



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **19200** | Service: **DTV** | Call **WTNZ** | Channel: **15 (UHF)** |
ID: | Sign:
File **0000025079**
Number:
FRN: **0028123164** | Date **02/18**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
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 Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Samuel Hariton <i>Widelity</i>	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

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 and Type	Manufacturer	Harris
	Model	UAX
	Year	2011

Type	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

	Type	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 leasehold 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 **Other Transmitter Cost Not Listed**
Information not provided.

**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	DCX
	Year	2005
	Type	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
	Type	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 leasehold 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
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 Related Expenses	Do you have antenna related expenses?	Yes

**Primary
Antenna**

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 Manufacturer and Type	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Bottom
	Polarization	Horizontal
	Type	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

**Primary
Antenna**

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 Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	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.

Primary Antenna

Other Antenna Costs

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

Other Antenna Cost Not Listed

Name	Description
Antenna Pedestal	Required 4' pedestal for arbor arm installation

**Transmission
Line**

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

**Primary
Transmission
Line**

Existing Transmission Line

Section	Question	Response
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 Line Manufacturer and Type	Manufacturer	
	Type	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
Line** **New Transmission 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
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1500 feet per run
	Justification for New Transmission Line	Station is changing sites and is not able to lease.

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

Information not provided.

Tower Equipment And Rigging Costs

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

Primary Tower

Add Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	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 Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1222895
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	35° 59' 44.4" N-
	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

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

Primary Tower

Add 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 Registration	Do you have a tower registration number?	Yes
	ASR Number	1052156
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	36° 00' 12.8" N-
	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.

Date Constructed

01/01/1955

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

**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 Services Costs

Section	Question	Response
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

**Outside
Professional
Services
Costs**

Information not provided.

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	\$1,418,385.34	\$1,389,732.14		\$990,497.43	
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
Other Electrical Service: Service panel and distribution for new greenfield ATC suite.	<i>\$75,000.00</i>	\$75,000.00	New greenfield site shell requiring all new electrical distribution	N/A	N/A
10 Ton system	\$38,900.00	\$32,000.00	new greenfield site requiring new HVAC	N/A	N/A

Other -- Building Addition Size: 800.0	<i>\$45,000.00</i>	\$45,000.00	N/A	\$8,704.00	N/A
Emergency Generator	<i>\$66,552.25</i>	\$66,552.25	see Estimated Cost Justification WTNZ-110- 1st Primary Transmitter - Generator v0	\$0.00	N/A
removal of existing equipment	<i>\$35,000.00</i>	\$35,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	<i>\$1,069,683.09</i>	\$1,069,683.09	Estimated Cost Justification WTNZ-110- 1st Primary Transmitter - UHF Liquid Cooled Solid State v1	\$981,793.43	N/A
Auxiliary Transmitter UAX	\$223,980.00	\$109,314.10		\$2,785.38	
Other -- Building Addition Size: 200.0	<i>\$15,000.00</i>	\$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)	N/A	N/A
Other Electrical Service: panel board distribution and breakers	<i>\$35,000.00</i>	\$35,000.00	New greenfield site with no existing electrical infrastructure	N/A	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	\$12,171.60	Quote attached (GA-00021682)	\$2,785.38	N/A
Sub-total	\$1,642,365.34	\$1,499,046.24	N/A	\$993,282.81	N/A
Total for all systems	\$3,891,652.03	\$3,356,954.71	N/A	\$1,958,534.01	N/A

Components

Actual Information	
Description	File Name
Service entrance 3 phase /800 amp/208 volt	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
Transformer 3 phase/480v - 150 KVA	Information not provided.
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Other Electrical Service: Service panel and distribution for new greenfield ATC suite.	Information not provided.
10 Ton system	Information not provided.
Other -- Building Addition Size: 800.0	<p>Component Description: Sealed, waterproofed, and coated 42x21x26 interior walls</p> <p>Amount: \$6,306.64</p> <p>Component Description: Equipment Rental for Interior Paint and Seal</p> <p>Amount: \$693.36</p> <p>Component Description: WTNZ-110-1st Primary Transmitter - Building Addition, 800 sq. ft.</p> <p>Amount: \$1,250.00</p> <p>Component Description: Copper Strap</p> <p>Amount: \$454.00</p>
Emergency Generator	Information not provided.

