

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility 30833 Service: DTV Call WWBT Channel:

Sign:

10 (High VHF)

ID:

0000024806

Number:

File

FRN: 0018223693

11/30

Submitted: /2020

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC Doing Business As: WWBT	4370 PEACHTREE ROAD, NE ATLANTA, GA 30319 United States	+1 (804) 230-1212	allfcclms@gray. tv	Limited Liability Company

Reimbursement Contact Name and Information

Contact Information

Applicant Address Phone Email

[Confidential]

Preparer Contact Information

Preparer Contact Name and Information

Applicant Address Phone Email

The Preparer is same as the reimbursement contact.

Broadcaster Information and Transition Question Response

Plan

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	Install side mount interim antenna, connect to existing transmission line Install new top mount Channel 10 antenna and new tx line Install new main and backup transmitters.

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

Auxiliary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Emergency Backup
	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	HTEL
	Year	2010
	Туре	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1.1 kW

Auxiliary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	VAXTE- 8R44
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	6.4 kW
	Justification for New Transmitter	Please see GatesAir quote Q- 73886

Auxiliary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A

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

Auxiliary

Other Transmitter Cost Not Listed

Transmitter Information not provided.

Auxiliary Transmitter

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Alternate Main
	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	TTS-30
	Year	2005
	Туре	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	2.6 kW

Auxiliary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	VAXTE- 6R44
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	4.8 kW
	Justification for New Transmitter	Existing transmitter can not be efficiently and effectively retuned. Station will buy 1 new transmitter to replace one main and one aux.

Auxiliary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA

	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
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

Auxiliary

Other Transmitter Cost Not Listed

Transmitter Information not provided.

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	TTS30
	Year	2005
	Туре	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	2.6 kW

Primary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	VAXTE- 8R37
	Transmitter Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power capacity	6.4 kW
	Justification for New Transmitter	Existing transmitter can not be efficiently and effectively retuned. Station will buy 1 new transmitter to replace one main and one aux.

Primary Transmitter

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
		'

	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Heating and Cooling
	Size	10 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Internal Transmission Line Installation	internal line required due to repack

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	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Туре	Other
	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	Traveling Wave
	ERP: (Effective Radiated Power)	26.0 kW

Manufacturer	
Model	DIELECTRIC TW-12B12-R
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)	26.0 kW
	Manufacturer	

Model	THV-10A10
	/VP-R 04
	/ ۷ ۲ - 1
Year	2019
Justification for New Antenna	Existing
	antenna is
	not re-
	tunable
	Quote
	attached E-
	Pol premium
	is not
	reimbursable
	Estimated
	tax and
	shipping
	included in
	cost

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	
	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	3 1/8 inches inches

Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Other Antenna Cost Not Listed

Name	Description
Primary Antenna Mounting Adapter	Primary Antenna Mounting Adapter

Interim Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	Yes
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna	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)	26.0 kW
	Manufacturer	
	Model	TLSV-V4- BB
	Year	2019

Interim
during main
antenna
change

Interim Antenna

Other Antenna Costs

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

Interim Antenna

Other Antenna Cost Not Listed

Information not provided.

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

Existing Transmission Line

Primary Transmission_S 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	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	850 feet per run

New Transmission Line

Primary
Transmission_s
Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Туре	Rigid
	Diameter	4 1/16 inches
	Other Diameter	N/A
	Segment Length	19 1/2 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	820 feet per run
	Justification for New Transmission Line	Existing line is not specified for new channel Replacing 6" with 4 1 /16"

Other Transmission Line Expenses Not Listed

Primary
Transmission not provided.

Line

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	No
Existing Tower Structure	Do you have a tower registration number?	Yes
Registration	ASR Number	1015246
Coordinates (NAD83 (North American Datum of	Latitude (NAD83)	37° 30' 23.0" N-
1983))	Longitude (NAD83)	077° 30' 11.0" W-
	Overall Structure Height	791.99 fee
	Support Structure Height	716.85 fee
	Ground Elevation Above Mean Sea Level (AMSL)	210.96 fee

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	WWBT, Inc.
Date Constructed	04/01/1956

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:	Minor Reinforcements needed

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	Yes

Primary Tower

Other Tower Expenses Not Listed

Information not provided.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	895
	Explanation	Pattern analysis Antenna Spec Transmitter Spec Building drawings Installation Supervision Accounting Internal Legal 399 Preparation
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A

Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
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	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	Yes
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Other Professional Services Expenses Not Listed

Outside
Professional Information not provided.
Services
Costs

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	No
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 Not Listed

Expenses Information not provided.

