

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility 31590 Service: DTV Call WCTV Channel: 20 (UHF)

ID:

Sign:

File **0000028726** 

Number:

FRN: **0018223693** Date **03/24** 

Submitted: /2020

# Applicant Information

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

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC	WCTV 1801 HALSTEAD BLVD. TALLAHASSEE, FL 32309 United States	+1 (850) 893-6666	robert. folliard@gray. tv	Limited Liability Company

# Reimbursement Contact Name and Information Reimbursement Contact 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	WCTV will be changing the antenna, line and transmitter on the main broadcast site. WCTV will utilize the existing auxiliary site on a different tower as an interim site.

#### **Transmitters**

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

# Primary Transmitter

## **Existing Transmitter Information**

Section	Question	Response
Existing Transmitter	Type of change	Purchase New
Description	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	Model	CDUK3100UPG3
	Year	2005
	Туре	Inductive Output Tube
	IOT Power Type	Three
	Power Capacity	90.0 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	ULXTE-72
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	47.2 kW
	Justification for New Transmitter	This is an old Harris IOT Transmitter that will not be able to be retuned. See GatesAir memo 1/1 /2017.

## 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	300 kVA
	Rigid Conduit and Wiring	No
	Size	N/A

	Length	N/A
	Other Electrical Service	Yes
	Description	The new main 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	N/A

## Primary Transmitter

#### **Other Transmitter Cost Not Listed**

Name	Description
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HVAC	Undetermined tonnage and duct work required for plumbing new transmitter installation.
Concrete Pads	Concrete pads required for new heat exchangers for the new transmitter.
Building Renovations	Interior renovations required for installation of new transmitter.

### Interim Transmitter

#### **New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	UAXTE 12R44
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	7.2 kW
	Justification for New Transmitter	Necessary to power interim facility while new main antenna is installed.

#### Interim Transmitter

#### **Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
	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 main 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	N/A
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	Yes

Interim Transmitter **Other Transmitter Cost Not Listed** 

**Transmitter** Information not provided.

#### **Antennas**

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

## **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?	No
	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	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	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	TFU- 30DSC- RO4
Year	2005

#### **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?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	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)	750.0 kW
	Manufacturer	

Model	TFU-30GTH /VP-R04
Year	2019
Justification for New Antenna	The old antenna is an Side Mount and cannot be retuned and used a s a top mount

#### **Other Antenna Costs**

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	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	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power 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
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#### **Other Antenna Cost Not Listed**

Name	Description	
Top Plate Adapter	Adapter for the top of the tower	

#### 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?	No
	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	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)	100.0 kW
	Manufacturer	
	Model	TLP24B CH20
	Year	2017

Justification for New Antenna	Needed so that WCTV
	can
	continue to
	operate
	while the
	new main
	antenna,
	line and
	transmitter
	are
	installed.

#### 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?	В
	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 <sup>Seffien</sup>	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

# Primary Transmission Line

## **Existing Transmission Line**

n 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	Manufacturer	
Line Manufacturer and Type	Туре	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1970 feet per run

#### **New Transmission Line**

Primary	
<b>Transmission</b>	

on 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?	Yes
	Туре	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	78 feet per run
	Justification for New Transmission Line	Moving from a side mount to a top mount antenna, using the existing transmission line and buying 78 additional feet of it.

Primary Other Transmission Line Expenses Not Listed

Transmission to inetion not provided.

#### Interim

#### **New Transmission Line**

Transmission	n Line Section	Question	Response
	New Transmission Line	Use	Interim
	Costs	Description of Use	N/A
		Change Type	Purchase New
		Туре	Flexible Air
		Diameter	3 inches
		Segment Length	N/A
		Other Segment Length	
		Number of parallel runs	1
		Length	870 feet per run
		Justification for New Transmission Line	Installing interim antenna

Other Transmission Line Expenses Not Listed

Interim
Transmission Line tion 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

## Auxiliary Tower

#### **Add Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	Backup Tower
	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	No
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1031203
Coordinates (NAD83 (	Latitude (NAD83)	30° 34' 28.0" N
North American Datum of 1983))	Longitude (NAD83)	084° 12' 09.0" W-
	Overall Structure Height	898.94 feet
	Support Structure Height	833.32 feet
	Ground Elevation Above Mean Sea Level (AMSL)	144.36 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	Gray Television Group, Inc.
Date Constructed	01/01/1973

