulting Engineer</i> <i>Kessler and Gehman Associates, Inc.</i>	507 NW 60th ST STE D Gainesville, FL 32607 United States	+1 (352) 332-3157	ryan@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.	Yes
Briefly describe transition plan	Replace transmitter, antenna and transmission 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

**Auxiliary
Transmitter****Add Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	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	NV7250
	Year	2002
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	4 kW

**Auxiliary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	MPTV-PRLX- U3
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	5 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.

**Auxiliary
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	2 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

Auxiliary Transmitter **Other Transmitter Cost Not Listed**
Information not provided.

**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	AT7105K0
	Year	2011
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	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	MPTV-PRLX-U3
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	5 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	1.25 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

Antennas

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

**Primary
Antenna**

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	1
	Number of Panels	48
	Design power capacity in use	35.0 %
	Lower Limit	470.00 MHz
	Upper Limit	860.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	112.0 kW

Manufacturer	
Model	9551310-4660
Year	2002

**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?	No
	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	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)	66.0 kW
	Manufacturer	
Model	TBD	

Year	2018
Justification for New Antenna	This is a large change in channels from 49 to 18 and the existing primary broadband antenna has not been performance tested on the assigned channel. The station will use existing if possible. ERP is from 1% expansion.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	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
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel

	Feed Line Size	4 1/16 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary
Antenna**

Other Antenna Cost Not Listed

Information not provided.

**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?	No
	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)	112.0 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 and for the duration of the assigned phase. 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?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	3 1/8 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?	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	4 1/16 inches
	Other Diameter	N/A
	Segment Length	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	475 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	4 1/16 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	480 feet per run

Justification for New Transmission Line

The line might be compatible with the assigned channel. A new line is included in case the performance is unacceptable on the assigned channel. The station will utilize the existing line if the sweep tests confirm acceptable performance.

Primary Transmission Line **Other Transmission Line Expenses Not Listed**
Information not provided.

**Interim
Transmission
Line**

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Flexible Air
	Diameter	3 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	380 feet per run
	Justification for New Transmission Line	An interim transmission line is necessary to keep station on the air during primary line replacement. Station will attempt to rent if renting is available at time of acquisition.

**Interim
Transmission
Line**

Other Transmission Line Expenses Not Listed

Information not provided.

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	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?	No
	ASR Number	
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	43° 01' 59.9" N-
	Longitude (NAD83)	072° 22' 02.0" W-
	Overall Structure Height	499.99 feet
	Support Structure Height	455.05 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1517.04 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	New Hampshire Public Broadcasting
Date Constructed	01/01/1967

**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
46334	WKKN	FM
48413	WVMA-CD	DTV
48440	WEVN	FM
36834	WKNE	FM

Other Types of Users

Users
12 mwave dishes

**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
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Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

Outside Professional Services Costs

Section	Question	Response
<p>Outside Project Management Services</p>	<p>Do you require outside project management services?</p>	<p>Yes</p>
	<p>Number of Hours</p>	<p>40</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>Outside RF consulting Engineering Services</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
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	6
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 Legal Services	Legal services not specifically listed under Outside Professional Services
Other Engineering Services	Engineering services not specifically listed under Outside Professional 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?	No
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other
Expenses**

Other Expenses Not Listed

Information not provided.

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter MPTV-PRLX-U3	\$744,879.73	\$407,748.96		\$182,114.02	
Additional Interior RF System	<i>\$140,000.00</i>	\$140,000.00	N/A	N/A	N/A
Standby Exciter and Switch	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
1.25" Rigid Conduit and Wiring	<i>\$929.73</i>	\$929.73	See attached / uploaded PDF files that are Home Depot receipts and Needham Electric Supply invoices.	\$894.79	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 4.9 . 6.5 kW	\$273,500.00	\$180,770.00	See attached / uploaded PDF file titled "Comark S10543-1 v200127jgv1. pdf"	\$180,770.00	N/A
UHF - Air Cooled Solid State Transmitter 4 - 6 kW	\$236,500.00	\$128.89	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$128.89	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$320.34	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$320.34	N/A
Auxiliary Transmitter MPTV-PRLX- U3	\$339,850.00	\$295,680.00		\$220,951.00	
2" Rigid Conduit and Wiring (Cost per foot)	\$2,600.00	\$2,500.00	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 4.9 . 6.5 kW	\$273,500.00	\$232,580.00	N/A	\$220,951.00	N/A
Sub-total	\$1,084,729.73	\$703,428.96	N/A	\$403,065.02	N/A
Total for all systems	\$2,354,899.73	\$1,922,967.46	N/A	\$444,356.42	N/A

