

Federal Communications Commission

### (REFERENCE COPY - Not for submission)

## FCC Form 399: Reimbursement Request

Facility ID: File Number:	6669 00000	Service: DTV 28641	Call Sign:	КВТХ-ТV	Channel: <b>16 (UHF)</b>
FRN: <b>00</b>	18223693	Date	04/21		
		Submitted:	/2020		

#### Applicant Name, Type, and Contact Information Applicant Information Applicant Address Phone Email **Applicant Type GRAY TELEVISION KBTX-TV** +1 (254) Limited robert. LICENSEE, LLC 6700 776-1330 folliard@gray. Liability AMERICAN Company tv PLAZA WACO, TX 76712 **United States**

#### Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contac	parer Contact Name and Information			
Contact Information	Applicant	Address	Phone	Email	
	Samuel Hariton Widelity	Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widelity.com	

Broadcaster	Question	Response
Information and Transition Plan	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	The station will be replacing the existing main transmitter, antenna, and transmission line. The auxiliary antenna and transmitter will be replaced, while the auxiliary transmission line will be reused.

Transmitters	Section	Question	Response
	Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

ransmitter	Section	Question	Response
	Existing Transmitter Description	Type of change	Purchase New
		Use	Auxiliary (Backup)
		Description of Use	Backup Transmitter
		Ownership	Owned
		Owner	N/A
		Site	N/A
		Is this transmitter currently shared with another station?	No
		Is this transmitter currently in operating condition?	Yes
	Existing Transmitter	Manufacturer	
	Manufacturer and Type	Model	Diamond CD
		Year	2004
		Туре	Solid State
		Solid State Cooling	Air Cooled
		Solid State Power Capacity	5 kW

## Add Transmitter Information

Auxiliary	New Transmitter Costs				
Transmitter	Section	Question	Response		
	New Transmitter	Use	Auxiliary (Backup)		
		Change Type	Purchase New		
		Is this a request for upgraded equipment?	Yes		
		Manufacturer			
		Model	THU9EVO- 12		
		Transmitter Type	Solid State		
		Solid State Cooling	Liquid Cooled		
		Solid State Power capacity	19 kW		
		Justification for New Transmitter	Existing Ch50 Harris Diamond CD transmitter cannot be retuned. A new Transmitter is necessary for the assigned CH16 buildout.		

Auxiliary Transmitter	Other Transmitter Cost	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 transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
Improvement	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	15

Auxiliary Transmitter	Other Transmitter Cost Not Listed		
	Name	Description	
	Ice Shield	Ice Shield and Concrete Pads for Aux Transmitter heat exchanger	
	Auxiliary transmitter installation	Installation of auxiliary transmitter	

Primary	Existing Transmitter Information				
Transmitter	Section	Question	Response		
	Existing Transmitter Description	Type of change	Purchase New		
		Use	Primary (Main)		
		Description of Use	N/A		
		Ownership	Owned		
		Owner	N/A		
		Site	N/A		
		Is this transmitter currently shared with another station?	No		
		Is this transmitter currently in operating condition?	Yes		
	Existing Transmitter	Manufacturer			
	Manufacturer and Type M	Model	Power CD		
		Year	2008		
		Туре	Inductive Output Tube		
		IOT Power Type	Тwo		
		Power Capacity	60 kW		

## **Existing Transmitter Information**

Primary	New Transmitter Costs				
Transmitter	Section	Question	Response		
	New Transmitter	Use	Primary (Main)		
		Change Type	Purchase New		
		Is this a request for upgraded equipment?	Yes		
		Manufacturer			
		Model	THU9EVO- 40		
		Transmitter Type	Solid State		
		Solid State Cooling	Liquid Cooled		
		Solid State Power capacity	61 kW		
		Justification for New Transmitter	Existing CH50 transmitter cannot be retuned for the assigned CH16 frequency		

#### **Other Transmitter Costs**

Primary	Other Transmitter Costs		
Transmitter	Section	Question	Response
	Electrical Service	Service Entrance (3 phases 800A 208V)	No
		Switchgear (industrial 800 amp)	No
		Transformer (480V)	Yes
		Power	500 kVA
		Rigid Conduit and Wiring	Yes
		Size	3 inches