Cost Information

Transmitters

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter VAXTE-8R37	\$432,554.27	\$321,198.42		\$211,812.05	
Internal Transmission Line Installation	\$2,250.00	\$2,250.00	Please see WWBT Primary Transmitter - Other Expenses - Internal Transmission Line Installation Budget Revision Justification Letter	\$2,250.00	N/A
High VHF - Air Cooled Solid State Transmitter 4.8 kW	\$16,399.76	\$16,399.76	***System Notice: Estimate adjusted and locked because line has been superseded. ***Per Gatesair quote GA- 00021476	\$16,399.76	N/A

High VHF - Air Cooled Solid State Transmitter 1.1 . 4.4 kW	\$152,500.00	\$24,599.65	***System Notice: Estimate adjusted and locked because line has been superseded. ***Quote attached Headroom analysis attached	\$24,599.65	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
High VHF - Air Cooled Solid State Transmitter 6.4 kW	\$137,154.51	\$137,154.51	Please see attached GatesAir Quotes Q-81028 and GA-00021668 and Change Order Q-86287, plus actual shipping on invoice US0334829 (\$178,153.92), less the amount already reimbursed on two locked and superseded categories (\$40,999.41)	\$128,592.14	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	N/A

10 Ton system	\$60,500.00	\$80,194.50	see Estimated Cost Justification WWBT-110-	\$39,970.50	N/.
			1st Primary Transmitter - HVAC v0		
Auxiliary Transmitter VAXTE-8R44	\$253,342.62	\$113,088.23		\$85,505.95	
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$10,000.00	N/A	N/A	N/A
High VHF - Air Cooled Solid State Transmitter 6.4 kW	\$37,092.62	\$37,092.62	Please see attached GatesAir Quotes GA-00021684 and Q-73886 and Change Order Q-75542 (\$96,088.23), less the amount already reimbursed on locked and superseded category (\$58,995.61).	\$26,510.34	N//
Switchgear - industrial 800 amp	\$38,200.00	\$7,000.00	N/A	N/A	N//
High VHF - Air Cooled Solid State Transmitter 1.1 . 4.4 kW	\$152,500.00	\$58,995.61	***System Notice: Estimate adjusted and locked because line has been superseded. ***Quote attached	\$58,995.61	N/

Auxiliary Transmitter VAXTE-6R44	\$63,750.00	\$0.00		\$0.00	
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$0.00	Not required	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$0.00	Not required	N/A	N/A
High VHF - Air Cooled Solid State Transmitter 4.8 kW	\$0.00	\$0.00	Station is installing one main to replace existing main and 1 aux	N/A	N/A
Sub-total	\$749,646.89	\$434,286.65	N/A	\$297,318.00	N/A
Total for all systems	\$2,103,886.72	\$1,882,437.77	N/A	\$1,399,643.77	N/A

Components

Actual Information Description	File Name	
Internal Transmission Line Installation	Component Description: Amount:	WWBT-110-1st Primary Transmitter - Internal Transmission Line \$2,250.00
High VHF - Air Cooled Solid State Transmitter 4.8 kW	Component Description: Amount:	VAXTE-6 \$16,399.76
High VHF - Air Cooled Solid State Transmitter 1.1 . 4.4 kW	Component Description: Amount:	VAXTE-6 \$24,599.65

Switchgear - industrial 800 amp	Information not provided.	
High VHF - Air Cooled Solid State Transmitter 6.4 kW	Component Description: Amount:	VAXTE-6R37 \$29,611.30
	Allouit.	Ψ20,011.00
	Component Description:	VAXTE-6R37
	Amount:	\$17,358.67
	Component Description:	A. Transmitter
	Amount:	\$81,622.17
Transformer 3 phase/480v - 150 KVA	Information not provided.	
10 Ton system	Component Description	Credit Memo
	Component Description: Amount:	(\$39,970.50)
	Component Description:	Invoice Non
	Amount:	Reimburseable N/A
	Component Description:	Base Contract
		Amount Install (2) Carrier 10 TON
	Amount:	\$51,962.00
	Component Description:	INSTALL (2)
		CARRIER 10 TON PACKAGE A/C UNITS
	Amount:	\$27,979.00
Transformer 3 phase/480v -	Information not provided.	

High VHF - Air Cooled Solid State Transmitter 6.4 kW	Component Description: Amount:	VAXTE-2 \$13,019.23
	Component Description: Amount:	VAXTE-2 \$13,491.11
Switchgear - industrial 800 amp	Information not provided.	
High VHF - Air Cooled Solid State Transmitter 1.1 . 4.4 kW	Component Description: Amount:	VAXTE-2 Transmitter \$11,427.91
	Component Description: Amount:	VAXTE-2 per quote GA- 00021476 \$7,618.61
	Component Description: Amount:	A. Transmitter \$39,949.09
Transformer 3 phase/480v - 150 KVA	Information not provided.	
Switchgear - industrial 800 amp	Information not provided.	
High VHF - Air Cooled Solid State Transmitter 4.8 kW	Information not provided.	