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
3032	WVUP-CD	DTV

#### Auxiliary Tower

#### **Tower Modification Costs**

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

#### Auxiliary Tower

#### **Tower Rigging Costs**

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

## Auxiliary Tower

## Other Tower Expenses Not Listed

Name	Description
Structural Load Study	Structural engineering tower load study for poorly documented tower

## 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	No
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	No
Existing Tower Structure	Do you have a tower registration number?	Yes
Registration	ASR Number	1019981
Coordinates (NAD83 ( North American Datum of	Latitude (NAD83)	30° 40' 14.0" N-
1983))	Longitude (NAD83)	083° 56' 26.0" W-
	Overall Structure Height	1999.98 feet
	Support Structure Height	1925.83 feet
	Ground Elevation Above Mean Sea Level (AMSL)	221.78 feet
	Structure Type	TOWER - Free Standing or Guyed Structure

Tower Owner	Gray Television Group, Inc.
Date Constructed	01/01/1987

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
93356	WKVH	FM
21801	WFSU-TV	DTV

#### Primary Tower

#### **Tower Modification Costs**

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly 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

## Primary Tower

## Other Tower Expenses Not Listed

Name	Description
Structural Load Study	Structural engineering tower load study for poorly documented tower

## Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	595
	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	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	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	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes

	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	No
	Address transition timing and coordination issues w/ other stations and wireless providers	No
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

# Other Professional Services Expenses Not Listed

al	Services Costs	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)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

# Other Expenses

## Other Expenses Not Listed

Name	Description
Site Security	Security for site while equipment is being stored for sites.
Tree Removal	Removing trees for tag line for tower work

# **Cost Information**

#### **Transmitters**

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

	Doodstooming d	Fatimete d	Estimated		Andreal Const
Description	Predetermined Cost Estimate	Estimated Cost	Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmitter UAXTE 12R44	\$410,639.70	\$436,205.50		\$239,939.56	
UHF inside RF system including switching	\$147,500.00	\$150,500.00	State and local taxes	N/A	N/A
Other Electrical Service: The new main 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.	\$5,375.00	\$5,375.00	Electrical work required for installation of transmitter	\$5,125.00	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$36,965.80	per ASCO SPD Quote and Weston Trawick Quote	N/A	N/A
UHF - Air Cooled Solid State Transmitter 7.2 kW	\$243,364.70	\$243,364.70	Per Gates Air quote Q- 77431	\$234,814.56	N/A

Primary Transmitter ULXTE-72	\$3,178,415.65	\$2,912,093.50		\$1,369,456.51	
Other Electrical Service: The new main 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.	\$48,712.50	\$48,712.50	see Estimated Cost Justification WCTV-110- Electrical Service New 1st Primary Transmitter v1	\$29,638.12	N/A
Building Renovations	\$43,750.57	\$43,750.57	see Estimated Cost Justification WCTV-110- Building renovations New 1st Primary Transmitter v0	\$25,107.94	N/A
HVAC	\$76,502.60	\$76,502.60	see Estimated Cost Justification WCTV-110- HVAC New 1st Primary Transmitter v0	\$71,232.60	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,234,314.85	Per GatesAir Quote Q- 81345	(\$254,022.13)	N/A

Transformer 3 phase/480v - 300 KVA         \$36,800.00         \$9,163.00         GatesAir Quote Q-81345         N/A           Concrete Pads         \$2,150.00         \$2,150.00         N/A         N/A           UHF - Liquid Cooled Solid State         \$1,497,499.98         ***System Notice: Estimate adjusted and locked because line has been superseded. ****           KW         \$3,589,055.35         \$3,348,299.00         N/A         \$1,609,396.07           Total for all         \$5,641,387.99         \$5,362,156.10         N/A         \$2,085,918.72						
UHF - Liquid Cooled Solid State Transmitter 76 kW  Sub-total \$3,589,055.35 \$3,348,299.00 N/A \$1,609,396.07  Total for all \$5,641,387.99 \$5,362,156.10 N/A \$2,085,918.72	phase/480v -	\$36,800.00	\$9,163.00	Quote Q-	N/A	N/A
Cooled Solid State Transmitter 76 kW  Sub-total  \$3,589,055.35  \$3,348,299.00  Notice: Estimate adjusted and locked because line has been superseded. ****  Total for all  \$5,641,387.99  \$5,362,156.10  N/A  \$2,085,918.72	Concrete Pads	\$2,150.00	\$2,150.00	N/A	N/A	N/A
<b>Total for all</b> \$5,641,387.99 \$5,362,156.10 N/A \$2,085,918.72	Cooled Solid State Transmitter 76	\$1,497,499.98	\$1,497,499.98	Notice: Estimate adjusted and locked because line has been superseded.	\$1,497,499.98	N/A
	Sub-total	\$3,589,055.35	\$3,348,299.00	N/A	\$1,609,396.07	N/A
systems	Total for all systems	\$5,641,387.99	\$5,362,156.10	N/A	\$2,085,918.72	N/A

