

Federal Communications Commission

#### (REFERENCE COPY - Not for submission)

## FCC Form 399: Reimbursement Request

Facility ID: File Number:	65667 00000	Service: DTV 25653	Call Sign:	WTCI	Channel: <b>35 (UHF)</b>
	01774595	Date	05/15		
		Submitted:	/2018		

## Applicant Name, Type, and Contact Information

### Information

ו	Applicant	Address	Phone	Email	Applicant Type
	THE GREATER CHATTANOOGA PUBLIC TELEVISION CORP Doing Business As: THE GREATER CHATTANOOGA PUBLIC TELEVISION CORP	Bryan Fuqua 7540 BONNYSHIRE DRIVE CHATTANOOGA, TN 37416 United States	+1 (423) 702- 7800	BFUQUA@WTCITV. ORG	Not-for- Profit

#### Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Name and Information			
Contact Information	Applicant	Address	Phone	Email
	The Preparer is same as the reimbursement contact.			

Broadcaster	Question	Response
Information and Transition 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.	Νο
	Briefly describe transition plan	Build new tower adjacent to the old tower. Install new transmitter / new transmission line / new antenna. Remove old antenna /line from existing tower so WUTC-FM can continue to operate without expenses on old tower.

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

Primary	Existing Transmitter Information					
Transmitter	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	Diamond DHD-60 P2			
		Year	2002			
		Туре	Solid State			
		Solid State Cooling	Air Cooled			
		Solid State Power Capacity	14 kW			

**Existing Transmitter Information** 

ransmitter	Section	Question	Response
	New Transmitter	Use	Primary (Main)
		Change Type	Purchase New
		Is this a request for upgraded equipment?	No
		Manufacturer	
		Model	Maxiva ULXTE-20
		Transmitter Type	Solid State
		Solid State Cooling	Liquid Cooled
	Solid State Power capacity	12.9 kW	
		Justification for New Transmitter	GatesAir issued a letter to all Diamond CD (as wel as other model) transmitter owners dated January 1, 2017 that they would no longer offer channel change services or support in- field channel changes.

Primary	Other Transmitter Costs					
Transmitter	Section	Question	Response			
	Electrical Service	Service Entrance (3 phases 800A 208V)	No			
		Switchgear (industrial 800 amp)	No			
		Transformer (480V)	Yes			
		Power	150 kVA			
		Rigid Conduit and Wiring	Yes			
		Size	3 inches			
		Length	100.0 feet			
		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			

# Primary Other Transmitter Cost Not Listed

Transmitter Information not provided.

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary	Existing Antenna Information					
Primary Antenna	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	Class	Full Power			
	Manufacturer and Type	Mounting	Top Mount			
		Antenna position in stack	Not in Stack			
		Polarization	Horizontal			
		Туре	Slotted Coaxial			
		Number of Stations Supported	N/A			
		Number of Panels	N/A			
		Design power capacity in use	N/A			
		Lower Limit	N/A			
		Upper Limit	N/A			
		Other Antenna Type	N/A			
		ERP: (Effective Radiated Power)	160.0 kW			

Manufacturer	
Model	ATW18H6- HTO-29H
 Year	2014

Primary	New Antenna Costs			
Antenna	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?	No	
		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 Manufacturer and Types	Class	Full Power	
		Mounting	Top 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)	160.0 kW	
		Manufacturer		
			1	

Model
Year
Justification for New Antenna

## Primary Other Antenna Costs

Antenna	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
		Frequencies of channels supported N/A	
	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 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
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# Primary Other Antenna Cost Not Listed

Antenna Information not provided.

Transmissior	n Seffien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

ransmissio	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	Broadband
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	500 feet per run

# Primary Existing Transmission Line

Primary	New Transmission Line			
Transmissio	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	6 1/8 inches	
		Other Diameter	N/A	
		Segment Length	Broadband	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	500 feet per run	
		Justification for New Transmission Line	Need to install new rigid coax in a new tower in order to repack station. Current tower will not pass EIA-222-G codes and can't be modified to meet new codes.	

