



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **61961** | Service: **DTV** | Call **KVLY-TV** | Channel: **36 (UHF)** |
ID:
File **0000028721** | Sign:
Number:
FRN: **0018223693** | Date **10/25**
Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC Doing Business As: GRAY TELEVISION LICENSEE, LLC	4370 PEACHTREE RD NE ATLANTA, GA 30319 United States	+1 (701) 237- 5211	robert. folliard@gray. tv	Limited Liability Company

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
Samuel Hariton <i>Widely</i>	Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widely.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		Replacing the existing transmitter, transmission line, and antenna. Also purchasing an interim transmitter, transmission line, and antenna.

Transmitters

Section	Question	Response
Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	DTT10KSUG1
	Year	2004
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	10 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	THU9-36
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	55 kW
	Justification for New Transmitter	Current transmitter cannot make enough power to feed the Dielectric proposed channel 18 replacement antenna. Also, Larcan went bankrupt. The original company is out of business.

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	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	Yes
	Description	The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
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
Building Upgrade	Concrete Cutting Work
Electrical	Electrical Installation Costs
Pad for Heat Exchangers	Heat Exchanger Concrete Pad plus Ice shield
HVAC	HVAC Modification
Electrical	Electrical Code Verification for Transmitters

**Interim
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	THU9-EVO
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	6.5 kW
	Justification for New Transmitter	Interim transmitter needed to continue broadcasting during installation of new transmitter.

**Interim
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	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
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
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	No

**Interim
Transmitter**

Other Transmitter Cost Not Listed

Name	Description
Inside RF System	UHF Inside RF System including switching

Antennas

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

**Primary
Antenna**

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	356.0 kW

Manufacturer	
Model	TFU32DSB-J
Year	2004

Primary
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	192.0 kW
	Manufacturer	

Model	TFU 19ETT /VP-R 3C210
Year	2018
Justification for New Antenna	Existing antenna is single channel antenna tuned to channel 44 and cannot be re-tuned.

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

Name	Description
Top Plate Adapter	Top plate adapter to match tower top and antenna bolt pattern.

**Interim
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	103.0 kW
	Manufacturer	
	Model	TLP32J
	Year	2018

	Justification for New Antenna	Interim antenna needed to allow the station to broadcast during the installation of the new main antenna.
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Interim Antenna

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	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

Interim Antenna

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

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

**Primary
Transmission Line**

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1974 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?	Yes
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1974 feet per run
	Justification for New Transmission Line	6" line is original Prodelin line is 50 years old. We will sweep line but expect to replace. Also replacing side-mount antenna with a top-mount.

Primary
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
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Sweep Existing Transmission Line	Sweep existing transmission line to ascertain viability
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Interim **New Transmission Line**
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	1580 feet per run
	Justification for New Transmission Line	Interim transmission line required so that the station can broadcast while the main line is being replaced.

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

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)	No
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1046244
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	47° 20' 32.0" N-
	Longitude (NAD83)	097° 17' 21.0" W-
	Overall Structure Height	2062.97 feet
	Support Structure Height	1951.09 feet
	Ground Elevation Above Mean Sea Level (AMSL)	975.05 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	Gray Television Group, Inc.
	Date Constructed	08/13/1963

Other Types of Users

Users

K28MA-D, 185875

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
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Tower Painting	Restripe tower paint to match lower height change.
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**Outside
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	900
	Explanation	Strategic Planning
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes

	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs **Other Professional Services Expenses Not Listed**

If wireless is not provided.