# Components

Actual Information Description	File Name
UHF inside RF system including switching	Information not provided.
Other Electrical Service: The new main 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.	Component Description:  Electrical Engineering Services Amount:  \$5,125.00
Service entrance 3 phase /800 amp/208 volt	Information not provided.

UHF - Air Cooled Solid State Transmitter 7.2 kW

**Component Description:** Transmitter, Mask

Filter System. Rf Accessories, Installation and

Proof

**Amount:** \$166,015.29

**Component Description:** A. Transmitter **Amount:** \$68,799.27

Other Electrical Service:
The new main 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.

Component Description: WCTV-110-

Electrical Service New 1st Primary Transmitter

**Amount:** \$23,313.12

Component Description: Electrical Engineer

**Amount:** \$6,325.00

**Building Renovations** 

Component Description: 2x4 120V LED

Troffer w/
Prismatic LE

**Amount:** \$295.02

Component Description: RADAR S0 EDGE

CELING

**Amount:** \$686.99

Component Description: Radar SO Edge

**Amount:** \$396.63

Component Description: Main Beam

**Amount:** \$35.11

Component Description: Contract Billing

**Amount:** \$23,313.13

**Component Description:** 9/16 x3-1/4 PFJ

WM713 Base

**Amount:** \$83.93

Component Description: 2'x4' #2310 Radar

Sq Edge Ceiling

64SF

**Amount:** \$297.13

HVAC		
	Component Description:	Contract Billing
	Amount:	\$16,977.00
	Component Description:	Mercalf Buildings
	<b>A</b>	Install
	Amount:	\$47,430.00
	Component Description:	Materials, Crew
		Hours Labor
	Amount:	\$6,825.60
UHF - Liquid Cooled Solid		
State Transmitter 35 - 50 kW	Component Description:	Credit Memo
	Amount:	(\$254,022.13)
Transformer 3 phase/480v - 300 KVA	Information not provided.	
Concrete Pads	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 76 kW		
State Hansmiller /O KW	Component Description:	Transmitter, Mask
		Filter System, RF
		Accessories,
		Install & Proof
	Amount:	\$1,497,499.98

#### **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
Interim Antenna TLP24B CH20	\$119,170.00	\$52,859.00		\$22,117.60	
UHF - Lower Power Side Mount, One Station antenna . medium power (50- 200 kW), elliptically or circularly polarized	\$103,100.00	\$37,835.00	per DTVPros quote JEHQ1672	\$18,917.60	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,200.00	N/A
Elbow complex, broadband, at antenna input, per 3 1/8. feedline (if needed)	\$9,340.00	\$8,624.00	Quote JEHQ1317	N/A	N/A
Primary Antenna TFU-30GTH /VP-R04	\$328,082.00	\$271,507.26		\$194,432.66	

Sweep test of existing antenna	\$6,730.00	\$9,868.26	see Estimated Cost Justification WCTV-210- Sweep test New Primary Antenna v0	\$8,538.26	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$14,944.00	JEHQ1267- 04	\$10,214.40	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or circularly polarized	\$289,500.00	\$227,143.00	JEHQ1267- 04	\$157,120.00	N/A
Top Plate Adapter	\$19,552.00	\$19,552.00	JEHQ1267- 04	\$18,560.00	N/A
Sub-total	\$447,252.00	\$324,366.26	N/A	\$216,550.26	N/A
Total for all systems	\$5,641,387.99	\$5,362,156.10	N/A	\$2,085,918.72	N/A

