



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **69328** | Service: **DTV** | Call **WLED-TV** | Channel: **23 (UHF)** |  
ID: | Sign: |  
File **0000027752**  
Number:  
FRN: **0021895115** | Date **01/11**  
Submitted: **/2021**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>NEW HAMPSHIRE PUBLIC BROADCASTING</b> 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
<b>Ryan C Wilhour</b> <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.		No
Briefly describe transition plan		Replace transmitter and antenna using existing transmission line. Acquire interim antenna and line for continued operation during line replacement 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
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	NV7250
	Year	2001
	Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power Capacity	4 kW

**Auxiliary  
Transmitter****New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	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
<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No

	Size	N/A
	Length	N/A
	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

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

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<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	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	5.2 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
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Heating and Cooling
	Size	5 tons
	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**

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



**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?	No
	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	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	108.0 kW

Manufacturer	
Model	TFU- 28GTH-R O4 DC
Year	2001

## 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)	77.3 kW
	Manufacturer	
	Model	ATW20H4-HTO10-23L

Year	2019
Justification for New Antenna	The existing primary antenna is a single channel slotted coaxial which cannot accommodate the assigned channel. ERP is based on 1% expansion.

## 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	4 1/16 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?	No
	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	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) .....	108.0 kW
	Manufacturer	
	Model	i230ECW- 16-23/48
	Year	2019

	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.
--	-------------------------------	--

**Interim  
Antenna**

**Other Antenna Costs**

Section	Question	Response
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	4 1/16 inches
<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

Name	Description
Freight	Freight

**Transmission Line**

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

**Primary Transmission Line****Existing Transmission Line**

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	ERI
	Type	Flexible Air
	Diameter	4 inches
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	430 feet per run

Primary Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Fine Tuner aka Fine Matcher	Fine Tuner aka Fine Matcher
Sweep Tests	Sweep tests to demonstrate performance on assigned channel
Elbow and Flange	Elbow and Flange

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	Rigid
	Diameter	3 1/8 inches
	Segment Length	20'
	Other Segment Length	
	Number of parallel runs	1
	Length	460 feet per run

Justification for New Transmission Line	An interim transmission line is necessary for the interim antenna to keep station on the air during primary antenna replacement and for the duration of the assigned phase. Station will attempt to rent if renting is available at time of acquisition.
---	--

**Interim Transmission Line**      **Other Transmission Line Expenses Not Listed**

Name	Description
Freight	Freight

**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	1034698
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	44° 21' 10.9" N-
	Longitude (NAD83)	071° 44' 14.9" W-
	Overall Structure Height	446.84 feet
	Support Structure Height	399.93 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1988.82 feet

	Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
	Tower Owner	New Hampshire Public Broadcasting
	Date Constructed	11/14/2016

**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
173546	WEVQ	FM
165997	WNYN-FM	FM
72212	WMTK	FM

**Other Types of Users**

Users
WLED microwave
WENH microwave
WNYN 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

<b>Tower Reinforcements</b>	Please select whether tower reinforcements are needed:	Major Reinforcements needed
-----------------------------	--	-----------------------------

**Primary  
Tower**

**Tower Rigging Costs**

Section	Question	Response
<b>Tower Rigging Costs</b>	Complex Tower	Terrain constrained
<b>Helicopter Services Required</b>	Are helicopter services required?	No

**Primary  
Tower**

**Other Tower Expenses Not Listed**

Information not provided.

**Outside  
Professional**

Section	Question	Response
<b>Services Costs Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	40
	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.
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	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
<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	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
<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	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
<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?	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

<b>Other Expenses</b>	<b>Other Expenses Not Listed</b> 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
<b>Primary Transmitter MPTV-PRLX-U3</b>	<b>\$519,259.00</b>	<b>\$468,459.00</b>		<b>\$222,384.19</b>	
Standby Exciter and Switch	<i>\$25,000.00</i>	\$25,000.00	N/A	\$32.70	N/A
Additional Interior RF System	<i>\$140,000.00</i>	\$140,000.00	N/A	N/A	N/A
Other -- HVAC Service Type: H Size:5 (Other)	<i>\$11,809.00</i>	\$11,809.00	N/A	\$11,809.00	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	\$1,338.57	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	\$226,150.00	N/A	\$209,203.92	N/A

