

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID:	19200	Service: DTV	Call Sign:	WTNZ	Channel: 15 (UHF)
File Number:	000002	25079			
FRN: 002	8123164	Date Submitted:	09/28 /2020		

Applicant Name, Type, and Contact Information

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. COM	Limited Liability Company

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

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

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.	Yes
	Briefly describe transition plan	Move station to another close by ATC tower facility. Install new main and backup transmitter

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

Auxiliary Add Transmitter Information

Transmitter Question Response Section **Existing Transmitter** Type of change Retune Description Existing Use Auxiliary (Backup) Ownership Owned N/A Owner Is this transmitter currently shared with No another station? Yes Is this transmitter currently in operating condition? **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 Cos	sts		
	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 Other Transmitter Costs

Auxiliary			
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	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
			1

	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

Other Transmitter Cost Not Listed

AuxiliaryOther Transmitter CoTransmitterInformation not provided.

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

Existing Transmitter Information

Primary	New Transmitter Costs			
Transmitter	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.	

Other Transmitter Costs Primary Transmitter Section

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 feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter	Other Transmitter Cost Not Listed		
	Name	Description	
	Internal Transmission Line	Gases and other items needed for transmission line testing and soldering	
	removal of existing equipment	Station must abandon existing ATC suite and remove its equipment	
	Emergency Generator	250 kW diesel generator and ATS	

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

Primary	Existing Antenna Information			
Antenna	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 Manufacturer and Type	Class	Full Power	
		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	

Existing Antenna Information

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

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?	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 Manufacturer and Types	Class	Full Power	
		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		
			1	

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.

Primary Other Antenna Costs

Antenna	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

Primary	Other Antenna Cost Not Listed		
Antenna	Name	Description	
	Antenna Pedestal	Required 4' pedestal for arbor arm installation	

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

Primary	Existing Transmission Line			
Transmissio	n Line 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	New Transmission Line			
Transmissio	n Line Section	Question	Response	
	New Transmission Line Costs	Use	Primary (Main)	
		Description of Use	N/A	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	No	
		Туре	Rigid	
		Diameter	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	
Transmissio	n Line	Description
	Nitrogen Regulator	Nitrogen Regulator required due to repack

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	Add Tower			
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	

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

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wer N	- Can	Touch	0010

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

Tower Rigging Costs Primary Tower

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

Primary	Add Tower			
Tower	Section	Question	Response	
	Existing Tower Description	Type of change	Move Equipment	
		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 Structure	Do you have a tower registration number?	Yes	
	Registration	ASR Number	1052156	
	Coordinates (NAD83 (North American	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
35908	WVLT-TV	DTV
69161	WUOT	FM
18267	WKOP-TV	DTV

Primary Tower Rigging Costs

Tower

Section	Question	Response
Tower Rigging Costs	Complex Tower	Candelabra
Helicopter Services Required	Are 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?	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

Other Professional Services Expenses Not Listed Professional Services roostsided.

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	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 Not Listed

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		

Transmitters

Cost Information

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

Description Primary Transmitter ULXTE-50	Predetermined Cost Estimate \$1,418,540.37	Estimated Cost \$1,389,887.17	Estimated Cost Justification	Actual Cost \$842,459.31	Actual Cost Justification
Emergency Generator	\$66,552.25	\$66,552.25	see Estimated Cost Justification WTNZ-110- 1st Primary Transmitter - Generator v0	\$0.00	N/A
removal of existing equipment	\$35,000.00	\$35,000.00	N/A	\$0.00	N/A
Internal Transmission Line	\$155.03	\$155.03	Please see WTNZ Primary Transmitter - Internal Transmission Line Revision Justification Cover Letter	\$155.03	N/A
Other Building Addition Size: 800.0	\$45,000.00	\$45,000.00	N/A	\$9,340.14	N/A