	Length	150.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Cooling Only
	Size	20 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	30

#### Other Transmitter Cost Not Listed

Primary	Other Transmitter Cost Not Listed	
Transmitter	Name	Description
	Portable Transmitter Building	Repack equipment requirements require more space allowed by current transmitter building. Portable bldg will house additional required equipment.
	Primary transmitter installation	Installation of primary transmitter

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary	Existing Antenna Inform	nation	
Antenna	Section	Question	Response
	Existing Antenna Description	Type of change	Purchase New
		Antenna Use	Primary (Main)
		Description of Use	N/A
		Ownership	Owned
		Owner	N/A
		Site	N/A
		Is the existing antenna shared with another station or stations?	No
		Is the existing antenna directional?	Yes
		Is antenna in operating condition?	Yes
		Is antenna located on or in close proximity to an antenna farm?	No
	Existing Antenna	Class	Full Power
	Manufacturer and Type	Mounting	Top Mount
		Antenna position in stack	Not in Stack
		Polarization	Elliptical
		Туре	Slotted Coaxial
		Number of Stations Supported	N/A
		Number of Panels	N/A
		Design power capacity in use	N/A
		Lower Limit	N/A
		Upper Limit	N/A
		Other Antenna Type	N/A
		ERP: (Effective Radiated Power)	1000.0 kW

Manufacturer	
Model	TFU30GTH /VP-R- 6T140
Year	2007

Primary	New Antenna Costs		
Antenna	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?	No
	New Antenna	Class	Full Power
	Manufacturer and Types	Mounting	Top Mount
		Antenna position in stack	Not in Stack
		Polarization	Elliptical
		Туре	Slotted Coaxial
		Number of Stations Supported	N/A
		Number of Panels/Bays	N/A
		Lower Limit	N/A
		Upper Limit	N/A
		Design power capacity in use	N/A
		Other Antenna Type	N/A
		ERP: (Effective Radiated Power)	705.0 kW
		Manufacturer	
			1

Model	TFU-19ET /VP-R 6T140 (SP
Year	2018
Justification for New Antenna	Existing antenna used for CH50 is no broadband and cannot be retuned for the assigned CH16 frequency

## Primary Other Antenna Costs

Antenna	Section	Question	Response
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
		Туре	
		Number of channels supported	N/A
		Frequencies of channels supported	N/A
		Frequency	N/A
		Do you need a combiner output splitter /switcher for dual feed lines?	N/A
	Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
		Broadband or Single Channel?	Single Channel
		Feed Line Size	7 3/16 inches inches
	Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	

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

# Primary<br/>AntennaOther Antenna Cost Not ListedInformation not provided.

Interim	New Antenna Costs		
Antenna	Section	Question	Response
	New Antenna Description	Use	Interim
		Description of Use	N/A
		Change Type	Purchase New
		Ownership	Owned
		Owner	N/A
		Is antenna shared?	No
		Is antenna directional?	Yes
		Will antenna be located on or in close proximity to an antenna farm?	No
	New Antenna	Class	Full Power
	Manufacturer and Type	Mounting	Side Mount
		Antenna position in stack	Not in Stack
		Polarization	Horizontal
		Туре	Slotted Coaxial
		Number of Stations Supported	N/A
		Number of Panels/Bays	N/A
		Lower Limit	N/A
		Upper Limit	N/A
		Design power capacity in use	N/A
		Other Antenna Type	N/A
		ERP: (Effective Radiated Power)	280.0 kW
		Manufacturer	
		Model	ALP24M4- HSOC-16
		Year	2018

Justification for New Antenna

## Interim Other Antenna Costs

Antenna

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

## Interim Other Antenna Cost Not Listed

Antenna Information not provided.

