



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **36912** | Service: **DTV** | Call **WSAZ-TV** | Channel: **22 (UHF)** |
ID: | Sign:
File **0000028915**
Number:
FRN: **0018223693** | Date **07/13**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC Doing Business As: WSAZ- TV	WSAZ-TV 4370 Peachtree Road Atlanta, GA 30319 United States	+1 (404) 504-9828	allfccims@gray. tv	Limited Liability Company

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Samuel Hariton <i>Widely, inc.</i>	4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widely.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		WSAZ will be replacing its main transmission line, antenna, and transmitter, its aux antenna. The station will be installing a broadband main antenna and broadband interim antenna to be shared with WQCW. The station will also be installing an interim XMTR

Transmitters

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

**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- Millenium
	Year	2003
	Type	Inductive Output Tube
	IOT Power Type	Three
	Power Capacity	60 kW

**Primary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	ULXTE-72
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	47.2 kW
	Justification for New Transmitter	Existing transmitter cannot be retuned

**Primary
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	500 kVA
	Rigid Conduit and Wiring	Yes
	Size	4 inches
	Length	200.0 feet
	Other Electrical Service	Yes

	Description	The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary Transmitter **Other Transmitter Cost Not Listed**

Name	Description
Basic Site Survey	Basic site survey by GatesAir for planning transmitter(s) installation
BGS	Burk Transmitter Remote WSAZ
Primary Transmitter Installation	Primary Transmitter Installation

Pad for Heat Exchangers	Pad for Heat Exchangers behind new Building
Water needed to flush components	Water needed to flush components
Ice Bridge Building Interconnect	Ice Bridge for interconnection between buildings

**Interim
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	ULXTE-30
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	19.2 kW
	Justification for New Transmitter	Interim transmitter needed to broadcast during the transition

**Interim
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes

	Description	The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractor.
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	20 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	No

**Interim
Transmitter**

Other Transmitter Cost Not Listed

Name	Description
Tower to interim building ice bridge	Tower to interim building ice bridge
Site Prep	Site prep for Construction

Waveguide Switch for Interim	UHF Inside RF System including switching
Building Renovation	Renovate OLD building to install Interim facility

Antennas

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

**Auxiliary
Antenna****Existing Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Backup Antenna
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	724.0 kW

Manufacturer	
Model	TFU- 20DSC-R 04
Year	2002

**Auxiliary
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Backup Antenna
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	Yes
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels/Bays	2
	Lower Limit	476.00 MHz
	Upper Limit	530.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	546.0 kW
	Manufacturer	

Model	SBB-24C170
Year	2017
Justification for New Antenna	Needed for interim operations

Auxiliary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	2
	Frequencies of channels supported	Upper and lower frequency
	Frequency	476.0 MHz - 530.0 MHz
	Do you need a combiner output splitter /switcher for dual feed lines?	No
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	6 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
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

**Auxiliary
Antenna**

Other Antenna Cost Not Listed

Name	Description
Ice Shield	Ice Shield over Coax into old Building for interim

**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	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	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	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	595.0 kW

Manufacturer	
Model	ATW28H3- ETO-23H Trasar
Year	2010

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?	Yes
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Top Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels/Bays	64
	Lower Limit	470.00 MHz
	Upper Limit	698.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	640.0 kW
	Manufacturer	
	Model	PEPSIL60D

	Year	2018
	Justification for New Antenna	Main antenna cannot be retuned, combining with WQCW

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	2
	Frequencies of channels supported	Upper and lower frequency
	Frequency	470.0 MHz - 698.0 MHz
	Do you need a combiner output splitter /switcher for dual feed lines?	No
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	8 3/16 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

Information not provided.

Transmission Line

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

**Auxiliary
Transmission Line**

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Backup
	Ownership	Owned
	Owner	N/A
	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	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	970 feet per run

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

Facility ID	Call Sign
65130	WQCW

Auxiliary
Transmission Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Backup and Interim
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	960 feet per run
	Justification for New Transmission Line	Needed for interim broadcasting

Auxiliary
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Sweep Existing Transmission Line	Sweep of existing transmission line to determine viability on new channel(s)

**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	Owned
	Owner	N/A
	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	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1022 feet per run

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

Facility ID	Call Sign
65130	WQCW

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	8 3/16 inches
	Other Diameter	N/A
	Segment Length	Broadband
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	1022 feet per run
	Justification for New Transmission Line	The current line will not support the combined RF power for two full power transmitters.

