



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **24914** | Service: **DTV** | Call **WKYT-TV** | Channel: **21 (UHF)** |
ID: | Sign:
File **0000028731**
Number:
FRN: **0018223693** | Date **10/23**
Submitted: **/2018**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC	Robert Folliard 4370 Peachtree Road Atlanta, GA 30319 United States	+1 (202) 750-1585	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 <i>Widely</i>	Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widely.com

**Broadcaster
Information
and
Transition
Plan**

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	WKYT is replacing the transmitter, antenna, and transmission line as well as installing an interim transmitter, antenna, and transmission line.

Transmitters

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

**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	Sigma Diamond Drive
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	45.6 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	ULXTE72
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	39 kW
	Justification for New Transmitter	Cost of replacement IOT exceeds the cost of the Solid State transmitter. We are choosing the less expensive Solid State

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No

	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	The new 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 leasehold 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	N/A

Primary Transmitter **Other Transmitter Cost Not Listed**

Name	Description
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Security System	Sonitrol 16167-1-0
Building Upgrades	Roof and ice protection

**Interim
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	ULXTE-30
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	19.2 kW
	Justification for New Transmitter	Interim transmitter needed to continue broadcasting during the transition period.

**Interim
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	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?	Yes
	Type	Heating and Cooling
	Size	5 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold 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	N/A
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	No

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

Antennas

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

**Primary
Antenna**

Existing Antenna Information

Section	Question	Response
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	ATW26H3- ESCX-36S
Year	2010

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	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	800.0 kW
	Manufacturer	

Model	TFU-25JSC /VP-R C150
Year	2017
Justification for New Antenna	The current ERI antenna on Ch 36 will not work on Ch21 and can not be retuned therefore will need to be replaced for new antenna on Ch21.

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes

Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary
Antenna**

Other Antenna Cost Not Listed

Name	Description
Site Survey to Layout Dielectric Side Mount Antenna	Site Survey to layout Dielectric Side Mount primary antenna
Red FAA L-864 LED Obstruction Light	Flash FTS 370R LED Beacon Kit, LED obstruction light

**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	Broadband Slot
	Number of Stations Supported	1
	Number of Panels/Bays	1
	Lower Limit	512.00 MHz
	Upper Limit	608.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	312.0 kW
	Manufacturer	
	Model	TFU-24WB- C160-H
	Year	2018

	Justification for New Antenna	Interim antenna needed to continue broadcasting during the transition period
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Interim Antenna

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	3 1/8 inches
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	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
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	975 feet per run

Primary **New Transmission Line**
Transmission Line

Section	Question	Response
New Transmission Line Costs	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	1050 feet per run
	Justification for New Transmission Line	The current Ch 36 transmission line section length will not work for Ch21 therefore the transmission line will need to be replaced.

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

Information not provided.

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	Rigid
	Diameter	3 1/8 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	900 feet per run
	Justification for New Transmission Line	Interim transmission line needed to continue broadcasting during the transition period

Interim
Transmission Line

Other Transmission Line Expenses Not Listed

Information not provided.

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1030383
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	38° 02' 23.0" N-
	Longitude (NAD83)	084° 24' 10.0" W-
	Overall Structure Height	999.99 feet
	Support Structure Height	979.97 feet
	Ground Elevation Above Mean Sea Level (AMSL)	988.83 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	Gray Television Group, Inc.
	Date Constructed	01/01/1989

**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
27417	WLXX	FM

Other Types of Users

Users
Sprint

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A

Helicopter Services Required	Are helicopter services required?	No
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**Primary
Tower**

Other Tower Expenses Not Listed

Name	Description
Moving Equipment	Removing existing antenna and installing new antennas

**Outside
Professional**

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	900
	Explanation	Strategic Support
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	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs **Other Professional Services Expenses Not Listed**

If wireless is not provided.