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	Yes
	FCC Special Temporary Authority Application	Yes
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other
Expenses**

Other Expenses Not Listed

Name	Description
Security	Security at the site for the storage of equipment
Other Expenses Not Listed - Site Remediation	Other Expenses Not Listed - Site Remediation

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
Interim Transmitter THU9-EVO	\$294,763.58	\$340,251.98		\$296,014.32	
Inside RF System	\$21,263.58	\$21,263.58	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 4.9 - 6.5 kW	\$273,500.00	\$318,988.40	Increase to cover Rohde and Schwarz invoices 9500080421, 9500085140, 9500085141 and 9500075326, as well as electrical invoices moved to this category. Accompanying quotes are uploaded.	\$296,014.32	N/A
Primary Transmitter THU9-36	\$2,444,937.15	\$1,679,651.45		\$498,434.13	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$327,363.23	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$327,363.23	x

Building Upgrade	\$17,321.15	\$17,321.15	see Estimated Cost Justification KVLV-110-Building Upgrade v0	\$17,321.15	Krueger Concrete
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,189,851.07	per R&S Quote 802-049860.1	\$18,802.75	N/A
HVAC	\$17,450.00	\$17,450.00	These costs are associated with changing the HVAC system over from an air cooled transmitter with heat recovery for winter to accommodate the new liquid cooled transmitter.	\$8,500.00	N/A
Pad for Heat Exchangers	\$122,166.00	\$122,166.00	see Estimated Cost Justification KVLV-110-Pads for Heat Exchangers New 1st Primary Transmitter v0	\$122,166.00	N/A
Electrical	\$3,000.00	\$3,000.00	Electrical invoices included in the interim transmitter budget category.	\$3,000.00	N/A

Other Electrical Service: The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	\$2,500.00	\$2,500.00	N/A	\$1,281.00	N/A
Sub-total	\$2,739,700.73	\$2,019,903.43	N/A	\$794,448.45	N/A
Total for all systems	\$4,784,326.87	\$4,389,279.44	N/A	\$2,358,560.89	N/A

Components

Actual Information	
Description	File Name
Inside RF System	Information not provided.

UHF - Liquid Cooled Solid
State Transmitter 4.9 . 6.5
kW

Component Description: Milestone Payment
#3
Amount: \$63,060.00

Component Description: New Interim
Transmitter
Amount: \$5,021.25

Component Description: Down payment
request on interim
transmitter
Amount: \$63,060.00

Component Description: New Interim
Transmitter
Amount: \$3,084.90

Component Description: KVLV-180-New
Interim Transmitter
Amount: \$2,188.23

Component Description: KVLV-180-New
Interim Transmitter
Amount: \$5,925.00

Component Description: New 1st Primary
Transmitter
Amount: \$16,826.55

Component Description: Milestone Payment
#2
Amount: \$126,120.00

Component Description: Transmitter
components
Amount: \$10,728.39

UHF - Liquid Cooled Solid
State Transmitter 8.2 - 13
kW

Component Description: electrical work
installing main and
interim transmitters
Amount: \$26,318.45

Component Description: Electric work for new
transmitter
Amount: \$4,825.10

Component Description: Change order #1
additional
disconnects
Amount: \$3,614.25

Component Description: LABOR
Amount: \$2,710.43

Component Description: DP 50% down
payment Milestone 2
at delivery
Amount: \$188,027.50

Component Description: Electrical work
installing new KVLV
Channel 36 main
transmitter
Amount: \$7,853.75

Component Description: THU9EVO-8 Main
Transmitter 25%
downpayment
Amount: \$94,013.75

Building Upgrade	<div> <div> Component Description: Demo Saw Cutting 15"w x 54"w x 4" hole in floor </div> <div> Amount: \$2,885.00 </div> </div> <div> <div> Component Description: Labor - Demo Masonry and Install Rebar </div> <div> Amount: \$5,486.15 </div> </div> <div> <div> Component Description: Construct room at tower site in Blanchard, </div> <div> Amount: \$8,950.00 </div> </div>
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	<div> <div> Component Description: "Rohde & Schwarz QT: 802-030267.8 Rohde & Schwarz QT: 802-049860.1" </div> <div> Amount: \$18,802.75 </div> </div>
HVAC	<div> <div> Component Description: Blanchard Tower HVAC Modifications </div> <div> Amount: \$4,250.00 </div> </div> <div> <div> Component Description: HVAC MODIFICATIONS, BLANCHRD ND TOWER </div> <div> Amount: \$4,250.00 </div> </div>

Pad for Heat Exchangers

Component Description: Costs to fill 8' by 17' cistern; Blanchard Transmitter Pad and Ice Canopy
Amount: \$7,088.00