removal of existing equipment	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	Component Description:	ULXTE-50
	Amount:	\$90,739.11
	Component Description:	ULXTE-50, 75% payment of comparable equipment
	Amount:	\$494,459.87
	Component Description:	A. Transmitter
	Amount:	\$244,344.43
	Component Description:	Transmitter
	Amount:	\$76,822.07
	Component Description:	LG Nitrogen 304 CF
	Amount:	\$155.03
	Component Description:	Enhanced Feature- License- 1 switch
	Amount:	\$5,080.08
	Component Description:	CABLE
	Amount:	\$59.19
	Component Description:	PLNM 100022
	Amount:	\$86.96

	<p>Component Description: SMP chassis (dual PS), ATSC Receive Configuration</p> <p>Amount: \$4,695.00</p>
	<p>Component Description: Precision 3430 Small Form Factor</p> <p>Amount: \$1,356.47</p>
	<p>Component Description: Uinstrut and hanger needs to build and hang transmitter</p> <p>Amount: \$636.14</p>
	<p>Component Description: WTNZ- 110-1st Primary Transmitter - UHF Liquid Cooled Solid State, 21-31 kW</p> <p>Amount: \$8,881.81</p>
	<p>Component Description: ULXTE-50</p> <p>Amount: \$60,528.74</p>
Other -- Building Addition Size: 200.0	Information not provided.
10 Ton system	Information not provided.
Other Electrical Service: panel board distribution and breakers	Information not provided.
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.

UHF and VHF - minor
banding issues

Component Description: Channel Change &
Proof
Amount: \$1,671.23

Component Description: Channel Change
UAX-1000AT per
quote GA-
00021682
Amount: \$1,114.15

Cost Information

Antennas

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna TFU-24GTH /VP-R 04	\$536,930.00	\$434,056.24		\$181,914.37	
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$161,318.24	***System Notice: Estimate adjusted and locked because line has been superseded.***	\$0.00	N/A
Antenna Pedestal	<i>\$38,900.00</i>	\$38,900.00	quote attached. Does not include freight	\$1,375.00	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
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	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
Sub-total	\$536,930.00	\$434,056.24	N/A	\$181,914.37	N/A
Total for all systems	\$3,891,652.03	\$3,356,954.71	N/A	\$1,958,534.01	N/A

Components

Actual Information	
Description	File Name
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	Component Description: Please deny this component Amount: N/A
	Component Description: Please deny this component Amount: N/A
Antenna Pedestal	Component Description: WTNZ-210-Primary Antenna - Antenna Pedestal Amount: \$1,375.00

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

Elbow complex, single
channel, at antenna input,
per 6 1/8. feedline (if needed)

Component Description:

WTNZ-210-
Primary Antenna
- Elbow Complex,
6 1/8"

Amount:

\$4,634.10

Component Description:

WTNZ-210-
Primary Antenna
- Elbow Complex,
6 1/8"

Amount:

\$4,634.10

Component Description:

WTNZ-210-
Primary Antenna
- Elbow Complex,
6 1/8"

Amount:

\$213.18

Cost Information

Transmission Line

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$303,000.00	\$233,170.69		\$233,015.66	
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	\$303,000.00	\$233,170.69	N/A	\$233,015.66	N/A
Total for all systems	\$3,891,652.03	\$3,356,954.71	N/A	\$1,958,534.01	N/A

Components

Actual Information	
Description	File Name
Rigid Transmission Line - copper, 6 1/8"	<p>Component Description: WTNZ-310-Primary Transmission Line - Rigid Copper, 6 1/8"</p> <p>Amount: \$97,906.72</p>

Component Description: FREIGHT,
SHIPPING, AND
HANDLING LINE
31 & LINE 32
FEDEX FIRST
OVERNIGHT
Amount: \$2,884.23

Component Description: SADDLE KIT 6 T/L
5/8 X 7 LG
Amount: \$876.40

Component Description: COLORED VINYL
TAPE
Amount: \$18.86

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

Component Description: Rigid transmission
line-copper
Amount: \$21,757.06

Component Description: T/L 6-75 EIA
length 15' to 20'
fixed FLG
Amount: \$3,133.40

Component Description: WTNZ-310-
Primary
Transmission Line
- Rigid Copper, 6 1
/8
Amount: \$3,552.93

Component Description:	RFREIGHT OTHER
Amount:	\$3,376.59

Component Description:	WTNZ-310- Primary Transmission Line - Rigid Copper, 6 1 /8"
Amount:	\$97,906.72