10 Ton system	\$38,900.00	\$32,000.00	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: Service panel and distribution for new greenfield ATC suite.	\$75,000.00	\$75,000.00	New greenfield site shell requiring all new electrical distribution	\$71,663.84	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
Transformer 3 phase /480v - 150 KVA	\$25,550.00	\$7,496.80	GatesAir Quote Q- 76710	N/A	N/A
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	\$1,069,683.09	\$1,069,683.09	Estimated Cost Justification WTNZ-110- 1st Primary Transmitter - UHF Liquid Cooled Solid State v1	\$738,357.80	N/A
Service entrance 3 phase/800 amp/208 volt	\$14,400.00	\$13,700.00	N/A	N/A	N/A

Auxiliary Transmitter UAX	\$223,980.00	\$117,033.60		\$76,557.76	
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

UHF and VHF - minor banding issues	\$105,200.00	\$19,891.10	see Estimated Cost Justification WTNZ-150- 1st Auxiliary Transmitter - Retune Existing Transmitter, Minor Banding Issues v0	\$19,891.10	Est not exceeded.
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	\$1,920,278.66	N/A

Components

Actual Information Description	File Name	
Emergency Generator	Information not provided.	
removal of existing equipment	Information not provided.	
Internal Transmission Line	Component Description: Amount:	Cylinder rental \$155.03

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
	Amount:	interior walls \$6,306.64
	Component Description:	Transmitter
	Amount:	\$636.14
	Component Description: Amount:	Copper Strap \$454.00
	Component Description:	WTNZ-110-1st Primary Transmitter -
	Amount:	Building Addition, 800 sq. ft. \$1,250.00
10 Ton system		
	Component Description:	WTNZ-110-1st Primary Transmitter - 10
	Amount:	Ton System \$22,942.50
Other Electrical Service: Service panel and		
distribution for new	Component Description:	Work Order #: S015860
greenfield ATC suite.	Amount:	\$71,663.84
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

Transformer 3 phase/480v - 150 KVA	Information not provided.			
Switchgear - industrial 800 amp	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 kW \$8,881.81		
	Component Description: Amount:	ULXTE-50, 75% payment of comparable equipment \$494,459.87		
	Component Description: Amount:	Enhanced Feature- License- 1 switch \$5,080.08		
	Component Description: Amount:	Transmitter \$76,822.07		
	Component Description: Amount:	Invoice moved to correct budget category. N/A		
	Component Description: Amount:	ULXTE-50 \$90,739.11		
	Component Description: Amount:	A. Transmitter \$244,344.43		

	Component Description: Amount:	ULXTE-50 \$60,528.74
	Component Description:	SMP chassis (dual PS), ATSC Receive
	Amount:	Configuration \$4,695.00
	Component Description:	Invoice moved to correct budget category per NMI message
	Amount:	N/A
	Component Description:	Precision 3430 Small Form Factor
	Amount:	\$1,356.47
	Component Description: Amount:	CABLE \$59.19
	Component Description: Amount:	PLNM 100022 \$86.96
	Component Description:	7401278000 Parallel Surge Suppressor
	Amount:	\$1,699.97
Service entrance 3 phase /800 amp/208 volt	Information not provided.	
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	
DIEakeis		Auxiliary	
		Transmitter - Othe Electrical Service	
	Amount:	\$33,724.16	
2" Rigid Conduit and Wiring (Cost per foot)	Information not provided.		
Transformer 3 phase/480v -	Information not provided.		
150 KVA	momation not provided.		
1.5 kW mask filter	Information not provided.		
UHF and VHF - minor			
banding issues	Component Description:	Channel Change	
	Amount:	UAX-1000AT \$17,105.72	
	Amount.	\$17,105.7Z	
	Component Description:	Channel Change &	
		Proof	
	Amount:	\$1,671.23	
	Component Description:	Channel Change	
		UAX-1000AT per	
		quote GA-	
		00021682	
	Amount:	\$1,114.15	