<b>Auxiliary Transmitter MPTV-PRLX-U3</b>	<b>\$273,500.00</b>	<b>\$225,615.00</b>		<b>\$225,615.00</b>	
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	\$273,500.00	\$225,615.00	N/A	\$225,615.00	N/A
<b>Sub-total</b>	<b>\$792,759.00</b>	<b>\$694,074.00</b>	<b>N/A</b>	<b>\$447,999.19</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$2,401,318.22</b>	<b>\$2,027,713.79</b>	<b>N/A</b>	<b>\$1,255,687.03</b>	<b>N/A</b>

## Components

Actual Information	
Description	File Name
Standby Exciter and Switch	<p><b>Component Description:</b> ESS 1000001082 v191031jgv1</p> <p><b>Amount:</b> \$32.70</p>
Additional Interior RF System	Information not provided.
Other -- HVAC Service Type: H Size:5 (Other)	<p><b>Component Description:</b> Emcor 171-000048 v191210jgv1</p> <p><b>Amount:</b> \$5,904.50</p> <p><b>Component Description:</b> Emcor 171-000047 v190806jgv1</p> <p><b>Amount:</b> \$5,904.50</p>
3" Rigid Conduit and Wiring (Cost per foot)	<p><b>Component Description:</b> HD 8539 00057 06940 v190624pmv1</p> <p><b>Amount:</b> \$32.15</p>

<b>Component Description:</b>	Amazon 114- 2755163-1500267 v190625pmv1
<b>Amount:</b>	\$8.39

<b>Component Description:</b>	HD 8539 00056 07692 v190624pmv1
<b>Amount:</b>	\$16.29

<b>Component Description:</b>	Needham S5081017.002 v190620jgv1
<b>Amount:</b>	\$145.49

<b>Component Description:</b>	Needham S5116592.002 v190620jgv1
<b>Amount:</b>	\$28.30

<b>Component Description:</b>	HD 3403 00057 27367 v190624pmv1
<b>Amount:</b>	\$47.97

<b>Component Description:</b>	HD 8539 00002 90437 v190624pmv1
<b>Amount:</b>	\$23.58

<b>Component Description:</b>	HD 8539 00002 67435 v190624pmv1
<b>Amount:</b>	\$72.70

<b>Component Description:</b>	HD 8539 00002 80040 v190624pmv1
<b>Amount:</b>	\$6.23

<b>Component Description:</b>	Candia 5 v190625pmv1
<b>Amount:</b>	\$34.95

<b>Component Description:</b>	Needham S5117024.002 v190620jgv1
<b>Amount:</b>	\$81.36

<b>Component Description:</b>	HD 8539 00002 26316 v190624pmv1
<b>Amount:</b>	\$41.68

<b>Component Description:</b>	HD 8539 00002 61636 v190624pmv1
<b>Amount:</b>	\$28.25

<b>Component Description:</b>	HD 8539 00002 73490 v190624pmv1
<b>Amount:</b>	\$79.96

<b>Component Description:</b>	HD 8539 00002 76667 v190624pmv1
<b>Amount:</b>	\$11.81

<b>Component Description:</b>	HD 8539 00057 98061 v190624pmv1
<b>Amount:</b>	\$51.45



	<b>Component Description:</b>	HD 8539 00002 12647 v190624pmv1
	<b>Amount:</b>	\$92.94
	<b>Component Description:</b>	Needham S5070398.002 v190620jgv1
	<b>Amount:</b>	\$126.54
	<b>Component Description:</b>	HD 8539 00002 59291 v190624pmv1
	<b>Amount:</b>	\$165.96
	<b>Component Description:</b>	Needham S5119902.002 v190620jgv1
	<b>Amount:</b>	\$91.80
	<b>Component Description:</b>	Needham S5115697.002 v190620jgv1
	<b>Amount:</b>	\$72.85
	<b>Component Description:</b>	Needham S5062957.002 v190620jgv1
	<b>Amount:</b>	\$77.92
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	<div> <b>Component Description:</b> New primary transmitter Comark MPTV-PRLX-U3 Liquid Cooled </div> <div> <b>Amount:</b> \$104,550.00 </div>
	<div> <b>Component Description:</b> HD 8539 00002 61149 v191021jgv1 </div> <div> <b>Amount:</b> \$103.92 </div>
	<div> <b>Component Description:</b> Comark S10358-2 v191108jgv1 </div> <div> <b>Amount:</b> \$104,550.00 </div>
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	<div> <b>Component Description:</b> WLED, AUX SYSTEM (transmitter MPTV-PRLX-) U3 D23 </div> <div> <b>Amount:</b> \$112,807.50 </div>
	<div> <b>Component Description:</b> Comark S10359-2 v190624jgv1 </div> <div> <b>Amount:</b> \$101,526.75 </div>
	<div> <b>Component Description:</b> Comark S10359-3 v191108jgv1 </div> <div> <b>Amount:</b> \$11,280.75 </div>

