

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 594 Service: DTV Call WITN-TV Channel: 34 (UHF)

ID: Sign:

ID: File

0000028737

Number:

FRN: **0018223693** Date **08/04**

Submitted: /2020

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC Doing Business As: WITN	4370 Peachtree Road NE Atlanta, GA 30319 United States	+1 (404) 504-9828	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.	Yes
Briefly describe transition plan	WITN will be transitioning from channel 32 to channel 34. The station will be replacing its existing antenna, transmitter. The station will be 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	
Manufacturer and Type	Model	Sigma CD
	Year	2003
	Туре	Inductive Output Tube
	IOT Power Type	Two
	Power Capacity	52 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-120
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	75.1 kW
	Justification for New Transmitter	Existing transmitter can't be retuned. Solid state replacement is cheaper than IOT replacement.

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
	Туре	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	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Pad and Ice Shield for Heat Exchangers	Pad and Ice Shield for New Heat Exchangers /Transformers
Laptop for Monitoring Transmitter	Laptop for Monitoring Transmitter

Antennas

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

Existing Antenna Information

Existing Antenna	<u> </u>	
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	Top Mount
	Antenna position in stack	Тор
	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)	795.0 kW

Manufacturer	
Model	TFU30GTH- R-06
Year	2003

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	Тор	
	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)	828.0 kW	
	Manufacturer		

Model	TFU-30GTH /VP-R 06
Year	2017
Justification for New Antenna	Existing antenna is single channel and cannot be retuned to the new channel.

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 to match the bolt pattern of the antenna

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	Horizontal
	Туре	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	300.0 kW
	Manufacturer	
	Model	TFU26DSC- R-04-TC
	Year	2017

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

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	6 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	Yes
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

Name	Description
Splitter	Splitter at antenna

Transmission	Section .	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary Transmission

Existing Transmission Line

Section Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Dielectric
	Туре	Rigid
	Diameter	7 3/16 inches
	Other Diameter	N/A
	Segment Length	Other
	Other Segment Length	18.76 feet
	Number of parallel runs	1
	Length	2000 feet per run

Other Transmission Line Expenses Not Listed

Primary Transmission

n Name	Description
Additional Transmission Line Parts	Additional Transmission Line Parts
Sweep Test	Sweep test needed for existing transmission line.
Sweep Test Adapter Rental	Rental of transmission line adapter for sweep test of existing transmission line.

Interim Transmission

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Туре	Rigid
	Diameter	6 1/8 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	1747 feet per run
	Justification for New Transmission Line	Interim transmission line needed to continue broadcasting during transition period

Other Transmission Line Expenses Not Listed

Interim
Transmission Lineation 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?	
	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?	Yes
	Is tower compliant with Rev G?	No
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1006359
Coordinates (NAD83 (Latitude (NAD83)	35° 21' 55.9" N-
North American Datum of 1983))	Longitude (NAD83)	077° 23′ 34.6″ W-
	Overall Structure Height	1984.88 feet
	Support Structure Height	1856.93 feet
	Ground Elevation Above Mean Sea Level (AMSL)	25.92 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	Tall Towers,
Date Constructed	02/12/2016

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
54388	WNCT-FM	FM
64609	WERO	FM
57838	WNCT-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 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	Other
Helicopter Services Required	Are helicopter services required?	Yes

Primary Tower

Other Tower Expenses Not Listed

Name	Description
Tower Mapping	Mapping for tower

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	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	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
Services	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes

	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	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

I Services Costs	Description	
Attorney Fees - Other Matters	Legal Services	
Attorney Fees - Other Matters	Legal Services (2)	

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	Yes
	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
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Security	Security at site while equipment is being stored.