Antennas

Cost Information

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

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Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna TFU-24GTH /VP-R 04	\$347,430.00	\$272,738.00		\$181,914.37	
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
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
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	\$1,920,278.66	N/A
all					
systems					

Actual Information Description	File Name	
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Amount:	Freight, shipping and handling \$3,339.75
	Component Description:	Antenna UHF high power top mount
	Amount:	\$80,659.12
	Component Description:	Antenna UHF high power top
	Amount:	mount \$80,659.12
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	
	Amount:	- Elbow Complex, 6 1/8 \$213.18	
	Component Description:	WTNZ-210- Primary Antenna - Elbow Complex, 6 1/8"	
	Amount:	\$4,634.10	
	Component Description:	WTNZ-210- Primary Antenna - Elbow Complex,	
	Amount:	6 1/8" \$4,634.10	
Sweep test of existing antenna	Component Description:	Other	
	Amount:	\$640.00	
	Component Description:	WTNZ-210- Primary Antenna - Sweep Test	
	Amount:	\$2,880.00	
	Component Description:	WTNZ-210- Primary Antenna	
	Amount:	- Sweep Test \$2,880.00	

Transmission Line

Cost Information

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
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
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
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	\$1,920,278.66	N/A

Actual Information Description	File Name	
Nitrogen Regulator		
	Component Description: Amount:	Nitrogen Regulator \$1,828.14
Rigid Transmission Line -		

Component Description: Amount:	WTNZ-310- Primary Transmission Line - Rigid Copper, 6 1 /8 \$3,552.93
Component Description: Amount:	T/L 6-75 EIA length 15' to 20' fixed FLG \$3,133.40
Component Description: Amount:	Rigid transmission line-copper \$21,757.06
Component Description: Amount:	RFREIGHT OTHER \$3,376.59
Component Description: Amount:	COLORED VINYL TAPE \$18.86
Component Description: Amount:	WTNZ-310- Primary Transmission Line - Rigid Copper, 6 1 /8" \$97,906.72
Component Description: Amount:	SADDLE KIT 6 T/L 5/8 X 7 LG \$876.40

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 ′ /8"
Amount:	\$97,906.72
Component Description:	Stainless 3/8"
Amount:	angle adapters \$1,602.75

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	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	Ν
Primary Tower GTOWER	\$523,000.00	\$311,268.75		\$311,125.00	
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	Ν
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	Ν
Tower Helicopter Lift	\$56,400.00	\$56,400.00	Tower King II, Inc Proposal C-19-014	\$56,400.00	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	Ν
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	Ν
Sub-total	\$944,000.00	\$720,768.75	N/A	\$311,125.00	Ν
Total for all systems	\$3,709,635.20	\$3,210,839.14	N/A	\$1,920,278.66	N

Actual Information Description	File Name	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	Information not provided.	
ATC Capital Contribution		
	Component Description:	CAPITAL
		CONTRIBUTION
	Amount:	\$5,000.00

Complex Tower (includes, for example, those with candelabras and/or	Component Description:	WTNZ-410-New Primary Tower -
stacked antennas)	Amount:	Complex Tower \$126,505.00
	Component Description: Amount:	Repack work \$2,200.00
	Component Description:	Use of Gap Road property for staging area
	Amount:	\$3,000.00
	Component Description:	WTNZ-410-New Primary Tower - Complex Tower
	Amount:	\$78,420.00
Tower Helicopter Lift		
	Component Description: Amount:	TOWER SERVICE \$34,820.00
	Component Description:	Down Payment for WTNZ Repack
	Amount:	Antenna Project \$21,580.00
Structural engineering tower load study for a documented tower with candelabra	Component Description: Amount:	Broadcast Structural \$19,000.00
Tower Mapping	Component Description:	Broadcast Tower
	Amount:	Mapping \$20,600.00

