

(REFERENCE COPY - Not for submission)

### FCC Form 399: Reimbursement Request

Facility 19200 Service: DTV Call Channel: 15 (UHF) WTNZ ID:

Sign:

File 0000025079

Number:

FRN: 0028123164 Date 07/01

> Submitted: /2020

### **Applicant** Information

### **Applicant Name, Type, and Contact Information**

Applicant	Address	Phone	Email	Applicant Type
MARBLE CITY TV LLC Doing Business As: MARBLE CITY TV LLC	220 SALTERS CREEK ROAD HAMPTON, VA 23661 United States	+1 (757) 726- 0136	DHANNA@LOCKWOODBROADCAST.	Limited Liability Company

### Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email	
[Confidential]				

### **Preparer Contact** Information

#### **Preparer Contact Name and Information**

Applicant	Address	Phone	Email
Samuel Hariton Widelity	4031 University Drive Ste 100 Fairfax, VA 22030 United States	+1 (339) 222- 8107	sam.hariton@widelity. com

### Broadcaster Information and Transition Plan

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Yes
Briefly describe transition plan	Move station to another close by ATC tower facility. Install new main and backup transmitter

### Transmitters

rs	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	Retune Existing
	Use	Auxiliary (Backup)
	Ownership	Owned
	Owner	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter	Manufacturer	Harris
Manufacturer and Type	Model	UAX
	Year	2011

Туре	Solid State
Solid State Cooling	Air Cooled
Solid State Power capacity	1.1 kW

### Auxiliary Transmitter

### **Retuning Transmitter Costs**

Section	Question	Response
New IOT Tubes	Number of Tubes (including accessories) needed	N/A
New Mask Filter	Power	1.5 kW
	Other Power	N/A
New Exciter	Is a new exciter needed?	No

### Auxiliary Transmitter

### **Other Transmitter Costs**

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	2 inches
	Length	50.0 feet
	Other Electrical Service	Yes
	Description	panel board distribution and breakers
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes

	Туре	Cooling Only
	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?	Yes
	Size	200.0
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 Transmitter Information not provided.

Other Transmitter Cost Not Listed

### 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	DCX
	Year	2005
	Туре	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	20 kW

### Primary Transmitter

### **New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-50
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31.7 kW
	Justification for New Transmitter	Existing transmitter cannot be retuned. Transmitter sizing is based on a forced relocation after it was found out that the existing broadband antenna would not transmit channel 15 at the proper output.

### Primary Transmitter

### **Other Transmitter Costs**

Section	Question	Response
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Electrical Service	Service Entrance (3 phases 800A 208V)	Yes
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	4 inches
	Length	100.0 feet
	Other Electrical Service	Yes
	Description	Service panel and distribution for new greenfield ATC suite
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?	Yes
	Size	800.0 square fee
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
Emergency Generator	250 kW diesel generator and ATS
removal of existing equipment	Station must abandon existing ATC suite and remove its equipment
Internal Transmission Line	Gases and other items needed for transmission line testing and soldering

### **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	Leased
	Owner	American Tower
	Site	N/A
	Is the existing antenna shared with another station or stations?	Yes
	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	Bottom
	Polarization	Horizontal
	Туре	Broadband Panel
	Number of Stations Supported	3
	Number of Panels	10
	Design power capacity in use	50.0 %
	Lower Limit	470.00 MHz
	Upper Limit	608.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	460.0 kW

Manufacturer	
Model	TUD-O5-16 /80H-2-B
Year	2003

# Facility ID's and Call Signs of all stations with whom the antenna is shared.

Facility ID	Call Sign
52628	WPXK-TV
71082	WATE-TV

### **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?	Yes
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)	350.0 kW
	Manufacturer	

Model	TFU-24GTH /VP-R 04
Year	2019
Justification for New Antenna	Existing leased antenna will not meet spec for channel 15. Sweep data attached. Station must relocate and purchase a new single frequency antenna.

