



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **49397** | Service: **DTV** | Call **KTKA-TV** | Channel: **16 (UHF)**  
ID: | Sign:  
File **0000028777**  
Number:  
FRN: **0022106561** | Date **10/22**  
Submitted: **/2019**

## Applicant Information Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>KTKA TELEVISION, LLC</b>	Thomas J. Vaughan 3121 RIVERSHORE LANE PORT CHARLOTTE, FL 33953 United States	+1 (941) 764-6867	glenn.richards@pillsburylaw.com	Limited Liability Company

## Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Name and Information

Applicant	Address	Phone	Email
<b>Jessica Nyman , Esq .</b> <i>FCC Counsel</i> <i>Pillsbury Winthrop Shaw Pittman LLP</i>	Jessica Nyman 1200 Seventeenth Street Washington, DC 20036 United States	+1 (202) 663-8810	jessica.nyman@pillsburylaw.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	Replace transmitter and antenna using existing line. Acquire interim antenna and line for continued operation during construction and duration of the assigned phase. Map and analyze tower; design and implement modifications if required. See attached.

**Transmitters**

Section	Question	Response
<b>Transmitter Related Expenses</b>	Do you have transmitter related expenses?	Yes

**Auxiliary  
Transmitter****Add Transmitter Information**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	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	Affinity
	Year	2002
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1 kW

**Auxiliary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	TMU9evo/3
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	1 kW
	Justification for New Transmitter	The manufacturer of the existing transmitter advises that the transmitter cannot be re-tuned to the assigned channel. See attachment.

**Auxiliary  
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	De-install existing and install new
<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

**Auxiliary Transmitter**

**Other Transmitter Cost Not Listed**

Name	Description
<b>Additional Interior RF System</b>	Interior RF System Existing Transmitter to Interim Transmission line

**Primary  
Transmitter**

**Existing Transmitter Information**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<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	Diamond
	Year	2006
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1.8 kW

**Primary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	TMU9evo/6
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	2.3 kW
	Justification for New Transmitter	The manufacturer of the existing transmitter advises that the transmitter cannot be re-tuned to the assigned channel. See attachment.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes

	Size	2 inches
	Length	100.0 feet
	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

**Primary Transmitter**

**Other Transmitter Cost Not Listed**

Name	Description
<b>Additional Interior RF System</b>	Interior RF System Existing Transmitter to Interim Transmission line



**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	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Other
	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	Travelling Wave
	ERP: (Effective Radiated Power) .....	89.1 kW

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Manufacturer	
Model	ATW25H3- HTPXU-49H
Year	2001

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**Primary  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	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?	No
<b>New Antenna Manufacturer and Types</b>	Class	Full Power
	Mounting	Top 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) .....	51.0 kW
	Manufacturer	
	Model	ATW17H3- HTP230-16L

Year	2019
Justification for New Antenna	The existing primary top-mount antenna is a single channel slotted coaxial which cannot accommodate the assigned channel.

**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	6 1/8 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
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**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?	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)	89.1 kW
	Manufacturer	
	Model	TLP-24J
Year	2019	

Justification for New Antenna	An interim antenna is necessary to keep station on the air during primary antenna replacement and for the duration of the assigned phase.
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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?	Yes
	Broadband or Single Channel?	S
	Feed Line Size	4 1/16 inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for an antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
<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	Waveguide
	Diameter	N/A
	Other Diameter	N/A
	Segment Length	N/A
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1485 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?	No
	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	1518 feet per run
	Justification for New Transmission Line	The existing primary transmission line is frequency-specific circular waveguide with a diameter that cannot accommodate the assigned channel.

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

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	Rigid
	Diameter	4 1/16 inches
	Segment Length	19 3/4'
	Other Segment Length	
	Number of parallel runs	1
	Length	1350 feet per run
	Justification for New Transmission Line	An interim transmission line is necessary for the interim antenna to keep station on the air during primary antenna replacement and for the duration of the assigned phase.