## 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 i230ECW-16-23/48</b>	<b>\$152,493.53</b>	<b>\$209,004.53</b>		<b>\$172,754.53</b>	
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	\$6,400.00	N/A	\$6,250.00	N/A
UHF - Lower Power Side Mount, One Station antenna . medium power (50-200 kW), elliptically or circularly polarized	\$103,100.00	\$161,821.00	See uploaded ERI Proposal 20190125-436 Rev B	\$161,821.00	N/A
Freight	<b>\$4,683.53</b>	\$4,683.53	N/A	\$4,683.53	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
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
<b>Primary Antenna ATW20H4-HTO10-23L</b>	<b>\$263,300.00</b>	<b>\$110,850.00</b>		<b>\$101,750.00</b>	
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	\$6,250.00	N/A	\$6,250.00	N/A

UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$95,500.00	See attached / uploaded PDF files titled "ERI WLED-37356 v200720jgv1.pdf" and "ERI WLED-37356-1 v200720jgv1.pdf"	\$95,500.00	N/A
<b>Sub-total</b>	\$415,793.53	\$319,854.53	N/A	\$274,504.53	N/A
<b>Total for all systems</b>	\$2,401,318.22	\$2,027,713.79	N/A	\$1,255,687.03	N/A

## Components

Actual Information	
Description	File Name
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	Information not provided.
Sweep test of existing antenna	<div> <b>Component Description:</b> ERI WLED-5000 v190709jgv1  <b>Amount:</b> \$3,125.00 </div> <div> <b>Component Description:</b> ERI inv #WLED-500 Interim antenna sweep pmt 1 UL20190425jgv1  <b>Amount:</b> \$3,125.00 </div>

UHF - Lower Power Side Mount, One Station antenna . medium power (50-200 kW), elliptically or circularly polarized	<div> <b>Component Description:</b> ERI WLED-5000 v190709jgv1         </div> <div> <b>Amount:</b> \$4,900.00         </div>
	<div> <b>Component Description:</b> ERI inv #WLED-500 Interim antenna pmt 1 UL20190425jgv1         </div> <div> <b>Amount:</b> \$80,910.50         </div>
	<div> <b>Component Description:</b> ERI WLED-600 v190701jgv1         </div> <div> <b>Amount:</b> \$76,010.50         </div>
Freight	<div> <b>Component Description:</b> ERI WLED-5000 v190709jgv1         </div> <div> <b>Amount:</b> \$4,683.53         </div>
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 4 1/16. feedline (if needed)	Information not provided.