Other Expenses

Section	Question	Response
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	Yes
	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)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	No
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other
Expenses**

Other Expenses Not Listed

Name	Description
Security	Site Security during equipment storage

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmitter ULXTE-30	\$703,850.00	\$616,230.94		\$372,859.59	
Other -- HVAC Service Type: H Size:5 (Other)	<i>\$17,850.00</i>	\$17,850.00	See attached WKYT 5 Ton HVAC quote.	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.	<i>\$2,000.00</i>	\$2,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$596,380.94	N/A	\$372,859.59	N/A
Primary Transmitter ULXTE72	\$1,782,728.47	\$1,601,187.73		\$1,013,601.76	

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.	\$138,000.00	\$138,000.00	See attached revised Parsons Electrical Contractors quote.	\$46,000.00	N/A
Building Upgrades	\$166,938.55	\$166,938.55	See attached WKYT Kalkreuth Roof quote dated 4/26/18, cost \$165,658.00. See attached Graybar lighting quote, cost \$1,280.55.	\$120,658.00	N/A
Security System	\$4,789.92	\$4,789.92	See attached Anixter quote Q0001QLG, Sonitrol Security quote #16167-1-0, Wireless Temp Sensor quote, and B&H quote.	N/A	N/A

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,291,459.26	N/A	\$846,943.76	N/A
Sub-total	\$2,486,578.47	\$2,217,418.67	N/A	\$1,386,461.35	N/A
Total for all systems	\$4,372,970.57	\$3,932,935.42	N/A	\$1,790,150.87	N/A

Components

Actual Information	
Description	File Name
Other -- HVAC Service Type: H Size:5 (Other)	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	<div> Component Description: Transmitter, Mask Filter System, RF Accessories, Electrical, Installation & Proof </div> <div> Amount: \$372,859.59 </div>
Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	<div> Component Description: WKYT Transmitter Power </div> <div> Amount: \$46,000.00 </div>

Building Upgrades	Component Description:		Roofing Work Completed
	Amount:		\$80,658.00
	Component Description:		First Draw on New Transmitter
	Amount:		Building HVAC \$20,000.00
	Component Description:		New transmitter building HVAC
	Amount:		\$20,000.00
Security System	Information not provided.		
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description:		Transmitter, Mask Filter System, RF Accessories, Electrical, Installation & Proof
	Amount:		\$846,943.76

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 TFU-24WB-C160-H	\$205,570.00	\$173,788.00		\$95,583.40	
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$158,764.00	DTVPros Quote JEHQ1282-05	\$87,320.20	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	DTVPros Quote JEHQ1282-05	\$3,520.00	N/A
Elbow complex, broadband, at antenna input, per 3 1/8. feedline (if needed)	\$9,340.00	\$8,624.00	DTVPros Quote JEHQ1282-05.	\$4,743.20	N/A
Primary Antenna TFU-25JSC /VP-R C150	\$246,560.10	\$239,940.10		\$131,967.06	

Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$19,552.00	DTVPros Quote JEHQ1260-05	\$10,753.60	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$12,768.00	DTVPros Quote JEHQ1260-05	\$7,022.40	N/A
Site Survey to Layout Dielectric Side Mount Antenna	\$6,700.00	\$6,700.00	DTVPros Quote JEHQ1260-05	\$3,685.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	DTVPros Quote JEHQ1260-05	\$3,520.00	N/A
Red FAA L-864 LED Obstruction Light	\$6,860.00	\$6,860.00	DTVPros Quote JEHQ1260-05	\$3,773.00	N/A
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$3,500.00	DTVPros Quote JEHQ1260-05	\$1,925.00	N/A

UHF - High Power, Side Mount, basic slot antenna, 800 kW input, directional,, elliptically or circularly polarized	\$184,160.10	\$184,160.10	DTVPros Quote JEHQ1260-05	\$101,288.06	N/A
Sub-total	\$452,130.10	\$413,728.10	N/A	\$227,550.46	N/A
Total for all systems	\$4,372,970.57	\$3,932,935.42	N/A	\$1,790,150.87	N/A

Components

Actual Information	
Description	File Name
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	Component Description:
	UHF Broadband Slot, Side Mount AUX/ Interim
	Amount:
	\$39,691.00
	Component Description:
	UHF Broadband Slot, Side Mount AUX/Interim
	Amount:
	\$47,629.20
Sweep test of existing antenna	Component Description:
	Sweep Test New Interim Antenna
	Amount:
	\$1,600.00
	Component Description:
	Sweep Test New Interim Antenna
	Amount:
	\$1,920.00

