Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **61961** | Service: **DTV** | Call Sign: **KVLY-TV** | Channel: **36 (UHF)**

File Number: **0000028721**

FRN: **0018223693** | Date Submitted: **09/03/2019**

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 *Widelity*	Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widelity.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?	No
	Manufacturer	
	Model	THU9-8EVO
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	13 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 leashold 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
Electrical	Electrical Installation Costs
Electrical	Electrical Code Verification for Transmitters
Building Upgrade	Concrete Cutting Work
Pad for Heat Exchangers	Heat Exchanger Concrete Pad plus Ice shield
HVAC	HVAC Modification

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	Yes

	Description	Please see the attached invoices from Rickard Electric Inc # 1835-1, 1835-2 and 1835-3
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 leashold 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.

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

Sweep Existing Transmission Line	Sweep existing transmission line to ascertain viability

Interim Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Flexible Air
	Diameter	3 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	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 Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	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

Tower Painting	Restripe tower paint to match lower height change.

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

Information 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 Cos Justificati
Interim Transmitter THU9-EVO	**$358,693.58**	**$404,181.98**		**$293,826.09**	
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.	$293,826.09	N/A
Other Electrical Service: Please see the attached invoices from Rickard Electric Inc # 1835-1, 1835-2 and 1835-3	***$63,930.00***	$63,930.00	Please see the attached invoices from Rickard Electric Inc # 1835-1, 1835-2 and 1835-3	N/A	N/A
Primary Transmitter THU9-8EVO	**$644,887.15**	**$545,536.11**		**$462,898.95**	

UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	$494,500.00	$395,148.96	N/A	$324,652.80	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
Building Upgrade	***$8,371.15***	$8,371.15	Krueger Concrete and Steel invoices 18413 and 18415.	$8,371.15	Krueger Concrete
Electrical	***$3,000.00***	$3,000.00	Electrical invoices included in the interim transmitter budget category.	$3,000.00	N/A
Pad for Heat Exchangers	***$119,066.00***	$119,066.00	Revised quote 4/30/2018	$117,094.00	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
Sub-total	$1,003,580.73	$949,718.09	N/A	$756,725.04	N/A
Total for all systems	$3,045,939.03	$3,234,996.26	N/A	$2,319,786.70	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:	Down payment request on interim transmitter
	Amount:	$63,060.00
	Component Description:	New Interim Transmitter
	Amount:	$5,021.25
	Component Description:	Transmitter components
	Amount:	$10,728.39
	Component Description:	New Interim Transmitter
	Amount:	$3,084.90
	Component Description:	KVLY-180-New Interim Transmitter
	Amount:	$5,925.00
	Component Description:	Milestone Payment #2
	Amount:	$126,120.00
	Component Description:	New 1st Primary Transmitter
	Amount:	$16,826.55

Other Electrical Service: Please see the attached invoices from Rickard Electric Inc # 1835-1, 1835-2 and 1835-3	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	**Component Description:** **Amount:**	Electric work for new transmitter $4,825.10
	Component Description: **Amount:**	THU9EVO-8 Main Transmitter 25% downpayment $94,013.75
	Component Description: **Amount:**	DP 50% down payment Milestone 2 at delivery $188,027.50
	Component Description: **Amount:**	electrical work installing main and interim transmitters $26,318.45
	Component Description: **Amount:**	Electrical work installing new KVLY Channel 36 main transmitter $7,853.75
	Component Description: **Amount:**	Change order #1 additional disconnects $3,614.25

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.	**Component Description:** **Amount:**	Equipment Rental Caterpillar $1,281.00
Building Upgrade	**Component Description:** **Amount:** **Component Description:** **Amount:**	Demo Saw Cutting 15"w x 54"w x 4" hole in floor $2,885.00 Labor - Demo Masonry and Install Rebar $5,486.15
Electrical	**Component Description:** **Amount:**	Third party engineering review of non-UL listed equipment $3,000.00

Pad for Heat Exchangers	**Component Description:**	Material handling; skid steer rental
	Amount:	$600.00
	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:	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

HVAC	**Component Description:**	Blanchard Tower HVAC Modifications
	Amount:	$4,250.00
	Component Description:	HVAC MODIFICATIONS, BLANCHRD ND TOWER
	Amount:	$4,250.00

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TLP32J	**$96,130.00**	**$62,064.62**		**$61,304.87**	
Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$6,400.00	N/A
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
Primary Antenna TFU 19ETT /VP-R 3C210	**$325,352.00**	**$277,004.30**		**$235,372.88**	
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	$289,500.00	$241,180.30	N/A	$199,548.88	N/A

Sweep test of existing antenna	$6,730.00	$6,400.00	N/A	$6,400.00	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	$9,872.00	N/A
Top Plate Adapter	***$19,552.00***	$19,552.00	N/A	$19,552.00	N/A
Sub-total	$421,482.00	$339,068.92	N/A	$296,677.75	N/A
Total for all systems	$3,045,939.03	$3,234,996.26	N/A	$2,319,786.70	N/A