**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
<b>Existing Tower Description</b>	Type of change	Construct New
	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)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
<b>Existing Tower Structure Registration</b>	Do you have a tower registration number?	Yes
	ASR Number	1031887
<b>Coordinates (NAD83 ( North American Datum of 1983))</b>	Latitude (NAD83)	39° 01' 34.0" N-
	Longitude (NAD83)	095° 55' 02.0" W-
	Overall Structure Height	1439.29 feet
	Support Structure Height	1381.22 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1109.89 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Nexstar Broadcasting, Inc.
Date Constructed	01/01/1984

**FM, AM or TV radio  
broadcasters. Facility ID's,  
Call Signs and Services of  
other broadcast stations with  
whom the tower is shared**

Facility ID	Call Sign	Service
18055	KSAJ-FM	FM
67334	KTPK	FM

**Other Types of Users**

Users
4 mwave ant
1 RPU antenna

**Primary Tower**

**Tower Construction Costs**

Section	Question	Response
<b>Construct New Tower</b>	Use	Primary (Main)
	Description of Use	N/A
	Is this a request for upgraded equipment?	No
	Height	1387.00 feet
	Justification for New Tower	See attached engineering technical statement, ERI structural analysis and ERI letter of recommendation to construct a new tower

**Primary Tower**

**Tower Rigging Costs**

Section	Question	Response
<b>Tower Rigging Costs</b>	Complex Tower	Other
<b>Helicopter Services Required</b>	Are helicopter services required?	No

**Primary Tower**

**Other Tower Expenses Not Listed**

Name	Description
<b>Structural Analysis</b>	Structural analysis

**Outside Professional Services Costs**

Section	Question	Response
<p><b>Outside Project Management Services</b></p>	<p>Do you require outside project management services?</p>	<p>Yes</p>
	<p>Number of Hours</p>	<p>1000</p>
	<p>Explanation</p>	<p>It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel trained in project management for such complex projects.</p>
<p><b>Outside RF consulting Engineering Services</b></p>	<p>Perform engineering study for new channel assignment and antenna development</p>	<p>Yes</p>
	<p>Prepare engineering section of Form FCC Construction Permit Application</p>	<p>Yes</p>
	<p>For Auxiliary Facility</p>	<p>No</p>
	<p>For Main Facility</p>	<p>Yes</p>
	<p>Prepare engineering section of Form FCC License to Cover Application</p>	<p>Yes</p>
	<p>For Auxiliary Facility</p>	<p>No</p>
	<p>For Main Facility</p>	<p>Yes</p>
	<p>Prepare request for Special Temporary Authority</p>	<p>Yes</p>



	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	Yes
	Environmental Assessment	Yes
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	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	No
	Additional Field Engineering Service	Yes

Number of Days	20
Justification	It will be necessary to survey the site, plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects. Station does not have available personnel or personnel trained in such services.

**Outside Professional Services Costs**      **Other Professional Services Expenses Not Listed**  
Information not provided.

**Other Expenses**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<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	Yes
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
<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**

<b>Name</b>	<b>Description</b>
<b>Land Survey for New Tower Construction</b>	Tower Site Land Survey and Site Plan Development for ERI New Tower Build and installation

**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>Primary Transmitter TMU9evo/6</b>	<b>\$262,350.00</b>	<b>\$217,550.00</b>		<b>\$82,900.00</b>	
Additional Interior RF System	<i>\$70,000.00</i>	\$70,000.00	N/A	N/A	N/A
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	\$126,000.00	\$82,900.00	See Rohde & Schwarz quote 230143.0	\$82,900.00	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$37,150.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,900.00	N/A	N/A	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$2,600.00	\$2,600.00	N/A	N/A	N/A
<b>Auxiliary Transmitter TMU9evo/3</b>	<b>\$93,450.00</b>	<b>\$93,450.00</b>		<b>\$0.00</b>	
Additional Interior RF System	<i>\$35,000.00</i>	\$35,000.00	N/A	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 1 kW	<i>\$48,450.00</i>	\$48,450.00	See Rohde & Schwarz quote 235153.0	\$0.00	N/A
Other Electrical Service: De- install existing and install new	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
<b>Sub-total</b>	\$355,800.00	\$311,000.00	N/A	\$82,900.00	N/A
<b>Total for all systems</b>	\$5,812,866.00	\$4,890,769.55	N/A	\$2,187,229.60	N/A