Primary Other Transmission Line Expenses Not Listed

Primary Other Transmission Transmission

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

Primary	Existing	Tower

Primary	_		
Tower	Section	Question	Response
	Existing Tower Description	Type of change	Construct New
		Tower Use	Primary (Main)
		Description of Use	N/A
		Ownership	Owned
		Is this tower consider Complex?	No
		Is this tower currently shared with any other stations?	Yes
		One or more FM, AM or TV radio broadcaster(s)	Yes
		Others Types of Users	No
		Is tower documented for structural analysis?	Yes
		Is tower compliant with Rev G?	No
	Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	Registration	ASR Number	1042763
	Coordinates (NAD83 ( North American Datum of 1983))	Latitude (NAD83)	35° 12' 26.0" N-
		Longitude (NAD83)	085° 16' 52.0" W-
		Overall Structure Height	493.00 feet
		Support Structure Height	448.00 feet
		Ground Elevation Above Mean Sea Level (AMSL)	2012.00 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	The Greater Chattanooga Public TV Corp
Date Constructed	08/15/1993

#### 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
69325	WUTC	FM

Primary	Tower Construction Costs					
Tower	Section	Question	Response			
	Construct New Tower	Use	Primary (Main)			
		Description of Use	N/A			
		Is this a request for upgraded equipment?	No			
		Height	440.00 feet			
		Justification for New Tower	Tower will not meet current EIA- 222-G standard with the repack antenna and can't be modified to meet the current code.			

## Primary Tower Rigging Costs

Tower

SectionQuestionResponseTower Rigging CostsComplex TowerTerrain<br/>constrainedHelicopter Services<br/>RequiredAre helicopter services required?No

## Primary Other Tower Expenses Not Listed

**Tower** Information not provided.

Outside	Section	Question	Response
Professional	Services Costs Outside Project Management Services	Do you require outside project management services?	No
		Number of Hours	N/A
		Explanation	N/A
	Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	No
		Prepare engineering section of Form FCC Construction Permit Application	No
		For Auxiliary Facility	N/A
		For Main Facility	N/A
		Prepare engineering section of Form FCC License to Cover Application	No
		For Auxiliary Facility	N/A
		For Main Facility	N/A
		Prepare request for Special Temporary Authority	No
		Quantity	N/A
		Do you have Distributed Transmission System engineering services?	N/A
		Critical Facility	N/A
		Terrain-Shielded Facility	N/A
	Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
	Services	For Auxiliary Facility	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	No
	Quantity	N/A
	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

Other Professional Services Expenses Not Listed Professional Services roopstsided.

Other	Section	Question	Response
Expenses	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	Yes
		Non-zoning permits	Yes
		BLM or NFS Coordination	No
		FCC Construction Permit Minor Change	No
		FCC License to Cover Application	No
		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)?	No
		Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
		Does this relocation require Equipment Storage?	No
		Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	No
		Does this relocation require MVPD Notification of a Channel Change?	Yes

#### **Other Expenses Not Listed**

Other Expenses	Other Expenses Not Listed			
	Name	Description		
	MVPD Notifications	Notification of cable and Satellite MVPD providers of new RF channel and TS stream parameters.		
	Mask Filter	New Dielectric mask filter on CH 35 to replace CH 29 filter.		
	Tower foundation and anchors	Tower foundations and installation		

#### Transmitters

#### Cost Information

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 Maxiva ULXTE-20	\$525,250.00	\$463,906.02		\$0.00	
3" Rigid Conduit and Wiring (Cost per foot)	\$5,200.00	\$4,900.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$2,715.55	Only need 75 KVA transformer. Priced from GatesAir transmitter quote.	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$456,290.47	GatesAir quote minus mask filter and 75 KVA transformer included in quote.	N/A	N/A
Sub-total	\$525,250.00	\$463,906.02	N/A	\$0.00	N/A
Total for all systems	\$1,553,244.50	\$1,267,925.12	N/A	\$28,182.59	N/A

#### Components

#### Antennas

#### Cost Information

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 Antenna ATW18H6- HTO-29H	\$253,730.00	\$203,125.00		\$0.00	
UHF - High Power Top Mount (200- 1000 kW), One station antenna, horizontally polarized	\$247,000.00	\$203,125.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$0.00	N/A	\$0.00	Sweep test of new antenna system
Sub-total	\$253,730.00	\$203,125.00	N/A	\$0.00	N/A
Total for all systems	\$1,553,244.50	\$1,267,925.12	N/A	\$28,182.59	N/A