Elbow complex, broadband, at antenna input, per 3 1/8. feedline (if needed)	<div> Component Description: New Interim Antenna Elbow Complex </div> <div> Amount: \$2,156.00 </div>
<div> Component Description: New Interim Antenna Elbow Complex </div> <div> Amount: \$2,587.20 </div>	
Side mount brackets for high power antennas (if not included in antenna base cost)	<div> Component Description: New Primary Side Mount </div> <div> Amount: \$4,888.00 </div>
<div> Component Description: New Primary Side Mount </div> <div> Amount: \$5,865.60 </div>	
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	<div> Component Description: New Primary Antenna Elbow Complex </div> <div> Amount: \$3,192.00 </div>
<div> Component Description: New Primary Antenna Elbow Complex </div> <div> Amount: \$3,830.40 </div>	

Site Survey to Layout Dielectric Side Mount Antenna	Component Description:	Site Survey to Layout Side Mount
	Amount:	\$1,675.00
	Component Description:	Site Survey to Layout Side Mount
	Amount:	\$2,010.00
Sweep test of existing antenna	Component Description:	Sweep Test New Interim Antenna
	Amount:	\$1,600.00
	Component Description:	Sweep Test New Primary Antenna
	Amount:	\$1,920.00
Red FAA L-864 LED Obstruction Light	Component Description:	Beacon Kit
	Amount:	\$1,715.00
	Component Description:	Beacon Kit
	Amount:	\$2,058.00
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Component Description:	Pattern Scatter Analysis
	Amount:	\$875.00
	Component Description:	Pattern Scatter Analysis
	Amount:	\$1,050.00

UHF - High Power, Side Mount, basic slot antenna, 800 kW input, directional,, elliptically or circularly polarized		
	Component Description:	UHF High Power Side Mount
	Amount:	\$46,040.03
	Component Description:	UHF High Power Side Mount
	Amount:	\$55,248.03

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	\$108,000.00	\$81,664.65		\$44,915.58	
Rigid Transmission Line - copper, 3 1/8" broadband	\$108,000.00	\$81,664.65	DTVPros Quote JEHQ1282-05	\$44,915.58	N/A
Primary Transmission Line	\$212,100.00	\$162,304.50		\$89,267.48	
Rigid Transmission Line - copper, 6 1/8"	\$212,100.00	\$162,304.50	DTVPros Quote JEHQ1260-05	\$89,267.48	N/A
Sub-total	\$320,100.00	\$243,969.15	N/A	\$134,183.06	N/A
Total for all systems	\$4,372,970.57	\$3,932,935.42	N/A	\$1,790,150.87	N/A

Components

Actual Information		
Description	File Name	
Rigid Transmission Line - copper, 3 1/8" broadband	Component Description:	New Interim Transmission Line
	Amount:	\$20,416.18
	Component Description:	New Interim Transmission Line
	Amount:	\$24,499.40

Rigid Transmission Line - copper, 6 1/8"	Component Description:	New Primary
		Transmission Line
	Amount:	\$40,576.13
	Component Description:	New Primary
		Transmission Line
	Amount:	\$48,691.35

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	\$844,100.00	\$805,500.00		\$2,000.00	
Structural engineering tower load study for well documented tower	\$12,600.00	\$5,500.00	See attached SSC Structural Analysis Quote	\$2,000.00	N/A
Moving Equipment	<i>\$200,000.00</i>	\$200,000.00	N/A	N/A	N/A
Tall Tower (greater than 500')	\$210,500.00	\$200,000.00	N/A	N/A	N/A
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	N/A	N/A
Sub-total	\$844,100.00	\$805,500.00	N/A	\$2,000.00	N/A
Total for all systems	\$4,372,970.57	\$3,932,935.42	N/A	\$1,790,150.87	N/A

Components

Actual Information	
Description	File Name
Structural engineering tower load study for well documented tower	<div>Component Description: WKYT CH 21 Structural Analysis</div> <div>Amount: \$2,000.00</div>
Moving Equipment	Information not provided.

