

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

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

ID:

File 0000028737

Number:

FRN: 0018223693 Date 08/26

> Submitted: /2019

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC	WITN-TV 275 E. Arlington Blvd Greenville, NC 27858 United States	+1 (252) 439-7777	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	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
Pad and Ice Shield for Heat Exchangers	Pad and Ice Shield for New Heat Exchangers/Transformers

Interim Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	ULXTE80
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	50.1 kW
	Justification for New Transmitter	Interim transmitter needed to continue broadcasting through 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
		1

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

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	Owned N/A N/A No No Yes
	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	Class	Full Power
Manufacturer and Type	Mounting	Top Mount
	Antenna position in stack	Тор
	Polarization	Horizontal
	Туре	
	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	
		1

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 Side Mount Not in Stack
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)	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

Enter a list of RF channel numbers.

RF Channel Number
34
32
33

Interim Antenna

Other Antenna Cost Not Listed

Name	Description
Splitter	Splitter at antenna

Transmission Seffien	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	Manufacturer	Dielectric
Line Manufacturer and Type	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

Primary

Other Transmission Line Expenses Not Listed

Transmission	n Line	Description	
	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

New Transmission Line

Transmissio	ngerion	Question	Response
	New Transmission Line	Use	Interim
	Costs	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 loine 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

Primary Tower

Existing Tower

Tower Use Primary (Mail Description of Use N/A Description of Use N/A Ownership Owned Is this tower consider Complex? Is this tower currently shared with any other stations? One or more FM, AM or TV radio broadcaster(s) Others Types of Users No Is tower documented for structural analysis? Yes Is tower compliant with Rev G? No Existing Tower Structure Registration ASR Number 1006359 Coordinates (NAD83 (North American Datum of 1983)) Longitude (NAD83) 077° 23' 34.6 W- Overall Structure Height 1984.88 feet	Section	Question	Response
Tower Use Primary (Main Description of Use N/A Description of Use N/A Ownership Owned Is this tower consider Complex? Is this tower currently shared with any other stations? One or more FM, AM or TV radio broadcaster(s) Others Types of Users No Is tower documented for structural analysis? Yes Is tower compliant with Rev G? No Existing Tower Structure Registration ASR Number 1006359 Coordinates (NAD83 (North American Datum of 1983)) Longitude (NAD83) 077° 23' 34.6 W- Overall Structure Height 1984.88 feet	_	Type of change	Modify Existing
Ownership Ownership Ownership Owned Is this tower consider Complex? Is this tower currently shared with any other stations? One or more FM, AM or TV radio broadcaster(s) Others Types of Users Is tower documented for structural analysis? Yes Is tower compliant with Rev G? No Existing Tower Structure Registration Do you have a tower registration number? ASR Number Coordinates (NAD83 (North American Datum of 1983)) Latitude (NAD83) Coverall Structure Height Owned Yes Latitude of TV radio Yes No Is tower documented for structural analysis? Yes Latitude (NAD83) Organization number? Yes ASR Number 1006359 Coordinates (NAD83 (North American Datum of 1983))	Description	Tower Use	Primary (Main)