Cost Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Justification
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	
ATC Capital Contribution	<i>\$5,000.00</i>	\$5,000.00	See attached Please see Raycom Purchase Order Corp_WTNZ_ATC_02 and WTNZ American Tower Invoice 460211214	\$5,000.00	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
Tower Helicopter Lift	<i>\$56,400.00</i>	\$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	N
Tower Mapping	<i>\$20,600.00</i>	\$20,600.00	Please see Raycom Purchase Order Corp_WTNZ_ATC_01 and ATC Tower Invoice 460208332	\$20,600.00	N
Sub-total	\$944,000.00	\$720,768.75	N/A	\$311,125.00	N
Total for all systems	\$3,891,652.03	\$3,356,954.71	N/A	\$1,958,534.01	N

Components

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

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

Cost Information

Outside Professional Services

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$244,790.00	\$257,266.10		\$93,256.12	
Project management of the transition	\$126,400.00	\$144,675.00	Widely Strategic Support Quote	\$68,718.00	N/A
Additional Field Engineering Service, 1 Days	<i>\$5,000.00</i>	\$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
Prepare and or review reimbursement form	\$2,630.00	\$2,000.00	N/A	\$49.00	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
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$5,568.98	N/A
Sub-total	\$244,790.00	\$257,266.10	N/A	\$93,256.12	N/A
Total for all systems	\$3,891,652.03	\$3,356,954.71	N/A	\$1,958,534.01	N/A

Components

Actual Information	Description	
Description	File Name	
Project management of the transition	Component Description:	Project Management
	Amount:	\$4,220.35
	Component Description:	Project Management
	Amount:	\$4,848.75
	Component Description:	Project Management
	Amount:	\$4,771.30
	Component Description:	Travel Expenses
	Amount:	\$893.20
	Component Description:	Project Management
Amount:	\$4,945.00	
Component Description:	Project Management	
Amount:	\$7,524.15	
Component Description:	Project Management	
Amount:	\$2,362.50	
Component Description:	Project Management	
Amount:	\$6,636.05	

Component Description: Widely information request
Amount: \$43.63

Component Description: Project management
Amount: \$2,324.00

Component Description: Project Management
Amount: \$4,761.25

Component Description: Project Management
Amount: \$105.00

Component Description: WTNZ-510-Project Management
Amount: \$385.00

Component Description: Project Management
Amount: \$968.87

Component Description: Project Management
Amount: \$3,757.85

Component Description: Project Management
Amount: \$6,866.25

Component Description: Project Management
Amount: \$3,447.50

	<p>Component Description: Project Management</p> <p>Amount: \$2,175.00</p>
	<p>Component Description: Project Management</p> <p>Amount: \$2,084.95</p>
	<p>Component Description: Project Management</p> <p>Amount: \$2,999.90</p>
	<p>Component Description: Project Management</p> <p>Amount: \$2,597.50</p>
Additional Field Engineering Service, 1 Days	<p>Component Description: WTNZ-580-Field Engineering Service - Additional Field Engineering, 1 Day</p> <p>Amount: \$752.76</p>
Comprehensive coverage verification via field study, if needed	<p>Component Description: WTNZ-580-Field Engineering Service - Comprehensive Coverage Verification</p> <p>Amount: \$9,560.78</p>

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

<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>	
<p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p>	<p>Component Description:</p> <p>Amount:</p>	<p>Preparation of the engineering portion of FCC Form 2100 \$2,000.00</p>
	<p>Component Description:</p> <p>Amount:</p>	<p>Preparation of the engineering portion of FCC Form 2100 \$1,625.00</p>
<p>Prepare and or review reimbursement form</p>	<p>Component Description:</p> <p>Amount:</p>	<p>RE: WTNZ Repack Legal Services (19200) \$49.00</p>
<p>Address transition timing and coordination issues w/ other stations and wireless</p>	<p>Information not provided.</p>	

Perform engineering study for new channel assignment and antenna development

Component Description: Repack engineering
Amount: \$220.83

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: WTNZ-530-RF Eng - Engineering Study for New Channel Assignment
Amount: \$1,568.98

Component Description: Repack Engineering
Amount: \$1,187.50

Component Description: WTNZ-530-RF Eng - Engineering Study for New Channel Assignment
Amount: \$2,250.00