Components

Actual Information	
Description	File Name
Additional Interior RF System	Information not provided.
Standby Exciter and Switch	Information not provided.
1.25" Rigid Conduit and Wiring	<p>Component Description: Needham S5324411.003 v200325jgv1</p> <p>Amount: \$346.68</p> <p>Component Description: HD 3488 00051 92976 v200325jgv1</p> <p>Amount: \$22.15</p> <p>Component Description: HD 3488 00001 50763 v200228jgv1</p> <p>Amount: \$106.78</p> <p>Component Description: HD 3488 00061 59545 v200325jgv1</p> <p>Amount: \$29.08</p>

	<p>Component Description: HD 3488 00062 37440 v200325jgv1</p> <p>Amount: \$28.56</p>
	<p>Component Description: HD 3403 00061 72225 v200325jgv1</p> <p>Amount: \$8.10</p>
	<p>Component Description: Needham S5324411.002 v200325jgv1</p> <p>Amount: \$353.44</p>
	<p>Component Description: HD 3488 00062 46466 v200325jgv1</p> <p>Amount: \$34.94</p>
Transformer 3 phase/480v - 150 KVA	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	<p>Component Description: Comark S10543-1 v200127jgv1</p> <p>Amount: \$90,385.00</p> <p>Component Description: Comark S10543-2 v200403jgv1</p> <p>Amount: \$81,346.50</p> <p>Component Description: Comark S10543-3 v200403jgv1</p> <p>Amount: \$9,038.50</p>

<p>UHF - Air Cooled Solid State Transmitter 4 - 6 kW</p>	<p>Component Description: Support Base for backup TX heat exchanger - preparation for new transmitter installation</p> <p>Amount: \$53.48</p> <p>Component Description: Needham inv #S4909377.002 Parts to move exist TX heat exch to make space for the new TX v190501jgv2</p> <p>Amount: \$75.41</p>
<p>3" Rigid Conduit and Wiring (Cost per foot)</p>	<p>Component Description: HD 3488 00062 18481 v200304jgv1</p> <p>Amount: \$320.34</p> <p>Component Description: Invoice is being applied to a different component</p> <p>Amount: N/A</p>
<p>2" Rigid Conduit and Wiring (Cost per foot)</p>	<p>Information not provided.</p>
<p>Transformer 3 phase/480v - 150 KVA</p>	<p>Information not provided.</p>
<p>Switchgear - industrial 800 amp</p>	<p>Information not provided.</p>

UHF - Liquid Cooled Solid
State Transmitter 4.9 . 6.5
kW

Component Description: Comark S10544-1
v200127jgv1
Amount: \$116,290.00

Component Description: Comark S10544-2
v200403jgv1
Amount: \$104,661.00

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	\$132,140.00	\$125,800.00		\$0.00	
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
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	\$7,600.00	\$7,400.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	N/A	N/A

UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	\$89,400.00	\$85,000.00	N/A	N/A	N/A
Primary Antenna TBD	\$263,300.00	\$252,575.00		\$8,475.00	
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$9,100.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$8,475.00	The contractor needed to add adapters to connect to the existing line to perform the Sweep measurements. The adapters are in the quote.	\$8,475.00	t
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$235,000.00	N/A	N/A	N/A
Sub-total	\$395,440.00	\$378,375.00	N/A	\$8,475.00	N/A

Total for all systems	\$2,354,899.73	\$1,922,967.46	N/A	\$444,356.42	N/A
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Components

Actual Information	
Description	File Name
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	Information not provided.
Sweep test of existing antenna	Information not provided.
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	Information not provided.
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	Information not provided.
Sweep test of existing antenna	<p>Component Description: Adapters to facilitate Sweep tests</p> <p>Amount: \$2,075.00</p> <p>Component Description: Sweep of existing Myat broadband line and MCI panel antenna</p> <p>Amount: \$6,400.00</p>

UHF - High Power Top
Mount (200-1000 kW), One
station antenna, horizontally
polarized