### **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	6 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
Antenna Pedestal	Required 4' pedestal for arbor arm installation

Transmission <sup>Seffien</sup>	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

### **Existing Transmission Line**

# Primary Transmission

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Owner	American Tower
	Site	N/A
	Is the existing transmission line shared with another station or stations?	Yes
	Is Transmission Line in operating condition?	Yes
Existing Transmission	Manufacturer	
Line Manufacturer and Type	Туре	Rigid
	Diameter	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	2
	Length	1600 feet per run

# Facility ID's and Call Signs of all stations with whom the transmission line is shared.

Facility ID	Call Sign
71082	WATE-TV
52628	WPXK-TV

### Primary Transmission

### **New Transmission Line**

on Line Settion	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	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1500 feet per run
	Justification for New Transmission Line	Station is changing sites and is not able to lease.

### Primary

### Other Transmission Line Expenses Not Listed

Transmission	Naine Naine	Description
	Nitrogen Regulator	Nitrogen Regulator required due to repack

# 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

### **Add Tower**

Section	Question	Response
Existing Tower	Type of change	Modify Existing
Description	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Candelabra
	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?	Yes
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1222895
Coordinates (NAD83 (	Latitude (NAD83)	35° 59' 44.4" N-
North American Datum of 1983))	Longitude (NAD83)	083° 57' 23.1" W-
	Overall Structure Height	1534.10 feet
	Support Structure Height	1399.92 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1314.94 feet

Purposes	Structure Type	GTOWER - Guyed Structure Used for Communication
Tower Owner American	Tower Owner	·
Towers LLC  Date Constructed 04/03/2003	Date Constructed	

### Primary Tower

### **Tower Modification Costs**

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for tower with candelabra
Tower Reinforcements	Please select whether tower reinforcements are needed:	No reinforcements needed

### Primary Tower

### **Tower Rigging Costs**

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

### Primary Tower

### Other Tower Expenses Not Listed

Name	Description
ATC Capital Contribution	Capital contribution fee
Tower Mapping	Mapping the tower to identify potential maintenance and structural concerns.

### Primary Tower

### **Add Tower**

Section	Question	Response
Existing Tower	Type of change	Move Equipment
Description	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Candelabra
	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?	No
	Is tower compliant with Rev G?	Unknown
Existing Tower	Do you have a tower registration number?	Yes
Structure Registration	ASR Number	1052156
Coordinates (NAD83 (	Latitude (NAD83)	36° 00' 12.8" N-
North American Datum of 1983))	Longitude (NAD83)	083° 56′ 34.0″ W-
	Overall Structure Height	1456.02 feet
	Support Structure Height	1332.99 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1393.03 feet
	Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
	Tower Owner	SpectraSite Communications, LLC. through American Towers, LLC.

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
18267	WKOP-TV	DTV
35908	WVLT-TV	DTV
69161	WUOT	FM

### Primary Tower

### **Tower Rigging Costs**

Section	Question	Response
Tower Rigging Costs	Complex Tower	Candelabra
Helicopter Services Required	Are helicopter services required?	No

### Primary Tower

### Other Tower Expenses Not Listed

Information not provided.

### Outside Professional

Section	Question	Response
Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	800
	Explanation	Pattern analysis Antenna Spec Transmitter Spec Building drawings Installation Supervision Accounting Internal Legal Strategic Support
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	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 Services	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	No
	Quantity	N/A
	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	Yes
	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	Yes
	RF exposure measurements	No
	Additional Field Engineering Service	Yes
	Number of Days	1
	Justification	system sweep

Outside
Outside
Professional Services Expenses Not Listed
Professional Services © pstsided.

# Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	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

### Other Expenses Not Listed

Name	Description	
Microwave STL	Microwave STL required due to forced move to a different tower WTNZs existing ATC tower will install a communal antenna that will not support the WTNZs repack channel	
ATC Expenses	Defined American Tower charges attached	
Site Security	Site Security	

## **Cost Information**

### **Transmitters**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTE-50	\$1,418,540.37	\$1,389,887.17		\$842,459.31	
Internal Transmission Line	\$155.03	\$155.03	Please see WTNZ Primary Transmitter - Internal Transmission Line Revision Justification Cover Letter	\$155.03	N/A
removal of existing equipment	\$35,000.00	\$35,000.00	N/A	N/A	N/A
Emergency Generator	\$66,552.25	\$66,552.25	see Estimated Cost Justification WTNZ-110- 1st Primary Transmitter - Generator v0	\$0.00	N/A
Other Building Addition Size: 800.0	\$45,000.00	\$45,000.00	N/A	\$8,704.00	N/A
10 Ton system	\$38,900.00	\$32,000.00	new greenfield site requiring new HVAC	\$22,942.50	N/A

			Transmitter - UHF Liquid Cooled Solid State v1		
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	\$1,069,683.09	\$1,069,683.09	Estimated Cost Justification WTNZ-110- 1st Primary	\$738,993.94	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$7,496.80	GatesAir Quote Q- 76710	N/A	N/A
4" Rigid Conduit and Wiring (Cost per foot)	\$10,100.00	\$9,000.00	new site with no existing electrical infrastructure	N/A	N/A
Electrical Service: Service panel and distribution for new greenfield ATC suite.			greenfield site shell requiring all new electrical distribution		

UHF and VHF - minor banding issues	\$105,200.00	\$19,891.10	see Estimated Cost Justification WTNZ-150-	\$19,891.10	Est not exceeded.
			1st Auxiliary Transmitter - Retune Existing Transmitter, Minor Banding		
Other Building Addition Size: 200.0	\$15,000.00	\$15,000.00	floor and wall paint. New concrete shell site	N/A	N/A
10 Ton system	\$38,900.00	\$22,942.50	See attached Funderburk Electrical Services Budget Proposal dated 5/8/19 (50% of total cost of 2 HVAC units)	\$22,942.50	N/A
Other Electrical Service: panel board distribution and breakers	\$35,000.00	\$35,000.00	New greenfield site with no existing electrical infrastructure	\$33,724.16	N/A
2" Rigid Conduit and Wiring (Cost per foot)	\$1,300.00	\$1,200.00	new greenfield site with no existing electrical infrastructure	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$23,000.00	new greenfield site with no existing electrical infrastructure	N/A	N/A

1.5 kW mask filter	\$3,030.00	\$0.00	included in tx quote	N/A	N/A
Sub-total	\$1,642,520.37	\$1,506,920.77	N/A	\$919,017.07	N/A
Total for all systems	\$3,709,635.20	\$3,210,839.14	N/A	\$1,910,109.06	N/A

### Components

Actual Information Description	File Name	
Internal Transmission Line	Component Description: Amount:	Cylinder rental \$155.03
removal of existing equipment	Information not provided.	
Emergency Generator	Information not provided.	
Other Building Addition Size: 800.0	Component Description:	Equipment Rental for Interior Paint and Seal
	Amount:	\$693.36
	Component Description:	Sealed, waterproofed, and coated 42x21x26 interior walls
	Amount:	\$6,306.64
	Component Description:	WTNZ-110-1st Primary Transmitter - Building Addition,
	Amount:	800 sq. ft. \$1,250.00
	Component Description: Amount:	Copper Strap \$454.00

