



(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 **01/02**  
Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>GRAY TELEVISION LICENSEE, LLC</b> 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
<b>Samuel Hariton</b> <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
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	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.
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Pad for Heat Exchangers	Heat Exchanger Concrete Pad plus Ice shield
Building Upgrade	Concrete Cutting Work
Electrical	Electrical Installation Costs
Electrical	Electrical Code Verification for Transmitters
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	No

	Description	N/A
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A
<b>Inside RF System</b>	Is an additional interior RF system required to support this interim transmitter?	No

**Interim  
Transmitter**

**Other Transmitter Cost Not Listed**

Name	Description
<b>Inside RF System</b>	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
<b>Existing Antenna Description</b>	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	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	TFUGTH /VP-R 3C200
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
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	4 1/16 inches inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	No

<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

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

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
<b>New Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	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
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

## 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
<b>Existing Transmission Line Description</b>	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
<b>Existing Transmission Line Manufacturer and Type</b>	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
<b>New Transmission Line Costs</b>	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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<b>Sweep Existing Transmission Line</b>	Sweep existing transmission line to ascertain viability
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**Interim** **New Transmission Line**  
**Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	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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<b>Tower Painting</b>	Restripe tower paint to match lower height change.
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**Outside  
Professional Services Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	900
	Explanation	Strategic Planning
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	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
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes

	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	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
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
<b>Permit and Filing Costs</b>	Local Zoning	No
	Non-zoning permits	No
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
<b>Other Miscellaneous Expenses</b>	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	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

## Cost Information

### Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Interim Transmitter THU9-EVO</b>	<b>\$294,763.58</b>	<b>\$340,251.98</b>		<b>\$290,211.84</b>	
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.	\$290,211.84	N/A
Inside RF System	<b>\$21,263.58</b>	\$21,263.58	N/A	N/A	N/A
<b>Primary Transmitter THU9-8EVO</b>	<b>\$644,887.15</b>	<b>\$545,536.11</b>		<b>\$457,367.95</b>	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$395,148.96	N/A	\$324,652.80	N/A

HVAC	<b>\$17,450.00</b>	\$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.	\$4,250.00	N/A
Electrical	<b>\$3,000.00</b>	\$3,000.00	Electrical invoices included in the interim transmitter budget category.	\$3,000.00	N/A
Building Upgrade	<b>\$8,371.15</b>	\$8,371.15	Krueger Concrete and Steel invoices 18413 and 18415.	\$8,371.15	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.	<b>\$2,500.00</b>	\$2,500.00	N/A	N/A	N/A

Pad for Heat Exchangers	<b>\$119,066.00</b>	\$119,066.00	Revised quote 4/30/2018	\$117,094.00	N/A
<b>Sub-total</b>	\$939,650.73	\$885,788.09	N/A	\$747,579.79	N/A
<b>Total for all systems</b>	\$2,977,231.43	\$2,994,878.66	N/A	\$1,772,014.05	N/A

**Components**

Actual Information	
Description	File Name

UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	<b>Component Description:</b>  <b>Amount:</b>	Down payment request on interim transmitter \$63,060.00
	<b>Component Description:</b>  <b>Amount:</b>	Transmitter components \$10,728.39
	<b>Component Description:</b>  <b>Amount:</b>	KVLV-180-New Interim Transmitter \$2,310.75
	<b>Component Description:</b>  <b>Amount:</b>	Milestone Payment #2 \$126,120.00
	<b>Component Description:</b>  <b>Amount:</b>	New Interim Transmitter \$5,021.25
	<b>Component Description:</b>  <b>Amount:</b>	Milestone Payment #3 \$63,060.00
	<b>Component Description:</b>  <b>Amount:</b>	New Interim Transmitter \$3,084.90
	<b>Component Description:</b>  <b>Amount:</b>	New 1st Primary Transmitter \$16,826.55
Inside RF System	Information not provided.	



UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	<b>Component Description:</b> <b>Amount:</b>	Electric work for new transmitter \$4,825.10
	<b>Component Description:</b> <b>Amount:</b>	Change order #1 additional disconnects \$3,614.25
	<b>Component Description:</b> <b>Amount:</b>	Electrical work installing new KVLV Channel 36 main transmitter \$7,853.75
	<b>Component Description:</b> <b>Amount:</b>	THU9EVO-8 Main Transmitter 25% downpayment \$94,013.75
	<b>Component Description:</b> <b>Amount:</b>	electrical work installing main and interim transmitters \$26,318.45
	<b>Component Description:</b> <b>Amount:</b>	DP 50% down payment Milestone 2 at delivery \$188,027.50
HVAC	<b>Component Description:</b> <b>Amount:</b>	Blanchard Tower HVAC Modifications \$4,250.00

Electrical	<div> <div> <b>Component Description:</b> </div> <div> Third party engineering review of non-UL listed equipment </div> </div> <div> <b>Amount:</b> </div> <div> \$3,000.00 </div>
Building Upgrade	<div> <div> <b>Component Description:</b> </div> <div> Demo Saw Cutting 15"w x 54"w x 4" hole in floor </div> </div> <div> <b>Amount:</b> </div> <div> \$2,885.00 </div> <div> <div> <b>Component Description:</b> </div> <div> Labor - Demo Masonry and Install Rebar </div> </div> <div> <b>Amount:</b> </div> <div> \$5,486.15 </div>
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.	Information not provided.

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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:** Labor to add 40 yards of fill, labor and grading estimate

**Amount:** \$2,500.00

**Component Description:** Ice canopy fabrication and onsite assembly

**Amount:** \$33,700.00

**Component Description:** Heat Exchangers New 1st Primary Transmitter

**Amount:** \$33,722.00

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## Cost Information

### Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Interim Antenna TLP32J</b>	<b>\$96,130.00</b>	<b>\$62,064.62</b>		<b>\$31,068.86</b>	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,547.02	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	\$27,521.84	N/A
<b>Primary Antenna TFUGTH /VP-R 3C200</b>	<b>\$325,352.00</b>	<b>\$277,004.30</b>		<b>\$188,319.60</b>	
Top Plate Adapter	<i>\$19,552.00</i>	\$19,552.00	N/A	\$15,641.60	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

Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,120.00	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	\$159,660.40	N/A
<b>Sub-total</b>	\$421,482.00	\$339,068.92	N/A	\$219,388.46	N/A
<b>Total for all systems</b>	\$2,977,231.43	\$2,994,878.66	N/A	\$1,772,014.05	N/A

## Components

Actual Information	
Description	File Name
Sweep test of existing antenna	<b>Component Description:</b>
	Sweep Test
	<b>Amount:</b>
	\$1,920.00
	<b>Component Description:</b>
	Sweep Test, Interim Antenna
	<b>Amount:</b>
	\$1,627.02

UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	<b>Component Description:</b>		UHF LOW POWER SIDE MOUNT
	<b>Amount:</b>		\$12,680.00
	<b>Component Description:</b>		Interim Antenna System - UHF Low Power Side Mount
	<b>Amount:</b>		\$14,841.84
Top Plate Adapter	<b>Component Description:</b>		New Primary Antenna Top Plate Adapter
	<b>Amount:</b>		\$5,865.60
	<b>Component Description:</b>		New Primary Antenna Top Plate Adapter
	<b>Amount:</b>		\$4,888.00
	<b>Component Description:</b>		New Primary Antenna Top Plate Adapter
	<b>Amount:</b>		\$4,888.00