Tall Tower (greater than 500')	Information not provided.
Major tower reinforcement /modifications	Information not provided.

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$177,120.00	\$167,750.00		\$39,415.50	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$196.50	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,450.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$2,537.50	N/A
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$35,231.50	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A

Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
Sub-total	\$177,120.00	\$167,750.00	N/A	\$39,415.50	N/A
Total for all systems	\$4,372,970.57	\$3,932,935.42	N/A	\$1,790,150.87	N/A

Components

Actual Information	
Description	File Name
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.
Attorney Fees -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	<p>Component Description: Complete and file initial construction permit application.</p> <p>Amount: \$196.50</p>
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	Component Description: Amount:	Develop final ERP and parameters for initial CP application. \$1,450.00
Perform engineering study for new channel assignment and antenna development	Component Description: Amount: Component Description: Amount: Component Description: Amount: Component Description: Amount: Component Description: Amount:	Review technical specs and length of antenna for use as interim \$312.50 Respond to query re: repack Ch-21 non-maximized ERP, directional antenna pattern. \$137.50 Engineering Study for New Channel Assignment \$275.00 RF Engineering Consulting \$625.00 Perform engineering study for new channel assignment \$1,187.50
Project management of the transition	Component Description: Amount:	Project management \$1,816.05

Component Description:	Project Management
Amount:	\$1,869.15

Component Description:	Project management
Amount:	\$2,711.90

Component Description:	Project Management
Amount:	\$2,399.45

Component Description:	Project Management
Amount:	\$1,579.00

Component Description:	Project Management
Amount:	\$1,979.35

Component Description:	Project Management
Amount:	\$2,599.90

Component Description:	Project Management
Amount:	\$1,690.60

Component Description:	Project Management
Amount:	\$28.20

Component Description:	Project Management
Amount:	\$802.25

Component Description:	Project Management
Amount:	\$755.80

Component Description:	Transition Related Project Management Costs
Amount:	\$2,850.00

Component Description:	Project Management
Amount:	\$1,962.60

Component Description:	Project Management
Amount:	\$2,264.80

Component Description:	Project management
Amount:	\$2,405.15

Component Description:	Project Management
Amount:	\$801.45

Component Description:	Project Management
Amount:	\$2,456.30

Component Description:	Project Management
Amount:	\$1,856.25

Component Description:	Project Management
Amount:	\$2,403.30

Prepare and or review reimbursement form	Information not provided.
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.
Prepare request for Special Temporary Authorization	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	\$92,942.00	\$84,569.50		\$540.50	
Equipment Delivery and Handling Charges	<i>\$7,000.00</i>	\$7,000.00	N/A	\$540.50	N/A
Security	<i>\$12,000.00</i>	\$12,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<i>\$1,200.00</i>	\$1,200.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$10,000.00</i>	\$10,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$38,662.00</i>	\$38,662.00	See attached Degrees of Comfort Transmitter Disposal quote.	N/A	N/A
Non-zoning permits	<i>\$12,000.00</i>	\$12,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A

FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$3,192.50	N/A	N/A	N/A
Sub-total	\$92,942.00	\$84,569.50	N/A	\$540.50	N/A
Total for all systems	\$4,372,970.57	\$3,932,935.42	N/A	\$1,790,150.87	N/A

Components

Actual Information	
Description	File Name
Equipment Delivery and Handling Charges	<div> Component Description: Equipment Delivery Amount: \$540.50 </div> <div> Component Description: Forklift WHSE 5000# GAS/LP Amount: N/A </div>
Security	Information not provided.
MVPD Notification of Channel Change	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Non-zoning permits	Information not provided.
FCC Filing Fees - Special Temporary Authorization request	Information not provided.

FCC Filing Fees - Form 2100 license to cover application	Information not provided.
DTV Medical Facility Notification	Information not provided.

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$4,372,970.57	\$3,932,935.42
			\$1,790,150.87

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	<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"> 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.

<p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Robert Folliard <i>Assistant Secretary</i></p> <p>10/23/2018</p>

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

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Robert Folliard <i>Assistant Secretary</i></p> <p>10/23/2018</p>

Attachments