



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **30833** | Service: **DTV** | Call **WWBT** | Channel:  
ID: | Sign:  
**10 (High VHF)** | File **0000024806**  
Number:  
FRN: **0018223693** | Date **10/07**  
Submitted: **/2020**

## Applicant Information

### Applicant Name, Type, and Contact Information

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

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Information

### Preparer Contact Name and Information

Applicant	Address	Phone	Email
The Preparer is same as the reimbursement contact.			

## Broadcaster Information and Transition Plan

Question	Response
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<p>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.</p>	<p>No</p>
<p>Briefly describe transition plan</p>	<p>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.</p>

**Transmitters**

Section	Question	Response
<p><b>Transmitter Related Expenses</b></p>	<p>Do you have transmitter related expenses?</p>	<p>Yes</p>

**Auxiliary  
Transmitter****Add Transmitter Information**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	HTEL
	Year	2010
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	1.1 kW

**Auxiliary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	Use	Auxiliary (Backup)
	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	Transmitter can not be retuned Manufacturers letter attached

**Auxiliary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
<b>Electrical Service</b>	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
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No

	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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 Transmitter** **Other Transmitter Cost Not Listed**  
Information not provided.

**Auxiliary  
Transmitter****Add Transmitter Information**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	TTS-30
	Year	2005
	Type	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	2.6 kW

**Auxiliary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
<b>New Transmitter</b>	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
<b>Electrical Service</b>	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
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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 Transmitter** **Other Transmitter Cost Not Listed**  
Information not provided.



**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	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
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	TTS30
	Year	2005
	Type	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
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	Yes
	Type	Heating and Cooling
	Size	10 tons
	Other Size	N/A
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
<b>Channel 14 Costs</b>	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

**Primary  
Antenna**

**Existing Antenna Information**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<b>Existing Antenna Description</b>	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
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	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

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Manufacturer	
Model	DIELECTRIC TW-12B12-R
Year	2005

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**Primary  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	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
<b>New Antenna Manufacturer and Types</b>	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/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
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

**Primary Antenna**

**Other Antenna Costs**

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
<b>Elbow Complex</b>	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



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

**Primary Antenna**

**Other Antenna Cost Not Listed**

<b>Name</b>	<b>Description</b>
<b>Primary Antenna Mounting Adapter</b>	Primary Antenna Mounting Adapter

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	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
<b>New Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	26.0 kW
	Manufacturer	
	Model	TLSV-V4- BB
Year	2019	

Justification for New Antenna

Interim  
during main  
antenna  
change

**Interim  
Antenna**

**Other Antenna Costs**

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

**Interim  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Transmission  
Line**

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

**Primary  
Transmission  
Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	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
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	850 feet per run

**Primary  
Transmission  
Line**      **New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	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"

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

Information not provided.

**Tower Equipment And Rigging Costs**

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

**Primary Tower**

**Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	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 Registration	Do you have a tower registration number?	Yes
	ASR Number	1015246
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	37° 30' 23.0" N-
	Longitude (NAD83)	077° 30' 11.0" W-
	Overall Structure Height	791.99 feet
	Support Structure Height	716.85 feet
	Ground Elevation Above Mean Sea Level (AMSL)	210.96 feet

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
<b>Outside Project Management Services</b>	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
<b>Outside RF consulting Engineering Services</b>	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	

<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	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	
<b>RF Field Engineering Services</b>	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  
Services  
Costs**

Information not provided.

**Other Expenses**

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	No
	Is Remediation needed?	No
<b>Facility Expenses</b>	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
<b>Permit and Filing Costs</b>	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
<b>Other Miscellaneous Expenses</b>	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	No
	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**

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
<b>Primary Transmitter VAXTE-8R37</b>	<b>\$432,554.27</b>	<b>\$321,198.42</b>		<b>\$211,812.05</b>	
Internal Transmission Line Installation	<i>\$2,250.00</i>	\$2,250.00	Please see WWBT Primary Transmitter - Other Expenses - Internal Transmission Line Installation Budget Revision Justification Letter	\$2,250.00	N/A
10 Ton system	\$60,500.00	\$80,194.50	see Estimated Cost Justification WWBT-110-1st Primary Transmitter - HVAC v0	\$39,970.50	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$24,300.00	N/A	N/A	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	<b><i>\$137,154.51</i></b>	\$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
High VHF - Air Cooled Solid State Transmitter 4.8 kW	<b><i>\$16,399.76</i></b>	\$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

