



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **35037** | Service: **DTV** | Call **KKTV** | Channel: **26 (UHF)** |  
ID: | Sign:  
File **0000028650**  
Number:  
FRN: **0018223693** | Date **04/19**  
Submitted: **/2021**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>GRAY TELEVISION LICENSEE, LLC</b> Doing Business As: KKTV	KKTV 4370 PEACHTREE ROAD, NE ATLANTA, GA 30319 United States	+1 (404) 504-9828	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@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.		No
Briefly describe transition plan		KKTV will be replacing the main antenna, transmitter, and transmission line. KKTV will be installing an interim transmitter, transmission line and side-mount 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	PowerCD
	Year	2009
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	23 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	UAXTE- 32R44
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	16 kW
	Justification for New Transmitter	Upgrading existing IOT transmitter with air cooled solid state transmitter. Per discussions with GatesAir, due to the high altitude of the station's transmitter site, the station will require a 19 kW transmitter to make the power necessary (16 kW).

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	The new 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
Building Expansion	Building expansion, electrical expansion, ICE shield expansion.
Mask Filter	30 KW Mask filter

**Interim  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	TX9
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	19 kW
	Justification for New Transmitter	It's needed so the station can operate while the main transmitter is replaced. Per discussions with GatesAir, due to the high altitude of the station's transmitter site, the station will require a 19 kW transmitter to make the power necessary (16 kW).

**Interim  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	The new 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
<b>Inside RF System</b>	Is an additional interior RF system required to support this interim transmitter?	Yes

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

**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?	Yes
<b>Existing Antenna Manufacturer and Type</b>	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	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)	550.0 kW

Manufacturer	
Model	ATW22HS6- ETC170- 49H Trasar
Year	2009

Primary  
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
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) .....	350.0 kW
	Manufacturer	

Model	ATW17HS6-ETCX-26H
Year	2019
Justification for New Antenna	Current antenna is Channel 49, new channel assignment is 26. Current antenna is not re-tunable.

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	
	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?	

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

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	Yes
<b>New Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	20.0 kW
	Manufacturer	
	Model	ATW16H6- ESC170- 26L



Year	2019
Justification for New Antenna	Interim Antenna needed so that the station can broadcast while the new main antenna is installed.

### 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	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	350 feet per run

**Primary** **New Transmission Line**  
**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?	No
	Type	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	370 feet per run
	Justification for New Transmission Line	New Channel 26 Assignment required RF Line sections to be at 19.5' per section, existing RF Line is currently 19.75' per section.

**Primary** **Other Transmission Line Expenses Not Listed**  
**Transmission Line**

Information not provided.

**Interim**  
**Transmission Line**

**New 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	4 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	300 feet per run
	Justification for New Transmission Line	Interim transmission line needed so that the station can continue broadcasting while the new transmission line is installed.

**Interim**  
**Transmission Line**

**Other Transmission Line Expenses Not Listed**

Information not provided.

**Tower Equipment And Rigging Costs**

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

**Primary Tower**

**Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	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	1024861
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	38° 44' 42.0" N-
	Longitude (NAD83)	104° 51' 45.0" W-
	Overall Structure Height	353.01 feet
	Support Structure Height	299.87 feet
	Ground Elevation Above Mean Sea Level (AMSL)	9439.85 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	Gray Television Group, Inc.
	Date Constructed	06/01/1960

### 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:	No 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
Interim Antenna Rigging	Rigging costs for the interim antenna installation

**Outside  
Professional**

Section	Question	Response
<b>Services Costs 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	Yes
	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	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	No
	RF exposure measurements	Yes
	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	Yes
	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
Other State and Local Taxes	Other State and Local Taxes on all equipment and services not explicitly stated otherwise.

Cost  
Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmitter TX9	\$727,834.41	\$731,884.41		\$583,432.52	
UHF inside RF system including switching	\$147,500.00	\$151,550.00	State and local taxes added to the cost	\$5,098.11	N/A
Other Electrical Service: The new 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.	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A

UHF - Air Cooled Solid State Transmitter 19 kW	<b>\$578,334.41</b>	\$578,334.41	Per Estimated Cost Justification KKTV-110-New 1st Interim Transmitter v1, New interim transmitter required during the transition of the main transmitter to the new repack frequency.	\$578,334.41	N/A
<b>Primary Transmitter UAXTE-32R44</b>	<b>\$1,085,897.88</b>	<b>\$1,085,897.88</b>		<b>\$134,981.72</b>	
Building Expansion	<b>\$417,208.00</b>	\$417,208.00	GE Johnson Construction Co. KKTV Renovations Estimate (\$394,468). Keystone Associates Architect Fee quote (\$22,740). Combined \$417,208.	\$134,981.72	N/A
Mask Filter	<b>\$19,800.00</b>	\$19,800.00	30 KW Mask filter	N/A	N/A