Sweep test of existing antenna	<table> <tr> <td data-bbox="699 174 1007 208"><b>Component Description:</b></td><td data-bbox="1141 174 1369 246">ERI WLED-37356C v200720jgv1</td></tr> <tr> <td data-bbox="699 257 807 291"><b>Amount:</b></td><td data-bbox="1141 257 1257 291">\$2,500.00</td></tr> <tr> <td data-bbox="699 398 1007 432"><b>Component Description:</b></td><td data-bbox="1141 398 1337 470">ERI WLED-8000 v200217jgv2</td></tr> <tr> <td data-bbox="699 481 807 515"><b>Amount:</b></td><td data-bbox="1141 481 1257 515">\$3,125.00</td></tr> <tr> <td data-bbox="699 622 1007 656"><b>Component Description:</b></td><td data-bbox="1141 622 1374 694">ERI WLED-37356C- 1 v201117jgv1</td></tr> <tr> <td data-bbox="699 705 807 739"><b>Amount:</b></td><td data-bbox="1141 705 1236 739">\$625.00</td></tr> </table>	<b>Component Description:</b>	ERI WLED-37356C v200720jgv1	<b>Amount:</b>	\$2,500.00	<b>Component Description:</b>	ERI WLED-8000 v200217jgv2	<b>Amount:</b>	\$3,125.00	<b>Component Description:</b>	ERI WLED-37356C- 1 v201117jgv1	<b>Amount:</b>	\$625.00				
<b>Component Description:</b>	ERI WLED-37356C v200720jgv1																
<b>Amount:</b>	\$2,500.00																
<b>Component Description:</b>	ERI WLED-8000 v200217jgv2																
<b>Amount:</b>	\$3,125.00																
<b>Component Description:</b>	ERI WLED-37356C- 1 v201117jgv1																
<b>Amount:</b>	\$625.00																
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	<table> <tr> <td data-bbox="699 869 1007 902"><b>Component Description:</b></td><td data-bbox="1141 869 1348 1019">ERI inv #WLED- 500A Primary Ant pmt 1 UL20190425jgv1</td></tr> <tr> <td data-bbox="699 1030 807 1064"><b>Amount:</b></td><td data-bbox="1141 1030 1273 1064">\$28,650.00</td></tr> <tr> <td data-bbox="699 1171 1007 1205"><b>Component Description:</b></td><td data-bbox="1141 1171 1369 1243">ERI WLED-37356-1 v200720jgv1</td></tr> <tr> <td data-bbox="699 1254 807 1288"><b>Amount:</b></td><td data-bbox="1141 1254 1257 1288">\$9,550.00</td></tr> <tr> <td data-bbox="699 1395 1007 1429"><b>Component Description:</b></td><td data-bbox="1141 1395 1348 1467">ERI WLED-37356 v200720jgv1</td></tr> <tr> <td data-bbox="699 1478 807 1512"><b>Amount:</b></td><td data-bbox="1141 1478 1273 1512">\$28,650.00</td></tr> <tr> <td data-bbox="699 1619 1007 1653"><b>Component Description:</b></td><td data-bbox="1141 1619 1337 1691">ERI WLED-500B v190711jgv1</td></tr> <tr> <td data-bbox="699 1702 807 1736"><b>Amount:</b></td><td data-bbox="1141 1702 1273 1736">\$28,650.00</td></tr> </table>	<b>Component Description:</b>	ERI inv #WLED- 500A Primary Ant pmt 1 UL20190425jgv1	<b>Amount:</b>	\$28,650.00	<b>Component Description:</b>	ERI WLED-37356-1 v200720jgv1	<b>Amount:</b>	\$9,550.00	<b>Component Description:</b>	ERI WLED-37356 v200720jgv1	<b>Amount:</b>	\$28,650.00	<b>Component Description:</b>	ERI WLED-500B v190711jgv1	<b>Amount:</b>	\$28,650.00
<b>Component Description:</b>	ERI inv #WLED- 500A Primary Ant pmt 1 UL20190425jgv1																
<b>Amount:</b>	\$28,650.00																
<b>Component Description:</b>	ERI WLED-37356-1 v200720jgv1																
<b>Amount:</b>	\$9,550.00																
<b>Component Description:</b>	ERI WLED-37356 v200720jgv1																
<b>Amount:</b>	\$28,650.00																
<b>Component Description:</b>	ERI WLED-500B v190711jgv1																
<b>Amount:</b>	\$28,650.00																

## 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>\$49,004.29</b>	<b>\$47,145.23</b>		<b>\$47,145.23</b>	
Freight	<i>\$1,164.29</i>	\$1,164.29	See attached /uploaded PDF file titled "ERI WLED-54515 v191119jgv1.pdf"	\$1,164.29	N/A
Rigid Transmission Line - copper, 3 1/8"	\$47,840.00	\$45,980.94	See attached /uploaded PDF file titled "ERI WLED-54515 v191119jgv1.pdf"	\$45,980.94	N/A
<b>Primary Transmission Line</b>	<b>\$8,452.40</b>	<b>\$8,452.40</b>		<b>\$2,052.40</b>	
Fine Tuner aka Fine Matcher	<i>\$1,275.00</i>	\$1,275.00	See attached / uploaded PDF file titled "ERI 56241 v200930jgv1.pdf"	\$1,275.00	N/A
Sweep Tests	<i>\$6,400.00</i>	\$6,400.00	N/A	N/A	N/A



