Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: **6669** | Service: **DTV** | Call Sign: **KBTX-TV** | Channel: **16 (UHF)**

File Number: **0000028641**

FRN: **0018223693** | Date Submitted: **04/06/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC Doing Business As: GRAY TELEVISION LICENSEE, LLC	KBTX-TV 6700 AMERICAN PLAZA WACO, TX 76712 United States	+1 (254) 776-1330	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
Samuel Hariton *Widelity*	Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widelity.com

Broadcaster Information and Transition Plan

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	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

Auxiliary Transmitter

Add Transmitter Information

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 and Type	Manufacturer	
	Model	Diamond CD
	Year	2004
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	5 kW

Auxiliary Transmitter

New Transmitter Costs

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 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
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	15

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Auxiliary transmitter installation	Installation of auxiliary transmitter
Ice Shield	Ice Shield and Concrete Pads for Aux Transmitter heat exchanger

Primary Transmitter

Existing Transmitter Information

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

Primary Transmitter

Other Transmitter Costs

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
	Type	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

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Primary transmitter installation	Installation of primary transmitter
Portable Transmitter Building	Repack equipment requirements require more space allowed by current transmitter building. Portable bldg will house additional required equipment.

Antennas

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

Primary Antenna

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	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)	1000.0 kW

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

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

	Model	TFU-19ETT /VP-R 6T140 (SP)
	Year	2018
	Justification for New Antenna	Existing antenna used for CH50 is not broadband and cannot be retuned for the assigned CH16 frequency

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	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
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 Antenna

Other Antenna Cost Not Listed

Information not provided.

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	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)	280.0 kW
	Manufacturer	
	Model	ALP24M4-HSOC-16
	Year	2018

	Justification for New Antenna	Existing antenna used for channel 50 is not broadband and cannot be returned to the channel 16 frequency.

Interim Antenna

Other Antenna Costs

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

Interim Antenna

Other Antenna Cost Not Listed

Information not provided.

Transmission 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
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
	Type	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

Primary Transmission Line

Other Transmission Line Expenses Not Listed

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

Interim Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	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	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 Transmission Line

Other Transmission Line Expenses Not Listed

No 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?	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

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:	Serious Reinforcements needed

Primary Tower

Tower Rigging Costs

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

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Tower Analysis and Mapping	Tower Analysis and Mapping performed by TCI in 2016

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	900
	Explanation	Strategic Planning
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes

	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	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 Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Attorney Fees - Other Matters	Legal Services

Other Expenses

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

Other Expenses Not Listed

Information not provided.

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 Justificatior
Primary Transmitter THU9EVO-40	**$2,334,445.98**	**$1,608,765.48**		**$485,031.93**	
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**	
Ice Shield	***$28,375.00***	$28,375.00	See attached Jay Burch Construction, Inc. estimate #314.	N/A	N/A
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

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	$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
RF Consulting Engineer	$5,260.00	$5,412.50	State and local taxes	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.	***$8,000.00***	$8,000.00	N/A	N/A	N/A
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/A
Sub-total	$3,350,930.98	$2,215,685.98	N/A	$627,127.43	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	
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:** **Component Description:** **Amount:**	DP $276,475.00 R&S MAIN Transmitter FCC Repack $18,142.00
Ice Shield	Information not provided.	
Auxiliary transmitter installation	**Component Description:** **Amount:**	KBTX-150-New Auxiliary Transmitter - Installation $19,125.00
Additional field engineering time, 10-30 days	Information not provided.	
Channel 14 Mask Filter	**Component Description:** **Amount:**	KBTX-150-Channel 14 mask filter $23,550.00
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:**	KBTX-150-New Auxiliary Transmitter
	Amount:	$9,983.00
	Component Description:	KBTX-150-New Auxiliary Transmitter
	Amount:	$89,437.50

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna 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

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
Sweep test of existing antenna	$6,730.00	$6,400.00	DTVPros Quote JEHQ1249-04	$3,520.00	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:** **Amount:** **Component Description:** **Amount:**	UHF-LOWER POWER SIDE MOUNT $23,250.94 UHF-Lower Power Side Mount $26,114.14

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

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	**$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	**Component Description:**	KBTX-310-Primary Transmission Line - Accessories
	Amount:	$7,729.68
	Component Description:	KBTX-310-Primary Transmission Line - Accessories
	Amount:	$6,441.40

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	**$1,291,337.50**	**$1,056,051.95**		**$655,765.00**	
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
Serious tower reinforcement /modifications	$1,052,000.00	$476,200.00	TCI-17-136	$302,084.00	N/A
Tower Analysis and Mapping	***$16,237.50***	$16,237.50	TCI-16-176	$0.00	N/A
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
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
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:** Phase 1 - 4" Flex Line Replacement **Amount:** $22,655.00 **Component Description:** KBTX-410-Tall Tower Rigging Existing Tower **Amount:** $156,981.00
Serious tower reinforcement /modifications	**Component Description:** Tower Modifications and Auxilliary Antenna Installation Services **Amount:** $302,084.00
Tower Analysis and Mapping	Information not provided.