<b>Actual Information</b>	
Description	File Name

Mount, One Station antenna . medium power (50-200 kW), elliptically or circularly polarized	Component Description: Amount:	UHF - LOW POWER SIDE MOUNT \$18,917.60
Sweep test of existing antenna	Component Description:  Amount:	WCTV-280- Sweep test New Interim Antenna
	Amount.	\$3,200.00
Elbow complex, broadband, at antenna input, per 3 1/8. feedline (if needed)	Information not provided.	
Sweep test of existing antenna	Component Description:	WCTV-210- Sweep test New Primary Antenna
	Amount:	\$1,600.00
	Component Description:	WCTV-210- Sweep test New
	Amount:	Primary Antenna \$1,600.00
	Component Description:	WCTV-210- Sweep test New Primary Antenna
		riiiiaiv Ailleilia
	Amount:	\$1,920.00
	Amount:  Component Description:	•

Elbow complex, single channel, at antenna input, WCTV-210-Elbow **Component Description:** per 6 1/8. feedline (if needed) complex New Primary Antenna \$3,192.00 Amount: WCTV-210-Elbow **Component Description:** complex New Primary Antenna Amount: \$3,192.00 **Component Description:** WCTV-210-Elbow complex New Primary Antenna \$3,830.40 Amount: UHF - High Power Top Mount (200-1000 kW), One **Component Description:** UHF- HIGH station antenna, elliptically POWER TOP or circularly polarized **MOUNT** Amount: \$49,100.00 **Component Description:** UHF- HIGH POWER TOP **MOUNT** Amount: \$49,100.00 **UHF-High Power Component Description:** Top Mount (200-1000KW) \$58,920.00 Amount:

Component Description:	WCTV-210-Top plate adapter New Primary Antenna
Amount:	\$5,800.00
Component Description:	WCTV-210-Top plate adapter New
Amount:	Primary Antenna \$5,800.00
Component Description:	WCTV-210-Top plate adapter New
Amount:	Primary Antenna \$6,960.00

#### **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	\$51,330.00	\$37,835.20		\$18,519.17	
Flexible Air Transmission Line - dielectric, 3"	\$51,330.00	\$37,835.20	per DTVPros quote JEHQ1672	\$18,519.17	N/A
Primary Transmission Line	\$15,756.00	\$14,966.00		\$10,103.91	
Rigid Transmission Line - copper, 6 1/8"	\$15,756.00	\$14,966.00	JEHQ1267- 04	\$10,103.91	N/A
Sub-total	\$67,086.00	\$52,801.20	N/A	\$28,623.08	N/A
Total for all systems	\$5,641,387.99	\$5,362,156.10	N/A	\$2,085,918.72	N/A

Actual Information Description	File Name	
Flexible Air Transmission Line - dielectric, 3"	Component Description:	WCTV-380-New Interim
	Amount:	Transmission Line \$18,519.17

Rigid Transmission Line copper, 6 1/8" **Component Description:** WCTV-310-New Primary Transmission Line Amount: \$3,157.47 **Component Description:** WCTV-310-New Primary Transmission Line Amount: \$3,157.47 **Component Description:** WCTV-310-New Primary

Amount:

Transmission Line

\$3,788.97

#### **Tower Equipment and Rigging Costs**

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

	Predetermined	Estimated	Estimated Cost		Actual Cost
Description	Cost Estimate	Cost	Justification	Actual Cost	Justification
Primary Tower TOWER	\$684,000.00	\$792,000.00		\$110,150.00	
Major tower reinforcement /modifications	\$421,000.00	\$430,000.00	State and local taxes	\$0.00	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$10,500.00	Hodge Invoice 19G000400. 1	\$10,500.00	N/A
Structural Load Study	\$26,200.00	\$26,200.00	Estimated Cost Justification WCTV-410- Structural Analysis Existing Primary Tower V0	\$18,325.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$325,300.00	see Justifying Quote WCTV GTI America Q19-06- 008 main antenna install	\$81,325.00	N/A

Auxiliary Tower GTOWER	\$666,300.00	\$660,900.00		\$15,900.00	
Major tower reinforcement /modifications	\$421,000.00	\$430,000.00	State and local taxes	N/A	N/A
Tall Tower (greater than 500')	\$210,500.00	\$215,000.00	State and local taxes	N/A	N/A
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$26,300.00	\$7,400.00	Hodge Invoice 19G000300. 1	\$7,400.00	N/A
Structural Load Study	\$8,500.00	\$8,500.00	see Estimated Cost Justification WCTV-450- Structural Analysis Existing Auxiliary Tower v0	\$8,500.00	N/A
Sub-total	\$1,350,300.00	\$1,452,900.00	N/A	\$126,050.00	N/A
Total for all systems	\$5,641,387.99	\$5,362,156.10	N/A	\$2,085,918.72	N/A

Actual Information Description	File Name
Major tower reinforcement /modifications	Information not provided.