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	\$22,420.00	\$21,280.00		\$0.00	
Flexible Air Transmission Line - dielectric, 3"	\$22,420.00	\$21,280.00	N/A	N/A	N/A
Primary Transmission Line	\$68,160.00	\$64,800.00		\$0.00	
Rigid Transmission Line - copper, 4 1/16"	\$68,160.00	\$64,800.00	N/A	N/A	N/A
Sub-total	\$90,580.00	\$86,080.00	N/A	\$0.00	N/A
Total for all systems	\$2,354,899.73	\$1,922,967.46	N/A	\$444,356.42	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
Primary Tower TOWER	\$531,500.00	\$505,000.00		\$1,991.40	
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	\$1,991.40	Tower Structural Analysis
Short Tower (less than 500')	\$84,200.00	\$80,000.00	N/A	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	N/A	N/A
Sub-total	\$531,500.00	\$505,000.00	N/A	\$1,991.40	N/A
Total for all systems	\$2,354,899.73	\$1,922,967.46	N/A	\$444,356.42	N/A

Components

Actual Information	
Description	File Name

<p>Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study</p>	<p>Component Description: Legal services related to Tower Structural Analysis. Please refer to attachment "Sheehan Tower (rev)".</p> <p>Amount: \$354.90</p> <p>Component Description: Legal services related to Tower Structural Analysis. Please refer to attachment "Sheehan Tower 2 (rev)".</p> <p>Amount: \$136.50</p> <p>Component Description: Structural Analysis for proposed antenna loading</p> <p>Amount: \$1,500.00</p>
<p>Short Tower (less than 500')</p>	<p>Information not provided.</p>
<p>Major tower reinforcement /modifications</p>	<p>Information not provided.</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	\$169,100.00	\$167,083.50		\$23,567.00	
Other Engineering Services	<i>\$20,870.00</i>	\$20,870.00	N/A	\$2,920.00	N/A
Other Legal Services	<i>\$15,000.00</i>	\$15,000.00	N/A	\$570.00	N/A
Additional Field Engineering Service, 6 Days	<i>\$12,000.00</i>	\$12,000.00	N/A	N/A	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), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$90.00	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	\$1,457.50	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,000.00	FCC CP application
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,250.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$3,361.00	Prep Original Form 399. Includes additional consultation regarding reimbursable items.

Project management of the transition	\$6,320.00	\$6,160.00	N/A	\$3,115.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$6,803.50	The cost estimate includes Form 399 submissions including ongoing Actual Cost invoice prep and submission by KGA, and amendments as needed.	\$6,803.50	N/A
Sub-total	\$169,100.00	\$167,083.50	N/A	\$23,567.00	N/A
Total for all systems	\$2,354,899.73	\$1,922,967.46	N/A	\$444,356.42	N/A

Components

Actual Information	
Description	File Name

Other Engineering Services

Component Description: KGA 211-99
v191030jgv1
Amount: \$425.00

Component Description: RF calculations for
new equipment
selection
Amount: \$265.00

Component Description: KGA 211-76
v190624jgv1
Amount: \$900.00

Component Description: KGA 211-108
v200210jgv1
Amount: \$425.00

Component Description: KGA 211-78
v190711jgv1
Amount: \$375.00

Component Description: KGA 211-55
v200210jgv1
Amount: \$265.00

Component Description: Prep and submit
actual cost invoices
Amount: \$530.00

Other Legal Services	<p>Component Description: GSB 720206 v190826jgv1</p> <p>Amount: \$240.00</p> <p>Component Description: GSB 711243 v190624jgv1</p> <p>Amount: \$120.00</p> <p>Component Description: Foster Garvey 2739594 v200207jgv1</p> <p>Amount: \$210.00</p>
Additional Field Engineering Service, 6 Days	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.

<p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p>	<p>Component Description: 4 items on invoice for various Legal services related to Repack for WEKW.</p> <p>Amount: \$119.25</p> <p>Component Description: Legal services related to the 2100 Main CP application for WEKW</p> <p>Amount: \$90.00</p> <p>Component Description: Legal services related to Quarterly report for WEKW</p> <p>Amount: \$30.00</p>
<p>Prepare request for Special Temporary Authorization</p>	<p>Component Description: KGA 211-115 v200217jgv2</p> <p>Amount: \$1,457.50</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>Component Description: FCC CP application for main facility</p> <p>Amount: \$2,000.00</p>
<p>Perform engineering study for new channel assignment and antenna development</p>	<p>Component Description: Engineering study for new channel assignment and antenna development</p> <p>Amount: \$3,250.00</p>