Other Electrical Service: The new 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>\$2,000.00</b>	\$2,000.00	N/A	N/A	N/A
UHF - Air Cooled Solid State Transmitter 16 kW	<b>\$646,889.88</b>	\$646,889.88	GatesAir quote GA-00022480r1	\$0.00	N/A
<b>Sub-total</b>	\$1,813,732.29	\$1,817,782.29	N/A	\$718,414.24	N/A
<b>Total for all systems</b>	\$2,844,129.00	\$3,513,356.67	N/A	\$2,113,449.02	N/A

## Components

Actual Information	
Description	File Name
UHF inside RF system including switching	<div> <div>Component Description:</div> <div>DIELECTRIC-R0019581503 ELBOW 450 EIA 6 X 6 CU "QS" INSIDE USE</div> </div> <div> <div>Amount:</div> <div>\$4,890.07</div> </div> <div> <div>Component Description:</div> <div>SHELF-APD-D</div> </div> <div> <div>Amount:</div> <div>\$208.04</div> </div>

Other Electrical Service: The new 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.	
UHF - Air Cooled Solid State Transmitter 19 kW	<b>Component Description:</b> <b>Amount:</b>	75% Final Payment \$363,603.75
	<b>Component Description:</b> <b>Amount:</b>	RF Adapter 4-50 EIA& 25' Switch Control \$1,391.26
	<b>Component Description:</b> <b>Amount:</b>	Engineerin 9027.5198.02 \$39,062.30
	<b>Component Description:</b> <b>Amount:</b>	25% downpayment UHF 19.0 kw CH26 R&S TX9 \$121,201.25
	<b>Component Description:</b> <b>Amount:</b>	Engineering 9027.5198.02 \$21,189.96
	<b>Component Description:</b> <b>Amount:</b>	DP Tax \$31,885.89
Building Expansion	<b>Component Description:</b> <b>Amount:</b>	Limited Architectural Services \$5,200.00

<b>Component Description:</b>	KKTV-Digital Transmitter Upgrade
<b>Amount:</b>	\$52,565.72

<b>Component Description:</b>	Remove and dispose 6' of existing chain link fence to include one line post.
<b>Amount:</b>	\$2,622.00

<b>Component Description:</b>	Architectural Services
<b>Amount:</b>	\$654.40

<b>Component Description:</b>	Removed and stored on site
<b>Amount:</b>	\$2,622.00

<b>Component Description:</b>	Architectural and Engineering Services for September 2017
<b>Amount:</b>	\$2,362.18

<b>Component Description:</b>	Total Labor 6 hrs @ \$97.00/ hour - Craig Raffath
<b>Amount:</b>	\$805.12

<b>Component Description:</b>	Phase II drawings dated 6 Mar 19.
<b>Amount:</b>	\$9,398.01

<b>Component Description:</b>	Professional Services
<b>Amount:</b>	\$552.17



	<p><b>Component Description:</b> KKTV-Digital Transmitter Upgrade</p> <p><b>Amount:</b> \$19,085.29</p>
	<p><b>Component Description:</b> KKTV-Digital Transmitter Upgrade</p> <p><b>Amount:</b> \$34,929.63</p>
	<p><b>Component Description:</b> Architectural Services for August 2018</p> <p><b>Amount:</b> \$2,709.20</p>
	<p><b>Component Description:</b> Additional Services /Variance/Nakai</p> <p><b>Amount:</b> \$1,476.00</p>
Mask Filter	Information not provided.
Other Electrical Service: The new 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.
UHF - Air Cooled Solid State Transmitter 16 kW	Information not provided.