<b>Auxiliary Transmitter VAXTE-8R37</b>	<b>\$253,342.62</b>	<b>\$113,088.23</b>		<b>\$85,505.95</b>	
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	<b><i>\$37,092.62</i></b>	\$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/A
Switchgear - industrial 800 amp	\$38,200.00	\$7,000.00	N/A	N/A	N/A
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/A
<b>Auxiliary Transmitter VAXTE-6R44</b>	<b>\$63,750.00</b>	<b>\$0.00</b>		<b>\$0.00</b>	
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$0.00	Not required	N/A	N/A



High VHF - Air Cooled Solid State Transmitter 4.8 kW	<i>\$0.00</i>	\$0.00	Station is installing one main to replace existing main and 1 aux	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$0.00	Not required	N/A	N/A
<b>Sub-total</b>	\$749,646.89	\$434,286.65	N/A	\$297,318.00	N/A
<b>Total for all systems</b>	\$2,103,123.39	\$1,835,246.22	N/A	\$1,220,165.81	N/A

### Components

Actual Information	
Description	File Name
Internal Transmission Line Installation	<p><b>Component Description:</b> WWBT-110-1st Primary Transmitter - Internal Transmission Line</p> <p><b>Amount:</b> \$2,250.00</p>

10 Ton system	<p><b>Component Description:</b> INSTALL (2) CARRIER 10 TON PACKAGE A/C UNITS</p> <p><b>Amount:</b> \$27,979.00</p> <p><b>Component Description:</b> Credit Memo</p> <p><b>Amount:</b> (\$39,970.50)</p> <p><b>Component Description:</b> Invoice Non Reimbursable</p> <p><b>Amount:</b> N/A</p> <p><b>Component Description:</b> Base Contract Amount Install (2) Carrier 10 TON</p> <p><b>Amount:</b> \$51,962.00</p>
Transformer 3 phase/480v - 150 KVA	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
High VHF - Air Cooled Solid State Transmitter 6.4 kW	<p><b>Component Description:</b> VAXTE-6R37</p> <p><b>Amount:</b> \$29,611.30</p> <p><b>Component Description:</b> A. Transmitter</p> <p><b>Amount:</b> \$81,622.17</p> <p><b>Component Description:</b> VAXTE-6R37</p> <p><b>Amount:</b> \$17,358.67</p>
High VHF - Air Cooled Solid State Transmitter 4.8 kW	<p><b>Component Description:</b> VAXTE-6</p> <p><b>Amount:</b> \$16,399.76</p>

High VHF - Air Cooled Solid State Transmitter 1.1 . 4.4 kW	<b>Component Description:</b> VAXTE-6 <b>Amount:</b> \$24,599.65
Transformer 3 phase/480v - 150 KVA	Information not provided.
High VHF - Air Cooled Solid State Transmitter 6.4 kW	<b>Component Description:</b> VAXTE-2 <b>Amount:</b> \$13,491.11  <b>Component Description:</b> VAXTE-2 <b>Amount:</b> \$13,019.23
Switchgear - industrial 800 amp	Information not provided.
High VHF - Air Cooled Solid State Transmitter 1.1 . 4.4 kW	<b>Component Description:</b> VAXTE-2 <b>Amount:</b> \$11,427.91  <b>Component Description:</b> VAXTE-2 per quote GA- 00021476 <b>Amount:</b> \$7,618.61  <b>Component Description:</b> A. Transmitter <b>Amount:</b> \$39,949.09
Transformer 3 phase/480v - 150 KVA	Information not provided.
High VHF - Air Cooled Solid State Transmitter 4.8 kW	Information not provided.
Switchgear - industrial 800 amp	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
<b>Interim Antenna TLSV-V4-BB</b>	<b>\$65,321.00</b>	<b>\$65,321.00</b>		<b>\$5,832.34</b>	
High VHF - High Power Side Mount One Station horizontally polarized	<i>\$65,321.00</i>	\$65,321.00	Quote attached Estimated tax and shipping included	\$5,832.34	N/A
<b>Primary Antenna THV-10A10 /VP-R 04</b>	<b>\$311,842.00</b>	<b>\$310,497.00</b>		<b>\$226,323.48</b>	
High VHF - High Power Top Mount One Station elliptically or circularly polarized	<i>\$277,337.00</i>	\$277,337.00	Quote attached Estimated tax and shipping included in cost V-Pol premium not included in cost	\$205,537.23	N/A
Primary Antenna Mounting Adapter	<i>\$20,175.00</i>	\$20,175.00	Please see Dielectric Order Confirmation 82001	\$10,087.50	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	\$4,938.75	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	Please see Dielectric Order Confirmation 82001	\$5,760.00	N/A
<b>Sub-total</b>	\$377,163.00	\$375,818.00	N/A	\$232,155.82	N/A
<b>Total for all systems</b>	\$2,103,123.39	\$1,835,246.22	N/A	\$1,220,165.81	N/A