Elbow and Flange	\$777.40	\$777.40	See attached / uploaded PDF file titled "Comark 13818 v201012jgv1.pdf"	\$777.40	N/A
<b>Sub-total</b>	\$57,456.69	\$55,597.63	N/A	\$49,197.63	N/A
<b>Total for all systems</b>	\$2,401,318.22	\$2,027,713.79	N/A	\$1,255,687.03	N/A

## Components

Actual Information	
Description	File Name
Freight	<p><b>Component Description:</b> ERI WLED-54515 v191119jgv1</p> <p><b>Amount:</b> \$1,164.29</p>
Rigid Transmission Line - copper, 3 1/8"	<p><b>Component Description:</b> ERI WLED-5000 v190709jgv1</p> <p><b>Amount:</b> \$22,186.37</p> <p><b>Component Description:</b> ERI inv #WLED-500 Interim line pmt 1 UL20190425jgv1</p> <p><b>Amount:</b> \$22,186.37</p> <p><b>Component Description:</b> ERI WLED-54515 v191119jgv1</p> <p><b>Amount:</b> \$1,608.20</p>

Fine Tuner aka Fine Matcher	<div> <div> <b>Component Description:</b> ERI 56241 v200930jgv1 </div> <div> <b>Amount:</b> \$1,275.00 </div> </div>
Sweep Tests	Information not provided.
Elbow and Flange	<div> <div> <b>Component Description:</b> Comark 13818 v201012jgv1 </div> <div> <b>Amount:</b> \$777.40 </div> </div>

## 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</b>	<b>\$868,300.00</b>	<b>\$673,749.13</b>		<b>\$418,373.73</b>	
<b>GTOWER</b>					
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	\$165,624.60	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	\$4,000.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$248,749.13	See attached / uploaded PDF files titled "ERI WLED-37356C v200720jgv1.pdf" and "Robert Mullane 001 v200814jgv1.pdf"	\$248,749.13	N/A
<b>Sub-total</b>	<b>\$868,300.00</b>	<b>\$673,749.13</b>	<b>N/A</b>	<b>\$418,373.73</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$2,401,318.22</b>	<b>\$2,027,713.79</b>	<b>N/A</b>	<b>\$1,255,687.03</b>	<b>N/A</b>

### Components

Actual Information	
Description	File Name
Major tower reinforcement /modifications	<b>Component Description:</b> ERI WLED-54517-1 v191119jgv1 <b>Amount:</b> \$25,536.10
	<b>Component Description:</b> ERI WLED-54517 v190711jgv1 <b>Amount:</b> \$60,808.40
	<b>Component Description:</b> Dodge 37339 v191121jgv1 <b>Amount:</b> \$3,269.60
	<b>Component Description:</b> ERI WLED-700 v190812jgv1 <b>Amount:</b> \$76,010.50
Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	<b>Component Description:</b> Structural Re-analysis of existing tower <b>Amount:</b> \$1,200.00
	<b>Component Description:</b> All Pts 24845 v190930jgv1 <b>Amount:</b> \$1,300.00
	<b>Component Description:</b> Structural Analysis of existing tower <b>Amount:</b> \$1,500.00

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)		
	<b>Component Description:</b>	Robert Mullane
		001 v200928jgv2
	<b>Amount:</b>	\$4,535.13
	<b>Component Description:</b>	ERI WLED-
		37356C
		v200720jgv1
	<b>Amount:</b>	\$97,685.60
	<b>Component Description:</b>	ERI WLED-8000
		v200217jgv2
	<b>Amount:</b>	\$122,107.00
	<b>Component Description:</b>	ERI WLED-
		37356C-1
		v201117jgv1
	<b>Amount:</b>	\$24,421.40

## 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>\$193,459.00</b>	<b>\$211,438.50</b>		<b>\$56,198.34</b>	
Prepare and or review reimbursement form	\$2,630.00	\$26,794.50	The Estimated Cost includes Form 399 submissions including ongoing Actual Cost invoice prep and submission, and amendments as needed.	\$26,794.50	N/A
Other Engineering Services	<i>\$46,490.00</i>	\$46,490.00	N/A	\$5,942.00	N/A
Other Legal Services	<i>\$5,844.00</i>	\$5,844.00	Other Legal Services related to the station's DTV Repack	\$5,383.20	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

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	\$1,094.40	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	\$119.25	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	\$1,500.00	N/A