Address transition timing and coordination issues w/ other stations and wireless	Component Description:	Additional consultation regarding reimbursable items.
	Amount:	\$861.00
	Component Description:	Prep of original Form 399 for reimbursement
	Amount:	\$2,500.00
Project management of the transition	Component Description:	KGA 211-83 v190711jgv1
	Amount:	\$150.00
	Component Description:	KGA 211-127 v200507jgv1
	Amount:	\$150.00
	Component Description:	KGA 211-117 v200507jgv1
	Amount:	\$150.00
	Component Description:	KGA 211-57 v200210jgv1
	Amount:	\$150.00
	Component Description:	Proj Mgmt for 3Q2017 Prog Rept
	Amount:	\$300.00
	Component Description:	KGA inv #211-45 Form 387 2018 Q1 UL20190301jgv2
	Amount:	\$225.00

Component Description: KGA 211-52
v200210jgv1
Amount: \$150.00

Component Description: Prep and submit
Form 387 3Q18
Amount: \$150.00

Component Description: Prepare and submit
Sched 387
Amount: \$225.00

Component Description: KGA inv #211-33
Actual Cost
UL20190301jgv2
Amount: \$300.00

Component Description: Prepare and submit
Sched 399 actual
charges
Amount: \$375.00

Component Description: KGA 211-97
v200210jgv1
Amount: \$150.00

Component Description: KGA inv #211-69
Form 387 2019 Q1
UL20190424jgv1
Amount: \$150.00

Component Description: KGA 211-117
v200206jgv1
Amount: \$150.00

Component Description: Prepare and submit
Sched 387
Amount: \$225.00

Component Description: One half the cost of
checks for the
reimbursement
bank account,
shared between
repack stations
WEKW and WLED
Amount: \$25.00

Component Description: Preliminary design
of RF transmission
facilities for planning
Amount: \$315.00

Component Description: Proj Mgmt 399
Actual Cost invoices
Amount: \$300.00

Component Description: KGA inv #211-40
Actual Cost
UL20190301jgv2
Amount: \$375.00

Component Description: KGA inv #211-38
Form 387 2017 Q4
UL20190301jgv2
Amount: \$225.00

Component Description: KGA inv #211-43
Other Eng Srvcs
UL20190301jgv2
Amount: \$315.00

Component Description: KGA 211-49
v200210jgv1
Amount: \$150.00

Component Description: KGA inv #211-31
Form 387 2017 Q3
UL20190301jgv2
Amount: \$300.00

Prepare and or review
reimbursement form

Component Description: KGA 211-93
v191030jgv1
Amount: \$125.00

Component Description: KGA 211-86
v190826jgv1
Amount: \$425.00

Component Description: KGA 211-110
v200127jgv1
Amount: \$125.00

Component Description: KGA 211-101
v191115jgv1
Amount: \$175.00

Component Description: KGA 211-123
v200507jgv1
Amount: \$1,075.00

Component Description: KGA 211-118
v200507jgv1
Amount: \$575.00

Component Description: KGA 211-112
v200507jgv1
Amount: \$350.00

Component Description: KGA 211-79
v190711jgv1
Amount: \$225.00

Component Description: KGA 211-121
v200324jgv1
Amount: \$1,075.00

Component Description: KGA inv #211-71
Actual Cost invoices
by RG March 2019
UL20190424jgv1
Amount: \$50.00

Component Description: KGA 211-81
v190711jgv1
Amount: \$275.00

Component Description: KGA 211-54
v200210jgv1
Amount: \$530.00

Component Description: KGA 211-63
v200211jgv1
Amount: \$775.00

Component Description: KGA 211-129
v200507jgv1
Amount: \$875.00

Component Description: KGA 211-91
v190916jgv1
Amount: \$175.00

Component Description: KGA 211-74
v190624jgv1
Amount: \$503.50

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	\$83,550.00	\$83,000.00		\$7,258.00	
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	\$1,833.00	N/A
Develop and air announcement of upcoming channel change	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$60,000.00</i>	\$60,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$5,425.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
Sub-total	\$83,550.00	\$83,000.00	N/A	\$7,258.00	N/A
Total for all systems	\$2,354,899.73	\$1,922,967.46	N/A	\$444,356.42	N/A

Components

Actual Information Description	File Name
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MVPD Notification of Channel Change	<p>Component Description: KGA 211-107 v200210jgv1</p> <p>Amount: \$1,833.00</p>
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.
DTV Medical Facility Notification	<p>Component Description: KGA 211-106 v200210jgv1</p> <p>Amount: \$5,425.00</p>
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.

Cost Information **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$2,354,899.73	\$1,922,967.46	\$444,356.42

Reimbursement Status

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

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

05/07/2020

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

05/07/2020

Attachments