## Components

Actual Information	
Description	File Name
Additional Interior RF System	Information not provided.
UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW	<p><b>Component Description:</b> Transmitter, installment #1</p> <p><b>Amount:</b> \$20,725.00</p> <p><b>Component Description:</b> Transmitter, installment #2</p> <p><b>Amount:</b> \$62,175.00</p>
Switchgear - industrial 800 amp	Information not provided.
Transformer 3 phase/480v - 150 KVA	Information not provided.
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Additional Interior RF System	Information not provided.

UHF - Liquid Cooled Solid State Transmitter 1 kW	<p><b>Component Description:</b> Backup transmitter, installment #1</p> <p><b>Amount:</b> \$12,112.50</p>
Other Electrical Service: De-install existing and install new	Information not provided.
<p><b>Component Description:</b> Backup transmitter, installment #2</p> <p><b>Amount:</b> \$36,337.50</p>	

**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 TLP-24J</b>	<b>\$134,110.00</b>	<b>\$55,127.75</b>		<b>\$0.00</b>	
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$9,320.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	See Dielectric Quote Number 700438CMZ	N/A	N/A
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	\$89,400.00	\$29,499.75	See Dielectric Quote Number 700438CMZ	N/A	N/A



Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$4,788.00	See Dielectric Quote Number 700438CMZ	N/A	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$5,120.00	N/A	N/A	N/A
<b>Primary Antenna ATW17H3-HTP230-16L</b>	<b>\$266,030.00</b>	<b>\$146,598.00</b>		<b>\$81,690.00</b>	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$10,298.00	See Dielectric Quote Number DMS153-4	N/A	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$129,900.00	See Electronics Research quote 20181228-237 Rev C	\$77,940.00	N/A

Sweep test of existing antenna	\$6,730.00	\$6,400.00	See Dielectric Quote Number DMS153-4	\$3,750.00	N/A
<b>Sub-total</b>	\$400,140.00	\$201,725.75	N/A	\$81,690.00	N/A
<b>Total for all systems</b>	\$5,812,866.00	\$4,890,769.55	N/A	\$2,187,229.60	N/A

## Components

Actual Information	
Description	File Name
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	Information not provided.
Sweep test of existing antenna	Information not provided.
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	Information not provided.
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.

<p>UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized</p>	<p><b>Component Description:</b> Antenna, installment #1  <b>Amount:</b> \$38,970.00</p>
	<p><b>Component Description:</b> Antenna, installment #2  <b>Amount:</b> \$38,970.00</p>
	<p><b>Component Description:</b> Main antenna, installment #2  <b>Amount:</b> \$38,970.00</p>
	<p><b>Component Description:</b> Main antenna, installment #1  <b>Amount:</b> \$38,970.00</p>
<p>Sweep test of existing antenna</p>	<p><b>Component Description:</b> Sweep test, installment #1  <b>Amount:</b> \$1,875.00</p>
	<p><b>Component Description:</b> Sweep test, installment #2  <b>Amount:</b> \$1,875.00</p>

**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
<b>Interim Transmission Line</b>	<b>\$191,700.00</b>	<b>\$124,098.80</b>		<b>\$0.00</b>	
Rigid Transmission Line - copper, 4 1/16"	\$191,700.00	\$124,098.80	See Dielectric Quote Number 700438CMZ	N/A	N/A
<b>Primary Transmission Line</b>	<b>\$306,636.00</b>	<b>\$187,000.00</b>		<b>\$112,200.00</b>	
Rigid Transmission Line - copper, 6 1/8"	\$306,636.00	\$187,000.00	See Electronic Research quote 20181228-237 Rev C	\$112,200.00	N/A
<b>Sub-total</b>	<b>\$498,336.00</b>	<b>\$311,098.80</b>	N/A	<b>\$112,200.00</b>	N/A
<b>Total for all systems</b>	<b>\$5,812,866.00</b>	<b>\$4,890,769.55</b>	N/A	<b>\$2,187,229.60</b>	N/A

**Components**

Actual Information	
Description	File Name
Rigid Transmission Line - copper, 4 1/16"	Information not provided.