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$750.00	N/A	\$750.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,650.00	See attached / uploaded PDF files titled "KGA 211-98 v191030jgv1.pdf" and "KGA 211-143 v200929jgv1.pdf"	\$1,650.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$1,500.00	N/A	\$1,500.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$4,500.00	See attached KGA invoices 211-27 and 211-88.	\$4,500.00	FCC CP applicator



Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,250.00	FCC RF allocation study for new channel assignment and antenna development
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	\$6,320.00	\$6,160.00	N/A	\$3,714.99	N/A
<b>Sub-total</b>	\$193,459.00	\$211,438.50	N/A	\$56,198.34	N/A
<b>Total for all systems</b>	\$2,401,318.22	\$2,027,713.79	N/A	\$1,255,687.03	N/A

## Components

Actual Information	
Description	File Name
Prepare and or review reimbursement form	<b>Component Description:</b> KGA 211-140 v200813jgv1
	<b>Amount:</b> \$2,000.00
	<b>Component Description:</b> KGA 211-142 v200924jgv1
	<b>Amount:</b> \$700.00
	<b>Component Description:</b> KGA 211-155 v210111jgv1
	<b>Amount:</b> \$375.00

<b>Component Description:</b>	KGA 211-132 v200605pmv1
<b>Amount:</b>	\$575.00

<b>Component Description:</b>	KGA 211-119 v200714jgv2
<b>Amount:</b>	\$500.00

<b>Component Description:</b>	KGA 211-102 v191115jgv1
<b>Amount:</b>	\$875.00

<b>Component Description:</b>	KGA 211-82 v190711jgv1
<b>Amount:</b>	\$2,675.00

<b>Component Description:</b>	KGA 211-64 v200211jgv1
<b>Amount:</b>	\$1,900.00

<b>Component Description:</b>	KGA 211-94 v191030jgv1
<b>Amount:</b>	\$375.00

<b>Component Description:</b>	KGA 211-87 v190826jgv1
<b>Amount:</b>	\$2,375.00

<b>Component Description:</b>	KGA 211-113 v200507jgv1
<b>Amount:</b>	\$475.00

<b>Component Description:</b>	KGA 211-146 v201006jgv1
<b>Amount:</b>	\$1,550.00

<b>Component Description:</b>	KGA 211-153 v201209jgv1
<b>Amount:</b>	\$1,075.00

<b>Component Description:</b>	KGA 211-53 v200208jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	KGA 211-130 v200506jgv1
<b>Amount:</b>	\$50.00

<b>Component Description:</b>	KGA 211-67 v200208jgv1
<b>Amount:</b>	\$50.00

<b>Component Description:</b>	KGA 211-56 v200208jgv1
<b>Amount:</b>	\$397.50

<b>Component Description:</b>	Preparation of original Form 399 for reimbursement
<b>Amount:</b>	\$2,500.00

<b>Component Description:</b>	Consultation regarding reimbursable items.
<b>Amount:</b>	\$801.00

<b>Component Description:</b>	KGA 211-136 v200713jgv1
<b>Amount:</b>	\$490.00

<b>Component Description:</b>	KGA inv #211-73 Actual Cost invoices by RG March 2019 UL20190424jgv1
<b>Amount:</b>	\$200.00