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
Primary Transmitter ULXTE-120	\$2,092,194.91	\$2,092,194.91		\$1,942,829.64	
UHF - Liquid Cooled Solid State Transmitter 75.1 kW	\$1,974,344.73	\$1,974,344.73	see Estimated Cost Justification WITN-110- 1st Primary Transmitter - UHF Liquid Cooled Solid State 75.1 kW v0	\$1,887,230.93	N/A
Laptop for Monitoring Transmitter	\$446.18	\$446.18	Please see WITN-TV Primary Transmitter - Laptop Budget Revision Justification Letter	\$446.18	N/A
Pad and Ice Shield for Heat Exchangers	\$39,654.00	\$39,654.00	See attached T. D. Goodwin Construction quote	\$25,781.28	N/A

Total for all	\$5,224,767.36	\$4,761,777.55	N/A	\$4,302,040.31	N/A
Sub-total	\$2,092,194.91	\$2,092,194.91	N/A	\$1,942,829.64	N/A
contractors.					
local electrical					
guidance from					
verbal					
based on					
estimated					
cost has been					
electrical work					
site. The					
service on					
electrical					
of the					
reconfiguration					
require					
transmitter will					
new					
Service: The			Quote		
Other Electrical	\$77,750.00	\$77,750.00	See Pitt Electric	\$29,371.25	N/A

Components

Actual Information	
Description	File Name

UHF - Liquid Cooled Solid		
State Transmitter 75.1 kW	Component Description:	ULXTE-120
		Transmitter
	Amount:	\$144,586.34
	Component Description:	ULXTE-120
		Transmitter
	Amount:	\$1,364,501.66
	Component Description:	Invoice moved to
		Transmitter
		Electrical budget
		category.
	Amount:	N/A
	Component Description:	BW Distilled
	Amount:	\$435.74
	Component Description:	Invoice moved to
		Transmitter
		Electrical budget
		category.
	Amount:	N/A
	Component Descriptions	LILVIE 400
	Component Description:	ULXTE-120 Transmitter
	Amount:	\$377,707.19
	Amount.	ψοιι,τοι.13
Lanton for Monitoring		
Laptop for Monitoring Transmitter		
	Component Description:	laptop for
	Amazzat	transmitter
	Amount:	\$446.18
	The state of the s	

Exchangers	Component Description:	8/15/19welded
		angle iron
	Amount:	\$1,181.28
	Component Description:	Labor and
		materials to build and install 8' x 20'
		iceshield 10' high
	Amount:	\$24,600.00
Other Electrical Service: The new transmitter will require		
reconfiguration of the	Component Description:	Other Electrical
electrical service on site. The	Amount:	\$28,000.00
electrical work cost has been		

\$1,371.25

Amount:

contractors.

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 TFU26DSC- R-04-TC	\$460,080.00	\$322,614.00		\$210,724.00	
Splitter	\$0.00	\$0.00	Cost included with combiner system	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$19,520.00	N/A	\$19,520.00	N/A
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	\$151,018.50	Please see vendor quote JEHQ1306, less amount already submitted for reimbursement	\$40,912.50	N/A

Elbow complex, broadband, at antenna input, per 6 1/8. Floor Plate Adapter S12,300.00 S12,768.00 N/A S10,984.00 N/A S10,997.50 N						
Notice: Power Estimate Side adjusted and locked Nount, One because line has been superseded.	complex, broadband, at antenna input, per 6 1/8. feedline (if	\$13,700.00	\$12,768.00	N/A	\$10,984.00	N/A
Antenna IFU-30GTH VP-R 06 Top Plate Adapter \$19,552.00 \$19,552.00 N/A \$15,641.60 N/A Elbow \$12,300.00 \$12,768.00 JEHQ1278-01 \$12,768.00 N/A complex, single channel, at antenna input, per 6 1/8. feedline (if needed) Sweep test \$6,730.00 \$6,400.00 N/A \$6,400.00 N/A of existing	Lower Power Side Mount, One station antenna 200-500 kW, elliptically or circularly	\$227,000.00	\$132,907.50	Notice: Estimate adjusted and locked because line has been superseded. ***See vendor quote	\$132,907.50	N/A
Elbow \$12,300.00 \$12,768.00 JEHQ1278-01 \$12,768.00 N/A complex, single channel, at antenna input, per 6 1/8. feedline (if needed) Sweep test \$6,730.00 \$6,400.00 N/A \$6,400.00 N/A of existing	Antenna FFU-30GTH	\$328,082.00	\$265,863.00		\$234,642.41	
complex, single channel, at antenna input, per 6 1/8. feedline (if needed) Sweep test \$6,730.00 \$6,400.00 N/A \$6,400.00 N/A of existing		\$19,552.00	\$19,552.00	N/A	\$15,641.60	N/A
of existing	complex, single channel, at antenna input, per 6 1/8. feedline (if	\$12,300.00	\$12,768.00	JEHQ1278-01	\$12,768.00	N/A

UHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or circularly	\$289,500.00	\$227,143.00	N/A	\$199,832.81	N/A
polarized Sub-total	\$788,162.00	\$588,477.00	N/A	\$445,366.41	N/A
Total for all systems	\$5,224,767.36	\$4,761,777.55	N/A	\$4,302,040.31	N/A

Components

Actual Information Description	File Name
Splitter	Information not provided.