Components

Actual Information Description	File Name

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

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	**Component Description:** **Amount:**	New Primary Antenna $49,884.36
	Component Description: **Amount:**	UHF - HIGH POWER TOP MOUNT $39,907.50
	Component Description: **Amount:**	New Primary Antenna - UHF High Power Top Mount $59,872.65
	Component Description: **Amount:**	Primary Antenna $49,884.37
Sweep test of existing antenna	**Component Description:** **Amount:**	Sweep Test New Primary Transmission Line $1,600.00
	Component Description: **Amount:**	KVLY-210-Sweep Test New Primary Antenna $1,280.00
	Component Description: **Amount:**	Sweep Test New Primary Antenna $1,920.00
	Component Description: **Amount:**	Sweep Test New Antenna $1,600.00

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

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

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**		**$313,958.81**	
Rigid Transmission Line - copper, 6 1/8"	$398,748.00	$333,304.03	N/A	$309,083.81	N/A
Sweep Existing Transmission Line	***$5,000.00***	$5,000.00	See invoice	$4,875.00	N/A
Sub-total	$496,968.00	$417,763.45	N/A	$381,788.27	N/A
Total for all systems	$3,045,939.03	$3,234,996.26	N/A	$2,319,786.70	N/A

Components

Actual Information Description	File Name

Flexible Air Transmission Line - dielectric, 3"	**Component Description:**	KVLY-380-New Interim Transmission Line
	Amount:	$18,032.64
	Component Description:	Interim Transmission Line
	Amount:	$18,241.04
	Component Description:	Interim Transmission Line
	Amount:	$15,777.89
	Component Description:	KVLY-380-New Interim Transmission Line
	Amount:	$15,777.89

Rigid Transmission Line - copper, 6 1/8"	**Component Description:**	New Primary Transmission Line
	Amount:	$74,394.38
	Component Description:	Dual Universal Switch Controller 3U
	Amount:	$6,398.30
	Component Description:	New Primary Transmission Line
	Amount:	$74,394.33
	Component Description:	New Primary Transmission Line
	Amount:	$89,273.30
	Component Description:	KVLY-310-New Primary Transmission Line
	Amount:	$59,515.50
	Component Description:	Dual Universal Switch Controller 3U
	Amount:	$5,108.00
Sweep Existing Transmission Line	**Component Description:**	KVLY antenna /transmission line system sweep, report and expenses
	Amount:	$4,875.00

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**	**$1,286,447.20**		**$762,756.50**	
Tall Tower (greater than 500')	$210,500.00	$440,000.00	See Quote TCI-17-043	$191,580.50	N/A
Major tower reinforcement /modifications	$421,000.00	$619,825.00	see Justifying Quote and Change Orders - KVLY Tower Consultants, Inc TCI-18-051 (sections 1-5 of quote, plus change orders 1-3)	$519,455.00	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

Structural engineering tower load study for well documented tower	$12,600.00	$6,210.00	N/A	$0.00	N/A
Sub-total	$864,512.20	$1,286,447.20	N/A	$762,756.50	N/A
Total for all systems	$3,045,939.03	$3,234,996.26	N/A	$2,319,786.70	N/A

Components

Actual Information Description	File Name	
Tall Tower (greater than 500')	**Component Description:** **Amount:**	KVLY-410-Tower Rigging existing tower $93,131.5 $41,410.50
	Component Description: **Amount:**	Repack Modification Services - Section 3 - Mobilization $60,068.00
	Component Description: **Amount:**	install Dielectric Side Mount Antenna $90,102.00
Major tower reinforcement /modifications	**Component Description:** **Amount:**	Antenna and TX LIne Services - Sections 3,4 & 6 - tower modifications $150,170.00

Component Description:	CO # 3 Remobilization (Nov 6, 2018)
Amount:	$32,000.00
Component Description:	CO #2 - Insurance Addition
Amount:	$45,625.00
Component Description:	"Completion: 1 Section 1 and 2 Repack Modification Services"
Amount:	$50,524.00
Component Description:	Mobilization - Section 1 and 2 Repack Modification Services
Amount:	$75,786.00
Component Description:	Repack Modification Services
Amount:	$126,310.00
Component Description:	Mobilization - Section 1 and 2 Repack Modification Services
Amount:	$39,040.00
Component Description:	Repack modification services - Section 1 & 2.
Amount:	$126,310.00

Tower Painting	**Component Description:** **Amount:**	Down payment, Materials-New LED A-6 Tower Lighting System and labor $51,721.00
Structural engineering tower load study for well documented tower	**Component Description:** **Amount:**	Perform Tower Analysis $6,210.00

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**		**$98,884.80**	
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
Project management of the transition	$142,200.00	$135,000.00	N/A	$86,931.30	N/A