<p>Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)</p>	<table> <tr> <td data-bbox="700 87 1023 280"><b>Component Description:</b></td><td data-bbox="1023 87 1426 280">New Primary Antenna Elbow Complex</td></tr> <tr> <td data-bbox="700 280 1023 360"><b>Amount:</b></td><td data-bbox="1023 280 1426 360">\$2,468.00</td></tr> <tr> <td data-bbox="700 360 1023 553"><b>Component Description:</b></td><td data-bbox="1023 360 1426 553">New Primary Antenna Elbow Complex</td></tr> <tr> <td data-bbox="700 553 1023 633"><b>Amount:</b></td><td data-bbox="1023 553 1426 633">\$2,961.60</td></tr> <tr> <td data-bbox="700 633 1023 826"><b>Component Description:</b></td><td data-bbox="1023 633 1426 826">New Primary Antenna Elbow Complex</td></tr> <tr> <td data-bbox="700 826 1023 902"><b>Amount:</b></td><td data-bbox="1023 826 1426 902">\$2,468.00</td></tr> </table>	<b>Component Description:</b>	New Primary Antenna Elbow Complex	<b>Amount:</b>	\$2,468.00	<b>Component Description:</b>	New Primary Antenna Elbow Complex	<b>Amount:</b>	\$2,961.60	<b>Component Description:</b>	New Primary Antenna Elbow Complex	<b>Amount:</b>	\$2,468.00
<b>Component Description:</b>	New Primary Antenna Elbow Complex												
<b>Amount:</b>	\$2,468.00												
<b>Component Description:</b>	New Primary Antenna Elbow Complex												
<b>Amount:</b>	\$2,961.60												
<b>Component Description:</b>	New Primary Antenna Elbow Complex												
<b>Amount:</b>	\$2,468.00												
<p>Sweep test of existing antenna</p>	<table> <tr> <td data-bbox="700 902 1023 1095"><b>Component Description:</b></td><td data-bbox="1023 902 1426 1095">Sweep Test New Primary Antenna</td></tr> <tr> <td data-bbox="700 1095 1023 1176"><b>Amount:</b></td><td data-bbox="1023 1095 1426 1176">\$1,920.00</td></tr> <tr> <td data-bbox="700 1176 1023 1368"><b>Component Description:</b></td><td data-bbox="1023 1176 1426 1368">Sweep Test New Primary Transmission Line</td></tr> <tr> <td data-bbox="700 1368 1023 1449"><b>Amount:</b></td><td data-bbox="1023 1368 1426 1449">\$1,600.00</td></tr> <tr> <td data-bbox="700 1449 1023 1641"><b>Component Description:</b></td><td data-bbox="1023 1449 1426 1641">Sweep Test New Antenna</td></tr> <tr> <td data-bbox="700 1641 1023 1628"><b>Amount:</b></td><td data-bbox="1023 1641 1426 1628">\$1,600.00</td></tr> </table>	<b>Component Description:</b>	Sweep Test New Primary Antenna	<b>Amount:</b>	\$1,920.00	<b>Component Description:</b>	Sweep Test New Primary Transmission Line	<b>Amount:</b>	\$1,600.00	<b>Component Description:</b>	Sweep Test New Antenna	<b>Amount:</b>	\$1,600.00
<b>Component Description:</b>	Sweep Test New Primary Antenna												
<b>Amount:</b>	\$1,920.00												
<b>Component Description:</b>	Sweep Test New Primary Transmission Line												
<b>Amount:</b>	\$1,600.00												
<b>Component Description:</b>	Sweep Test New Antenna												
<b>Amount:</b>	\$1,600.00												

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized		
	<b>Component Description:</b>	New Primary Antenna
	<b>Amount:</b>	\$49,893.87
	<b>Component Description:</b>	Primary Antenna
	<b>Amount:</b>	\$49,893.88
	<b>Component Description:</b>	New Primary Antenna - UHF High Power Top Mount
	<b>Amount:</b>	\$59,872.65