<b>Component Description:</b>	KGA 211-80 v190711jgv1
<b>Amount:</b>	\$175.00

<b>Component Description:</b>	KGA 211-122 v200324jgv1
<b>Amount:</b>	\$1,500.00

<b>Component Description:</b>	KGA 211-92 v190916jgv1
<b>Amount:</b>	\$1,000.00

<b>Component Description:</b>	KGA 211-111 v200127jgv1
<b>Amount:</b>	\$2,550.00

<b>Component Description:</b>	KGA 211-124 v200507jgv1
<b>Amount:</b>	\$225.00

<b>Component Description:</b>	KGA 211-72 v200211jgv1
<b>Amount:</b>	\$100.00

<b>Component Description:</b>	KGA 211-75 v190624jgv1
<b>Amount:</b>	\$1,153.50

<b>Component Description:</b>	KGA 211-151 v201110jgv1
<b>Amount:</b>	\$550.00

Other Engineering Services

**Component Description:** Primary Antenna  
Analysis  
**Amount:** \$1,139.50

**Component Description:** KGA 211-134  
v200611jgv1  
**Amount:** \$400.00

**Component Description:** KGA 211-85  
v190808jgv1  
**Amount:** \$1,100.00

**Component Description:** KGA 211-109  
v200210jgv1  
**Amount:** \$250.00

**Component Description:** KGA 211-66  
v200211jgv1  
**Amount:** \$265.00

**Component Description:** KGA 211-65  
v200211jgv1  
**Amount:** \$475.00

**Component Description:** KGA 211-60  
v200208jgv1  
**Amount:** \$1,139.50

**Component Description:** Prep, amend and  
submit actual cost  
invoices  
**Amount:** \$397.50

	<b>Component Description:</b>	RF calculations for new equipment purchases
	<b>Amount:</b>	\$265.00
	<b>Component Description:</b>	KGA 211-51 v200208jgv1
	<b>Amount:</b>	\$265.00
	<b>Component Description:</b>	KGA 211-77 v200211jgv1
	<b>Amount:</b>	\$1,050.00
Other Legal Services	<b>Component Description:</b>	Coverage comparisons for proposed antenna selection
	<b>Amount:</b>	\$265.00
	<b>Component Description:</b>	Prep and submit actual cost invoices
	<b>Amount:</b>	\$275.00
	<b>Component Description:</b>	KGA 211-100 v191030jgv1
	<b>Amount:</b>	\$325.00
	<b>Component Description:</b>	Foster Garvey 2760438 v201117jgv1
	<b>Amount:</b>	\$172.80
	<b>Component Description:</b>	GSB 713173 v190624jgv1
	<b>Amount:</b>	\$210.00

<b>Component Description:</b>	GSB 716828 v190826jgv1
<b>Amount:</b>	\$90.00

<b>Component Description:</b>	GSB 720616 v190826jgv1
<b>Amount:</b>	\$90.00

<b>Component Description:</b>	Foster Garvey 2768509 v201117jgv1
<b>Amount:</b>	\$748.80

<b>Component Description:</b>	Foster Garvey 711255 v200911jgv2
<b>Amount:</b>	\$660.00

<b>Component Description:</b>	GSB 720207 v190826jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	GSB 727564 v191030jgv1
<b>Amount:</b>	\$324.00

<b>Component Description:</b>	Foster Garvey 2770243 v201123jgv1
<b>Amount:</b>	\$460.80

<b>Component Description:</b>	GSB 712794 v190613jgv3
<b>Amount:</b>	\$510.00

	<b>Component Description:</b> Foster Garvey 2739595 v200207jgv1 <b>Amount:</b> \$120.00
	<b>Component Description:</b> Foster Garvey 2732759 v200226jgv1 <b>Amount:</b> \$1,188.00
	<b>Component Description:</b> Foster Garvey 2744668 v200324jgv1 <b>Amount:</b> \$345.60
	<b>Component Description:</b> GSB 712794 v190826jgv1 <b>Amount:</b> \$660.00
	<b>Component Description:</b> Foster Garvey 2736750 v200208jgv1 <b>Amount:</b> \$270.00
	<b>Component Description:</b> GSB 726461 v191008jgv1 <b>Amount:</b> \$504.00
Additional Field Engineering Service, 6 Days	Information not provided.
Comprehensive coverage verification via field study, if needed	Information not provided.
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.



ASR modification (prepare FCC Form 854)	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	<b>Component Description:</b>  <b>Amount:</b>	Foster Garvey 2753294 v200608jgv1 \$1,094.40
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	<b>Component Description:</b>  <b>Amount:</b>	Various Legal services related to Repack for WLED \$119.25
	<b>Component Description:</b>  <b>Amount:</b>	Legal services related to Quarterly report for WLED \$30.00
Prepare request for Special Temporary Authorization	<b>Component Description:</b>  <b>Amount:</b>	KGA 211-103 v200210jgv1 \$1,500.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	<b>Component Description:</b>  <b>Amount:</b>	KGA 211-149 v201117jgv1 \$750.00