### Components

Actual Information	
Description	File Name
High VHF - High Power Side Mount One Station horizontally polarized	<b>Component Description:</b> Interim antenna <b>Amount:</b> \$5,832.34

<p>High VHF - High Power Top Mount One Station elliptically or circularly polarized</p>	<p><b>Component Description:</b> HIGH-VHF 10A10 /VP-R 04 CH10 WWBT ONE STATION, TOP MOUNT</p> <p><b>Amount:</b> \$120,090.00</p> <p><b>Component Description:</b> HIGH-VHF One station antenna</p> <p><b>Amount:</b> \$60,045.00</p> <p><b>Component Description:</b> Primary antenna</p> <p><b>Amount:</b> \$25,402.23</p>
<p>Primary Antenna Mounting Adapter</p>	<p><b>Component Description:</b> WWBT-210- Primary Antenna - Mounting Adapter</p> <p><b>Amount:</b> \$10,087.50</p>
<p>Elbow complex, single channel, at antenna input, per 3 1/8. feedline (if needed)</p>	<p><b>Component Description:</b> WWBT-210- Primary Antenna - Elbow Complex</p> <p><b>Amount:</b> \$1,646.25</p> <p><b>Component Description:</b> WWBT-210- Primary Antenna - Elbow Complex</p> <p><b>Amount:</b> \$3,292.50</p>

Sweep test of existing antenna

**Component Description:** WWBT-210-  
Primary Antenna -  
Sweep Test  
**Amount:** \$1,600.00

**Component Description:** WWBT-210-  
Primary Antenna -  
Sweep Test  
**Amount:** \$3,200.00

**Component Description:** OTHER WWBT -  
INCLUDES ONE  
FIELD ENGINEER  
**Amount:** \$960.00

**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
<b>Primary Transmission Line</b>	<b>\$116,440.00</b>	<b>\$84,645.00</b>		<b>\$78,882.91</b>	
Rigid Transmission Line - copper, 4 1/16"	\$116,440.00	\$84,645.00	N/A	\$78,882.91	N/A
<b>Sub-total</b>	<b>\$116,440.00</b>	<b>\$84,645.00</b>	<b>N/A</b>	<b>\$78,882.91</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$2,103,123.39</b>	<b>\$1,835,246.22</b>	<b>N/A</b>	<b>\$1,220,165.81</b>	<b>N/A</b>

**Components**

Actual Information Description	File Name
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Rigid Transmission Line -  
copper, 4 1/16"

**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

**Component Description:** WWBT-310-  
Primary  
Transmission Line  
- Rigid, Copper, 4 1  
/16"  
**Amount:** \$42,751.12

**Component Description:** Reducer 4-50  
**Amount:** \$4,549.73

**Component Description:** MODIFY SECTION  
OF 6 1/8  
UNIVERSAL EA  
OUTER  
CONDUCTOR BY  
ADDING 6 1/8 EIA  
FLANGE  
**Amount:** \$750.00

**Component Description:** Primary  
Transmission Line  
Components  
**Amount:** \$8,464.50

**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
<b>Primary Tower TOWER</b>	<b>\$524,850.00</b>	<b>\$615,908.07</b>		<b>\$490,362.50</b>	
Tall Tower (greater than 500')	\$210,500.00	\$305,633.07	see Estimated Cost Justification WWBT-410- Existing Primary Tower - Tower Rigging, Tall Tower v1	\$303,250.00	N/A
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	\$26,837.50	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
<b>Sub-total</b>	<b>\$524,850.00</b>	<b>\$615,908.07</b>	N/A	<b>\$490,362.50</b>	N/A

<b>Total for all systems</b>	\$2,103,123.39	\$1,835,246.22	N/A	\$1,220,165.81	N/A
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## Components