Rigid Transmission Line -  
copper, 6 1/8"

**Component Description:** Transmission line,  
installment #1  
**Amount:** \$56,100.00

**Component Description:** Transmission line,  
installment #2  
**Amount:** \$56,100.00

**Component Description:** Transmission line,  
installment #1  
**Amount:** \$56,100.00

**Component Description:** Transmission line,  
installment #2  
**Amount:** \$56,100.00

**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
<b>Primary Tower TOWER</b>	<b>\$0.00</b>	<b>\$0.00</b>		<b>\$0.00</b>	
<b>Primary Tower</b>	<b>\$4,106,790.00</b>	<b>\$3,621,275.00</b>		<b>\$1,870,083.60</b>	
Structural Analysis	<i>\$37,980.00</i>	\$37,980.00	Structural analysis and mapping required to determine tower requirements; see proposals from ERI \$3750 and \$25530, and Bartlett & West \$8700	\$29,530.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$249,136.00	See Electronics Research Proposal 20190410-188 Rev A	\$149,481.60	N/A
New tower between 1000' and 1500' without elevator, presumptive soil conditions	\$3,647,810.00	\$3,334,159.00	See attached ERI Proposal Number 20181210-098	\$1,691,072.00	N/A

<b>Sub-total</b>	\$4,106,790.00	\$3,621,275.00	N/A	\$1,870,083.60	N/A
<b>Total for all systems</b>	\$5,812,866.00	\$4,890,769.55	N/A	\$2,187,229.60	N/A

## Components

Actual Information Description	File Name
Structural Analysis	<b>Component Description:</b> Structural analysis <b>Amount:</b> \$6,525.00
	<b>Component Description:</b> Structural analysis <b>Amount:</b> \$3,750.00
	<b>Component Description:</b> Reinforcement and foundation mapping, installment #2 <b>Amount:</b> \$6,490.00
	<b>Component Description:</b> Reinforcement and foundation mapping, installment #1 <b>Amount:</b> \$12,765.00
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	<b>Component Description:</b> Antenna installation, installment #1 <b>Amount:</b> \$74,740.80
	<b>Component Description:</b> Antenna installation, installment #2 <b>Amount:</b> \$74,740.80

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New tower between 1000'  
and 1500' without elevator,  
presumptive soil conditions

**Component Description:**

Guyed Tower,  
installment #1

**Amount:**

\$1,691,072.00

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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
<b>Outside Professional Services</b>	<b>\$317,750.00</b>	<b>\$311,920.00</b>		<b>\$40,356.00</b>	
Project management of the transition	\$158,000.00	\$154,000.00	N/A	\$27,856.00	N/A
Additional Field Engineering Service, 20 Days	<i>\$108,000.00</i>	\$108,000.00	N/A	N/A	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,050.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,050.00	N/A	N/A	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$10,240.00	N/A	N/A	N/A

NEPA Section 106 environmental review, if needed	\$6,310.00	\$6,140.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,585.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,305.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,120.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,535.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,535.00	N/A	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,070.00	N/A	\$3,000.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,170.00	N/A	\$7,000.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,560.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,560.00	N/A	\$2,500.00	N/A
<b>Sub-total</b>	\$317,750.00	\$311,920.00	N/A	\$40,356.00	N/A
<b>Total for all systems</b>	\$5,812,866.00	\$4,890,769.55	N/A	\$2,187,229.60	N/A

## Components

Actual Information	
Description	File Name
Project management of the transition	<p><b>Component Description:</b> Project management services</p> <p><b>Amount:</b> \$15,352.50</p>