#### Components

#### **Transmission Line**

#### Cost Information

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	\$116,000.00	\$95,000.00		\$0.00	
Rigid Transmission Line - copper, 6 1 /8" broadband	\$116,000.00	\$95,000.00	N/A	N/A	N/A
Sub-total	\$116,000.00	\$95,000.00	N/A	\$0.00	N/A
Total for all systems	\$1,553,244.50	\$1,267,925.12	N/A	\$28,182.59	N/A

#### Components

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

#### Cost Information

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	\$0.00	\$0.00		\$0.00	
Primary Tower	\$592,354.00	\$456,354.00		\$0.00	
New tower	\$171,354.00	\$171,354.00	Pricing for tower, anchors and red obstruction lighting system (two price quotes uploaded).	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$285,000.00	Estimated cost to take down 250 ft tower and install new 440' tower in its old footprint as site is very space constrained with only 2.2 acres of land bounded by a bluff and public road.	N/A	N/A
Sub-total	\$592,354.00	\$456,354.00	N/A	\$0.00	N/A
Total for all systems	\$1,553,244.50	\$1,267,925.12	N/A	\$28,182.59	N/A

#### Components

#### **Outside Professional Services**

#### Cost Information

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	\$17,095.00	\$9,150.00		\$2,132.50	
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$1,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$1,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$1,150.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$4,000.00	N/A	\$2,132.50	N/A

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$1,000.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$1,000.00	N/A	N/A	N/A
Sub-total	\$17,095.00	\$9,150.00	N/A	\$2,132.50	N/A
Total for all systems	\$1,553,244.50	\$1,267,925.12	N/A	\$28,182.59	N/A

### Components

Actual Information Description	File Name
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.
ASR modification (prepare FCC Form 854)	Information not provided.
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Third invoice \$56.00
	Component Description: Amount:	Second invoice \$78.00
	Component Description:	Review Public Notice on re-pack and e-mail same
	Amount:	\$56.00
	Component Description:	First bill from lawyers concerning
	Amount:	construction permit \$1,892.00
	Component Description:	Quarterly Transition Progress Report reminder
	Amount:	\$50.50
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	

#### **Other Expenses**

#### Cost Information

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	\$48,815.50	\$40,390.10		\$26,050.09	
Tower foundation and anchors	\$0.00	\$0.00	Waiting on estimate for tower foundations and guy anchors.	N/A	N/A
MVPD Notifications	\$1,435.25	\$1,435.25	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$6,000.00	\$6,000.00	Delivery charges for antenna and transmission line are unknown at this time.	N/A	N/A
MVPD Notification of Channel Change	\$1,000.00	\$1,000.00	N/A	N/A	N/A
Mask Filter	\$24,830.25	\$24,830.25	Mask filter and coupling ports currently on order with Dielectric.	\$26,050.09	Freight costs were not included in original quote. Additional cost is due to freight charges,
DTV Medical Facility Notification	\$11,550.00	\$3,124.60	N/A	N/A	N/A

Local Zoning	\$2,000.00	\$2,000.00	Zoning fees are unknown at this time.	N/A	N/A
Non-zoning permits	\$2,000.00	\$2,000.00	Building permits are based on actual construction costs which are unknown at this time.	N/A	N/A
Sub-total	\$48,815.50	\$40,390.10	N/A	\$26,050.09	N/A
Total for all systems	\$1,553,244.50	\$1,267,925.12	N/A	\$28,182.59	N/A

### Components

Actual Information Description	File Name	
Tower foundation and anchors	Information not provided.	
MVPD Notifications	Information not provided.	
Equipment Delivery and Handling Charges	Information not provided.	
MVPD Notification of Channel Change	Information not provided.	
Mask Filter	Component Description: Amount:	Mask filter to re- pack WTCI from Channel 29 to Channel 35. \$26,050.09
DTV Medical Facility Notification	Information not provided.	
Local Zoning	Information not provided.	

Cost	Grand Total				
Information		Predetermined Cost Estimate	Estimated Cost	Actual Cost	
	Total for all systems	\$1,553,244.50	\$1,267,925.12	\$28,182.59	

Reimbursem	entestiatus	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

Certification	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.	
		<ol> <li>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>The above-named</li> </ol>	
		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).
- 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.	
an au name	are, under penalty of perjury, that I am thorized representative of the above- d applicant for the Authorization(s) ied above.	Bryan Fuqua , Fuqua . VP Technical Services

#### Attachments