Component Description: Ice canopy material
Amount: \$39,484.00

Component Description: Material handling; skid steer rental
Amount: \$600.00

Component Description: Fencing to enclose concrete pad
Amount: \$5,072.00

Component Description: Ice canopy fabrication and onsite assembly
Amount: \$33,700.00

Component Description: Labor to add 40 yards of fill, labor and grading estimate
Amount: \$2,500.00

Component Description: Heat Exchangers New 1st Primary Transmitter
Amount: \$33,722.00

Electrical	<div> <div>Component Description:</div> <div>Third party engineering review of non-UL listed equipment</div> </div> <div> <div>Amount:</div> <div>\$3,000.00</div> </div>
<p>Other Electrical Service:</p> <p>The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.</p>	<div> <div>Component Description:</div> <div>Equipment Rental Caterpillar</div> </div> <div> <div>Amount:</div> <div>\$1,281.00</div> </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
Interim Antenna TLP32J	\$96,130.00	\$62,064.62		\$61,304.87	
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	\$89,400.00	\$55,664.62	N/A	\$54,904.87	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
Primary Antenna TFU 19ETT /VP-R 3C210	\$325,352.00	\$277,004.30		\$196,163.08	
Top Plate Adapter	<i>\$19,552.00</i>	\$19,552.00	N/A	\$15,641.60	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$241,180.30	N/A	\$167,503.88	N/A

Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,120.00	N/A
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$9,872.00	DTV pros quote JEHQ1275-04	\$7,897.60	N/A
Sub-total	\$421,482.00	\$339,068.92	N/A	\$257,467.95	N/A
Total for all systems	\$4,784,326.87	\$4,389,279.44	N/A	\$2,358,560.89	N/A

Components

Actual Information
Description

File Name

UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	Component Description:		UHF LOW POWER SIDE MOUNT
	Amount:		\$12,680.00
	Component Description:		UHF LOW POWER SIDE MOUNT
	Amount:		\$14,703.03
	Component Description:		Interim Antenna System - UHF Low Power Side Mount
	Amount:		\$14,841.84
	Component Description:		UHF LOW POWER SIDE MOUNT
	Amount:		\$12,680.00
Sweep test of existing antenna	Component Description:		Sweep Test, Interim Antenna
	Amount:		\$1,627.02
	Component Description:		KVLY-280-Sweep Test New Interim Antenna
	Amount:		\$1,627.02
	Component Description:		Sweep Test
	Amount:		\$1,920.00
	Component Description:		KVLY-280-Sweep Test New Interim Antenna
	Amount:		\$1,225.96

Top Plate Adapter		
	Component Description:	New Primary Antenna Top Plate Adapter
	Amount:	\$5,865.60
	Component Description:	KVLY-210-Top Plate Adapter New Primary Antenna
	Amount:	\$3,910.40
	Component Description:	New Primary Antenna Top Plate
	Amount:	\$4,888.00
	Component Description:	New Primary Antenna Top Plate Adapter
	Amount:	\$4,888.00

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized		
	Component Description:	New Primary Antenna
	Amount:	\$49,884.36
	Component Description:	KVLY-210-New Primary Antenna-
	Amount:	\$7,862.50
	Component Description:	UHF - HIGH POWER TOP MOUNT
	Amount:	\$39,907.50
	Component Description:	New Primary Antenna - UHF High Power Top Mount
	Amount:	\$59,872.65
	Component Description:	Primary Antenna
	Amount:	\$49,884.37

Sweep test of existing antenna		
	Component Description:	Sweep Test New Antenna
	Amount:	\$1,600.00
	Component Description:	KVLY-210-Sweep Test New Primary Antenna
	Amount:	\$1,280.00
	Component Description:	Sweep Test New Primary Antenna
	Amount:	\$1,920.00
	Component Description:	Sweep Test New Primary Transmission Line
	Amount:	\$1,600.00

Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	Component Description:		KVLY-210-Elbow Complex New Primary Antenna
	Amount:		\$1,974.40
	Component Description:		New Primary Antenna Elbow Complex
	Amount:		\$2,468.00
	Component Description:		New Primary Antenna Elbow Complex
	Amount:		\$2,468.00
	Component Description:		New Primary Antenna Elbow Complex
	Amount:		\$2,961.60

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	\$93,220.00	\$79,459.42		\$67,829.46	
Flexible Air Transmission Line - dielectric, 3"	\$93,220.00	\$79,459.42	N/A	\$67,829.46	N/A
Primary Transmission Line	\$403,748.00	\$338,304.03		\$270,305.15	
Sweep Existing Transmission Line	\$5,000.00	\$5,000.00	See invoice	\$4,875.00	N/A
Rigid Transmission Line - copper, 6 1/8"	\$398,748.00	\$333,304.03	N/A	\$265,430.15	N/A
Sub-total	\$496,968.00	\$417,763.45	N/A	\$338,134.61	N/A
Total for all systems	\$4,784,326.87	\$4,389,279.44	N/A	\$2,358,560.89	N/A

Components

Actual Information	
Description	File Name

Flexible Air Transmission Line - dielectric, 3"	<div> Component Description: KVLVY-380-New Interim Transmission Line </div> <div> Amount: \$15,777.89 </div>
	<div> Component Description: KVLVY-380-New Interim Transmission Line </div> <div> Amount: \$18,032.64 </div>
	<div> Component Description: Interim Transmission Line </div> <div> Amount: \$15,777.89 </div>
	<div> Component Description: Interim Transmission Line </div> <div> Amount: \$18,241.04 </div>
Sweep Existing Transmission Line	<div> Component Description: KVLVY antenna /transmission line system sweep, report and expenses </div> <div> Amount: \$4,875.00 </div>

Rigid Transmission Line -
copper, 6 1/8"

Component Description: Dual Universal
Switch Controller
3U
Amount: \$5,108.00

Component Description: New Primary
Transmission Line
Amount: \$74,394.38

Component Description: UHF-HIGH
POWER TOP
MOUNT (200-
1000kw)
Amount: \$15,861.84

Component Description: New Primary
Transmission Line
Amount: \$89,273.30

Component Description: KVLV-310-New
Primary
Transmission Line
Amount: \$59,515.50

Component Description: New Primary
Transmission Line
Amount: \$74,394.33

Component Description: Dual Universal
Switch Controller
3U
Amount: \$6,398.30

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	\$864,512.20	\$1,368,277.20		\$819,746.50	
Major tower reinforcement /modifications	\$421,000.00	\$701,625.00	see Estimated Cost Justification KVLV-410- Major reinforcements existing tower v0	\$551,455.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$6,240.00	see Justifying Quote KVLV Tower Consultants Inc Proposal TCI-17-210	\$6,240.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$440,000.00	See Quote TCI-17-043	\$210,330.50	N/A
Tower Painting	\$220,412.20	\$220,412.20	Costs estimates for repainting the tower and re-positioning lighting has been updated since the original contractor is no longer available to do the job.	\$51,721.00	N/A
Sub-total	\$864,512.20	\$1,368,277.20	N/A	\$819,746.50	N/A
Total for all systems	\$4,784,326.87	\$4,389,279.44	N/A	\$2,358,560.89	N/A

Components

Actual Information Description	File Name
Major tower reinforcement /modifications	<div> Component Description: Repack Modification Services </div> <div> Amount: \$126,310.00 </div>
	<div> Component Description: CO # 3 Remobilization (Nov 6, 2018) </div> <div> Amount: \$32,000.00 </div>
	<div> Component Description: Repack modification services - Section 1 & 2. </div> <div> Amount: \$126,310.00 </div>
	<div> Component Description: Additional Mobilization </div> <div> Amount: \$32,000.00 </div>
	<div> Component Description: Mobilization - Section 1 and 2 Repack Modification Services </div> <div> Amount: \$39,040.00 </div>
	<div> Component Description: CO #2 - Insurance Addition </div> <div> Amount: \$45,625.00 </div>