Transmissior	n Seffien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

## Existing Transmission Line Primary Existing Transmission

sior	Section	Question	Response
	Existing Transmission Line Description	Type of change	Utilize Existing
		Use	Primary (Main)
		Description of Use	N/A
		Ownership	Owned
		Owner	N/A
		Site	N/A
		Is the existing transmission line shared with another station or stations?	No
		Is Transmission Line in operating condition?	Yes
	Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
		Туре	Rigid
		Diameter	7 3/16 inches
		Other Diameter	N/A
		Segment Length	19 1/2 inches
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	1690 feet per run

## Other Transmission Line Expenses Not Listed Transmission Line

Iransmission	Name	Description
	Transmission Line Accessories	accessories needed for the existing transmission line

#### New Transmission Line

Interim Transmission Line

sion Line Section	Question	Response
New Transmission Line	Use	Interim
Costs	Description of Use	N/A
	Change Type	Purchase New
	Туре	Flexible Air
	Diameter	4 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	170 feet per run
	Justification for New Transmission Line	The upper half of the current line was found damaged during the RF sweep test and requires to be replaced

## Interim Other Transmission Line Expenses Not Listed

Transmission hometion not provided.

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

marv	Existing	Tower
------	----------	-------

Primary	Existing Tower			
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?	No	
	Existing Tower Structure Registration	Do you have a tower registration number?	Yes	
		ASR Number	1062868	
	Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	30° 33' 16.5" N-	
		Longitude (NAD83)	096° 01' 52.3" W-	
		Overall Structure Height	1649.91 feet	
		Support Structure Height	1600.05 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	331.69 feet	

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Gray Television Group, Inc.
Date Constructed	05/01/2009

## Primary Tower Section Qu

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:	Serious Reinforcements needed

## Primary Tower Section

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

Primary Tower	Other Tower Expenses Not Listed		
	Name	Description	
	Tower Analysis and Mapping	Tower Analysis and Mapping performed by TCI in 2016	

Outside	Section	Question	Response
Professional	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	900
		Explanation	Strategic Planning
	Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
		Prepare engineering section of Form FCC Construction Permit Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes
		Prepare engineering section of Form FCC License to Cover Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes
		Prepare request for Special Temporary Authority	Yes
		Quantity	1
		Do you have Distributed Transmission System engineering services?	N/A
		Critical Facility	N/A
		Terrain-Shielded Facility	N/A
	Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
	Services	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	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

## Outside Other Professional Services Expenses Not Listed

Professional Services Costs	Description
Attorney Fees - Other Matters	Legal Services

Other	Section	Question	Response
Expenses	AM Pattern Disturbance	Is an Impact Study needed?	No
		Is Remediation needed?	No
	Facility Expenses	Name	N/A
		Other Distributed Transmission System Expenses Not listed	N/A
		Name	N/A
		Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
	Permit and Filing Costs	Local Zoning	No
		Non-zoning permits	No
		BLM or NFS Coordination	No
		FCC Construction Permit Minor Change	No
		FCC License to Cover Application	Yes
		FCC Special Temporary Authority Application	Yes
	Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	No
		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 Not Listed

**Expenses** Information not provided.

### Transmitters

#### Cost Information

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

Description Primary Transmitter THU9EVO-40	Predetermined Cost Estimate \$2,334,445.98	Estimated Cost \$1,608,765.48	Estimated Cost Justification	Actual Cost \$485,031.93	Actual Cost Justificatior
Primary transmitter installation	\$148,254.59	\$148,254.59	Please see KBTX-TV Marsand quote 1937revA for this and Auxiliary Transmitter Installation	\$74,127.29	N/A
Portable Transmitter Building	\$8,356.39	\$8,356.39	per PO- 001275	\$8,356.39	N/A
Other HVAC Service Type: C Size:20 (Other)	\$75,775.00	\$75,775.00	18 ton unit (20 ton selected due to LMS limitation) per KBTX Anderson Tower Mitsubishi City Multi Proposal	\$75,775.00	N/A
Additional field engineering time, 10-30 days	\$63,100.00	\$64,950.00	Includes state and local tax	N/A	N/A