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		\$34,018.93	
Flexible Air Transmission Line - dielectric, 3"	\$93,220.00	\$79,459.42	N/A	\$34,018.93	N/A
Primary Transmission Line	\$403,748.00	\$338,304.03		\$254,443.43	
Rigid Transmission Line - copper, 6 1/8"	\$398,748.00	\$333,304.03	N/A	\$249,568.43	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	\$288,462.36	N/A
Total for all systems	\$2,977,231.43	\$2,994,878.66	N/A	\$1,772,014.05	N/A

Components

Actual Information	
Description	File Name

Flexible Air Transmission Line - dielectric, 3"	<b>Component Description:</b>	Interim
	<b>Amount:</b>	Transmission Line \$18,241.04
	<b>Component Description:</b>	Interim
	<b>Amount:</b>	Transmission Line \$15,777.89
Rigid Transmission Line - copper, 6 1/8"	<b>Component Description:</b>	Dual Universal Switch Controller
	<b>Amount:</b>	3U \$6,398.30
	<b>Component Description:</b>	New Primary
	<b>Amount:</b>	Transmission Line \$74,394.39
	<b>Component Description:</b>	New Primary
	<b>Amount:</b>	Transmission Line \$74,394.44
	<b>Component Description:</b>	Dual Universal Switch Controller
	<b>Amount:</b>	3U \$5,108.00
	<b>Component Description:</b>	New Primary
	<b>Amount:</b>	Transmission Line \$89,273.30

Sweep Existing Transmission Line	<table><tr><td data-bbox="702 98 1133 358"><b>Component Description:</b></td><td data-bbox="1133 98 1431 358">KVLV antenna /transmission line system sweep, report and expenses</td></tr><tr><td data-bbox="702 358 1133 403"><b>Amount:</b></td><td data-bbox="1133 358 1431 403">\$4,875.00</td></tr></table>	<b>Component Description:</b>	KVLV antenna /transmission line system sweep, report and expenses	<b>Amount:</b>	\$4,875.00
<b>Component Description:</b>	KVLV antenna /transmission line system sweep, report and expenses				
<b>Amount:</b>	\$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	\$1,115,037.20		\$444,207.00	
Major tower reinforcement /modifications	\$421,000.00	\$448,415.00	Per TCI quote and PO	\$354,105.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$6,210.00	N/A	\$0.00	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.	N/A	N/A
Tall Tower (greater than 500')	\$210,500.00	\$440,000.00	See Quote TCI-17-043	\$90,102.00	N/A
Sub-total	\$864,512.20	\$1,115,037.20	N/A	\$444,207.00	N/A
Total for all systems	\$2,977,231.43	\$2,994,878.66	N/A	\$1,772,014.05	N/A

## Components

Actual Information Description	File Name
Major tower reinforcement /modifications	<div> <b>Component Description:</b> </div> <div> Antenna and TX Line Services - Sections 3,4 &amp; 6 - tower modifications </div> <div> <b>Amount:</b> </div> <div> \$150,170.00 </div>
	<div> <b>Component Description:</b> </div> <div> Repack Modification Services </div> <div> <b>Amount:</b> </div> <div> \$126,310.00 </div>
	<div> <b>Component Description:</b> </div> <div> CO # 3 Remobilization ( Nov 6, 2018) </div> <div> <b>Amount:</b> </div> <div> \$32,000.00 </div>
	<div> <b>Component Description:</b> </div> <div> Repack modification services - Section 1 &amp; 2. </div> <div> <b>Amount:</b> </div> <div> \$126,310.00 </div>
	<div> <b>Component Description:</b> </div> <div> CO #2 - Insurance Addition </div> <div> <b>Amount:</b> </div> <div> \$45,625.00 </div>
Structural engineering tower load study for well documented tower	<div> <b>Component Description:</b> </div> <div> Perform Tower Analysis </div> <div> <b>Amount:</b> </div> <div> \$6,210.00 </div>
Tower Painting	Information not provided.