	Component Description: Amount:	Mobilization - Section 1 and 2 Repack Modification Services \$75,786.00
	Component Description: Amount:	"Completion: 1 Section 1 and 2 Repack Modification Services" \$50,524.00
	Component Description: Amount:	Antenna and TX Line Services - Sections 3,4 & 6 - tower modifications \$150,170.00
Structural engineering tower load study for well documented tower	Component Description: Amount:	Additional Services \$6,240.00
	Component Description: Amount:	Perform Tower Analysis \$6,210.00

Tall Tower (greater than 500')	<div> Component Description: install Dielectric Side Mount Antenna </div> <div> Amount: \$90,102.00 </div>
	<div> Component Description: KVLV-410-Tower Rigging existing tower \$93,131.5 </div> <div> Amount: \$41,410.50 </div>
	<div> Component Description: KVLV-410-Tower Rigging existing tower </div> <div> Amount: \$10,810.00 </div>
	<div> Component Description: Repack Modification Services - Section 3 - Mobilization </div> <div> Amount: \$60,068.00 </div>
	<div> Component Description: Additional Services </div> <div> Amount: \$18,750.00 </div>
Tower Painting	<div> Component Description: Payment for Materials / Labor </div> <div> Amount: \$12,190.00 </div>
	<div> Component Description: Down payment, Materials-New LED A-6 Tower Lighting System and labor </div> <div> Amount: \$51,721.00 </div>

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	\$181,330.00	\$173,250.00		\$110,139.60	
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	\$673.00	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	\$2,012.50	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	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	\$518.00	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$250.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$8,500.00	Additional engineering work required to conduct channel study to identify alternate channel in lieu of repack Ch. 18.	\$8,500.00	N/A

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$98,186.10	N/A
Sub-total	\$181,330.00	\$173,250.00	N/A	\$110,139.60	N/A
Total for all systems	\$4,784,326.87	\$4,389,279.44	N/A	\$2,358,560.89	N/A

Components

Actual Information	
Description	File Name
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	<p>Component Description: KVLV-590-FAA Consultant</p> <p>Amount: \$550.00</p> <p>Component Description: Legal services</p> <p>Amount: \$123.00</p>
ASR modification (prepare FCC Form 854)	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	<p>Component Description: Legal services</p> <p>Amount: \$2,012.50</p>
Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.

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	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> Legal services \$518.00 </div>
Prepare request for Special Temporary Authorization	Information not provided.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> Regarding buildout of repack Ch-36 main facility, develop final operating constants, preparation of engineering portions of FCC application for license to cover. \$250.00 </div>
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.

Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	review tech specs of antenna for use as intereim \$312.50
	Component Description: Amount:	Perform engineering study for new channel assignment \$3,050.00
	Component Description: Amount:	Perform engineering study for new channel assignment \$700.00
	Component Description: Amount:	Engineering Study for New Channel Assignment \$675.00
	Component Description: Amount:	Perform engineering study for new channel assignment \$625.00
	Component Description: Amount:	Conduct channel study to identify alternate channels in lieu of repack Ch-18. \$3,137.50
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	

Prepare and or review reimbursement form	Information not provided.	
Project management of the transition	Component Description: Amount:	Project Management \$2,606.30
	Component Description: Amount:	Project Management \$2,933.65
	Component Description: Amount:	Project Management \$1,328.55
	Component Description: Amount:	Project Management \$2,673.10
	Component Description: Amount:	Project Management \$2,567.30
	Component Description: Amount:	Project Management \$3,465.60
	Component Description: Amount:	Project Management \$6,073.15
	Component Description: Amount:	Project Management \$1,936.95

Component Description:	Project Management
Amount:	\$1,796.50

Component Description:	KVLY-510-Project Management
Amount:	\$2,700.00

Component Description:	Project Management
Amount:	\$2,480.15

Component Description:	Project Management
Amount:	\$2,007.60

Component Description:	Project management
Amount:	\$2,444.35

Component Description:	Project Management
Amount:	\$4,543.80

Component Description:	Project Management
Amount:	\$3,660.85

Component Description:	Cost Reconciliation
Amount:	\$2,034.20

Component Description:	Cost Reconciliation
Amount:	\$7,045.20

Component Description:	Project Management
Amount:	\$2,301.45

Component Description:	Project Management
Amount:	\$3,065.40

Component Description:	Project Management
Amount:	\$8,554.80

Component Description:	Project Management
Amount:	\$3,935.60

Component Description:	Transition Related Project Management Costs
Amount:	\$3,300.00