Is this tower consider Complex? Is this tower currently shared with any other stations? One or more FM, AM or TV radio broadcaster(s) Others Types of Users Is tower documented for structural analysis? Is tower compliant with Rev G? No Existing Tower Structure Registration ASR Number Do you have a tower registration number? ASR Number Coordinates (NAD83 (NAD83) Latitude (NAD83) Longitude (NAD83) Overall Structure Height 1984.88 feet		Description of Use	N/A
Is this tower currently shared with any other stations? One or more FM, AM or TV radio broadcaster(s) Others Types of Users Is tower documented for structural analysis? Is tower compliant with Rev G? No Existing Tower Structure Registration ASR Number Do you have a tower registration number? ASR Number Coordinates (NAD83 (North American Datum of 1983)) Longitude (NAD83) Overall Structure Height Yes No 1006359 Coverall Structure Height 1984.88 feet		Ownership	Owned
Stations? One or more FM, AM or TV radio broadcaster(s) Others Types of Users Is tower documented for structural analysis? Yes Is tower compliant with Rev G? No Existing Tower Structure Registration Do you have a tower registration number? Yes ASR Number Coordinates (NAD83 (North American Datum of 1983)) Longitude (NAD83) Overall Structure Height Yes 1006359 Coverall Structure Height		Is this tower consider Complex?	
broadcaster(s) Others Types of Users Is tower documented for structural analysis? Yes Is tower compliant with Rev G? No Existing Tower Structure Registration ASR Number Coordinates (NAD83 (North American Datum of 1983)) Latitude (NAD83) Coverall Structure Height No No No Do you have a tower registration number? Yes ASR Number 1006359 Coordinates (NAD83 (North American Datum of 1983)) Overall Structure Height 1984.88 feet			Yes
Is tower documented for structural analysis? Yes Is tower compliant with Rev G? No Existing Tower Structure Registration ASR Number 1006359 Coordinates (NAD83 (North American Datum of 1983)) Latitude (NAD83) 35° 21' 55.9" Longitude (NAD83) 077° 23' 34.6 W- Overall Structure Height 1984.88 feet			Yes
Is tower compliant with Rev G? No Existing Tower Structure Registration ASR Number Coordinates (NAD83 (North American Datum of 1983)) Latitude (NAD83) Longitude (NAD83) Overall Structure Height No No No No No No No No No N		Others Types of Users	No
Existing Tower Structure Registration ASR Number Coordinates (NAD83 (North American Datum of 1983)) Latitude (NAD83) Longitude (NAD83) Overall Structure Height Pes 1006359 1006359 35° 21' 55.9" 077° 23' 34.6 W- Overall Structure Height		Is tower documented for structural analysis?	Yes
Structure Registration ASR Number 1006359 Coordinates (NAD83 (North American Datum of 1983)) Latitude (NAD83) 35° 21' 55.9" Longitude (NAD83) 077° 23' 34.6 W- Overall Structure Height 1984.88 feet		Is tower compliant with Rev G?	No
ASR Number 1006359 Coordinates (NAD83 (North American Datum of 1983)) Latitude (NAD83) 35° 21' 55.9" Longitude (NAD83) 077° 23' 34.6 W- Overall Structure Height 1984.88 feet	=	Do you have a tower registration number?	Yes
North American Datum of 1983)) Longitude (NAD83) 077° 23' 34.6 W- Overall Structure Height 1984.88 feet	Structure Registration	ASR Number	1006359
of 1983)) Longitude (NAD83) 077° 23' 34.6 W- Overall Structure Height 1984.88 feet		Latitude (NAD83)	35° 21' 55.9" N-
		Longitude (NAD83)	077° 23' 34.6" W-
Support Structure Height 1856.93 feet		Overall Structure Height	1984.88 feet
		Support Structure Height	1856.93 feet
Ground Elevation Above Mean Sea Level 25.92 feet (AMSL)			25.92 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	Tall Towers, Inc.
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
57838	WNCT-TV	DTV
64609	WERO	FM