10 Ton system	Component Description:	WTNZ-110-1st			
	Component Description.	Primary			
		Transmitter - 10 Ton System			
	Amount:	\$22,942.50			
Other Electrical Service:					
Service panel and	Component Description:	Work Order #:			
distribution for new greenfield ATC suite.		S015860			
greenileid ATO suite.	Amount:	\$71,663.84			
4" Rigid Conduit and Wiring	Information not provided.				
(Cost per foot)	Information not provided				
Transformer 3 phase/480v - 150 KVA	Information not provided.				
Switchgear - industrial 800	Information not provided.				
Sorvice entrance 2 phase	Information not provided				
Service entrance 3 phase /800 amp/208 volt	Information not provided.				
UHF - Liquid Cooled Solid					
State Transmitter 31.7 kW	Component Description:	WTNZ- 110-1st			
		Primary Transmitter - UHF			
		Liquid Cooled			
		Solid State, 21-31			
	Amount:	kW \$8,881.81			
		<b>4</b> 3, 3 2 1 1 2 1			
	Component Description:	ULXTE-50, 75%			
		payment of			
		comparable			
	Amount:	equipment \$494,459.87			
		,			
	Component Description:	Enhanced			
		Feature- License-			
		1 switch			
	Amount:	\$5,080.08			

Component Description: ULXTE-50
Amount: \$90,739.11

Component Description: A. Transmitter
Amount: \$244,344.43

**Component Description:** 7401278000

Parallel Surge Suppressor

**Amount:** \$1,699.97

**Component Description:** Transmitter **Amount:** \$76,822.07

Component Description: SMP chassis (dual

PS), ATSC Receive

Configuration

**Amount:** \$4,695.00

Component Description: Invoice moved to

correct budget category per NMI

message

Amount: N/A

Component Description: ULXTE-50
Amount: \$60,528.74

**Component Description:** CABLE **Amount:** \$59.19

Component Description: Precision 3430

Small Form Factor

**Amount:** \$1,356.47

	Component Description:  Amount:  Component Description: Amount:	Uinstrut and hanger needs to build and hang transmitter \$636.14  PLNM 100022 \$86.96
UHF and VHF - minor banding issues	Component Description: Amount:	Channel Change UAX-1000AT \$17,105.72
	Component Description:	Channel Change UAX-1000AT per quote GA-
	Amount:	00021682 \$1,114.15
	Component Description: Amount:	Channel Change & Proof \$1,671.23
Other Building Addition Size: 200.0	Information not provided.	
10 Ton system	Component Description:	WTNZ-150-1st Auxiliary Transmitter - 10 Ton System
	Amount:	\$22,942.50
Other Electrical Service: panel board distribution and breakers	Component Description:	WTNZ-150-1st Auxiliary Transmitter - Other Electrical Service
	Amount:	\$33,724.16

2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Transformer 3 phase/480v - 150 KVA	Information not provided.
1.5 kW mask filter	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 Primary Antenna TFU-24GTH /VP-R 04	Predetermined Cost Estimate \$347,430.00	Estimated Cost \$272,738.00	Estimated Cost Justification	Actual Cost \$181,914.37	Actual Cost Justification
Antenna Pedestal	\$38,900.00	\$38,900.00	quote attached. Does not include freight	\$1,375.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$10,298.00	included in antenna cost, quote attached	\$9,481.38	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, elliptically or circularly polarized	\$289,500.00	\$217,140.00	Quote Attached (800134CMZ- 2) Station is responsible for \$27,600 in v-pol related expense.	\$164,657.99	N/A
Sub-total	\$347,430.00	\$272,738.00	N/A	\$181,914.37	N/A

Total for	\$3,709,635.20	\$3,210,839.14	N/A	\$1,910,109.06	N/A
all systems					

Actual Information Description	File Name	
Antenna Pedestal	Component Description:	WTNZ-210- Primary Antenna - Antenna
	Amount:	Pedestal \$1,375.00
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description:	WTNZ-210- Primary Antenna - Elbow Complex,
	Amount:	6 1/8" \$4,634.10
	Component Description:	WTNZ-210- Primary Antenna - Elbow Complex, 6 1/8
	Amount:	\$213.18
	Component Description:	WTNZ-210- Primary Antenna - Elbow Complex, 6 1/8"
	Amount:	\$4,634.10