Channel 14 Mask Filter	\$189,500.00	\$128,625.00	per KBTX- 110-Channel 14 mask filter Budget Increase Justification v0	\$32,156.25	N/A
RF Consulting Engineer	\$5,260.00	\$5,412.50	State and local taxes	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$7,800.00	\$7,350.00	N/A	N/A	N/A
Transformer 3 phase/480v - 500 KVA	\$48,400.00	\$46,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,124,042.00	Please see Rohde & Schwarz Quote 117710.2 & Change Order 247256.1	\$294,617.00	N/A
Auxiliary Transmitter THU9EVO-12	\$1,016,485.00	\$606,920.50		\$142,095.50	
Auxiliary transmitter installation	\$38,250.00	\$38,250.00	Please see KBTX-TV Marsand quote 1937revA for this and Primary Transmitter Installation	\$19,125.00	N/A
Ice Shield	\$28,375.00	\$28,375.00	See attached Jay Burch Construction, Inc. estimate #314.	N/A	N/A

RF Consulting Engineer	\$5,260.00	\$5,412.50	State and local taxes	N/A	N//
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.	\$8,000.00	\$8,000.00	N/A	N/A	N//
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$367,733.00	Please see Estimated Cost Justification KBTX-150- New Auxiliary Transmitter V0	\$99,420.50	N//
Additional field engineering time, 10-30 days	\$63,100.00	\$64,950.00	Includes state and local tax	N/A	N/ <i>F</i>
Channel 14 Mask Filter	\$189,500.00	\$94,200.00	Please see R&S quote 118001.2 and KBTX- 150-Channel 14 mask filter Budget Increase Justification v0	\$23,550.00	N/A
	\$3,350,930.98				N/A

Total for all	\$5,485,981.80	\$3,988,913.28	N/A	\$1,645,554.63	N/A
systems					

#### Components

Actual Information Description	File Name	
Primary transmitter installation	Component Description: Amount:	Install, Commission and Proof 4 Cabinet Liquid Cooled Solid State Transmitter: \$74,127.29
Portable Transmitter Building	Component Description: Amount:	Classic Barn- \$8,356.39
Other HVAC Service Type: C Size:20 (Other)	Component Description: Amount:	Mitsubishi City Multi Mini Split System Install For New Transmitter \$75,775.00
Additional field engineering time, 10-30 days	Information not provided.	
Channel 14 Mask Filter	Component Description: Amount:	KBTX-110- Channel 14 mask filter \$32,156.25
RF Consulting Engineer	Information not provided.	
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Transformer 3 phase/480v - 500 KVA	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	Component Description: Amount:	R&S MAIN Transmitter FCC Repack \$18,142.00
	Component Description: Amount:	DP \$276,475.00
Auxiliary transmitter installation	Component Description: Amount:	KBTX-150-New Auxiliary Transmitter - Installation \$19,125.00
Ice Shield	Information not provided.	
RF Consulting Engineer	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 - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	Component Description: Amount:	KBTX-150-New Auxiliary Transmitter \$9,983.00
	Component Description: Amount:	KBTX-150-New Auxiliary Transmitter \$89,437.50
Additional field engineering time, 10-30 days	Information not provided.	

Channel 14 Mask Filter		
	<b>Component Description:</b>	KBTX-150-
		Channel 14 mask
		filter
	Amount:	\$23,550.00

#### Antennas

#### Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna ALP24M4- HSOC-16	\$196,230.00	\$55,901.88		\$55,765.08	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$49,501.88	See DTVPros Quote JEHQ1545 Includes shipping costs	\$49,365.08	N/A
Primary Antenna TFU-19ETT /VP-R 6T140 (SP)	\$310,130.00	\$284,661.60		\$134,692.80	
Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	\$13,900.00	\$28,056.00	DTV Pros quote JEHQ1249- 04	\$8,395.20	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	DTVPros Quote JEHQ1249- 04	\$3,520.00	N/A

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$289,500.00	\$250,205.60	DTV pros quote JEHQ1249- 04 Includes shipping costs	\$122,777.60	N/A
Sub-total	\$506,360.00	\$340,563.48	N/A	\$190,457.88	N/A
Total for all systems	\$5,485,981.80	\$3,988,913.28	N/A	\$1,645,554.63	N/A

## Components

Actual Information Description	File Name	
Sweep test of existing antenna	Component Description: Amount:	KBTX-280- Sweep Test New Interim Antenna \$6,400.00
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	Component Description:	UHF-LOWER POWER SIDE MOUNT
	Amount:	\$23,250.94
	Component Description:	UHF-Lower Power Side Mount
	Amount:	\$26,114.14

Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)	Component Description:	KBTX-210-Elbow complex new primary antenna
	Amount:	\$4,579.20
	Component Description:	KBTX-210-Elbow complex new primary antenna
	Amount:	\$3,816.00
Sweep test of existing antenna		
antenna	Component Description:	KBTX-210-
		Sweep test new
	Amount:	primary antenna \$1,920.00
	Component Description:	KBTX-210-
		Sweep test new
		primary antenna
	Amount:	\$1,600.00
UHF - High Power Top Mount (200-1000 kW), One		
station antenna , elliptically	Component Description:	UHF-HIGH
or circularly polarized		POWER TOP
		MOUNT (200- 1000KW)
	Amount:	\$66,969.60
		,
	Component Description:	UHF- HIGH
		POWER TOP
	Amount:	\$55,808.00

#### **Transmission Line**

#### Cost Information

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	\$12,580.00	\$43,660.68		\$43,453.48	
Flexible Air Transmission Line - dielectric, 4"	\$12,580.00	\$43,660.68	see Estimated Cost Justification KBTX-380- Interim Transmission LIne v0	\$43,453.48	N/A
Primary Transmission Line	\$25,765.60	\$25,765.60		\$14,171.08	
Transmission Line Accessories	\$25,765.60	\$25,765.60	per DTVPros Quote JEHQ1249- 04 (lines 4-9)	\$14,171.08	N/A
Sub-total	\$38,345.60	\$69,426.28	N/A	\$57,624.56	N/A
Total for all systems	\$5,485,981.80	\$3,988,913.28	N/A	\$1,645,554.63	N/A

## Components

Actual Information		
Description	File Name	

Flexible Air Transmission Line - dielectric, 4"	Component Description:	FLEXIBLE
		TRANSMISSION
		LINE
	Amount:	\$20,330.34
	Component Description:	Flexible
		transmission line
	Amount:	\$23,123.14
Transmission Line		
Accessories	<b>Component Description:</b>	KBTX-310-Primar
		Transmission Line
		Accessories
	Amount:	\$7,729.68
	Component Description:	KBTX-310-Primar
		Transmission Line
		Accessories
	Amount:	\$6,441.40

# **Tower Equipment and Rigging Costs**

### Cost Information

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	\$1,291,337.50	\$1,056,051.95		\$655,765.00	
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,990.00	Includes state and local taxes	\$10,180.00	N/A
Tower Analysis and Mapping	\$16,237.50	\$16,237.50	TCI-16-176	\$0.00	N/A
Serious tower reinforcement /modifications	\$1,052,000.00	\$476,200.00	TCI-17-136	\$302,084.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$550,624.45	See attached TCI proposal TCI-17- 136, this proposal address the installation of both the main antenna and the interim antenna.	\$343,501.00	N/A
Sub-total	\$1,291,337.50	\$1,056,051.95	N/A	\$655,765.00	N/A
Total for all systems	\$5,485,981.80	\$3,988,913.28	N/A	\$1,645,554.63	N/A

# Components

Actual Information Description	File Name	
Structural engineering tower load study for well documented tower	Component Description: Amount:	Services rendered by Tower Consultants, Inc. in connection with analysis prepared for listed project \$5,260.00
	Component Description: Amount:	Services rendered by Tower Consultants, Inc. in connection with analysis prepared for one (1) load case \$4,920.00
Tower Analysis and Mapping	Information not provided.	
Serious tower reinforcement /modifications	Component Description: Amount:	Tower Modifications and Auxilliary Antenna Installation Services \$302,084.00

Tall Tower (greater than 500')	Component Description:	Guy Wire Replacement
	Amount:	\$98,310.00
	Component Description:	Engineering,
		materials, labor
		services, project
		management
	Amount:	\$65,555.00
	Component Description:	KBTX-410-Tall
		Tower Rigging
		Existing Tower
	Amount:	\$156,981.00
	Component Description:	Phase 1 - 4" Flex
		Line Replacement
	Amount:	\$22,655.00