Side mount brackets for high power antennas (if not included in antenna base cost)

Component Description: WITN-280-Interim

Antenna - Side Mount Brackets

Amount: \$4,880.00

Component Description: Side Mount

Brackets Interim

Antenna

Amount: \$5,856.00

Component Description: WITN-280-Interim

Antenna - Side Mount Brackets

Amount: \$4,880.00

Component Description: WITN-280-Interim

Antenna - Side Mount Brackets

Amount: \$3,904.00

Sweep test of existing antenna		WITH OOO L
	Component Description:	WITN-280-Interim
		Antenna - Sweep Test
	Amount:	\$1,600.00
	Amount.	ψ1,000.00
	Component Description:	WITN-280-Interim
		Antenna - Sweep
		Test
	Amount:	\$1,280.00
	Component Description:	WITN-280-Interim
		Antenna - Sweep
		Test
	Amount:	\$1,600.00
	Component Description:	Sweep Test
		Interim Antenna
	Amount:	\$1,920.00
UHF - Lower Power Side		
Mount, One station - 200-500	Component Description:	Antenna
kW, horizontally polarized	Amount:	\$40,912.50

Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)

Component Description: WITN-280-Interim

Antenna - Elbow Complex, 6 1/8"

Amount: \$2,746.00

Component Description: Elbow Complex

Interim Antenna

Amount: \$3,295.20

Component Description: WITN-280-Interim

Antenna - Elbow

Complex, 6 1/8"

Amount: \$2,746.00

Component Description: WITN-280-Interim

Antenna - Elbow

Complex, 6 1/8"

Amount: \$2,196.80

UHF - Lower Power Side Mount, One station antenna **UHF-Low Power Component Description:** -- 200-500 kW, elliptically or Side Mount circularly polarized \$49,095.00 Amount: **UHF-LOW Component Description: POWER SIDE MOUNT** Amount: \$40,912.50 **Component Description: UHF- LOW POWER SIDE MOUNT** Amount: \$42,900.00 **Component Description:** Invoice moved as the category has been superseded. Amount: N/A Top Plate Adapter **Component Description:** WITN-210-Primary Antenna - Top Plate Adapter Amount: \$4,888.00 **New Primary Component Description:** Antenna Top Plate \$5,865.60 Amount:

Component Description:

Amount:

WITN-210-Primary Antenna - Top Plate Adapter

\$4,888.00

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)

Component Description: WITN-210-Primary

Antenna - Elbow Complex 6 1/8"

Amount: \$3,192.00

Component Description: WITN-210-Primary

Antenna - Elbow Complex 6 1/8"

Amount: \$2,553.60

Component Description: WITN-210-Primary

Antenna - Elbow Complex 6 1/8"

Amount: \$3,192.00

Component Description: New Primary

Antenna Elbow

Complex

Amount: \$3,830.40

Sweep test of existing		
antenna	Component Description:	Sweep Test New
		Primary Antenna
	Amount:	\$1,920.00
	Component Description:	WITN-210-Primary
		Antenna - Sweep Test
	Amount:	\$1,600.00
	Component Description:	WITN-210-Primary Antenna - Sweep
	Amount:	Test \$1,280.00
	Component Description:	WITN-210-Primary
		Antenna - Sweep Test
	Amount:	\$1,600.00
UHF - High Power Top Mount		
(200-1000 kW), One station antenna, elliptically or circularly polarized	Component Description:	UHF-HIGH POWER TOP
on outany polarizod		MOUNT (200-
	Amount:	1000KW) \$51,617.62
	Component Description:	UHF-HIgh Power
	Amount:	top Mount \$34,656.42
	Allount.	ψ04,000.42
	Component Description:	UHF-High Power
		Top Mount
	Amount:	\$61,941.15
	Component Description:	UHF High Power
		Top Mount
	Amount:	\$51,617.62