Sweep test of existing antenna		
antenna	<b>Component Description:</b>	WTNZ-210-
		Primary Antenna
		- Sweep Test
	Amount:	\$2,880.00
	Component Description:	Other
	Amount:	\$640.00
	Component Description:	WTNZ-210-
		Primary Antenna
		- Sweep Test
	Amount:	\$2,880.00
UHF - High Power Top		
Mount (200-1000 kW), One	<b>Component Description:</b>	Antenna UHF
station antenna , elliptically or circularly polarized		high power top
or orrodiarry polarized		mount
	Amount:	\$80,659.12
	Component Description:	Freight, shipping
		and handling
	Amount:	\$3,339.75
	Component Description:	Antenna UHF
	Component Description.	high power top
		mount
	Amount:	\$80,659.12

## **Cost** Information

#### **Transmission Line**

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

Description Primary Transmission Line	Predetermined Cost Estimate \$304,828.14	Estimated Cost \$234,998.83	Estimated Cost Justification	Actual Cost \$234,843.80	Actual Cost Justification
Rigid Transmission Line - copper, 6 1/8"	\$303,000.00	\$233,170.69	see Estimated Cost Justification WTNZ-310- Primary Transmission Line - Rigid Copper, v3	\$233,015.66	invoices
Nitrogen Regulator	\$1,828.14	\$1,828.14	Please see WTNZ Greenville Media quote 6143 lines 15 - 19, plus actual taxes and freight on invoice 6143-3	\$1,828.14	N/A
Sub-total	\$304,828.14	\$234,998.83	N/A	\$234,843.80	N/A
Total for all systems	\$3,709,635.20	\$3,210,839.14	N/A	\$1,910,109.06	N/A

Actual Information Description	File Name
Rigid Transmission Line - copper, 6 1/8"	

**Component Description:** WTNZ-310-

Primary

Transmission Line
- Rigid Copper, 6 1

/8"

**Amount:** \$97,906.72

Component Description: FREIGHT,

SHIPPING, AND HANDLING LINE 31 & LINE 32 FEDEX FIRST OVERNIGHT

**Amount:** \$2,884.23

Component Description: WTNZ-310-

Primary

Transmission Line
- Rigid Copper, 6 1

/8

**Amount:** \$3,552.93

**Component Description:** T/L 6-75 EIA

length 15' to 20'

fixed FLG \$3 133 40

**Amount:** \$3,133.40

Component Description: Rigid transmission

line-copper

**Amount:** \$21,757.06

Component Description: RFREIGHT

OTHER

**Amount:** \$3,376.59

Component Description: SADDLE KIT 6 T/L

5/8 X 7 LG

**Amount:** \$876.40

**Component Description:** WTNZ-310-Primary Transmission Line - Rigid Copper, 6 1 /8" Amount: \$97,906.72 Stainless 3/8" **Component Description:** angle adapters Amount: \$1,602.75 **Component Description: COLORED VINYL TAPE** Amount: \$18.86 Nitrogen Regulator **Component Description:** Nitrogen Regulator \$1,828.14 Amount:

## **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	Actua Justif
Primary Tower GTOWER	\$421,000.00	\$409,500.00		\$0.00	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$409,500.00	Remove Equipment From Old Tower	\$0.00	N
Primary Tower GTOWER	\$523,000.00	\$311,268.75		\$311,125.00	
Tower Mapping	\$20,600.00	\$20,600.00	Please see Raycom Purchase Order Corp_WTNZ_ATC_01 and ATC Tower Invoice 460208332	\$20,600.00	N
Structural engineering tower load study for a documented tower with candelabra	\$20,000.00	\$19,000.00	Please see Raycom Purchase Order Corp_WTNZ_ATC_01 and ATC Tower Invoice 460208330	\$19,000.00	N
Tower Helicopter Lift	\$56,400.00	\$56,400.00	Tower King II, Inc Proposal C-19-014	\$56,400.00	N

Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$421,000.00	\$210,268.75	see Estimated Cost Justification WTNZ- 410-New Primary Tower - Complex Tower v0	\$210,125.00	N
ATC Capital Contribution	\$5,000.00	\$5,000.00	See attached Please see Raycom Purchase Order Corp_WTNZ_ATC_02 and WTNZ American Tower Invoice 460211214	\$5,000.00	N
Sub-total	\$944,000.00	\$720,768.75	N/A	\$311,125.00	N
Total for all systems	\$3,709,635.20	\$3,210,839.14	N/A	\$1,910,109.06	N

Actual Information Description	File Name	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.	
Tower Mapping	Component Description: Amount:	Broadcast Tower Mapping \$20,600.00
Structural engineering tower load study for a documented tower with candelabra	Component Description: Amount:	Broadcast Structural \$19,000.00

Fower Helicopter Lift	Component Description:  Amount:	Down Payment for WTNZ Repack Antenna Project \$21,580.00
	Component Description:	TOWER SERVICE
	Amount:	\$34,820.00
Complex Tower (includes, or example, those with		
candelabras and/or stacked antennas)	Component Description:	WTNZ-410-New Primary Tower - Complex Tower
	Amount:	\$78,420.00
	Component Description:	WTNZ-410-New
		Primary Tower - Complex Tower
	Amount:	\$126,505.00
	Component Description:	Repack work
	Amount:	\$2,200.00
	Component Description:	Use of Gap Road
		property for staging area
	Amount:	\$3,000.00
ATC Capital Contribution		
	Component Description:	CAPITAL CONTRIBUTION
	Amount:	\$5,000.00

## **Cost Information**

#### **Outside Professional Services**

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$244,790.00	\$257,266.10		\$108,768.77	
Project management of the transition	\$126,400.00	\$144,675.00	Widelity Strategic Support Quote	\$84,230.65	N/A
Additional Field Engineering Service, 1 Days	\$5,000.00	\$5,000.00	N/A	\$752.76	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$80,000.00	N/A	\$9,560.78	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,216.10	Estimated Cost Justification WTNZ-550- Attorney - Negotiate Lease and Other Matters v0	\$4,216.10	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$765.50	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 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	\$3,625.00	Per invoices submitted	\$3,625.00	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$5,568.98	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,000.00	market phase coordination	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,000.00	N/A	\$49.00	N/A
Sub-total	\$244,790.00	\$257,266.10	N/A	\$108,768.77	N/A
Total for all systems	\$3,709,635.20	\$3,210,839.14	N/A	\$1,910,109.06	N/A

Actual Information Description	File Name	
Project management of the transition	Component Description: Amount:	Project Management \$3,143.20
	Component Description: Amount:	Project Management \$2,362.50
	Component Description: Amount:	Project Management \$6,636.05
	Component Description: Amount:	Project Management \$4,771.30
	Component Description: Amount:	Project Management \$2,597.50
	Component Description: Amount:	Project Management \$4,346.35
	Component Description: Amount:	Project Management \$169.40
	Component Description: Amount:	Project Management \$968.87

Component Description: Project

Management

Amount:

\$4,761.25

**Component Description:** 

Project

Amount:

Management \$3,098.10

**Component Description:** 

Project

Amount:

Management \$6,866.25

**Component Description:** 

Project

Amount:

Management

\$4,945.00

**Component Description:** 

Project Management

Amount:

\$7,524.15

Component Description:

Project

Management

Amount:

\$4,220.35

**Component Description:** 

Project

Amount:

Management \$4,848.75

Component Description:

Project Management

Amount:

\$4,755.60

**Component Description:** 

Widelity information

request

Amount:

\$43.63

**Component Description:** WTNZ-510-Project

Management

\$385.00 Amount:

**Component Description:** Project

management

Amount: \$2,324.00

**Component Description:** Project

Management

Amount: \$105.00

**Component Description:** Project

Management

\$3,757.85 Amount:

**Component Description:** Project

Management

Amount: \$2,175.00

**Component Description:** Project

Management

Amount: \$2,999.90

**Component Description:** Project

Management

Amount: \$3,447.50

**Component Description:** 

Amount:

Travel Expenses

\$893.20

**Component Description:** 

Project

Management Amount:

\$2,084.95

Additional Field Engineering Service, 1	Component Description	WTNZ-580-Field
Days	Component Description:	Engineering
		Service - Additional
		Field Engineering,
		1 Day
	Amount:	\$752.76
Comprehensive coverage verification via field study, if		
needed	Component Description:	WTNZ-580-Field
		Engineering
		Service -
		Comprehensive
		Coverage
		Verification
	Amount:	\$9,560.78

Attorney Fees - Negotiation of lease and other matters for shared locations	Component Description:	RE: WTNZ Repack Legal Services (19200)
	Amount:	\$441.80
	Component Description:	RE: WTNZ Repack Legal Services (19200)
	Amount:	\$392.00
	Component Description:	RE: WTNZ Repack Legal Services (19200)
	Amount:	\$49.00
	Component Description:	Legal Services
	Amount:	\$903.70
	Component Description:	RE: WTNZ Repack Legal Services (19200)
	Amount:	\$345.60
	Component Description:	RE: WTNZ Repack Legal Services
	Amount:	(19200) \$2,084.00
Attorney Fees -Prepare		
and File FCC Form 2100 (main), License to Cover Application	Component Description:	WTNZ-550- Attorney - License to Cover
	Amount:	Application (Main) \$765.50
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit	Information not provided.	

Application

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:	Preparation of the engineering portion of FCC Form 2100
	Amount:	\$1,625.00
	Component Description:	Preparation of the engineering portion of FCC Form 2100
	Amount:	\$2,000.00

Perform engineering study for new channel assignment and antenna development

Component Description: WTNZ-530-RF Eng

 Engineering Study for New Channel Assignment

**Amount:** \$1,568.98

Component Description: Repack

engineering

**Amount:** \$220.83

Component Description: WTNZ-530-RF Eng

- Engineering Study for New Channel Assignment

**Amount:** \$2,250.00

Component Description: WTNZ-530-RF Eng

- Engineering Study for New Channel Assignment

**Amount:** \$216.67

Component Description: Engineering study

work for new channel

assignment and

antenna

development.

**Amount:** \$125.00

Component Description: Repack

Engineering

**Amount:** \$1,187.50

Address transition timing and coordination issues w/ other stations and wireless

Information not provided.

Prepare and or review reimbursement form

Component Description: RE: WTNZ Repack

Legal Services

(19200)

**Amount:** \$49.00

## **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 Co
Other Expenses	\$226,066.69	\$218,146.69		\$154,440.05	
Site Security	\$9,450.00	\$9,450.00	Invoices Christopher Bell 001, Christopher Jones 002, Daniel Paidousis 002, David Gerlach 002, 003, Hayden Cochran 001, James Lockmiller 002, 003, Michael Geddings 001, 002, Alan Meisheid 001, 002, Jonathan Gomez 001, Shawn Austin 001	\$9,450.00	N/A
ATC Expenses	\$19,630.00	\$19,630.00	ATC document attached	N/A	N/A
Microwave STL	\$119,671.69	\$119,671.69	See Estimated Cost Justification WTNZ-610- Microwave STL v1	\$118,974.88	N/A
MVPD Notification of Channel Change	\$5,000.00	\$5,000.00	N/A	N/A	N/A

Total for all systems	\$3,709,635.20	\$3,210,839.14	N/A	\$1,910,109.06	N/A
Notification  Sub-total	\$226,066.69	\$218,146.69	attached N/A	\$154,440.05	N/A
DTV Medical Facility	\$11,550.00	\$3,750.00	Group quote attached	\$3,750.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,000.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
Non-zoning permits	\$8,500.00	\$8,500.00	see Estimated Cost Justification WTNZ-610- Non-Zoning Permits v0	\$8,500.00	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	N/A	\$11,012.48	N/A
Equipment Delivery and Handling Charges	\$2,970.00	\$2,970.00	On site forklift rental estimate Representative quote attached	\$1,192.69	N/A
Equipment Storage	\$20,000.00	\$20,000.00	Dielectric letter attached	\$1,560.00	N/A
Develop and air announcement of upcoming channel change	\$2,850.00	\$2,850.00	estimate for on air rescan announcement production Quote attached		