### **Outside Professional Services**

### Cost Information

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

Description Outside	Predetermined Cost Estimate \$261,690.00	Estimated Cost \$277,555.63	Estimated Cost Justification	Actual Cost \$109,592.05	Actual Cost Justificatio
Professional Services	φ201,030.00	Ψ211,335.05		φ103,332.03	
Attorney Fees - Other Matters	\$370.00	\$370.00	see Estimated Cost Justification KBTX-550- Attorney Fees - Other Matters v0	\$370.00	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$86,600.00	Includes state and local taxes.	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	\$2,165.00	Includes state and local taxes.	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,165.00	Includes state and local taxes.	N/A	N/A

Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,797.50	Includes state and local taxes.	N/A	N/
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,435.63	Includes state and local taxes.	N/A	N/
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,412.50	Includes state and local taxes.	\$196.50	N/
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,623.75	Includes state and local taxes.	N/A	N/.
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,623.75	Includes state and local taxes.	\$0.00	N/
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,247.50	Includes state and local taxes.	\$925.00	N/

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$16,565.00	Increased cost for channel 16 Chesapeake RF Consultants invoice #4785	\$14,265.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,706.25	Includes state and local taxes.	\$148.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,706.25	Includes state and local taxes.	N/A	N/A
Project management of the transition	\$142,200.00	\$146,137.50	Includes state and local taxes.	\$93,687.55	N/A
Sub-total	\$261,690.00	\$277,555.63	N/A	\$109,592.05	N/A
Total for all systems	\$5,485,981.80	\$3,988,913.28	N/A	\$1,645,554.63	N/A

# Components

Actual Information Description	File Name	
Attorney Fees - Other Matters	Component Description: Amount: Component Description: Amount:	Total Professional Services \$222.00 Legal Services \$148.00
Comprehensive coverage verification via field study, if needed	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.	
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	Component Description: Amount:	Complete legal section and file initial repack CP application \$196.50
Prepare request for Special Temporary Authorization	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description:	Prepare engineering section of FCC Form 2100, Construction Permit Applicatior

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Consulting Engineer \$800.00
	Component Description:	Engineering Consulting
	Amount:	\$125.00
	Component Description:	Prepare engineering section of FCC Form 2100, Construction Permit Application
	Amount:	\$1,650.00
Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	Consulting Engineer - J. Davis - Hourly (@\$250/hr) \$587.50
	Component Description:	Provide coverage contour map and associated population counts regarding side mount interim antenna at 2 transmitter power levels, & compare
	Amount:	'90 day' Ch 14 CP \$250.00
	Component Description:	Perform engineering study for new channel assignment
	Amount:	\$650.00

	Component Description: Amount:	Perform engineering study for new channel assignment \$2,550.00
	Component Description: Amount:	Channel study \$550.00
	Component Description:	Revisit prior channel study to identify alternate channels in lieu of repack Ch-14. Provide summary regarding use of Ch-16. Develop final ERP for sub, prep of engineering portion of FCC app. \$3,287.50
	Component Description:	Regarding app for channel change of TV repack facility, discussion with FCC staff concerning protection of land- mobile operations on adjacent spectrum. \$7,040.00
Address transition timing and coordination issues w/ other stations and wireless	Component Description:	KBTX-510- Transition Timing and Coordination
	Amount:	\$148.00

Prepare and or review reimbursement form	Information not provided.	
Project management of the		
transition	Component Description:	Project
		Management
	Amount:	\$2,314.90
	Component Description:	Project
		, Management
	Amount:	\$2,086.25
	Component Description:	Project
		Management
	Amount:	\$3,231.70
	O	Designed
	Component Description:	Project
	Amount:	Management \$2,793.20
	Component Description:	Project
	Component Description.	Management
	Amount:	\$4,484.50
	Component Description:	Project
	Amount:	Management \$2,358.45
	Amount.	φ2,336.43
	Component Description:	Project
		Management
	Amount:	\$2,438.15
	Component Description:	Project
		Management
	Amount:	\$5,630.90
		<i>40,000</i>