Transmission Line

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

Description Interim Transmission Line	Predetermined Cost Estimate \$405,304.00	Estimated Cost \$275,216.00	Estimated Cost Justification	Actual Cost \$255,647.36	Actual Cost Justification
Rigid Transmission Line - copper, 6 1 /8" broadband	\$405,304.00	\$275,216.00	N/A	\$255,647.36	N/A
Primary Transmission Line	\$15,869.45	\$15,869.45		\$7,626.11	
Sweep Test	\$6,400.00	\$6,400.00	N/A	N/A	N/A
Additional Transmission Line Parts	\$6,669.45	\$6,669.45	Please see line 5 on DTVPros quote JEHQ1278- 03, plus actual taxes on invoice 217- 3	\$6,669.45	N/A
Sweep Test Adapter Rental	\$2,800.00	\$2,800.00	See vendor invoice.	\$956.66	N/A
Sub-total	\$421,173.45	\$291,085.45	N/A	\$263,273.47	N/A
Total for all systems	\$5,224,767.36	\$4,761,777.55	N/A	\$4,302,040.31	N/A

Actual Information			
Description	File Name		

Rigid Transmission Line - copper, 6 1/8" broadband	Component Description:	WITN-380-Interim Transmission Line - Rigid Copper,
	Amount:	Broadband, 6 1/8" \$64,237.78
	Component Description:	N2-GEN(R) TL- 1050 Nitrogen
	Amount:	Generation System \$12,869.53
	Component Description:	WITN-380-Interim Transmission Line - Rigid Copper,
	Amount:	Broadband, 6 1/8" \$47,241.44
	Component Description:	Interim Transmission Line
	Amount:	\$77,085.36
	Component Description:	WITN-380-Interim Transmission Line - Rigid Copper,
	Amount:	Broadband, 6 1/8" \$2,845.00
	Component Description:	WITN-380-Interim Transmission Line - Rigid Copper,
	Amount:	Broadband, 6 1/8" \$64,237.78
Sweep Test	Information not provided.	

Additional Transmission Line		
Parts	Component Description:	WITN-310-Primary
		Transmission Line -
		Additional Parts
	Amount:	\$6,669.45
Sweep Test Adapter Rental		
	Component Description:	Scissor Lift 19FT
		Narrow Elec
	Amount:	\$956.66
	Component Description:	Transmitter Tuning
	· ·	•

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
Primary Tower GTOWER	\$1,632,136.00	\$1,518,946.69		\$1,517,746.69
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$345,435.69	Please see attached Revised GTI America Quote Q17-06-012b and Dish Technologies Estimate 4812	\$345,435.69
Tower Helicopter Lift	\$128,586.00	\$128,586.00	Please see attached Revised GTI America Quote Q17-06-012b	\$128,586.00
Tower Mapping	\$17,950.00	\$17,950.00	See attached quote from Turris Engineering Inc.	\$17,950.00
Structural engineering tower load study for well documented tower	\$12,600.00	\$16,000.00	Initial plus two additional studies for shared tower	\$14,800.00
Serious tower reinforcement /modifications	\$1,052,000.00	\$1,010,975.00	see Estimated Cost Justification WITN-410- Existing Primary Tower - Serious Tower Reinforcement_Modifications v0	\$1,010,975.00
Sub-total	\$1,632,136.00	\$1,518,946.69	N/A	\$1,517,746.69
Total for all systems	\$5,224,767.36	\$4,761,777.55	N/A	\$4,302,040.31

Actual Information Description	File Name	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description: Amount:	Mobilize crew to WITN tower \$61,505.26
	Component Description: Amount:	Tower Rigging Service \$106,216.27
	Component Description: Amount:	Dates completed 6 /22 and 6/23/19 \$4,900.00
	Component Description: Amount:	Remove existing top mounted Ch 32 TFU30 antenna \$112,286.99
	Component Description: Amount:	Tower rigging services - Tall Tower (500') \$60,527.17
Tower Helicopter Lift	Component Description:	WITN-410-Existing
	Amount:	Primary Tower - Tower Lift \$128,586.00

