

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

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

0000028721

Number:

ID:

File

FRN: 0018223693 Date 07/13

> Submitted: /2020

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 Name and Information Reimbursement Contact 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	
Manufacturer and Type	Model	DTT10KSUG1
	Year	2004
	Туре	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
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
Improvement	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 Code Verification for Transmitters
HVAC	HVAC Modification
Building Upgrade	Concrete Cutting Work
Electrical	Electrical Installation Costs
Pad for Heat Exchangers	Heat Exchanger Concrete Pad plus Ice shield

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
	Туре	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

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	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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

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	Class	Full Power
Manufacturer and Types	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Туре	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.

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Туре	
	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

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	Class	Full Power
Manufacturer and Type	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	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
	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 ^{Seffien}	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary Transmission Line

Existing Transmission Line

on 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	
	Туре	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

New Transmission Line

Primary

Transmission Line Question Response **New Transmission Line** Use Primary Costs (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 N/A Other Diameter Segment Length 20 inches Other Segment Length N/A Number of parallel runs 1 1974 feet Length 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 topmount.

Other Transmission Line Expenses Not Listed

Primary Transmission Line

Sweep Existing Transmission Line	Sweep existing transmission line to ascertain viability
Shipping	Transmission Line Shipping Costs

Interim

New Transmission Line

Transmission	n Line Section	Question	Response
New Transmission Line		Use	Interim
	Costs	Description of Use	N/A
	Change Type	Purchase New	
		Туре	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 tion 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	Do you have a tower registration number?	Yes
Registration	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 fe
	Support Structure Height	1951.09 fe
	Ground Elevation Above Mean Sea Level (AMSL)	975.05 fee

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

Other Types of Users

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u	3	u	3

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

Section	Question	Response	
Services Costs 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 Expenses Not Listed
Professional Services © Opstsided.

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 Co
Interim Transmitter THU9-EVO	\$294,763.58	\$340,251.98		\$296,014.32	
Inside RF System	\$21,263.58	\$21,263.58	N/A	\$0.00	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, 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	\$2,446,642.34	\$1,675,031.96		\$568,749.88	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$321,038.55	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$321,038.55	х

Other Electrical	\$4,205.19	\$4,205.19	see Estimated Cost	\$2,710.43	N/A
Service: The new main transmitter will require			Justification KVLY-110- Other Electrical		
reconfiguration of the electrical service on site. The electrical work cost has been			Service New 1st Primary Transmitter v0		
estimated based on verbal guidance from local electrical contractors.					
Building Upgrade	\$17,321.15	\$17,321.15	see Estimated Cost Justification KVLY-110- Building Upgrade v0	\$17,321.15	Krueger Concrete
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
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,189,851.07	per R&S Quote 802- 049860.1	\$94,013.75	N/A

Pad for Heat Exchangers \$122,166.00 \$1						
Sub-total \$2,741,405.92 \$2,015,283.94 N/A \$864,764.20 Total for all \$4,801,012.18 \$4,226,256.24 N/A \$2,331,997.83		\$122,166.00	\$122,166.00	Cost Justification KVLY-110- Pads for Heat Exchangers New 1st Primary	\$122,166.00	N/A
Total for all \$4,801,012.18 \$4,226,256.24 N/A \$2,331,997.83	Electrical	\$3,000.00	\$3,000.00	invoices included in the interim transmitter budget	\$3,000.00	N/A
	Sub-total	\$2,741,405.92	\$2,015,283.94	N/A	\$864,764.20	N/A
oyotome	Total for all systems	\$4,801,012.18	\$4,226,256.24	N/A	\$2,331,997.83	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: KVLY-180-New

Interim Transmitter

Amount: \$2,188.23

Component Description: New Interim

Transmitter

Amount: \$5,021.25

Component Description: KVLY-180-New

Interim Transmitter

Amount: \$5,925.00

Component Description: New Interim

Amount:

Transmitter \$3,084.90

Component Description: Transmitter

components

Amount: \$10,728.39

Component Description: Milestone Payment

#2

Amount: \$126,120.00

Component Description: New 1st Primary

Transmitter \$16,826,55

Amount: \$16,826.55

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: Invoice moved to

correct budget

category N/A

Amount:

Component Description:

Electrical work installing new KVLY

Channel 36 main

transmitter

Amount: \$7,853.75

Component Description: Change order #1

additional disconnects

Amount: \$3,614.25

Component Description: THU9EVO-8 Main

Transmitter 25% downpayment

Amount: \$94,013.75

Component Description: Electric work for new

transmitter

Amount: \$4,825.10

Component Description: DP 50% down

payment Milestone 2

at delivery

Amount: \$188,027.50

Other Electrical Service: The new main transmitter **Component Description:** Labor will require reconfiguration Amount: \$2,710.43 of the electrical service on site. The electrical work cost has been estimated **Component Description: Equipment Rental** based on verbal guidance from local electrical Caterpillar Amount: \$1,281.00 contractors. **Building Upgrade Component Description:** Construct room at tower site in Blanchard, Amount: \$8,950.00 **Component Description: Demo Saw Cutting** 15"w x 54"w x 4" hole in floor Amount: \$2,885.00 **Component Description:** Labor - Demo Masonry and Install Rebar Amount: \$5,486.15 **HVAC Component Description: HVAC** MODIFICATIONS, **BLANCHRD ND TOWER** Amount: \$4,250.00 **Blanchard Tower Component Description: HVAC Modifications**

Amount:

\$4,250.00

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW

Component Description: DP 20% Final

Payment Milestone 3

Amount: \$94,013.75

Component Description: "Rohde & Schwarz

QT: 802-030267.8 Rohde & Schwarz QT: 802-049860.1"

Amount: \$18,802.75

Pad f	or Heat	Exchangers
ı au ı	UI I ICAL	

Component Description: Costs to fill 8' by 17'

cistern; Blanchard Transmitter Pad and

Ice Canopy

Amount: \$7,088.00

Component Description: Material handling;

skid steer rental

Amount: \$600.00

Component Description: Ice canopy material

Amount: \$39,484.00

Component Description: Heat Exchangers

New 1st Primary Transmitter

Amount: \$33,722.00

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: Fencing to enclose

concrete pad

Amount: \$5,072.00

Electrical		
	Component Description:	Third party
		engineering review
		of non-UL listed
		equipment
	Amount:	\$3,000.00

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	
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	\$321,441.60	\$119,920.79		\$112,058.29	
Top Plate Adapter	\$15,641.60	\$15,641.60	see Estimated Cost Justification KVLY-210- Top Plate Adapter New Primary Antenna v0	\$15,641.60	N/A

Total for all systems	\$4,801,012.18	\$4,226,256.24	N/A	\$2,331,997.83	N/A
Sub-total	\$417,571.60	\$181,985.41	N/A	\$173,363.16	N/A
elliptically or circularly polarized			Antenna v0		
(200-1000 kW), One station antenna,			Justification KVLY-210- New Primary		
UHF - High Power Top Mount	\$289,500.00	\$91,261.59	see Estimated Cost	\$83,399.09	N/A
antenna			Cost Justification KVLY-210- Sweep Test New Primary Antenna v0		
Sweep test of existing	\$6,730.00	\$5,120.00	see Estimated	\$5,120.00	N/A
complex, single channel, at antenna input, per 4 1/16. feedline (if needed)			Estimated Cost Justification KVLY-210- Elbow Complex New Primary Antenna v0		

Components

Actual Information	
Description	File Name

UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized

UHF LOW Component Description:

> **POWER SIDE MOUNT**

Amount: \$12,680.00

Component Description: UHF LOW

POWER SIDE

MOUNT

Amount: \$14,703.03

Component Description: UHF LOW

POWER SIDE

MOUNT

Amount: \$12,680.00

Component Description: Interim Antenna

> System - UHF Low Power Side Mount

\$14,841.84 Amount:

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

KVLY-280-Sweep **Component Description:**

Test New Interim

Antenna

\$1,225.96 Amount:

Component Description: Sweep Test

\$1,920.00 Amount:

op Plate Adapter		
	Component Description:	New Primary
		Antenna Top Plate
		Adapter
	Amount:	\$5,865.60
	Component Description:	KVLY-210-Top
		Plate Adapter New
	Amount:	Primary Antenna \$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