**Component Description:** Project management services, item 1 from invoice summary  
**Amount:** \$2,625.00

**Component Description:** Prepare FCC Schedule 387, item 5 from invoice summary  
**Amount:** \$300.00

**Component Description:** Prepare FCC Schedule 387, item 7 from invoice summary  
**Amount:** \$150.00

**Component Description:** Prepare FCC Schedule 387, item 6 from invoice summary  
**Amount:** \$150.00

**Component Description:** Various project management services, item 8 from invoice summary  
**Amount:** \$2,862.00

**Component Description:** Project management services April 2019  
**Amount:** \$123.50

**Component Description:** Project management services 6.1.19 through 6.28.19  
**Amount:** \$450.00

**Component Description:** Project management services 4.27.19 through 5.31.19  
**Amount:** \$75.00

**Component Description:** Project management services March 2019  
**Amount:** \$143.00

**Component Description:** Project management services January 2019  
**Amount:** \$65.00

**Component Description:** Project management services August 2018  
**Amount:** \$50.00

**Component Description:** Project management services February 2019  
**Amount:** \$60.00

**Component Description:** Project management services 1.1.19 through 1.31.19  
**Amount:** \$750.00

**Component Description:** Project management services 9.29.18 through 10.26.18  
**Amount:** \$300.00

**Component Description:** Project management services 5.26.18 through 6.29.18  
**Amount:** \$600.00

**Component Description:** Project management services 2.1.19 through 3.1.19  
**Amount:** \$450.00

**Component Description:** Project management services 6.30.18 through 7.27.18  
**Amount:** \$1,275.00

**Component Description:** Project management services 7.28.18 through 9.28.18  
**Amount:** \$225.00

	<p><b>Component Description:</b> Project management services 10.27.18 through 11.30.18</p> <p><b>Amount:</b> \$500.00</p> <p><b>Component Description:</b> Project management services 12.1.18 through 12.31.18</p> <p><b>Amount:</b> \$150.00</p> <p><b>Component Description:</b> Project management services 3.2.19 through 3.29.19</p> <p><b>Amount:</b> \$825.00</p> <p><b>Component Description:</b> Project management services 3.30.19 through 4.26.19</p> <p><b>Amount:</b> \$375.00</p>
Additional Field Engineering Service, 20 Days	Information not provided.
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.
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	Information not provided.

NEPA Section 106 environmental review, if needed	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	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	<p><b>Component Description:</b> Prepare engineering sections of Form 2100, item 4 from invoice summary</p> <p><b>Amount:</b> \$3,000.00</p>
Perform engineering study for new channel assignment and antenna development	<p><b>Component Description:</b> Perform engineering study for new channel assignment, item 3 from invoice summary</p> <p><b>Amount:</b> \$7,000.00</p>
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.



Prepare and or review  
reimbursement form

**Component Description:**

Prepare  
reimbursement  
form, item 2 from  
invoice summary

**Amount:**

\$2,500.00

**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>\$134,050.00</b>	<b>\$133,750.00</b>		<b>\$0.00</b>	
Land Survey for New Tower Construction	<i>\$9,000.00</i>	\$9,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$1,500.00</i>	\$1,500.00	Costs to produce spots and crawls for viewer notification.	N/A	N/A
Equipment Storage	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	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>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Local Zoning	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$11,250.00	N/A	N/A	N/A

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<b>Sub-total</b>	\$134,050.00	\$133,750.00	N/A	\$0.00	N/A
<b>Total for all systems</b>	\$5,812,866.00	\$4,890,769.55	N/A	\$2,187,229.60	N/A

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### **Components**

Information not provided.

**Cost Information** **Grand Total**

	<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>	<b>Actual Cost</b>
<b>Total for all systems</b>	\$5,812,866.00	\$4,890,769.55	\$2,187,229.60

**Reimbursement Status**

<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
	<p><b>Submission of Estimated Expenses Statements</b></p>	<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.

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Thomas J. Vaughan**  
*Manager*

10/22/2019

Certification	Section	Question	Response
	<b>Submission of Actual Cost Documentation Statements</b>	<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.

8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Thomas J. Vaughan**  
*Manager*

10/22/2019

## Attachments