Tower mapping for an undocumented/poorly **Component Description:** Please deny this documented tower and invoice preparation of N/A Amount: documentation necessary for tower load study **Component Description:** WCTV-410-Tower Mapping Amount: \$5,250.00 **Component Description:** WCTV-410-Tower Mapping-Amount: \$5,250.00 Structural Load Study **Component Description:** Please deny this invoice Amount: N/A **Component Description:** Engineering Evaluation, Appurtence Mapping, Corrosion Risk Analysis Amount: \$5,225.00 **Component Description:** Engineer Evaluation \$7,875.00 Amount:

**Component Description:** 

Amount:

Engineering Evaluation

\$5,225.00

Tall Tower (greater than 500')	Component Description:	25% Tower Equipment and
		Rigging
	Amount:	\$81,325.00
	Component Description: Amount:	N/A N/A
Major tower reinforcement /modifications	Information not provided.	
Tall Tower (greater than 500')	Information not provided.	
Tower mapping for an undocumented/poorly	Component Description:	WCTV-450-Tower
documented tower and	Component Description.	Mapping
preparation of documentation necessary for tower load study	Amount:	\$3,700.00
	Component Description:	Engineering
		Evaluation
	Amount:	\$3,700.00
Structural Load Study		
	Component Description:	50% deposit - Engineering
		Engineering Evaluation,
		Appurtenance
		Mapping &
		Corrosion Risk
		Analysis
	Amount:	\$4,250.00
	Component Description:	WCTV-450-
		Structural Analysis
		<b>Existing Auxiliary</b>
		Tower
	Amount:	\$4,250.00

#### **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	\$122,004.00	\$126,304.00		\$98,564.95	
Project management of the transition	\$94,010.00	\$99,675.00	Per Widelity WCTV Strategic support quote 1-23- 19	\$91,760.95	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$4,250.00	N/A
Attorney Fees - Other Matters	\$379.00	\$379.00	Per WCTV Justification New Category Attorney Other Matters	\$379.00	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 - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	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	\$1,525.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$650.00	N/A

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	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	N/A	N/A
Sub-total	\$122,004.00	\$126,304.00	N/A	\$98,564.95	N/A
Total for all systems	\$5,641,387.99	\$5,362,156.10	N/A	\$2,085,918.72	N/A

Actual Information		
Description	File Name	
Project management of the transition	Component Description: Amount:	Project Management \$2,772.95
	Component Description: Amount:	Project Management \$2,573.35
	Component Description: Amount:	Project management \$2,516.90

Component Description:

Project

Amount:

Management \$2,551.30

**Component Description:** 

Project

Amount:

Management \$1,921.85

**Component Description:** 

Project

Amount:

Management \$2,348.65

Component Description:

Project

Amount:

Management \$1,944.80

**Component Description:** 

Project

Amount:

Management

\$3,190.95

**Component Description:** 

Project

Amount:

Management \$2,922.55

**Component Description:** 

Project

Amount:

Management \$2,671.95

**Component Description:** 

Project

Amount:

Management \$2,890.75

**Component Description:** 

Project

Amount:

Management

\$5,323.75

Component Description:

Project

Amount:

Management \$4,254.50

**Component Description:** 

Project

Amount:

Management \$5,814.65

**Component Description:** 

Project

Amount:

Management \$4,124.40

**Component Description:** 

Project

Amount:

Management

\$1,541.50

**Component Description:** 

Project

Amount:

Management

\$1,706.25

**Component Description:** 

Project

management

Amount:

\$2,435.15

**Component Description:** 

Project

Management

Amount:

\$3,418.55

**Component Description:** 

Project Management

Amount:

\$801.45

**Component Description:** 

Project

Amount:

Management

\$1,328.55

Component Description: Project

Management \$2,078.85

Amount:

**Component Description:** 

Project Management

Amount:

\$3,834.80

**Component Description:** 

Project

Amount:

Management \$1,941.95

Project

**Component Description:** 

Management

Amount:

\$2,460.90

**Component Description:** 

Transition Related

Project

**Management Costs** 

Amount:

\$1,950.00

Component Description:

Project

Management

Amount:

\$5,473.15

Component Description:

Project Management

Amount:

\$1,831.65

**Component Description:** Project

Management

Amount:

\$1,690.60

**Component Description:** 

Project

Management

Amount:

\$802.25

Component Description:

Project

Management \$1,773.60

**Component Description:** 

Project

Management

Amount:

Amount:

\$733.30

**Component Description:** 

Project

Management

Amount:

\$28.20

**Component Description:** 

Project

Management

Amount:

\$2,500.60

**Component Description:** 

Project

Management

Amount:

\$2,964.40

**Component Description:** 

Project

Management

Amount:

\$2,641.95

Perform engineering study for new channel assignment and antenna development

Component Description: Consulting

Engineer \$525.00

Amount: \$525

Component Description: Review system

gain-loss and corresponding TPO required for repack Ch-20 main antenna, various discussions.

**Amount:** \$650.00

Component Description: WCTV-530-RF

Eng Channel Study

**Amount:** \$1,200.00

Component Description: Consulting

Engineer

Regarding repack
CH-20 main
antenna/line
configuration

\$575.00

Component Description: Conduct channel

study

**Amount:** \$187.50

Component Description: Perform

engineering study for new channel assignment

**Amount:** \$1,300.00

Attorney Fees - Other Matters

**Component Description:** 

Amount:

Amount:

Legal Services

\$379.00

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	CP Application \$1,525.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	Develop final configuration for main antenna \$650.00
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	

#### **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	\$65,690.64	\$57,485.64		\$6,734.36	
Disposal Costs (for equipment and other waste, net of any salvage value)	\$610.64	\$610.64	Please See Estimated Cost Justification WCTV-610- Disposal Costs v0	\$610.64	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,440.00	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
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$1,110.00	per Estimated Cost Justification WCTV-610- STA FCC Filing Fees v0	\$1,110.00	N/A
Equipment Delivery and Handling Charges	\$14,000.00	\$14,000.00	N/A	\$3,013.72	N/A
Equipment Storage	\$12,000.00	\$12,000.00	N/A	N/A	N/A

Develop and air announcement	\$10,000.00	\$10,000.00	N/A	N/A	N/A
of upcoming channel change					
Site Security	\$12,000.00	\$12,000.00	N/A	N/A	N/A
Tree Removal	\$3,000.00	\$3,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	Please see Estimated Cost Justification WCTV-610- MVPD Notifications v0	\$2,000.00	N/A
Sub-total	\$65,690.64	\$57,485.64	N/A	\$6,734.36	N/A
Total for all systems	\$5,641,387.99	\$5,362,156.10	N/A	\$2,085,918.72	N/A

Actual Information Description	File Name	
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: Amount:	setup fee - county \$158.36
	Component Description: Amount:	Rent - O Hauls \$117.00
	Component Description: Amount:	Const. and Demolitio \$218.28
	Component Description: Amount:	Rent - 0 Hauls \$117.00

DTV Medical Facility Notification	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Component Description: Amount:	WCTV-610-STA FCC Filing Fees- \$1,110.00
Equipment Delivery and Handling Charges	Component Description: Amount:	Scissor Lift 19' Electric \$646.10
	Component Description: Amount:	Scissor Lift 19' Electric-Rental \$1,006.75
	Component Description: Amount:	Freight and driver \$1,360.87
Equipment Storage	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
Site Security	Information not provided.	
Tree Removal	Information not provided.	
MVPD Notification of	Component Description:	Total Professional

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$5,641,387.99	\$5,362,156.10	\$2,085,918.72

Reimbursem	envestiatus	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

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 abovenamed applicant for the Authorization(s) specified above. Robert Folliard , III

Assistant Secretary

03/24/2020

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.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- 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 abovenamed applicant for the Authorization(s) specified above. Robert Folliard , III

Assistant Secretary

03/24/2020

#### **Attachments**