Tower Mapping		
	Component Description:	Equipment
		mapping
	Amount:	\$8,975.00
	Component Description:	Equipment
		mapping
	Amount:	\$8,975.00
Structural engineering tower		
load study for well documented tower	Component Description:	Specific Wind
documented tower		Study & Structural
		Re-Analysis and
		Report
	Amount:	\$6,000.00
	Component Description:	Tower Structural
	Component Book Iption.	Analysis Report for
		load case specified
		•

Serious tower reinforcement /modifications

Component Description: 30% In Progress

Payment During Field Installation

Amount: \$294,180.00

Component Description: Weather Days

During August

2019

Amount: \$30,375.00

Component Description: Tower Reinforcing

Project

Amount: \$392,240.00

Component Description: 19-0029 1857ft

Kline 10Ft-face guyed Tower

Reinforcing Project

Amount: \$49,030.00

Component Description: 25% Down

payment Due Upon acceptance

of order

Amount: \$245,150.00

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	\$182,211.00	\$170,106.00		\$126,404.10	
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$118,460.60	N/A
Attorney Fees - Other Matters	\$1,406.00	\$1,406.00	Per Estimated Cost Justification WITN-550- Attorney Fees - Other Matters v1	\$1,406.00	N/A
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	\$429.50	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$758.00	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$250.00	Please see attached justification for attorney fees - prepare and file Engineering Portion of FCC License to Cover Application for auxiliary facility	\$250.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$250.00	N/A

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$700.00	Please see the invoice Chesapeake RF Consultants, LLC. Invoice #5172	\$700.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,462.50	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$2,687.50	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 and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Sub-total	\$182,211.00	\$170,106.00	N/A	\$126,404.10	N/A
Total for all systems	\$5,224,767.36	\$4,761,777.55	N/A	\$4,302,040.31	N/A

Actual Information Description	File Name	
Project management of the transition	Component Description: Amount:	Project Manageme \$6,468.90
	Component Description: Amount:	Project Management \$3,155.65
	Component Description: Amount:	Project Management \$1,913.90
	Component Description: Amount:	Project Management \$1,726.65
	Component Description: Amount:	Project Manageme \$5,750.90
	Component Description: Amount:	Project Manageme \$2,166.05
	Component Description: Amount:	Project Manageme \$4,023.40
	Component Description: Amount:	Project Manageme \$3,493.45
	Component Description: Amount:	Project Management \$4,897.00

Project

Amount:

Management \$5,940.65

Component Description:

Project

Amount:

Management \$7,493.25

Component Description:

Amount:

Project Management

\$2,733.05

Component Description:

Amount:

Project Management

\$3,981.00

Component Description:

Amount:

Project management

\$2,667.65

Component Description:

Project

Management

Amount: \$2,377.30

Component Description:

Amount:

Project Management

\$2,478.20

Component Description:

Project

Amount:

Management

\$2,233.15

Component Description:

Project

Amount:

Management

\$1,899.15

Component Description:

Project

Amount:

Management

\$2,244.80

Project

Amount:

Management \$2,624.20

Component Description:

Project

Amount:

Management \$1,946.50

Component Description:

Project

Amount:

Management \$2,607.10

Component Description: Project

Management

Amount:

\$2,386.15

Component Description: Project

Project

management of the transition

Amount: \$600.00

Component Description:

Amount:

Project management

\$2,561.90

Component Description:

Amount:

Project Management

\$1,101.45

Component Description:

Project

Amount:

Management \$1,660.60

Component Description:

Project

Management

Amount: \$2,728.40

Amount:

Project management

\$1,328.55

Component Description:

Project Management

Amount:

\$3,943.80

Component Description:

Project

Amount:

Management \$2,585.70

Component Description:

Project

Amount:

Management \$2,084.35

Component Description:

Project

Amount:

Management \$2,375.10

Component Description:

Project

Management

Amount:

\$770.80

Component Description:

Project

Management

\$802.25

Component Description:

Project

Amount:

Amount:

Management

\$1,706.25

Component Description:

Project

Management

Amount:

\$28.20

Project

Amount:

Management \$4,261.20

Component Description:

WITN-510-Project

Management

Amount:

\$900.00

Component Description:

Amount:

Project Management

\$3,071.30

Component Description:

Project

Amount:

management \$3,276.45

Component Description:

Project

Management

Amount:

\$5,466.25

Attorney Fees - Other Matters

Component Description:

Review linked set

for WITN

Amount:

\$962.00

Component Description:

For Professional

Services Rendered

Amount:

\$222.00

Component Description:

Professional

Services rendered through September

30, 2019

Amount:

\$222.00

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	Component Description: Amount:	WITN-550-Attorney - License to Cover Application (Main) \$83.00
	Component Description: Amount:	Professional Services \$346.50
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Professional Services \$758.00
Prepare request for Special Temporary Authorization	Information not provided.	
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Component Description: Amount:	buildout of repack Ch-34 auxiliary \$250.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description:	Consulting Engineer: regarding buildout of repack
	Amount:	Ch. 34 \$250.00

RF Consulting Engineer Fees- Aux Antenna: Prepare **Component Description:** WITN-530-Outside engineering section of FCC Professional Form 2100, Construction Services -Permit Application Engineering **Consulting Services** - RF Eng -**Construction Permit** Application (AUX) \$700.00 Amount: Prepare engineering section of FCC Form 2100 (main), **Component Description:** review proposal for **Construction Permit** interim antenna and Application develop final ERP and parameters for CP application Amount: \$1,462.50

Perform engineering study for new channel assignment and antenna development	Component Description: Amount:	Consulting Engineer \$275.00
	Component Description:	Perform
	Amount:	engineering study for new channel assignment \$1,287.50
	Component Description:	Review antenna manufacturer's
		alternative proposal re: top-mount antenna, due to structural loading
	Amount:	\$250.00
	Component Description:	Respond to query re: repack Ch-34 non-maximized ERP and
	Amount:	corresponding TPO. \$125.00
	Component Description:	Discuss top-mount antenna size, gain and required TPO.
	Amount:	\$625.00
	Component Description:	RF Engineering Consulting \$125.00
	Amount:	φ1/25.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	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	\$108,890.00	\$100,967.50		\$6,420.00	
Security	\$12,000.00	\$12,000.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	Justifying Quote - Wiley Rein MVPD quote	\$2,000.00	N/A
Develop and air announcement of upcoming channel change	\$10,000.00	\$10,000.00	N/A	N/A	N/A
Equipment Storage	\$12,000.00	\$12,000.00	N/A	\$2,640.00	N/A
Equipment Delivery and Handling Charges	\$15,000.00	\$15,000.00	N/A	\$0.00	N/A
Non-zoning permits	\$11,000.00	\$11,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	\$0.00	N/A

FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$670.00	per Estimated Cost Justification WITN-610- FCC Filing Fee - License to Cover Application v1	\$670.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,110.00	Per WITN- TV Justification FCC Filing Fee CP App	\$1,110.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$33,700.00	\$33,700.00	See attached Comark quote P#4034- WITN- Equip Removal- 170825.	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$3,297.50	N/A	N/A	N/A
Sub-total	\$108,890.00	\$100,967.50	N/A	\$6,420.00	N/A
Total for all systems	\$5,224,767.36	\$4,761,777.55	N/A	\$4,302,040.31	N/A

Actual Information Description	File Name	
Security	Information not provided.	
MVPD Notification of Channel Change	Component Description:	Prepare MVPD notification letters for WITN.
	Amount:	\$2,000.00

Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Component Description: Amount:	WITN-610- Equipment Storage \$2,640.00
Equipment Delivery and Handling Charges	Information not provided.	4 2,0 .0.00
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	Component Description:	WITN-610-FCC Filing Fee - License to Cover Application
	Amount:	\$335.00
	Component Description:	Total Professional Services
	Amount:	\$335.00
FCC Filing Fees - Form 2100 minor change CP application	Component Description:	WITN-610-FCC Filing Fee - CP
	Amount:	Application \$1,110.00
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.	
DTV Medical Facility Notification	Information not provided.	

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$5,224,767.36	\$4,761,777.55	\$4,302,040.31

Reimbursem	eAt Status	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

08/04/2020

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

08/04/2020

Attachments