Component Description: Amount:	Project Management \$3,401.00
Component Description: Amount:	Project Mgt, Budget Review, Cost Reconciliation \$1,026.45
Component Description: Amount:	Project Management \$2,217.75
Component Description: Amount:	Project Management \$3,275.15
Component Description: Amount:	Project Management \$1,833.10
Component Description: Amount:	Project Management \$2,430.85
Component Description: Amount:	Project Mgt /Budget Mgt \$839.75
Component Description: Amount:	Project Management \$2,532.30
Component Description: Amount:	Project Management \$2,829.40

Component Description: Amount:	Project Management \$1,978.55
Component Description: Amount:	Project Management \$28.20
Component Description: Amount:	Project Management \$3,318.40
Component Description: Amount:	Project Management \$1,689.15
Component Description: Amount:	Project Management \$3,189.40
Component Description: Amount:	Project Management \$3,087.55
Component Description: Amount:	Project Mgt, Budget Review, Cost Reconciliation \$3,624.80
Component Description: Amount:	Project Mgt, Budget Review, Cost Reconciliation \$2,868.80
Component Description: Amount:	Project management \$3,319.40

Component Description: Amount:	Project Mgt, Budget Review, Cost Reconciliation \$830.80
Component Description: Amount:	Project Management \$2,203.10
Component Description: Amount:	Project Management \$1,328.55
Component Description: Amount:	Project management of the transition \$3,300.00
Component Description: Amount:	Project Management \$2,131.20
Component Description: Amount:	Project Management \$2,165.40
Component Description: Amount:	Project Management \$5,707.00
Component Description: Amount:	Project Management \$1,938.10
Component Description: Amount:	Project Management \$1,541.50

Component Description: Amount:	Project Management \$1,706.25
Component Description: Amount:	Project Management \$2,007.60

### **Other Expenses**

### Cost Information

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$37,317.72	\$29,629.96		\$4,987.71	
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	see Estimated Cost Justification KBTX-610- MVPD Notifications v0	\$2,000.00	N/A
Develop and air announcement of upcoming channel change	\$3,450.00	\$3,450.00	See attached KBTX Channel Change PSA Campaign estimate.	N/A	N/A
Equipment Storage	\$2,987.72	\$2,987.72	see Estimated Cost Justification KBTX-610- Equipment Storage v0	\$2,987.71	N/A
Equipment Delivery and Handling Charges	\$16,800.00	\$16,800.00	TCI Proposal TCI-17-183	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$205.68	Includes state and local taxes.	N/A	N/A

DTV Medical Facility Notification	\$11,550.00	\$3,834.75	Includes state and local taxes.	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$351.81	Includes state and local taxes.	N/A	N/A
Sub-total	\$37,317.72	\$29,629.96	N/A	\$4,987.71	N/A
Total for all systems	\$5,485,981.80	\$3,988,913.28	N/A	\$1,645,554.63	N/A

# Components

Actual Information Description	File Name	
MVPD Notification of Channel Change	Component Description: Amount:	Total Professional Services \$2,000.00
Develop and air announcement of upcoming channel change	Information not provided.	

Equipment Storage		
	<b>Component Description:</b>	40' HC N
		Container-month
	A	rental
	Amount:	\$357.23
	Component Description:	40' HC N
	Amount:	\$1,916.02
	Component Description:	40' HC N
		Container
	Amount:	\$357.23
	Component Description:	40' HC N
	· · ·	Container
	Amount:	\$357.23
Equipment Delivery and Handling Charges	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
DTV Medical Facility Notification	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$5,485,981.80	\$3,988,913.28	\$1,645,554.63

Reimbursem	entestiatus	Response
	The facility has ceased operating on its pre- auction channel.	No
	Construction of final facilities or all necessary modifications are complete.	No
	All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	No

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
		<ol> <li>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> </ol>	
		2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	
		<b>3.</b> The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

- 4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 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.	
	an aut namec	are, under penalty of perjury, that I am horized representative of the above- d applicant for the Authorization(s) ed above.	Robert Folliard , III Assistant Secretary 04/21/2020

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		<ol> <li>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> </ol>	
		2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.	
		3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

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

8.	The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.	
9.	The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s) specified above.		Robert Folliard , III Assistant Secretary 04/21/2020

#### Attachments

.....