Prepare and or review reimbursement form	$2,630.00	$2,500.00	N/A	N/A	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
Sub-total	$181,330.00	$173,250.00	N/A	$98,884.80	N/A
Total for all systems	$3,045,939.03	$3,234,996.26	N/A	$2,319,786.70	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	**Component Description:** Legal services **Amount:** $123.00 **Component Description:** KVLY-590-FAA Consultant **Amount:** $550.00
ASR modification (prepare FCC Form 854)	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	**Component Description:** Legal services **Amount:** $2,012.50
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	**Component Description:** **Amount:**	Legal services $518.00
Prepare request for Special Temporary Authorization	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	**Component Description:** **Amount:**	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
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:**	Conduct channel study to identify alternate channels in lieu of repack Ch-18.
	Amount:	$3,137.50
	Component Description:	review tech specs of antenna for use as intereim
	Amount:	$312.50
	Component Description:	Perform engineering study for new channel assignment
	Amount:	$625.00
	Component Description:	Perform engineering study for new channel assignment
	Amount:	$3,050.00
	Component Description:	Perform engineering study for new channel assignment
	Amount:	$700.00
	Component Description:	Engineering Study for New Channel Assignment
	Amount:	$675.00
Project management of the transition	**Component Description:**	Project Management
	Amount:	$2,673.10

Component Description: Project Management
Amount: $2,567.30

Component Description: Project Management
Amount: $3,465.60

Component Description: Project Management
Amount: $6,073.15

Component Description: Project Management
Amount: $1,936.95

Component Description: Project Management
Amount: $1,796.50

Component Description: Project Management
Amount: $4,543.80

Component Description: Cost Reconciliation
Amount: $7,045.20

Component Description: Project Management
Amount: $2,480.15

Component Description: Project Management
Amount: $3,084.70

Component Description: Project Management
Amount: $2,268.75

Component Description: Project management
Amount: $2,444.35

Component Description: Project Management
Amount: $2,933.65

Component Description: Project Management
Amount: $2,007.60

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

Component Description: Project Management
Amount: $3,935.60

Component Description: Project Management
Amount: $4,089.80

Component Description: Project Management
Amount: $2,606.30

Component Description: Project Management
Amount: $802.25

Component Description: Project Mgt
Amount: $28.20

Component Description: Project Management
Amount: $3,705.15

Component Description: Project Management
Amount: $4,483.15

Component Description: Project Management
Amount: $2,301.45

Component Description: Project Management
Amount: $755.80

Component Description: Cost Reconciliation
Amount: $2,034.20

Component Description: Project management
Amount: $2,434.40

Component Description: Project Management
Amount: $3,079.40

Component Description: Project Management
Amount: $3,065.40

	Component Description: **Amount:**	Project Management $1,328.55
	Component Description: **Amount:**	Project Management $3,660.85
Prepare and or review reimbursement form	Information not provided.	
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	**$78,066.10**	**$68,748.60**		**$22,954.34**	
Other Expenses Not Listed - Site Remediation	***$2,500.00***	$2,500.00	Please see the attached Quote from R Cleveland, LCC. # Casselton ND 58012	N/A	N/A
Security	***$14,282.10***	$14,282.10	see Estimated Cost Justification KVLY-610-Site Security v0	$12,880.50	N/A
MVPD Notification of Channel Change	***$1,000.00***	$1,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	***$7,500.00***	$7,500.00	N/A	N/A	N/A
Equipment Storage	***$12,000.00***	$12,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	***$10,704.00***	$10,704.00	N/A	$10,073.84	N/A

Disposal Costs (for equipment and other waste, net of any salvage value)	***$18,000.00***	$18,000.00	See attached Midwest Steeplejacks "KVLY Blanchard Disposal Quote" dated 8-17-17. Updated quote from a year ago includes winter rate. at $18,000	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	$195.00	$190.00	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
Sub-total	$78,066.10	$68,748.60	N/A	$22,954.34	N/A
Total for all systems	$3,045,939.03	$3,234,996.26	N/A	$2,319,786.70	N/A

Components

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

Security	**Component Description:** Security for KVLY Transmitter site **Amount:** $919.80 **Component Description:** Security for KVLY Transmitter site **Amount:** $2,277.60 **Component Description:** Security for KVLY Transmitter site **Amount:** $2,040.00 **Component Description:** Security for KVLY Transmitter site **Amount:** $2,277.60 **Component Description:** Security for KVLY Transmitter site **Amount:** $854.10 **Component Description:** Security for KVLY Transmitter site **Amount:** $2,233.80 **Component Description:** Security for KVLY Transmitter site **Amount:** $2,277.60
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.

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

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	$3,045,939.03	$3,234,996.26	$2,319,786.70

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	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.	
	1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

	8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Robert Folliard , III .** *Assistant Secretary* 09/03/2019

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 IMPRISIONMENT (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).	
	1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

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

	8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission. 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Robert Folliard , III .** *Assistant Secretary* 09/03/2019

Attachments