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 TLSV-V4- BB	\$65,321.00	\$65,321.00		\$5,832.34	
High VHF - High Power Side Mount One Station horizontally polarized	\$65,321.00	\$65,321.00	Quote attached Estimated tax and shipping included	\$5,832.34	N/A
Primary Antenna THV-10A10 /VP-R 04	\$311,842.00	\$310,497.00		\$272,807.32	
Primary Antenna Mounting Adapter	\$20,175.00	\$20,175.00	Please see Dielectric Order Confirmation 82001	\$20,175.00	N/A
Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)	\$7,600.00	\$6,585.00	Please see Dielectric Order Confirmation 82001	\$6,585.00	N/A

High VHF - High Power Top Mount One Station elliptically or circularly polarized	\$277,337.00	\$277,337.00	Quote attached Estimated tax and shipping included in cost V-Pol premium not included in cost	\$239,647.32	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Please see Dielectric Order Confirmation 82001	\$6,400.00	N/A
Sub-total	\$377,163.00	\$375,818.00	N/A	\$278,639.66	N/A
Total for all systems	\$2,103,886.72	\$1,882,437.77	N/A	\$1,399,643.77	N/A

Actual Information Description	File Name	
High VHF - High Power Side Mount One Station horizontally polarized	Component Description: Amount:	Interim antenna \$5,832.34
Primary Antenna Mounting Adapter	Component Description:	WWBT-210-Primary Antenna - Mounting Adapter
	Amount:	\$10,087.50
	Component Description:	WWBT-210-Primary Antenna - Mounting
	Amount:	Adapter \$10,087.50

Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)

Component Description: WWBT-210-Primary

Antenna - Elbow

Complex

Amount: \$1,646.25

Component Description: WWBT-210-Primary

Antenna - Elbow

Complex

Amount: \$3,292.50

Component Description: WWBT-210-Primary

Antenna - Elbow

Complex

Amount: \$1,646.25

High VHF - High Power Top Mount One Station elliptically or circularly polarized

Component Description: RIGID

TRANSMISSION

LINE - COPPER

Amount: \$34,110.09

Component Description: HIGH-VHF One

station antenna

Amount: \$60,045.00

Component Description: Primary antenna

Amount: \$25,402.23

Component Description: HIGH-VHF 10A10

/VP-R 04 CH10 WWBT ONE STATION, TOP

MOUNT

Amount: \$120,090.00

Sweep test of existing antenna

Component Description: Sweep Test Amount:

\$640.00

Component Description: WWBT-210-Primary

Antenna - Sweep

Test

Amount: \$3,200.00

Component Description: WWBT-210-Primary

Antenna - Sweep

Test

Amount: \$1,600.00

Component Description: OTHER WWBT -

> **INCLUDES ONE** FIELD ENGINEER

\$960.00 Amount:

Cost Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$116,440.00	\$92,073.22		\$92,073.22	
Rigid Transmission Line - copper, 4 1 /16"	\$116,440.00	\$92,073.22	See Estimated Cost Justification WWBT-310- Primary Transmission Line - Rigid, Copper V1	\$92,073.22	N/A
Sub-total	\$116,440.00	\$92,073.22	N/A	\$92,073.22	N/A
Total for all systems	\$2,103,886.72	\$1,882,437.77	N/A	\$1,399,643.77	N/A

Actual Information Description	File Name	
Rigid Transmission Line - copper, 4 1/16"	Component Description: Amount:	WWBT-310- Primary Transmission Line - Rigid, Copper, 4 1 /16" \$13,190.31
	Component Description: Amount:	WWBT-310- Primary Transmission Line - Rigid, Copper, 4 1 /16" \$42,751.12

Component Description: MODIFY SECTION

OF 6 1/8

UNIVERSAL EA

OUTER

CONDUCTOR BY ADDING 6 1/8 EIA

FLANGE

Amount: \$750.00

Component Description:

Amount:

Reducer 4-50

\$4,549.73

Component Description: Primary

Transmission Line

Components

Amount: \$8,464.50

Component Description: REDUCER 4-50

EIA X 3-50 EIA

STD "QS"

Amount: \$992.00

Component Description: WWBT-310-

Primary

Transmission Line
- Rigid, Copper, 4 1

/16"