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	\$244,790.00	\$257,266.10		\$118,938.37	
Project management of the transition	\$126,400.00	\$144,675.00	Widelity Strategic Support Quote	\$94,375.05	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

Total for all	\$3,709,635.20	\$3,210,839.14	N/A	\$1,920,278.66	N//
Sub-total	\$244,790.00	\$257,266.10	N/A	\$118,938.37	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,000.00	N/A	\$74.20	N/#
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,000.00	market phase coordination	N/A	N//
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$5,568.98	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
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare and File FCC Form 2100 (main), Construction Permit Application					
Attorney Fees -	\$5,260.00	\$5,000.00	N/A	N/A	N//

Actual Information Description	File Name	
Project management of the transition	Component Description: Amount:	Project Management \$3,143.20
	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: Amount:	Project Management \$4,761.25
	Component Description: Amount:	Project Management \$3,098.10
	Component Description: Amount:	Project Management \$6,866.25

Component Description: Project Management \$4,945.00 Amount: **Component Description:** Project Management Amount: \$7,524.15 **Component Description:** Project Management Amount: \$2,362.50 **Component Description:** Project Management \$3,227.55 Amount: **Component Description:** Project Management Amount: \$4,061.70 **Component Description:** Project Management Amount: \$2,855.15 **Component Description:** Project Management Amount: \$2,175.00 Project **Component Description:** Management \$4,771.30 Amount: **Component Description:** Project Management \$3,447.50 Amount:

Component Description: Amount:	Widelity information request \$43.63
Component Description: Amount:	Travel Expenses \$893.20
Component Description: Amount:	Project Management \$6,636.05
Component Description: Amount:	Project Management \$2,084.95
Component Description: Amount:	Project Management \$4,220.35
Component Description: Amount:	Project Management \$105.00
Component Description: Amount:	Project Management \$4,848.75
Component Description: Amount:	WTNZ-510-Project Management \$385.00
Component Description: Amount:	Project Management \$4,755.60

	Component Description: Amount:	Project management \$2,324.00
	Component Description: Amount:	Project Management \$3,757.85
	Component Description: Amount:	Project Management \$2,999.90
Additional Field Engineering Service, 1 Days	Component Description:	WTNZ-580-Field Engineering Service - Additional Field Engineering,
	Amount:	1 Day \$752.76
Comprehensive coverage verification via field study, if needed	Component Description:	WTNZ-580-Field Engineering Service - Comprehensive Coverage
	Amount:	Verification \$9,560.78

of lease and other matters	Component Description:	RE: WTNZ Repack
for shared locations		Legal Services
		(19200)
	Amount:	\$441.80
	Component Description:	RE: WTNZ Repack Legal Services
	Amount:	(19200) \$392.00
	Component Description:	RE: WTNZ Repack
		Legal Services
	Amount:	(19200) \$345.60
	Component Description:	RE: WTNZ Repact Legal Services
	Amount:	(19200) \$49.00
	Component Description:	RE: WTNZ Repack Legal Services (19200)
	Amount:	\$2,084.00
	Component Description:	Legal Services
	Amount:	\$903.70
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	Information not provided.	
and File FCC Form 2100 (main), Construction Permit		

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 portior
		of FCC Form 2100
	Amount:	\$2,000.00

for new channel assignment and antenna development	Component Description:	WTNZ-530-RF Eng - Engineering Stud for New Channel
	Amount:	Assignment \$1,568.98
	Component Description:	Repack engineering
	Amount:	\$220.83
	Component Description:	WTNZ-530-RF Eng - Engineering Stud for New Channel Assignment
	Amount:	\$2,250.00
	Component Description:	Engineering study work for new channel assignment and antenna
	Amount:	development. \$125.00
	Component Description:	WTNZ-530-RF Eng - Engineering Stud for New Channel Assignment
	Amount:	\$216.67
	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:	WTNZ Repack legal Services
	Amount:	\$25.20
	Component Description:	RE: WTNZ Repack
		Legal Services (19200)
	Amount:	\$49.00