Actual Information	
Description	File Name
Tall Tower (greater than 500')	<b>Component Description:</b> TOWER SERVICE <b>Amount:</b> \$235,408.84
	<b>Component Description:</b> Tower Service <b>Amount:</b> \$67,841.16
	<b>Component Description:</b> WWBT-410-Existing Primary Tower - Helicopter Lift <b>Amount:</b> \$32,158.84
	<b>Component Description:</b> WWBT-410-Existing Primary Tower - Helicopter Lift <b>Amount:</b> \$111,591.16
Tower Helicopter Lift	

Minor tower reinforcement /modifications	<p><b>Component Description:</b> "Re:19-0145 WWBT's 722 ft. Guyed Tower (Engineering Support During Construction) Richmond, VA"</p> <p><b>Amount:</b> \$7,487.50</p>
	<p><b>Component Description:</b> Re: 20-0087 722 ft 8.25 ft-face Guyed material for Tower Modification</p> <p><b>Amount:</b> \$13,850.00</p>
	<p><b>Component Description:</b> In-depth Physical Inspection</p> <p><b>Amount:</b> \$5,500.00</p>
Structural engineering tower load study for well documented tower	<p><b>Component Description:</b> Tower Structural Analysis</p> <p><b>Amount:</b> \$8,500.00</p>
	<p><b>Component Description:</b> WWBT-410- Existing Primary Tower - Tower Load Study</p> <p><b>Amount:</b> \$625.00</p>
	<p><b>Component Description:</b> Tower Structural Analysis on WWBT tower</p> <p><b>Amount:</b> \$7,400.00</p>

**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
<b>Outside Professional Services</b>	<b>\$251,060.00</b>	<b>\$248,425.00</b>		<b>\$93,793.39</b>	
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 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
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$2,750.00	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
Project management of the transition	\$141,410.00	\$144,675.00	Widality Strategic Support Quote	\$87,536.39	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	N/A	N/A
<b>Sub-total</b>	\$251,060.00	\$248,425.00	N/A	\$93,793.39	N/A
<b>Total for all systems</b>	\$2,103,123.39	\$1,835,246.22	N/A	\$1,220,165.81	N/A

## Components

Actual Information	
Description	File Name
Comprehensive coverage verification via field study, if needed	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	<p><b>Component Description:</b> For Professional Services Rendered</p> <p><b>Amount:</b> \$332.00</p>

<p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p>	<p>Information not provided.</p>				
<p>Prepare request for Special Temporary Authorization</p>	<p>Information not provided.</p>				
<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>				
<p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p>	<table> <tr> <td data-bbox="699 555 1085 739"><b>Component Description:</b></td> <td data-bbox="1085 555 1428 739">FCC Form 2100 Construction Permit Application</td> </tr> <tr> <td data-bbox="699 739 1085 846"><b>Amount:</b></td> <td data-bbox="1085 739 1428 846">\$2,750.00</td> </tr> </table>	<b>Component Description:</b>	FCC Form 2100 Construction Permit Application	<b>Amount:</b>	\$2,750.00
<b>Component Description:</b>	FCC Form 2100 Construction Permit Application				
<b>Amount:</b>	\$2,750.00				