Amount: \$21,375.56

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$524,850.00	\$654,908.07		\$570,745.57	
Tower Helicopter Lift	<i>\$143,750.00</i>	\$143,750.00	Please see WWBT Tower King Proposal C19_008	\$143,750.00	N/A
Minor tower reinforcement /modifications	\$158,000.00	\$150,000.00	N/A	\$65,837.50	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$16,525.00	See WWBT-410- Existing Primary Tower - Tower Load Study Estimated Cost Justification v0	\$16,525.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$344,633.07	see Estimated Cost Justification WWBT-410- Existing Primary Tower - Tower Rigging, Tall Tower V2	\$344,633.07	N/A
Sub-total	\$524,850.00	\$654,908.07	N/A	\$570,745.57	N/A

Total for all	\$2,103,886.72	\$1,882,437.77	N/A	\$1,399,643.77	N/A
systems					

Actual Information Description	File Name	
Tower Helicopter Lift		
	Component Description:	WWBT-410- Existing Primary Tower - Helicopter Lift
	Amount:	\$32,158.84
	Component Description:	WWBT-410- Existing Primary Tower - Helicopter Lift
	Amount:	\$111,591.16

/modifications		
	Component Description: Amount:	TOWER SERVICE \$39,000.00
	Component Description:	In-depth Physical Inspection
	Amount:	\$5,500.00
	Component Description:	Re: 20-0087 722 ft 8.25 ft-face Guyed material for Tower
	Amount:	Modification \$13,850.00
	Component Description:	"Re:19-0145
	Component Description.	WWBT's 722 ft. Guyed Tower (Engineering Support During Construction)
	Amount:	Richmond, VA" \$7,487.50
Structural engineering tower		
load study for well documented tower	Component Description:	Tower Structural Analysis on WWBT tower
	Amount:	\$7,400.00
	Component Description:	WWBT-410- Existing Primary Tower - Tower
	Amount:	Load Study \$625.00
	Amount: Component Description:	•

Tall Tower (greater than 500')

Component Description: TOWER SERVICE

Amount: \$235,408.84

Component Description: WWBT-410-

Existing Primary
Tower - Tower

Rigging, Tall Tower

Amount: \$2,383.07

Component Description: WWBT-410-

Existing Primary
Tower - Tower

Rigging, Tall Tower

Amount: \$39,000.00

Component Description: Tower Service **Amount:** \$67,841.16

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$251,060.00	\$248,425.00		\$108,185.49	
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	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	\$332.00	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
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A

Sub-total	\$251,060.00	\$248,425.00	Quote N/A	\$108,185.49	N/A
Project management of the transition	\$141,410.00	\$144,675.00	Widelity Strategic Support	\$101,928.49	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$3,175.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,750.00	N/A
engineering section of FCC Form 2100 (main), License to Cover Application					

Actual Information Description	File Name
Comprehensive coverage verification via field study, if needed	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:	For Professional Services Rendered \$332.00
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	FCC Form 2100 Construction Permit Application \$2,750.00

Perform engineering study for new channel assignment and antenna development

Component Description: Consulting

Engineer

Amount: \$150.00

Component Description: WWBT-530-RF

Eng - Engineering Study for New

Channel Assignment

Amount: \$2,400.00

Component Description: Engineering study

work for new channel

assignment and

antenna development.

Amount: \$500.00

Component Description: Engineering study

work for new channel

assignment and

antenna development.

Amount: \$125.00

Project management of the transition

Component Description:

Amount:

Travel

\$84.70

Component Description: Project

Management

Amount: \$14,307.40

Component Description: Project

Management

Amount: \$205.32

Component Description: Project

Amount: Management \$4,604.55

Component Description: Project

Project

Amount: Management \$3,103.15

Component Description:

Project

Management \$2,727.15

Amount:

Project

Management

Amount:

Amount:

Amount:

Amount:

\$3,015.35

Component Description:

Component Description:

Project

Management

\$192.49

Component Description:

Project

Management

\$2,071.95

Component Description:

Project

Management

\$177.10

Component Description:

Project

Amount:

Management

\$2,675.65

Component Description:

Project

Amount:

management

\$5,616.00

Component Description:

Amount:

Project

Management \$500.50

Component Description:

Project

Amount:

management \$2,492.75

Component Description:

Project

Management

\$4,003.70

Component Description:

Project

Amount:

Amount:

Management \$3,401.30

Component Description:

Project

Management

Amount:

\$297.74

Component Description:

Project

Management

Amount:

\$2,615.15

Component Description:

Project

Management

Amount:

\$3,422.50

Component Description:

Project

Amount:

Management \$38.50

Component Description:

Repack

Amount:

Engineering \$1,339.50

Component Description:

Amount:

Project

Management

\$770.00

Component Description:

Project

Amount:

Management \$3,449.95

Component Description:

Project

Amount:

Management \$28.23

Component Description:

Project

Amount:

Management \$2,355.85

Component Description:

Project

Management

Amount:

\$2,835.90

Component Description:

Project

Amount:

Management \$2,045.45

Component Description:

Project

Amount:

Management \$3,962.65

Component Description:

Project

Amount:

Management

\$2,785.75

Component Description:

Project

Amount:

Management

\$2,909.80

Component Description: Project

Management

Amount:

\$2,247.20

Component Description: Project

Management

Amount: \$6,979.30

Component Description: Project

Management

Amount: \$8,961.60

Component Description: Project

Management

Amount: \$2,264.95

Component Description: Project

Management

Amount: \$3,298.25

Component Description: Project

Management

Amount: \$141.16

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 Cos
Other Expenses	\$84,726.83	\$76,926.83		\$52,681.83	
Equipment Delivery and Handling Charges	\$36,662.80	\$36,662.80	see Estimated Cost Justification WWBT-610- Equipment Delivery and Handling v2	\$36,662.80	N/A
MVPD Notification of Channel Change	<i>\$2,065.70</i>	\$2,065.70	see Estimated Cost Justification WWBT-610- MVPD Notification v0	\$2,065.70	N/A
Develop and air announcement of upcoming channel change	<i>\$2,850.00</i>	\$2,850.00	estimate for on air rescan announcement production Quote attached	N/A	N/A
Equipment Storage	\$30,500.00	\$30,500.00	Estimate for Dielectric on site antenna storage Dielectric letter attached	\$9,430.00	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$335.00	Please see WWBT Filing Fees- License to Cover Budget Justification Cover Letter	\$335.00	N/A

<i>\$763.33</i>	\$763.33	Please see	\$438.33	N/A
		Estimated		
		Cost		
		Justification		
		WWBT-610-		
		Disposal v0		
\$11,550.00	\$3,750.00	Group quote	\$3,750.00	N/A
		attached		
\$84,726.83	\$76,926.83	N/A	\$52,681.83	N/A
\$2,103,886.72	\$1,882,437.77	N/A	\$1,399,643.77	N/A
	\$11,550.00 \$84,726.83	\$11,550.00 \$3,750.00 \$84,726.83 \$76,926.83	Estimated Cost Justification WWBT-610- Disposal v0 \$11,550.00 \$3,750.00 Group quote attached \$84,726.83 \$76,926.83 N/A	Estimated Cost Justification WWBT-610- Disposal v0 \$11,550.00 \$3,750.00 Group quote attached \$84,726.83 \$76,926.83 N/A \$52,681.83

•		
Actual Information Description	File Name	
Equipment Delivery and Handling Charges	Component Description:	WWBT-610- Equipment Delivery and Handling
	Amount: Component Description:	\$2,383.08 Freight and Shipping
	Amount:	\$2,043.18
	Component Description: Amount:	FREIGHT AND SHIPPING \$921.98
	Component Description: Amount:	Freight and shipping \$594.77
	Component Description: Amount:	10k 55' Shooting Boom Forklift \$6,636.78

Component Description: CHESTERFIELD

SHORT TERM
RENTAL TAX

Amount: \$1,876.03

Component Description: FREIGHT AND

SHIPPING

Amount: \$9,812.07

Component Description: Shooting Boom

Forklift

Amount: \$4,679.14

Component Description: 6k-7k 42' Shooting

Boom Forklift

Amount: \$1,857.58

Component Description: 10K 55' SHOOTING

BOOM FORKLIFT

Amount: \$5,858.19

MVPD Notification of Channel Change

Component Description: Total Professional

Services

Amount: \$2,065.70

Develop and air announcement of

upcoming channel change

Information not provided.

Equipment Storage

Component Description: WWBT-610-

Equipment Storage

Amount: \$9,430.00

FCC Filing Fees - Form 2100 license to cover application	Component Description:	WWBT-610-FCC Filing Fees - License to Cover
	Amount:	\$335.00
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: Amount:	Delivery 20 CYD \$100.00
	Component Description: Amount:	Rent CY20 \$338.33
DTV Medical Facility Notification	Component Description: Amount:	Medical Notification \$3,750.00

Cost Information

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$2,103,886.72	\$1,882,437.77	\$1,399,643.77

Reimburseme Status

entestion	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 J. Folliard , III

Assistant Secretary

11/30/2020

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 J. Folliard , III

Assistant Secretary

11/30/2020

Attachments