Actual Information Description	File Name	
Site Security	Component Description: Amount:	WTNZ Antenna Upgrade Job #691 \$240.00
	Component Description: Amount:	Repack Security \$1,260.00
	Component Description: Amount:	Repack Security \$210.00
	Component Description: Amount:	WTNZ Antenna Upgrade Job #691 \$240.00
	Component Description: Amount:	Repack Security \$420.00
	Component Description: Amount:	Repack Security \$210.00
	Component Description: Amount:	WTNZ Antenna Upgrade Job #691 \$480.00
	Component Description: Amount:	WTNZ Antenna Upgrade Job #691 \$420.00
	Component Description: Amount:	Repack Security - GL#110128 \$450.00

**Component Description:** 

Amount:

Repack Security

\$240.00

**Component Description:** 

Amount:

Repack Security

\$240.00

**Component Description:** 

Amount:

Repack Security

\$210.00

Component Description:

Repack Security - GL#110128

Amount:

\$660.00

**Component Description:** 

Repack Security - GL#110128

Amount:

\$660.00

**Component Description:** 

Amount:

Repack Security

\$270.00

**Component Description:** 

Repack Security - GL#110128

Amount:

\$240.00

Component Description: Repack Security -

GL#110128

**Amount:** \$420.00

**Component Description:** 

WTNZ Antenna

Upgrade Job #691

**Amount:** \$450.00

**Component Description:** 

Amount:

Repack Security

\$270.00

**Component Description:** 

Amount:

Repack Security

\$510.00

Component Description: WTNZ Antenna

Upgrade Job #691

Amount:

\$210.00

Component Description: WTNZ Antenna

Upgrade Job #691

**Amount:** \$480.00

Component Description: WTNZ Antenna

Upgrade Job #691

**Amount:** \$420.00

Component Description: Repack Security -

GL#110128

**Amount:** \$240.00

ATC Expenses

Information not provided.

Microwave STL		
	Component Description: Amount:	Antenna HP DP \$40,106.40
	Component Description:	FREIGHT CHARGES
	Amount:	\$2,363.78
	Component Description:	Ubiquiti- Powerbeam 5 GHZ, 400MM- US
	Amount:	\$13,424.53
	Component Description:	MRK Series 19" Gangable
	Amount:	Enclosure \$2,953.48
	Component Description:	IPLink 6GHz Duplex T/R HS,
	Amount:	High RF \$60,126.69
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage	Component Description:	WTNZ-610-
		Equipment Storage
	Amount:	\$1,560.00

Equipment Delivery and Handling Charges	Component Description:	Stowers Rental
		TL642D
	Amount:	\$787.48
	Component Description:	EQUIPMENT
		RENTAL
	Amount:	\$405.21
Disposal Costs (for equipment and other waste,	Component Description:	Service Call
net of any salvage value)	Amount:	\$9,150.00
	Component Description:	Fee, Fuel
		Surcharge
	Amount:	\$1,412.48
	Component Description:	delivery of roll-off
		container, release
		of roll-off container
	Amount:	\$450.00
Non-zoning permits		
	Component Description:	WTNZ-610-Non-
	Amount:	Zoning Permits
	Amount	\$8,500.00
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.	

DTV Medical Facility Notification

Component Description: Medical

Notification Mailing Complete per FCC

Repack

Amount: \$3,750.00

## Cost Information

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,709,635.20	\$3,210,839.14	\$1,910,109.06

Reimbursem	enrestiatus	Response
	The facility has ceased operating on its pre- auction channel.	Yes
	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.

# Bob Pectelidis Director of Corporate Engineering

07/01/2020

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. Bob
Pectelidis
Director of
Corporate
Engineering

07/01/2020

#### **Attachments**