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?	No

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

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

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?	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
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
Interim Transmitter ULXTE80	\$1,349,914.03	\$1,349,914.03		\$0.00	
UHF - Liquid Cooled Solid State Transmitter 50.1 kW	\$1,347,914.03	\$1,347,914.03	N/A	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.	\$2,000.00	\$2,000.00	N/A	N/A	N/A
Primary Transmitter ULXTE-120	\$2,071,991.92	\$2,071,991.92		\$1,846,368.82	
Pad and Ice Shield for Heat Exchangers	\$39,654.00	\$39,654.00	See attached T. D. Goodwin Construction quote	\$24,600.00	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.	\$77,750.00	\$77,750.00	See Pitt Electric Quote	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 75.1 kW	\$1,954,587.92	\$1,954,587.92	N/A	\$1,821,768.82	N/A
Sub-total	\$3,421,905.95	\$3,421,905.95	N/A	\$1,846,368.82	N/A
Total for all systems	\$6,308,683.95	\$5,818,195.14	N/A	\$3,091,394.37	N/A

Actual Information Description	File Name
UHF - Liquid Cooled Solid State Transmitter 50.1 kW	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.

Pad and Ice Shield for Heat Exchangers	Component Description: Amount:	Labor and materials to build and install 8' x 20' iceshield 10' high \$24,600.00
Other Electrical Service: The new transmitter will equire reconfiguration of the electrical service on the electrical work toost has been estimated the passed on verbal guidance from local electrical contractors.	Information not provided.	
HF - Liquid Cooled Solid tate Transmitter 75.1 kW	Component Description: Amount:	ULXTE-120 Transmitter \$457,267.16
	Component Description: Amount:	ULXTE-120 Transmitter \$1,364,501.66

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	\$354,780.00	\$324,714.00		\$110,304.70	
Splitter	\$0.00	\$0.00	Cost included with combiner system	N/A	N/A
UHF - Lower Power Side Mount, One station antenna 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$241,026.00	See vendor quote JEHQ1306	\$90,007.50	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,520.00	N/A

New combiner, cost per channel (without antenna) \$84,200.00 \$45,000.00 See attached Jim Heard email "WITN-Gray-Nexstar-Update" regarding combiner / splitter at antenna N/A N/A Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed) \$13,700.00 \$12,768.00 N/A \$6,041.20 N/A Side mount brackets for high power antennas (if not included in antenna base cost) \$23,150.00 \$19,520.00 N/A \$10,736.00 N/A Primary Antenna TFU-30GTH //P-R 06 \$328,082.00 \$265,863.00 \$134,854.77 \$134,854.77						
complex, broadband, at antenna input, per 6 1/8. feedline (if needed) Side mount \$23,150.00 \$19,520.00 N/A \$10,736.00 N/A brackets for high power antennas (if not included in antenna base cost) Primary \$328,082.00 \$265,863.00 \$134,854.77 Antenna TFU-30GTH	combiner, cost per channel (without	\$84,200.00	\$45,000.00	attached Jim Heard email "WITN- Gray- Nexstar- Update" regarding combiner /splitter cost. Includes cost of splitter at	N/A	N/A
brackets for high power antennas (if not included in antenna base cost) Primary \$328,082.00 \$265,863.00 \$134,854.77 Antenna TFU-30GTH	complex, broadband, at antenna input, per 6 1/8. feedline (if	\$13,700.00	\$12,768.00	N/A	\$6,041.20	N/A
Antenna TFU-30GTH	brackets for high power antennas (if not included in antenna	\$23,150.00	\$19,520.00	N/A	\$10,736.00	N/A
	Antenna TFU-30GTH	\$328,082.00	\$265,863.00		\$134,854.77	

UHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or	\$289,500.00	\$227,143.00	N/A	\$113,558.77	N/A
circularly polarized					
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,520.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$12,768.00	JEHQ1278- 01	\$7,022.40	N/A
Top Plate Adapter	\$19,552.00	\$19,552.00	N/A	\$10,753.60	N/A
Sub-total	\$682,862.00	\$590,577.00	N/A	\$245,159.47	N/A
Total for all systems	\$6,308,683.95	\$5,818,195.14	N/A	\$3,091,394.37	N/A

Actual Information Description	File Name
Splitter	Information not provided.

Component Description: Amount:	UHF-LOW POWER SIDE MOUNT \$40,912.50
Component Description: Amount:	UHF-Low Power Side Mount \$49,095.00
Component Description:	WITN-280-Interim Antenna - Sweep
Amount:	Test \$1,600.00
Component Description: Amount:	Sweep Test Interim Antenna \$1,920.00
Information not provided.	
Component Description: Amount:	Elbow Complex Interim Antenna \$3,295.20
Component Description:	WITN-280-Interim Antenna - Elbow Complex, 6 1/8"
	Amount: Component Description: Amount: Component Description: Amount: Information not provided. Component Description: Amount:

Amount: Component Description: Side Maracket Anten Amount: S5,856 UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized Component Description: Component Description: UHF-H POWE MOUN 1000k Amount: Component Description: UHF-F Top M Amount: Sweep test of existing antenna Component Description: WITN-Prima	WITN-280-Interim Antenna - Side	
Bracket Anten Amount: \$5,856 Component Description: UHF-her power Top Mount (200-1000 kW), One station antenna, elliptically por circularly polarized Component Description: UHF-her mount: \$51,65 Component Description: UHF-her Top Meanument Amount: \$61,94 Component Description: WITN-prima	unt Brackets 380.00	
Amount: \$5,856 UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized Component Description: UHF-H MOUN 1000k Amount: \$51,66 Component Description: UHF-H Top M Amount: \$61,94	e Mount ckets Interim	
Mount (200-1000 kW), One station antenna , elliptically or circularly polarized Component Description: Component Description: UHF-H POWE MOUN 1000k Amount: Component Description: UHF-H Top M Amount: Sweep test of existing antenna Component Description: WITN-Prima	enna 856.00	
Amount: Component Description: Herein Amount: Component Description: WITN-Prima	F-HIGH WER TOP	
Component Description: UHF-I- Top M Amount: \$61,94 Sweep test of existing antenna Component Description: WITN- Prima	UNT (200- 0KW)	
Amount: Sweep test of existing antenna Component Description: WITN-Prima	,617.62	
Amount: \$61,94 Sweep test of existing antenna Component Description: WITN-Prima	F-High Power	
Prima	,941.15	
Component Description: WITN- Prima		
- Swee	N-210- nary Antenna	
	veep Test 600.00	
Component Description: Sweep	eep Test New	
	nary Antenna 920.00	