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 Cost Justification
Other Expenses	\$220,566.69	\$212,646.69		\$145,940.05	
Non-zoning permits	<i>\$3,000.00</i>	\$3,000.00	N/A	\$0.00	N/A
Site Security	<i>\$9,450.00</i>	\$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	<i>\$19,630.00</i>	\$19,630.00	ATC document attached	N/A	N/A
Microwave STL	<i>\$119,671.69</i>	\$119,671.69	See Estimated Cost Justification WTNZ-610-Microwave STL v1	\$118,974.88	N/A

MVPD Notification of Channel Change	<i>\$5,000.00</i>	\$5,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$2,850.00</i>	\$2,850.00	estimate for on air rescan announcement production Quote attached	N/A	N/A
Equipment Storage	<i>\$20,000.00</i>	\$20,000.00	Dielectric letter attached	\$1,560.00	N/A
Equipment Delivery and Handling Charges	<i>\$2,970.00</i>	\$2,970.00	On site forklift rental estimate Representative quote attached	\$1,192.69	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$25,000.00</i>	\$25,000.00	N/A	\$11,012.48	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$3,750.00	Group quote attached	\$3,750.00	N/A
Sub-total	\$220,566.69	\$212,646.69	N/A	\$145,940.05	N/A
Total for all systems	\$3,891,652.03	\$3,356,954.71	N/A	\$1,958,534.01	N/A

Components

Actual Information Description	File Name
Non-zoning permits	Information not provided.
Site Security	<p data-bbox="715 349 1374 461">Component Description: WTNZ Antenna Upgrade Job #691 Amount: \$240.00</p> <p data-bbox="715 568 1350 640">Component Description: Repack Security Amount: \$1,260.00</p> <p data-bbox="715 748 1374 860">Component Description: WTNZ Antenna Upgrade Job #691 Amount: \$480.00</p> <p data-bbox="715 967 1366 1079">Component Description: Repack Security - GL#110128 Amount: \$660.00</p> <p data-bbox="715 1187 1374 1299">Component Description: WTNZ Antenna Upgrade Job #691 Amount: \$420.00</p> <p data-bbox="715 1406 1350 1478">Component Description: Repack Security Amount: \$270.00</p> <p data-bbox="715 1585 1350 1657">Component Description: Repack Security Amount: \$210.00</p> <p data-bbox="715 1765 1366 1877">Component Description: Repack Security - GL#110128 Amount: \$240.00</p> <p data-bbox="715 1984 1350 2056">Component Description: Repack Security Amount: \$510.00</p>

Component Description: Repack Security -
GL#110128
Amount: \$420.00

Component Description: WTNZ Antenna
Upgrade Job #691
Amount: \$450.00

Component Description: Repack Security
Amount: \$240.00

Component Description: Repack Security
Amount: \$210.00

Component Description: Repack Security -
GL#110128
Amount: \$240.00

Component Description: Repack Security
Amount: \$420.00

Component Description: WTNZ Antenna
Upgrade Job #691
Amount: \$240.00

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: \$450.00

Component Description: Repack Security
Amount: \$270.00

Component Description: WTNZ Antenna
Upgrade Job #691
Amount: \$210.00

Component Description: Repack Security -
GL#110128
Amount: \$660.00

Component Description: Repack Security
Amount: \$240.00

Component Description: Repack Security
Amount: \$210.00

ATC Expenses

Information not provided.

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

Equipment Delivery and Handling Charges	<p>Component Description: EQUIPMENT RENTAL</p> <p>Amount: \$405.21</p> <p>Component Description: Stowers Rental TL642D</p> <p>Amount: \$787.48</p>
Disposal Costs (for equipment and other waste, net of any salvage value)	<p>Component Description: Fee, Fuel Surcharge</p> <p>Amount: \$1,412.48</p> <p>Component Description: delivery of roll-off container, release of roll-off container</p> <p>Amount: \$450.00</p> <p>Component Description: Service Call</p> <p>Amount: \$9,150.00</p>
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	<p>Component Description: Medical Notification Mailing Complete per FCC Repack</p> <p>Amount: \$3,750.00</p>

Cost Information **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$3,891,652.03	\$3,356,954.71	\$1,958,534.01

Reimbursement Status

Question	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
	<p>Submission of Estimated Expenses Statements</p>	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 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 above-named applicant for the Authorization(s) specified above.

Bob Pectelidis
Director of Corporate Engineering

02/18/2020

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p>	
		<ol style="list-style-type: none"> 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. 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) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

Bob Pectelidis
Director of Corporate Engineering

02/18/2020

Attachments