Perform engineering study for new channel assignment and antenna development

**Component Description:** Engineering study work for new channel assignment and antenna development.

**Amount:** \$500.00

**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:** \$125.00

Project management of the transition

**Component Description:** Project Management

**Amount:** \$8,961.60

**Component Description:** Project Management

**Amount:** \$38.50

**Component Description:** Project Management

**Amount:** \$177.10



**Component Description:** Project  
Management  
**Amount:** \$3,449.95

**Component Description:** Project  
Management  
**Amount:** \$297.74

**Component Description:** Project  
Management  
**Amount:** \$141.16

**Component Description:** Project  
Management  
**Amount:** \$192.49

**Component Description:** Project  
Management  
**Amount:** \$2,071.95

**Component Description:** Project  
Management  
**Amount:** \$205.32

**Component Description:** Project  
Management  
**Amount:** \$2,727.15

**Component Description:** Project  
Management  
**Amount:** \$3,422.50

**Component Description:** Project  
Management  
**Amount:** \$2,785.75

**Component Description:** Project  
Management  
**Amount:** \$2,264.95

**Component Description:** Project  
Management  
**Amount:** \$3,962.65

**Component Description:** Project  
Management  
**Amount:** \$2,615.15

**Component Description:** Project  
Management  
**Amount:** \$3,015.35

**Component Description:** Project  
Management  
**Amount:** \$2,247.20

**Component Description:** Project  
Management  
**Amount:** \$3,401.30

**Component Description:** Project  
Management  
**Amount:** \$770.00

**Component Description:** Project  
management  
**Amount:** \$2,492.75

**Component Description:** Project  
Management  
**Amount:** \$6,979.30

**Component Description:** Project  
Management  
**Amount:** \$28.23

**Component Description:** Project  
Management  
**Amount:** \$2,835.90

**Component Description:** Project  
Management  
**Amount:** \$2,045.45

**Component Description:** Project  
Management  
**Amount:** \$4,604.55

**Component Description:** Repack  
Engineering  
**Amount:** \$1,339.50

**Component Description:** Project  
Management  
**Amount:** \$3,103.15

**Component Description:** Project  
Management  
**Amount:** \$2,675.65

**Component Description:** Project  
Management  
**Amount:** \$4,003.70

**Component Description:** Project  
Management  
**Amount:** \$3,298.25

**Component Description:** Project management  
**Amount:** \$5,616.00

**Component Description:** Project Management  
**Amount:** \$2,909.80

**Component Description:** Project Management  
**Amount:** \$2,355.85

**Component Description:** Project Management  
**Amount:** \$500.50

Attorney Fees - Prepare and File request for Special Temporary Authorization

Information not provided.

**Cost Information**

**Other Expenses**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$83,963.50</b>	<b>\$76,163.50</b>		<b>\$27,653.19</b>	
Equipment Delivery and Handling Charges	<i>\$36,662.80</i>	\$36,662.80	see Estimated Cost Justification WWBT-610-Equipment Delivery and Handling v2	\$21,502.49	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	<i>\$30,500.00</i>	\$30,500.00	Estimate for Dielectric on site antenna storage Dielectric letter attached	N/A	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

DTV Medical Facility Notification	\$11,550.00	\$3,750.00	Group quote attached	\$3,750.00	N/A
<b>Sub-total</b>	\$83,963.50	\$76,163.50	N/A	\$27,653.19	N/A
<b>Total for all systems</b>	\$2,103,123.39	\$1,835,246.22	N/A	\$1,220,165.81	N/A

## Components

Actual Information Description	File Name
Equipment Delivery and Handling Charges	<b>Component Description:</b> Freight and shipping <b>Amount:</b> \$594.77
	<b>Component Description:</b> CHESTERFIELD SHORT TERM RENTAL TAX <b>Amount:</b> \$1,876.03
	<b>Component Description:</b> Shooting Boom Forklift <b>Amount:</b> \$4,679.14
	<b>Component Description:</b> 10k 55' Shooting Boom Forklift <b>Amount:</b> \$6,636.78
	<b>Component Description:</b> 6k-7k 42' Shooting Boom Forklift <b>Amount:</b> \$1,857.58
	<b>Component Description:</b> 10K 55' SHOOTING BOOM FORKLIFT <b>Amount:</b> \$5,858.19

MVPD Notification of Channel Change	<p><b>Component Description:</b> Total Professional Services</p> <p><b>Amount:</b> \$2,065.70</p>
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	<p><b>Component Description:</b> WWBT-610-FCC Filing Fees - License to Cover</p> <p><b>Amount:</b> \$335.00</p>
DTV Medical Facility Notification	<p><b>Component Description:</b> Medical Notification</p> <p><b>Amount:</b> \$3,750.00</p>

**Cost Information** **Grand Total**

	<b>Predetermined Cost Estimate</b>	<b>Estimated Cost</b>	<b>Actual Cost</b>
<b>Total for all systems</b>	\$2,103,123.39	\$1,835,246.22	\$1,220,165.81

**Reimbursement Status**

<b>Question</b>	<b>Response</b>
The facility has ceased operating on its pre-auction channel.	No
Construction of final facilities or all necessary modifications are complete.	No
All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	No



Certification	Section	Question	Response
	<p><b>Submission of Estimated Expenses Statements</b></p>	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol>	

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 above-named applicant for the Authorization(s) specified above.

**Robert  
Folliard , III**  
.  
*Assistant  
Secretary*

10/07/2020

Certification	Section	Question	Response
	<p><b>Submission of Actual Cost Documentation Statements</b></p>	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> <li>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.</li> <li>2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.</li> <li>3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> </ol>	

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 above-named applicant for the Authorization(s) specified above.

**Robert  
Folliard , III**  
.  
*Assistant  
Secretary*

10/07/2020

## Attachments