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: \$2,961.60

Component Description: New Primary

Antenna Elbow

Complex

Amount: \$2,468.00

Component Description: KVLY-210-Elbow

Complex New Primary Antenna

Amount: \$1,974.40

Sweep test of existing antenna

Component Description: Sweep Test New

Primary Antenna

Amount: \$1,920.00

Component Description: KVLY-210-Sweep

Test New Primary

Antenna

Amount: \$1,280.00

Component Description: Sweep Test New

Antenna

Amount: \$1,600.00

Component Description: Sweep Test New

Primary

Transmission Line

Amount: \$1,600.00

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

Component Description:

Amount:

Credit Memo

(\$76,242.29)

Component Description:

UHF - HIGH POWER TOP

MOUNT

Amount: \$39,907.50

Component Description:

KVLY-210-New Primary Antenna-

Amount:

\$7,862.50

Component Description:

New Primary Antenna - UHF

High Power Top

Mount

Amount: \$59,872.65

Component Description:

New Primary

Antenna

Amount: \$49,884.36

Component Description:

Amount:

Primary Antenna

\$49,884.37

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
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	\$420,272.34	\$271,452.65		\$270,967.65	
Shipping	\$16,524.34	\$16,524.34	Please see COMB KVLY- TV DTVPros 161-5 rev. 3.24.2020	\$16,524.34	N/A
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	\$249,928.31	see Estimated Cost Justification KVLY-310- New Primary Transmission Line v0	\$249,568.31	N/A
Sub-total	\$513,492.34	\$350,912.07	N/A	\$338,797.11	N/A
Total for all systems	\$4,801,012.18	\$4,226,256.24	N/A	\$2,331,997.83	N/A

Components

File Name	
Component Description:	KVLY-380-New Interim Transmission Line
Amount:	\$15,777.89
Component Description:	KVLY-380-New Interim
Amount:	Transmission Line \$18,032.64
Component Description:	Interim
Amount:	Transmission Line \$15,777.89
Component Description:	Interim Transmission Line
Amount:	\$18,241.04
Component Description:	Shipping
Amount:	\$16,524.34
Component Description:	KVLY antenna /transmission line system sweep,
Amount	report and expenses \$4,875.00
	Component Description: Amount: Component Description: Amount: Component Description: Amount: Component Description: Amount:

Rigid Transmission Line - copper, 6 1/8"

Component Description: Dual Universal

Switch Controller

3U

Amount: \$6,398.30

Component Description: New Primary

Transmission Line

Amount: \$74,394.38

Component Description: KVLY-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: \$5,108.00

Component Description: Invoice moved to

correct budget category per NMI

message.

Amount: N/A

Component Description: New Primary

Transmission Line

Amount: \$89,273.30

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
Primary Tower TOWER	\$864,512.20	\$1,368,277.20		\$726,615.00	
Major tower reinforcement /modifications	\$421,000.00	\$701,625.00	see Estimated Cost Justification KVLY-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 KVLY Tower Consultants Inc Proposal TCI-17-210	\$6,240.00	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
Tall Tower (greater than 500')	\$210,500.00	\$440,000.00	See Quote TCI-17-043	\$117,199.00	N/A
Sub-total	\$864,512.20	\$1,368,277.20	N/A	\$726,615.00	N/A
Total for all systems	\$4,801,012.18	\$4,226,256.24	N/A	\$2,331,997.83	N/A

Components

•		
Actual Information Description	File Name	
Major tower reinforcement /modifications	Component Description:	Mobilization - Section 1 and 2 Repack Modification
	Amount:	Services \$39,040.00
	Component Description:	CO # 3 Remobilization (Nov 6, 2018)
	Amount:	\$32,000.00
	Component Description:	Additional Mobilization
	Amount:	\$32,000.00
	Component Description:	"Completion: 1 Section 1 and 2 Repack Modification Services"
	Amount:	\$50,524.00
	Component Description:	Repack modification services - Section 1 & 2.
	Amount:	\$126,310.00
	Component Description: Amount:	CO #2 - Insurance Addition \$45,625.00

Component Description: Repack

Modification

Services

Amount: \$126,310.00

Component Description: Antenna and TX

Line Services -Sections 3,4 & 6 tower modifications

tower modification

Amount: \$150,170.00

Component Description: Mobilization -

Section 1 and 2

Repack Modification Services

Amount: \$75,786.00

Structural engineering tower load study for well documented tower

Component Description:

Amount:

Additional Services

\$6,240.00

Component Description: Perform Tower

Analysis

Amount: \$6,210.00

Tower Painting		
	Component Description:	KVLY-TV invoice
		for repack 2019
	Amount:	\$12,190.00
	Component Description:	Down payment,
		Materials-New LED
		A-6 Tower Lighting
		System and labor
	Amount:	\$51,721.00
	Component Description:	Payment for
		Materials / Labor
	Amount:	\$12,190.00
	Component Description:	Please deny this
		entry

Amount:

N/A

Tall Tower (greater than 500')

Component Description: Repack

Modification

Services - Section 3 - Mobilization

Amount: \$60,068.00

Component Description: Additional Services

Amount: \$18,750.00

Component Description: Credit Memo for

Painting existing tower and Tower rigging existing

tower

Amount: (\$93,131.50)

Component Description: KVLY-410-Tower

Rigging existing

tower

Amount: \$10,810.00

Component Description: install Dielectric

Side Mount
Antenna

Amount: \$90,102.00

Component Description: KVLY-410-Tower

Rigging existing tower \$93,131.5

Amount: \$41,410.50

Component Description: KVLY-410-Tower

Rigging existing

tower

Amount: \$10,810.00

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	\$236,415.00		\$166,548.40	
Project management of the transition	\$142,200.00	\$198,165.00	Please see Estimated Cost Justification KVLY-510- Project Management v1	\$154,294.90	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	\$973.00	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. \$2,630.00 \$2,500.00 N/A 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 N/A Prepare and or review reimbursement form \$181,330.00 \$236,415.00 N/A \$166,548.40 N/A Total for all systems \$4,801,012.18 \$4,226,256.24 N/A \$2,331,997.83 N/A						
transition timing and coordination issues w/ other stations and wireless Prepare and or review reimbursement form \$181,330.00 \$236,415.00 N/A \$166,548.40 N/A Total for all \$4,801,012.18 \$4,226,256.24 N/A \$2,331,997.83 N/A	engineering study for new channel assignment and antenna	\$7,360.00	\$8,500.00	engineering work required to conduct channel study to identify alternate channel in lieu of repack Ch.	\$8,500.00	N/A
or review reimbursement form Sub-total \$181,330.00 \$236,415.00 N/A \$166,548.40 N/A Total for all \$4,801,012.18 \$4,226,256.24 N/A \$2,331,997.83 N/A	transition timing and coordination issues w/ other stations	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Total for all \$4,801,012.18 \$4,226,256.24 N/A \$2,331,997.83 N/A	or review reimbursement	\$2,630.00	\$2,500.00	N/A	N/A	N/A
	Sub-total	\$181,330.00	\$236,415.00	N/A	\$166,548.40	N/A
		\$4,801,012.18	\$4,226,256.24	N/A	\$2,331,997.83	N/A

Components

Actual Information Description	File Name	
Project management of the transition	Component Description: Amount:	Project Management \$802.25
	Component Description: Amount:	Project Management \$11,788.40

Component Description:

Project management

Amount:

\$2,444.35

Component Description:

Project

Amount:

Management \$2,567.30

Component Description:

Project

Amount:

Amount:

Amount:

Management

\$3,465.60

Component Description:

Project

Management

\$6,073.15

Component Description:

Project

Management

\$2,863.15

Component Description:

Project

Management

Amount:

\$1,796.50

Component Description:

Project

Amount:

Management

\$7,307.00

Component Description:

Project

Amount:

Management

\$8,554.80

Component Description:

Project

Amount:

Management

\$3,084.70

Component Description:

Project Management

Amount:

\$3,228.50

Component Description:

Project

Amount:

Management \$6,723.70

Component Description:

Project

Amount:

Management \$6,796.40

Project

Component Description:

Management

Amount:

\$5,984.50

Component Description:

Project

Management

Amount:

\$3,660.85

Component Description:

Project

Management

Amount:

\$2,673.10

Component Description:

Project

Amount:

Management

\$5,252.50

Component Description:

Amount:

Project Mgt \$28.20

Component Description:

Project

Amount:

Management

\$3,705.15

Component Description: Project

Management \$2,933,65

Amount: \$2,933.65

Component Description: Project

Management

Amount: \$8,864.65

Component Description: Project

Management

Amount: \$2,268.75

Component Description: Project

Management

Amount: \$3,935.60

Component Description:

Project

Management

Amount: \$4,089.80

Component Description: Project

Management

Amount: \$3,065.40

Component Description: Project

Management

Amount: \$2,480.15

Component Description: Project

Management

Amount: \$1,328.55

Component Description: Transition Related

Project

Management Costs

Amount: \$3,300.00

Component Description: KVLY-510-Project

> Management \$2,700.00

Component Description:

Project

Management Amount:

\$1,936.95

Component Description:

Project

Management

Amount:

Amount:

\$2,007.60

Component Description:

Project

Management

Amount:

\$2,606.30

Component Description:

Project

Management

Amount:

\$4,543.80

Component Description:

Project

Management

Amount:

\$3,079.40

Component Description:

Project

management

Amount:

\$2,434.40

Component Description:

Project

Amount:

Management \$755.80

Component Description:

Project

Amount:

Management

\$4,483.15

	Component Description: Amount:	Cost Reconciliation \$7,045.20
	Component Description: Amount:	Project Management \$2,301.45
	Component Description: Amount:	Cost Reconciliation \$2,034.20
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Component Description: Amount:	Legal services \$123.00
	Component Description: Amount:	Regarding installation of repack CH-36 main antenna \$300.00
	Component Description: Amount:	KVLY-590-FAA Consultant \$550.00
ASR modification (prepare FCC Form 854)	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Component Description: Amount:	Legal services \$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	Component Descriptions	roviou toch cocco
and antenna development	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	Conduct channel
	Component Description:	study to identify
		alternate channels
		in lieu of repack
		Ch-18.
	Amount:	\$3,137.50
	Component Description:	Perform
		engineering study
		for new channel
	Amount:	assignment \$3,050.00
	Amount.	\$3,030.00
	Component Description:	Engineering Study
		for New Channel
		Assignment
	Amount:	\$675.00
	Component Personnell	Dorform
	Component Description:	Perform
		engineering study for new channel
		assignment
	Amount:	\$700.00
		4. 55.65
Address transition timing and coordination issues w/	Information not provided.	

other stations and wireless

Prepare and or review
reimbursement form

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	\$82,700.12	\$73,382.62		\$61,909.96	
Other Expenses Not Listed - Site Remediation	\$4,866.18	\$4,866.18	see Estimated Cost Justification KVLY-610- Other Expenses - Other Expenses Not Listed - Site Remediation v1	\$4,866.18	N/A
Security	\$15,409.94	\$15,409.94	see Estimated Cost Justification KVLY-610- Site Security v.1	\$15,409.94	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

Components

Actual Information Description	File Name	
Other Expenses Not Listed - Site Remediation	Component Description: Amount:	Crop /damages caused by tower work \$1,645.18
	Component Description: Amount:	Labor to fix lawn \$3,221.00

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

Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Component Description:	STORAGE - 2 48' VANS
	Amount:	\$13,140.00
Equipment Delivery and Handling Charges	Component Description	Unloading of 2"
	Component Description:	Unloading of 3" transmission line reel and forklift
	Amount:	\$1,624.05
	Component Description:	Site Work on 8/28 /2018
	Amount:	\$900.00
	Component Description:	Material Handling on 07/10/18 Uploaded and
		moved transformers. Moved heat exchangers from
	Amount:	building to pad. \$420.00
	Component Description: Amount:	Equipment Delivery \$4,815.73
	Component Description: Amount:	Site work \$2,734.06
Disposal Costs (for equipment and other waste,	Component Description:	Labor to remove
net of any salvage value)		from the site after coming off of tower
	Amount:	\$18,000.00

FCC Filing Fees - Special Temporary Authorization request	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
DTV Medical Facility Notification	Information not provided.

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$4,801,012.18	\$4,226,256.24	\$2,331,997.83

Reimbursem	entestiatus	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

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 abovenamed applicant for the Authorization(s) specified above. Robert Folliard , III

Assistant Secretary

07/13/2020

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.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- 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 abovenamed applicant for the Authorization(s) specified above. Robert Folliard , III

Assistant Secretary

07/13/2020

Attachments