## 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 ATW16H6-ESC170-26L</b>	<b>\$130,691.21</b>	<b>\$130,361.21</b>		<b>\$130,361.19</b>	
UHF - High Power, Side Mount, basic slot antenna, 20 kW input, directional,, elliptically or circularly polarized	<i>\$123,961.21</i>	\$123,961.21	Per Estimated Cost Justification KKTv-280-New Interim Antenna v0	\$123,961.19	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
<b>Primary Antenna ATW17HS6-ETCX-26H</b>	<b>\$305,800.00</b>	<b>\$202,070.25</b>		<b>\$202,070.24</b>	
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$3,336.25	Please see attached DTVPros quote JEHQ1409-02.	\$3,336.24	N/A

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$192,334.00	Please see attached DTVPros quote JEHQ1409-02, this price includes new top plate.	\$192,334.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
<b>Sub-total</b>	\$436,491.21	\$332,431.46	N/A	\$332,431.43	N/A
<b>Total for all systems</b>	\$2,844,129.00	\$3,513,356.67	N/A	\$2,113,449.02	N/A

## Components

**Actual Information**  
**Description**

**File Name**

UHF - High Power, Side Mount, basic slot antenna, 20 kW input, directional,, elliptically or circularly polarized		
	<b>Component Description:</b>	UHF- High Power Side Mount (200-1000KW)
	<b>Amount:</b>	\$27,812.12
	<b>Component Description:</b>	UHF-HIGH POWER SIDE MOUNT (200-1000KW)
	<b>Amount:</b>	\$34,962.40
	<b>Component Description:</b>	UHF-high power side mount (200-1000KW) ATW16H-ESC170-26L side mounted elliptically polarized UHF TRASAR television transmitting antenna
	<b>Amount:</b>	\$27,812.12
	<b>Component Description:</b>	UHF-High Power Side Mount (200-1000KW)
	<b>Amount:</b>	\$33,374.55

Sweep test of existing antenna	<b>Component Description:</b>	Sweep test new interim antenna
	<b>Amount:</b>	\$1,600.00
	<b>Component Description:</b>	KKTV-280-Sweep test new interim antenna
	<b>Amount:</b>	\$1,280.00
	<b>Component Description:</b>	KKTV-280-Sweep test new interim antenna
	<b>Amount:</b>	\$1,600.00
	<b>Component Description:</b>	Sweep test new interim antenna
	<b>Amount:</b>	\$1,920.00

Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)		
	<b>Component Description:</b>	KKTV-210-Elbow complex new
	<b>Amount:</b>	primary antenna \$667.25
	<b>Component Description:</b>	KKTV Elbow Complex New
	<b>Amount:</b>	Primary Antenna \$834.06
	<b>Component Description:</b>	KKTV Elbow Complex new
	<b>Amount:</b>	primary antenna \$1,000.87
	<b>Component Description:</b>	KKTV-210-Elbow complex new
	<b>Amount:</b>	primary antenna \$834.06

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<b>Component Description:</b>		UHF-HIGH POWER TOP MOUNT (200-1000KW)
	<b>Amount:</b>		\$38,466.80
	<b>Component Description:</b>		UHF-high power top mount (200-1000KW) ATW17H56-ETCX-26H top mounted elliptically polarized UHF TRASAR television transmitting antenna
	<b>Amount:</b>		\$48,083.50
	<b>Component Description:</b>		UHF - High Power Top Mount (200-1000KW) ATW17HS6-ETCX-26H Top Mounted Elliptically Polarized UHF TRASAR Television Transmitting Antenna
	<b>Amount:</b>		\$57,700.20
	<b>Component Description:</b>		UHF - HIGH POWER TOP MOUNT
	<b>Amount:</b>		\$48,083.50

Sweep test of existing antenna

**Component Description:** KKTV-210-Sweep  
test new primary  
antenna  
**Amount:** \$1,600.00

**Component Description:** KKTV Sweep Test  
New Primary  
Antenna  
**Amount:** \$1,600.00

**Component Description:** KKTV-210-Sweep  
test new primary  
antenna  
**Amount:** \$1,280.00

**Component Description:** KKTV Sweep Test  
New Primary  
Antenna  
**Amount:** \$1,920.00



Cost  
Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$22,200.00	\$24,627.20		\$24,627.13	
Flexible Air Transmission Line - dielectric, 4"	\$22,200.00	\$24,627.20	Per Estimated Cost Justification KKTV-380-New Interim Transmission Line v1	\$24,627.13	N/A
Primary Transmission Line	\$52,540.00	\$72,722.93		\$59,824.49	
Rigid Transmission Line - copper, 4 1/16"	\$52,540.00	\$72,722.93	see Estimated Cost Justification KKTV-310-New Primary Transmission Line v0	\$59,824.49	N/A
Sub-total	\$74,740.00	\$97,350.13	N/A	\$84,451.62	N/A
Total for all systems	\$2,844,129.00	\$3,513,356.67	N/A	\$2,113,449.02	N/A

Components

Actual Information Description	File Name
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Flexible Air Transmission  
Line - dielectric, 4"