Component Description:	Project Management
Amount:	\$755.80

Component Description:	Project Management
Amount:	\$4,089.80

Component Description:	Project Management
Amount:	\$2,268.75

Component Description:	Project Management
Amount:	\$3,079.40

Component Description:	Project Mgt
Amount:	\$28.20

Component Description:	Project Management
Amount:	\$4,483.15

Component Description:	Project Management
Amount:	\$3,705.15

Component Description:	Project Management
Amount:	\$802.25

Component Description:	Project management
Amount:	\$2,434.40

Component Description:	Project Management
Amount:	\$3,084.70

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	\$80,333.94	\$71,016.44		\$38,623.78	
Other Expenses Not Listed - Site Remediation	<i>\$2,500.00</i>	\$2,500.00	Please see the attached Quote from R Cleveland, LCC. # Casselton ND 58012	N/A	N/A
Security	<i>\$15,409.94</i>	\$15,409.94	see Estimated Cost Justification KVLV-610-Site Security v.1	\$15,409.94	N/A
MVPD Notification of Channel Change	<i>\$1,000.00</i>	\$1,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$7,500.00</i>	\$7,500.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,247.50	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A

FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$18,000.00	\$18,000.00	See attached Midwest Steeplejacks "KVLV Blanchard Disposal Quote" dated 8-17-17. Updated quote from a year ago includes winter rate. at \$18,000	N/A	N/A
Equipment Delivery and Handling Charges	\$10,704.00	\$10,704.00	N/A	\$10,073.84	N/A
Equipment Storage	\$13,140.00	\$13,140.00	per Estimated Cost Justification KVLV-610-Equipment Storage v0	\$13,140.00	N/A
Sub-total	\$80,333.94	\$71,016.44	N/A	\$38,623.78	N/A
Total for all systems	\$4,784,326.87	\$4,389,279.44	N/A	\$2,358,560.89	N/A

Components

Actual Information	
Description	File Name
Other Expenses Not Listed - Site Remediation	Information not provided.

Security	Component Description: Security for KVLV Transmitter site Amount: \$2,277.60
	Component Description: Security for KVLV Transmitter site Amount: \$919.80
	Component Description: Security for KVLV Transmitter site Amount: \$2,529.44
	Component Description: Security for KVLV Transmitter site Amount: \$2,277.60
	Component Description: Security for KVLV Transmitter site Amount: \$2,277.60
	Component Description: Security for KVLV Transmitter site Amount: \$854.10
	Component Description: Security for KVLV Transmitter site Amount: \$2,040.00
	Component Description: Security for KVLV Transmitter site Amount: \$2,233.80
MVPD Notification of Channel Change	Information not provided.

Develop and air announcement of upcoming channel change	Information not provided.	
DTV Medical Facility Notification	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
Equipment Delivery and Handling Charges	Component Description: Site Work on 8/28 /2018 Amount: \$900.00 Component Description: Unloading of 3" transmission line reel and forklift Amount: \$1,624.05 Component Description: Equipment Delivery Amount: \$4,815.73 Component Description: Site work Amount: \$2,734.06	
Equipment Storage	Component Description: STORAGE - 2 48' VANS Amount: \$13,140.00	

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$4,784,326.87	\$4,389,279.44	\$2,358,560.89

Reimbursement Status	Question	Response
	The facility has ceased operating on its pre-auction channel.	No
	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"> 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.

<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>Robert Folliard , III . <i>Assistant Secretary</i></p> <p>10/25/2019</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 	

4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

<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>Robert Folliard , III . <i>Assistant Secretary</i></p> <p>10/25/2019</p>

Attachments