Component Description:	WITN-210- Primary Antenna - Elbow Complex 6 1/8"
Amount:	\$3,192.00
Component Description:	New Primary Antenna Elbow
Amount:	Complex \$3,830.40
Component Description:	WITN-210- Primary Antenna - Top Plate Adapter
Amount:	\$4,888.00
Component Description:	New Primary
Amount:	Antenna Top Plate \$5,865.60
	Amount: Component Description: Amount: Component Description:

Cost Information

Transmission Line

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

			Estimated		
Description	Predetermined Cost Estimate	Estimated Cost	Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$405,304.00	\$275,216.00		\$141,323.14	
Rigid Transmission Line - copper, 6 1 /8" broadband	\$405,304.00	\$275,216.00	N/A	\$141,323.14	N/A
Primary Transmission Line	\$9,200.00	\$9,200.00		\$0.00	
Sweep Test Adapter Rental	\$2,800.00	\$2,800.00	See vendor invoice.	\$0.00	N/A
Sweep Test	\$6,400.00	\$6,400.00	N/A	N/A	N/A
Sub-total	\$414,504.00	\$284,416.00	N/A	\$141,323.14	N/A
Total for all systems	\$6,308,683.95	\$5,818,195.14	N/A	\$3,091,394.37	N/A

Actual Information	
Description	File Name

Rigid Transmission Line -		
copper, 6 1/8" broadband	Component Description:	WITN-380-Interim
		Transmission Line
		- Rigid Copper,
		Broadband, 6 1/8"
	Amount:	\$64,237.78
	O	
	Component Description:	Interim
	A	Transmission Line
	Amount:	\$77,085.36
Sweep Test Adapter Rental		
	Component Description:	Transmitter Tuning
	Amount:	\$2,800.00
Sweep Test	Information not provided.	

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 GTOWER	\$1,503,550.00	\$1,253,071.69		\$787,326.99	
Serious tower reinforcement /modifications	\$1,052,000.00	\$750,000.00	N/A	\$637,390.00	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$469,121.69	Complex tower - Stacked Antennas. Catalog Cost; GTI America Inc., Quote #Q17-06- 012b	\$117,186.99	N/A
Tower Mapping	\$17,950.00	\$17,950.00	See attached quote from Turris Engineering Inc.	\$17,950.00	N/A
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	N/A
Sub-total	\$1,503,550.00	\$1,253,071.69	N/A	\$787,326.99	N/A
Total for all systems	\$6,308,683.95	\$5,818,195.14	N/A	\$3,091,394.37	N/A

Actual Information Description	File Name	
Serious tower reinforcement /modifications	Component Description: Amount:	Tower Reinforcing Project \$392,240.00
	Component Description:	25% Down payment Due Upon acceptance
	Amount:	of order \$245,150.00
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Component Description: Amount:	Dates completed 6 /22 and 6/23/19 \$4,900.00
	Component Description:	Remove existing top mounted Ch 32 TFU30 antenna
	Amount:	\$112,286.99
Tower Mapping	Component Description: Amount:	Equipment mapping \$8,975.00
	Component Description: Amount:	Equipment mapping \$8,975.00

Structural engineering tower load study for well documented tower

Component Description: Specific Wind

Study & Structural Re-Analysis and

Report

Amount: \$6,000.00

Component Description: Tower Structural

Analysis Report for load case specified

Amount: \$8,800.00

Cost Information

Outside Professional Services

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

	Predetermined	Estimated	Estimated Cost		Actual Cost
Description	Cost Estimate	Cost	Justification	Actual Cost	Justification
Outside Professional Services	\$178,082.00	\$168,712.00		\$69,215.95	
Attorney Fees - Other Matters	\$962.00	\$962.00	Please see attachment WITN-TV Justification Attorney Fees - Other Matters COMB	\$962.00	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
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$2,412.50	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

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 and or review reimbursement form	\$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
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	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 request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A