**Component Description:**

New Interim  
Transmission Line

**Amount:**

\$6,213.78

**Component Description:**

New Interim  
Transmission Line

**Amount:**

\$5,178.13

**Component Description:**

T/L TUNER  
INDOOR USE 3-  
50 14-37

**Amount:**

\$1,547.67

**Component Description:**

KKTV-380-New  
Interim  
Transmission Line

**Amount:**

\$5,178.13

**Component Description:**

KKTV-380-New  
Interim  
Transmission Line

**Amount:**

\$6,509.42

Rigid Transmission Line -  
copper, 4 1/16"

**Component Description:**

KKTV New  
Primary  
Transmission Line

**Amount:**

\$12,386.21

**Component Description:**

KKTV-310-New  
Primary  
Transmission Line

**Amount:**

\$20,188.58

**Component Description:**

KKTV New  
Primary  
Transmission Line

**Amount:**

\$14,863.49

**Component Description:**

KKTV-310-New  
Primary  
Transmission Line

**Amount:**

\$12,386.21

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	\$183,400.00	\$948,600.00		\$820,615.00	
Interim Antenna Rigging	<i>\$86,600.00</i>	\$86,600.00	N/A	N/A	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	\$2,500.00	N/A
Short Tower (less than 500')	\$84,200.00	\$850,000.00	The tower is on top of Cheyenne Mountain. Thin Air Quote 2838-001- KKTv	\$818,115.00	N/A
Sub-total	\$183,400.00	\$948,600.00	N/A	\$820,615.00	N/A
Total for all systems	\$2,844,129.00	\$3,513,356.67	N/A	\$2,113,449.02	N/A

Components

Actual Information Description	File Name
Interim Antenna Rigging	Information not provided.

Structural engineering tower load study for well documented tower	<b>Component Description:</b>  <b>Amount:</b>	Structural Analysis and Report  \$2,500.00
Short Tower (less than 500')	<b>Component Description:</b>  <b>Amount:</b>	Cheyenne Mountain KKT Tower Work Antenna and Line \$163,632.00
	<b>Component Description:</b>  <b>Amount:</b>	KKT Repack, final 30% invoice \$245,425.50
	<b>Component Description:</b>  <b>Amount:</b>	Cheyenne Mountain KKT Tower Work Antenna & Line- 50%Down \$409,057.50

## Cost Information

### Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Outside Professional Services</b>	<b>\$196,065.00</b>	<b>\$186,075.00</b>		<b>\$122,512.80</b>	
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$115,936.30	N/A
RF Exposure Measurements	\$21,050.00	\$21,650.00	State and local taxes included	\$0.00	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 - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$83.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$631.00	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 and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$675.00	Please see the attached invoice from Chesapeake RF Consultants #4962	\$675.00	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	\$7,000.00	N/A	\$4,937.50	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

<b>Sub-total</b>	\$196,065.00	\$186,075.00	N/A	\$122,512.80	N/A
<b>Total for all systems</b>	\$2,844,129.00	\$3,513,356.67	N/A	\$2,113,449.02	N/A

## Components

Actual Information Description	File Name
Project management of the transition	<b>Component Description:</b> Project Management <b>Amount:</b> \$3,571.85
	<b>Component Description:</b> Project Management <b>Amount:</b> \$3,481.05
	<b>Component Description:</b> Project Management <b>Amount:</b> \$1,831.65
	<b>Component Description:</b> Project management <b>Amount:</b> \$1,311.35
	<b>Component Description:</b> Project Management <b>Amount:</b> \$7,145.65
	<b>Component Description:</b> Project Management <b>Amount:</b> \$62.50
	<b>Component Description:</b> Project Management <b>Amount:</b> \$2,479.55



<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,352.40

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,783.05

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$699.55

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,653.10

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,926.15

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,098.40

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,456.40

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$226.25

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,154.95

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,909.80

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,541.50

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,133.25

<b>Component Description:</b>	Project management
<b>Amount:</b>	\$1,823.80

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,325.90

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,620.95

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$28.20

<b>Component Description:</b>	Project mgt
<b>Amount:</b>	\$5,850.45

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,265.85

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,868.75

<b>Component Description:</b>	Project management
<b>Amount:</b>	\$2,539.40

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

<b>Component Description:</b>	Project Mgt, Budget Review, Cost Reconciliation
<b>Amount:</b>	\$2,576.05