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	<b>Component Description:</b>	KGA 211-143 v200929jgv1
	<b>Amount:</b>	\$925.00
	<b>Component Description:</b>	KGA 211-98 v191030jgv1
	<b>Amount:</b>	\$725.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	<b>Component Description:</b>	KGA 211-144 v201118jgv1
	<b>Amount:</b>	\$1,500.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<b>Component Description:</b>	KGA 211-88 v190826jgv1
	<b>Amount:</b>	\$2,500.00
	<b>Component Description:</b>	FCC Construction Permit application for Main Facility - WLED
	<b>Amount:</b>	\$2,000.00
Perform engineering study for new channel assignment and antenna development	<b>Component Description:</b>	engineering study for new channel assignment and antenna development
	<b>Amount:</b>	\$3,250.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Project management of the transition		

<b>Component Description:</b>	KGA inv #211-42 Other Eng Srvcs UL20190228jgv2
<b>Amount:</b>	\$315.00

<b>Component Description:</b>	KGA inv #211-34 Actual Cost UL20190228jgv2
<b>Amount:</b>	\$300.00

<b>Component Description:</b>	KGA 211-148 v201229jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	KGA 211-50 v200208jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	KGA 211-96 v200210jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	KGA 211-105 v200127jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	KGA 211-116 v200206jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	KGA 211-58 v200702jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	KGA 211-128 v200507jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	Prepare and submit Sched 399 actual charges
<b>Amount:</b>	\$375.00

<b>Component Description:</b>	One half the cost for checks associated with the reimbursement bank account.
<b>Amount:</b>	\$24.99

<b>Component Description:</b>	KGA 211-104 v191209jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	KGA 211-84 v190711jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	KGA 211-137 v200813jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	KGA inv #211-46 Form 387 2018 Q1 UL20190228jgv2
<b>Amount:</b>	\$225.00

<b>Component Description:</b>	KGA inv #211-39 Form 387 2017 Q4 UL20190228jgv2
<b>Amount:</b>	\$225.00

<b>Component Description:</b>	Prepare and submit Sched 387
<b>Amount:</b>	\$225.00

<b>Component Description:</b>	Proj Mgmt 3Q2017 report for WLED
<b>Amount:</b>	\$300.00

<b>Component Description:</b>	KGA inv #211-32 Form 387 2017 Q3 UL20190228jgv2
<b>Amount:</b>	\$300.00

<b>Component Description:</b>	KGA inv #211-70 Form 387 2019 Q1 UL20190424jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	Prepare and submit Sched 387
<b>Amount:</b>	\$225.00

<b>Component Description:</b>	Prep and submit Form 387 3Q18
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	KGA inv #211-41 Actual Cost UL20190228jgv2
<b>Amount:</b>	\$375.00

<b>Component Description:</b>	KGA 211-147 v201229jgv1
<b>Amount:</b>	\$150.00

<b>Component Description:</b>	Proj Mgmt 399 Actual Costs Invoice uploads for WLED
<b>Amount:</b>	\$300.00

**Component Description:**

Preliminary design  
of RF transmission  
facilities for planning

**Amount:**

\$315.00

---

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	\$73,550.00	\$73,000.00		\$9,413.61	
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	N/A	\$1,640.00	N/A
Develop and air announcement of upcoming channel change	\$0.00	\$0.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$50,000.00	\$50,000.00	N/A	\$4,878.61	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$10,000.00	\$10,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,000.00	N/A	\$2,895.00	N/A
Sub-total	\$73,550.00	\$73,000.00	N/A	\$9,413.61	N/A
Total for all systems	\$2,401,318.22	\$2,027,713.79	N/A	\$1,255,687.03	N/A

Components

Actual Information	
Description	File Name

MVPD Notification of Channel Change	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> KGA 211-89  v190826jgv1  \$1,640.00 </div> </div>
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Delivery and Handling Charges	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> ERI 56241  v200930jgv1  \$29.84 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> Comark 13818  v201012jgv1  \$16.47 </div> </div> <div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> ERI WLED-37356-1  v200720jgv1  \$4,832.30 </div> </div>
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
DTV Medical Facility Notification	<div> <div> <b>Component Description:</b>  <b>Amount:</b> </div> <div> KGA 211-90  v190826jgv1  \$2,895.00 </div> </div>



Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$2,401,318.22	\$2,027,713.79	\$1,255,687.03

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<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.

<p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Jeffrey C Gehman</b>  <i>Engineering Associate</i></p> <p>01/11/2021</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR 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).	
		<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.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Jeffrey C Gehman</b>  <i>Engineering Associate</i></p> <p>01/11/2021</p>

## Attachments