FAA consultant,	\$2,105.00	\$2,000.00	N/A	N/A	N/A
including cost					
of preparing					
FAA Form					
7460 (Notice					
of Proposed					
Construction),					
if needed for					
height increase					
Project	\$142,200.00	\$135,000.00	N/A	\$64,378.95	N/A
management					
of the transition					
Sub-total	\$178,082.00	\$168,712.00	N/A	\$69,215.95	N/A
Total for all systems	\$6,308,683.95	\$5,818,195.14	N/A	\$3,091,394.37	N/A

Components

Actual Information Description	File Name	
Attorney Fees - Other Matters	Component Description: Amount:	Review linked set for WITN \$962.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	

Perform engineering study for new channel assignment and antenna development

Component Description: Discuss top-mount

antenna size, gain and required TPO.

Amount: \$625.00

Component Description: RF Engineering

Consulting \$125.00

Component Description: Perform

Amount:

Amount:

engineering study for new channel assignment

Amount: \$1,287.50

Component Description: Respond to query

re: repack Ch-34 non-maximized ERP and

corresponding

TPO. \$125.00

Component Description: Review antenna

manufacturer's alternative proposal re: topmount antenna, due to structural

loading

Amount: \$250.00

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application

Component Description: review proposal for

interim antenna and develop final

ERP and

parameters for CP

application

Amount: \$1,462.50

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	
Prepare request for Special Temporary Authorization	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
ASR modification (prepare FCC Form 854)	Information not provided.	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
Project management of the transition		
	Component Description:	Project Management
	Amount:	\$1,946.50
	Component Description:	Project Management
	Amount:	\$2,728.40
	Component Description: Amount:	Project Management \$2,386.15

Component Description: Pr

Project Management

Amount:

\$1,726.65

Component Description:

Project

Amount:

Management \$3,493.45

Component Description:

Project

Amount:

Management \$3,071.30

Component Description: Project

Management

Amount:

\$2,084.35

Component Description:

Project

Management

Amount: \$2,

\$2,607.10

Component Description:

Project

management

Amount:

\$2,667.65

Component Description:

Project

Amount:

Management \$1,660.60

Component Description:

Project Management

Amount:

\$3,943.80

Component Description:

Project

Amount:

Management

\$2,244.80

Component Description: Project

management of the

transition

Amount:

\$600.00

Component Description:

Project Management

Amount:

\$1,913.90

Component Description:

Project Management

Amount:

\$2,377.30

Component Description:

Project Management

Amount:

\$3,155.65

Component Description:

Project

Amount:

Management \$770.80

Component Description: Project

management

Amount: \$2,561.90

Component Description:

Project Management

Amount:

\$2,375.10

Component Description: Project

Management

Amount: \$1,706.25

Component Description: Project

Management

Amount: \$2,624.20

Component Description: Project

management

Amount:

\$1,328.55

Component Description:

Project

Management

Amount:

\$802.25

Component Description:

Project

Amount:

Management \$2,478.20

Project

Component Description:

management

Amount:

\$3,276.45

Component Description:

Project

Management \$1,101.45

Amount:

Project

Component Description:

Management

Amount:

\$1,899.15

Component Description:

Project

Amount:

\$28.20

Management

Component Description:

Project Management

Amount:

\$2,585.70

Component Description:

Project Management

Amount:

\$2,233.15

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	\$107,780.00	\$99,512.50		\$2,000.00	
DTV Medical Facility Notification	\$11,550.00	\$3,297.50	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	\$190.00	N/A	N/A	N/A
Non-zoning permits	\$11,000.00	\$11,000.00	N/A	N/A	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
Equipment Delivery and Handling Charges	\$15,000.00	\$15,000.00	N/A	\$0.00	N/A
Equipment Storage	\$12,000.00	\$12,000.00	N/A	N/A	N/A

Develop and air announcement of upcoming channel change	\$10,000.00	\$10,000.00	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
Security	\$12,000.00	\$12,000.00	N/A	N/A	N/A
Sub-total	\$107,780.00	\$99,512.50	N/A	\$2,000.00	N/A
Total for all systems	\$6,308,683.95	\$5,818,195.14	N/A	\$3,091,394.37	N/A

Components

Actual Information Description	File Name
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	Information not provided.
Non-zoning permits	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.
Equipment Storage	Information not provided.
Develop and air announcement of upcoming channel change	Information not provided.

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

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$6,308,683.95	\$5,818,195.14	\$3,091,394.37

Reimbursem	entestatus	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

08/26/2019

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

08/26/2019

Attachments