Structural engineering tower load study for well documented tower	**Component Description:**	Services rendered by Tower Consultants, Inc. in connection with analysis prepared for one (1) load case
	Amount:	$4,920.00
	Component Description:	Services rendered by Tower Consultants, Inc. in connection with analysis prepared for listed project
	Amount:	$5,260.00

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justificatio
Outside Professional Services	**$261,690.00**	**$277,555.63**		**$109,592.05**	
Project management of the transition	$142,200.00	$146,137.50	Includes state and local taxes.	$93,687.55	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/A
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/A

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/A
Prepare request for Special Temporary Authorization	$2,050.00	$1,623.75	Includes state and local taxes.	N/A	N/A
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/A
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/A
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
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
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
Project management of the transition	**Component Description:** Project Mgt /Budget Mgt **Amount:** $839.75 **Component Description:** Project Management **Amount:** $2,203.10 **Component Description:** Project Management **Amount:** $2,314.90

Component Description: Project Management
Amount: $2,086.25

Component Description: Project Management
Amount: $2,438.15

Component Description: Project Management
Amount: $3,231.70

Component Description: Project Management
Amount: $2,793.20

Component Description: Project Management
Amount: $5,707.00

Component Description: Project Management
Amount: $4,484.50

Component Description: Project Management
Amount: $2,358.45

Component Description: Project Management
Amount: $3,401.00

Component Description: Project Management
Amount: $3,318.40

Component Description: Project Management
Amount: $5,630.90

Component Description: Project Management
Amount: $2,430.85

Component Description: Project Mgt, Budget Review, Cost Reconciliation
Amount: $830.80

Component Description: Project Management
Amount: $2,007.60

Component Description: Project Management
Amount: $2,829.40

Component Description: Project Management
Amount: $28.20

Component Description: Project Management
Amount: $2,165.40

Component Description: Project Mgt, Budget Review, Cost Reconciliation
Amount: $1,026.45

Component Description: Project Management
Amount: $1,938.10

Component Description: Project Management
Amount: $2,217.75

Component Description: Project Management
Amount: $1,706.25

Component Description: Project Management
Amount: $2,532.30

Component Description: Project Mgt, Budget Review, Cost Reconciliation
Amount: $3,624.80

Component Description: Project Management
Amount: $3,087.55

Component Description: Project Management
Amount: $1,328.55

Component Description: Project Management
Amount: $2,131.20

Component Description: Project Management
Amount: $1,833.10

Component Description: Project Mgt, Budget Review, Cost Reconciliation
Amount: $2,868.80

	Component Description: Project Management **Amount:** $1,978.55 **Component Description:** Project management **Amount:** $3,319.40 **Component Description:** Project management of the transition **Amount:** $3,300.00 **Component Description:** Project Management **Amount:** $3,275.15 **Component Description:** Project Management **Amount:** $1,541.50 **Component Description:** Project Management **Amount:** $1,689.15 **Component Description:** Project Management **Amount:** $3,189.40
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:** **Amount:**	Prepare engineering section of FCC Form 2100, Construction Permit Application $1,650.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	**Component Description:** **Amount:**	Consulting Engineer $800.00
	Component Description: **Amount:**	Engineering Consulting $125.00
	Component Description: **Amount:**	Prepare engineering section of FCC Form 2100, Construction Permit Application $1,650.00

Perform engineering study for new channel assignment and antenna development	**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.
	Amount:	$3,287.50
	Component Description:	Channel study
	Amount:	$550.00
	Component Description:	Provide coverage contour map and associated population counts regarding side mount interim antenna at 2 transmitter power levels, & compare '90 day' Ch 14 CP
	Amount:	$250.00
	Component Description:	Perform engineering study for new channel assignment
	Amount:	$650.00
	Component Description:	Perform engineering study for new channel assignment
	Amount:	$2,550.00

	Component Description:	Regarding app for channel change of TV repack facility, discussion with FCC staff concerning protection of land-mobile operations on adjacent spectrum.
	Amount:	$7,040.00
	Component Description:	Consulting Engineer - J. Davis - Hourly (@$250/hr)
	Amount:	$587.50
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.	
Attorney Fees - Other Matters	**Component Description:**	Legal Services
	Amount:	$148.00
	Component Description:	Total Professional Services
	Amount:	$222.00
Comprehensive coverage verification via field study, if needed	Information not provided.	

Cost Information

Other Expenses

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	**$37,317.72**	**$29,629.96**		**$4,987.71**	
Equipment Storage	***$2,987.72***	$2,987.72	see Estimated Cost Justification KBTX-610-Equipment Storage v0	$2,987.71	N/A
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 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	
Equipment Storage	**Component Description:** **Amount:**	40' HC N Container-monthly rental $357.23
	Component Description: **Amount:**	40' HC N $1,916.02
	Component Description: **Amount:**	40' HC N Container $357.23
	Component Description: **Amount:**	40' HC N Container $357.23
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 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

Reimbursement Status

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

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

	8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	**Robert Folliard , III .** *Assistant Secretary* 04/06/2020

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).	
	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. 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* 04/06/2020

Attachments