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 Co Justificati
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

Sub-total	\$226,066.69	\$218,146.69	N/A	\$154,440.05
Notification				•
DTV Medical Facility	\$11,550.00	\$3,750.00	Group quote attached	\$3,750.00
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,000.00	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	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
Disposal Costs (for equipment and other waste, net of any salvage value)	\$25,000.00	\$25,000.00	N/A	\$11,012.48
Equipment Delivery and Handling Charges	\$2,970.00	\$2,970.00	On site forklift rental estimate Representative quote attached	\$1,192.69
Equipment Storage	\$20,000.00	\$20,000.00	Dielectric letter attached	\$1,560.00
Develop and air announcement of upcoming channel change	\$2,850.00	\$2,850.00	estimate for on air rescan announcement production Quote attached	N/A

Actual Information Description	File Name	
Site Security	Component Description: Amount:	WTNZ Antenna Upgrade Job #691 \$450.00
	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:	Repack Security \$210.00
	Component Description: Amount:	WTNZ Antenna Upgrade Job #691 \$240.00
	Component Description: Amount:	WTNZ Antenna Upgrade Job #691 \$480.00
	Component Description: Amount:	Repack Security - GL#110128 \$660.00
	Component Description: Amount:	Repack Security - GL#110128 \$450.00

Component Description:	Repack Security
Amount:	\$240.00
Component Description:	Repack Security
Amount:	\$240.00
Component Description: Amount:	Repack Security - GL#110128 \$660.00
Component Description: Amount:	WTNZ Antenna Upgrade Job #691 \$210.00
Component Description:	Repack Security
Amount:	\$210.00
Component Description:	Repack Security
Amount:	\$270.00
Component Description: Amount:	WTNZ Antenna Upgrade Job #691 \$480.00
Component Description: Amount:	Repack Security - GL#110128 \$240.00
Component Description:	Repack Security
Amount:	\$1,260.00
Component Description:	Repack Security
Amount:	\$510.00

	Component Description: Amount:	WTNZ Antenna Upgrade Job #691 \$420.00
	Component Description: Amount:	Repack Security - GL#110128 \$240.00
	Component Description: Amount:	Repack Security \$270.00
	Component Description: Amount:	Repack Security - GL#110128 \$420.00
	Component Description: Amount:	WTNZ Antenna Upgrade Job #691 \$420.00
ATC Expenses	Information not provided.	

FREIGHT CHARGES \$2,363.78 Ubiquiti- Powerbeam 5 GHZ, 400MM- US \$13,424.53
\$2,363.78 Ubiquiti- Powerbeam 5 GHZ, 400MM- US \$13,424.53
Powerbeam 5 GHZ, 400MM- US \$13,424.53
\$13,424.53
IDI int 6047
Duplex T/R HS,
High RF \$60,126.69
MRK Series 19" Gangable Enclosure
\$2,953.48
WTNZ-610- Equipment Storaç

Equipment Delivery and Handling Charges	Component Description: Amount:	Stowers Rental TL642D \$787.48
	Component Description: Amount:	EQUIPMENT RENTAL \$405.21
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description: Amount:	Service Call \$9,150.00
	Component Description: Amount:	Fee, Fuel Surcharge \$1,412.48
	Component Description: Amount:	delivery of roll-off container, release of roll-off container \$450.00
Non-zoning permits	Component Description: Amount:	WTNZ-610-Non- Zoning Permits \$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.	

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Cost	Grand Total			
Information		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$3,709,635.20	\$3,210,839.14	\$1,920,278.66

Reimbursem	entestiatus	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

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.	
		 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. 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).
- 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.	Bob Pectelidis Director of Corporate Engineering 09/28/2020

Certification	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).	
		 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. 	
		2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.	
		3. 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).
- 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.	Bob Pectelidis Director of Corporate Engineering 09/28/2020

Attachments

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