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,829.35

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,706.25

<b>Component Description:</b>	Project management
<b>Amount:</b>	\$3,756.70

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,377.55

<b>Component Description:</b>	Project Mgt, Budget Review, Cost Reconciliation
<b>Amount:</b>	\$755.80

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,751.45

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$203.75

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$818.15

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$3,156.05

<b>Component Description:</b>	Project management, cost reconciliation, budget review
<b>Amount:</b>	\$2,943.80

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$1,941.95

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,706.95

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$4,033.25

<b>Component Description:</b>	Project Management
<b>Amount:</b>	\$2,370.65

	<b>Component Description:</b> Project Management <b>Amount:</b> \$1,820.10
	<b>Component Description:</b> Project management <b>Amount:</b> \$2,555.15
	<b>Component Description:</b> Cost Reconciliation <b>Amount:</b> \$2,650.20
	<b>Component Description:</b> Project Mgt <b>Amount:</b> \$802.25
	<b>Component Description:</b> Project Management <b>Amount:</b> \$3,710.65
RF Exposure Measurements	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	<b>Component Description:</b> Professional Services <b>Amount:</b> \$83.00
	<b>Component Description:</b> KKTV-550- Attorney fees 2100 license to cover <b>Amount:</b> \$296.00

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	<b>Component Description:</b>  <b>Amount:</b>	Total Professional Services \$631.00
Prepare request for Special Temporary Authorization	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	<b>Component Description:</b>  <b>Amount:</b>	Consulting Engineer \$250.00
Prepare and or review reimbursement form	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	<b>Component Description:</b>  <b>Amount:</b>	Develop final technical parameters for side-mount antenna on repack Ch-26 for use as interim. \$675.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	

Perform engineering study for new channel assignment and antenna development	<div> <b>Component Description:</b> Perform engineering study for new channel assignment</div> <div> <b>Amount:</b> \$2,862.50 </div>
	<div> <b>Component Description:</b> Review prospective sub antenna specs</div> <div> <b>Amount:</b> \$187.50 </div>
	<div> <b>Component Description:</b> Conduct channel study</div> <div> <b>Amount:</b> \$187.50 </div>
	<div> <b>Component Description:</b> Consultation of build-out of repack Ch-26 main antenna facility</div> <div> <b>Amount:</b> \$250.00 </div>
	<div> <b>Component Description:</b> Consulting Engineer</div> <div> <b>Amount:</b> \$1,450.00 </div>
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.

## Cost Information

### Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$139,700.50</b>	<b>\$131,117.79</b>		<b>\$35,023.93</b>	
Other State and Local Taxes	<i>\$41,053.00</i>	\$41,053.00	N/A	\$29,972.93	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	See Justifying Quote - Wiley Rein MVPD quote - all gray stations	\$2,000.00	N/A
Develop and air announcement of upcoming channel change	<i>\$5,412.50</i>	\$5,412.50	N/A	\$296.00	N/A
Equipment Storage	<i>\$15,155.00</i>	\$15,155.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Non-zoning permits	<i>\$14,000.00</i>	\$14,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	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
DTV Medical Facility Notification	\$11,550.00	\$2,982.29	N/A	\$2,755.00	N/A
Equipment Delivery and Handling Charges	<b>\$25,000.00</b>	\$25,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$139,700.50	\$131,117.79	N/A	\$35,023.93	N/A
<b>Total for all systems</b>	\$2,844,129.00	\$3,513,356.67	N/A	\$2,113,449.02	N/A

## Components

Actual Information Description	File Name
Other State and Local Taxes	<b>Component Description:</b> Repack Use Tax <b>Amount:</b> \$29,972.93
MVPD Notification of Channel Change	<b>Component Description:</b> Professional services <b>Amount:</b> \$2,000.00
Develop and air announcement of upcoming channel change	<b>Component Description:</b> Professional services <b>Amount:</b> \$296.00
Equipment Storage	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Non-zoning permits	Information not provided.

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	<div> <div> <b>Component Description:</b> </div> <div> Mailing: Print and mail a two page, black and white generically addressed letter with a specifically addressed USPS barcoded route sorted envelope: </div> </div> <div> <b>Amount:</b> </div> <div> \$2,755.00 </div>
Equipment Delivery and Handling Charges	Information not provided.

<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>	\$2,844,129.00	\$3,513,356.67
			\$2,113,449.02

<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 , III</b>  .  <i>Assistant Secretary</i></p> <p>04/19/2021</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> <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 , III</b> . <i>Assistant Secretary</i></p> <p>04/19/2021</p>

## Attachments