Tall Tower (greater than 500')	<b>Component Description:</b>  <b>Amount:</b>	install Dielectric Side Mount Antenna \$90,102.00
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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		\$60,262.60	
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	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	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	N/A	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	N/A	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
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$51,762.60	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



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
<b>Sub-total</b>	\$181,330.00	\$173,250.00	N/A	\$60,262.60	N/A
<b>Total for all systems</b>	\$2,977,231.43	\$2,994,878.66	N/A	\$1,772,014.05	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	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
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	Information not provided.

Prepare request for Special Temporary Authorization	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Project management of the transition	<b>Component Description:</b> <b>Amount:</b>	Project Management \$2,606.30
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$2,933.65
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$2,673.10
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$3,065.40
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$2,567.30
	<b>Component Description:</b> <b>Amount:</b>	Cost Reconciliation \$7,045.20
	<b>Component Description:</b> <b>Amount:</b>	Project Mgt \$28.20

<b>Component Description:</b>	Project management
<b>Amount:</b>	\$2,434.40

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,935.60

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$802.25

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,268.75

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,328.55

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,705.15

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$755.80

<b>Component Description:</b>	Project management
<b>Amount:</b>	\$2,444.35

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,480.15

	<b>Component Description:</b> <b>Amount:</b>	Project Management \$2,007.60
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$2,301.45
	<b>Component Description:</b> <b>Amount:</b>	Transition Related Project Management Costs \$3,300.00
	<b>Component Description:</b> <b>Amount:</b>	Project Management \$3,079.40
Prepare and or review reimbursement form	Information not provided.	
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	

Perform engineering study  
for new channel assignment  
and antenna development

**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:**

review tech specs  
of antenna for use  
as intereim

**Amount:**

\$312.50

**Component Description:**

Perform  
engineering study  
for new channel  
assignment

**Amount:**

\$700.00

**Component Description:**

Engineering Study  
for New Channel  
Assignment

**Amount:**

\$675.00

**Component Description:**

Conduct channel  
study to identify  
alternate channels  
in lieu of repack  
Ch-18.

**Amount:**

\$3,137.50

## Cost Information

### Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$73,288.50</b>	<b>\$63,971.00</b>		<b>\$12,113.84</b>	
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)	<i>\$18,000.00</i>	\$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	<i>\$10,704.00</i>	\$10,704.00	N/A	\$10,073.84	N/A
Equipment Storage	<i>\$12,000.00</i>	\$12,000.00	N/A	N/A	N/A

Develop and air announcement of upcoming channel change	<b>\$7,500.00</b>	\$7,500.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<b>\$1,000.00</b>	\$1,000.00	N/A	N/A	N/A
Security	<b>\$12,004.50</b>	\$12,004.50	Updated quote from a year ago includes winter rate.	\$2,040.00	N/A
<b>Sub-total</b>	\$73,288.50	\$63,971.00	N/A	\$12,113.84	N/A
<b>Total for all systems</b>	\$2,977,231.43	\$2,994,878.66	N/A	\$1,772,014.05	N/A

## Components

Actual Information	
Description	File Name
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	<b>Component Description:</b> Site Work on 8/28 /2018 <b>Amount:</b> \$900.00
	<b>Component Description:</b> Site work <b>Amount:</b> \$2,734.06
	<b>Component Description:</b> Unloading of 3" transmission line reel and forklift <b>Amount:</b> \$1,624.05
	<b>Component Description:</b> Equipment Delivery <b>Amount:</b> \$4,815.73
Equipment Storage	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Security	<b>Component Description:</b> Security for KVLV Transmitter site <b>Amount:</b> \$2,040.00



<b>Cost Information</b>	<b>Grand Total</b>		
		<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>
			<b>Actual Cost</b>
	<b>Total for all systems</b>	\$2,977,231.43	\$2,994,878.66
			\$1,772,014.05

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

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

<p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Robert Folliard</b>  <i>Assistant Secretary</i></p> <p>01/02/2019</p>

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

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

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Robert Folliard</b>  <i>Assistant Secretary</i></p> <p>01/02/2019</p>

## Attachments