Primary
Transmission Line

Other Transmission Line Expenses Not Listed

Name	Description
Primary Transmission Line - Other Electrical Costs	Wiring to power the line dehydrator to pressurize the transmission line

Tower Equipment And Rigging Costs

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

Primary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1035121
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	38° 30' 36.3" N-
	Longitude (NAD83)	082° 13' 09.5" W-
	Overall Structure Height	1029.84 feet
	Support Structure Height	966.20 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1011.14 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	Gray Television Group, Inc.
Date Constructed	10/27/2014

**Primary
Tower**

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

**Primary
Tower**

Tower Rigging Costs

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

**Primary
Tower**

Other Tower Expenses Not Listed

Name	Description
Tower Mapping	Mapping of existing tower.

**Outside
Professional Services Costs**

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	900
	Explanation	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	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes

	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Outside Professional Services Costs **Other Professional Services Expenses Not Listed**

If wireless is 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	No
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
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
Tree Removal		Removal of Trees for Tagline Rigging
Security		Security for Site 60 Days

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
Interim Transmitter ULXTE-30	\$836,736.18	\$715,359.72		\$631,459.30	
Site Prep	<i>\$10,600.00</i>	\$10,600.00	N/A	\$932.40	N/A
Building Renovation	<i>\$38,412.13</i>	\$38,412.13	see Estimated Cost Justification WSAZ-180-Building renovations Interim Transmitter v0	\$38,412.13	N/A
Tower to interim building ice bridge	<i>\$6,917.55</i>	\$6,917.55	See attached Steel Products and Manufacturing quote #003 for Ice Bridge between tower and analog transmitter building.	\$4,345.64	N/A
Waveguide Switch for Interim	<i>\$50,000.00</i>	\$50,000.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$562,623.54	N/A	\$542,962.63	N/A

Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractor.	\$2,000.00	\$2,000.00	N/A	\$0.00	N/A
Other -- HVAC Service Type: C Size:20 (Other)	\$44,806.50	\$44,806.50	20 ton split system shared cost with WQCW. Please see Maynard C. Smith Construction Quote WSAZ-HVACRev1. This quote has been uploaded into LMS and is attached to the submitted invoice.	\$44,806.50	N/A
Primary Transmitter ULXTE-72	\$1,737,169.64	\$1,444,397.15		\$1,375,871.60	
Ice Bridge Building Interconnect	\$12,250.00	\$12,250.00	This is half the cost, other half paid by WQCW. Revised quote uploaded.	\$12,250.00	N/A

Basic Site Survey	\$9,000.00	\$9,000.00	See vendor invoice	\$8,538.60	N/A
BGS	\$2,838.00	\$2,838.00	See attached BGS quote	N/A	N/A
Water needed to flush components	\$1,542.65	\$1,542.65	Please see WSAZ-TV Primary Transmitter - Water needed to flush components Revision Justification Cover Letter	\$1,542.65	N/A
Primary Transmitter Installation	\$10,963.00	\$10,963.00	Please see GatesAir quote Q-85716	\$10,963.00	N/A
Pad for Heat Exchangers	\$74,256.50	\$74,256.50	See Maynard C. Smith Construction Co. Revised Quote WSAZ-SOG101rev3. This is half the cost, other half paid by WQCW	\$74,256.50	N/A

Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	\$84,719.49	\$84,719.49	Whitt-Meadows quote; see invoice Whitt-Meadows Electric, Inc. 9341 & 9388	\$67,914.59	N/A
4" Rigid Conduit and Wiring (Cost per foot)	\$20,200.00	\$19,200.00	N/A	N/A	N/A
Transformer 3 phase/480v - 500 KVA	\$48,400.00	\$46,000.00	N/A	\$18,915.77	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$1,183,627.51	per Estimated Cost Justification WSAZ-110-New 1st Primary Transmitter v0	\$1,181,490.49	N/A
Sub-total	\$2,573,905.82	\$2,159,756.87	N/A	\$2,007,330.90	N/A
Total for all systems	\$5,364,277.56	\$4,192,087.16	N/A	\$3,130,335.65	N/A

Components

Actual Information	
Description	File Name

Site Prep	<div> <div>Component Description:</div> <div>2001010 259 COMPACT TRACK LOADER</div> </div> <div> <div>Amount:</div> <div>\$932.40</div> </div>
Building Renovation	<div> <div>Component Description:</div> <div>Hours Labor - John M. 1/3/20</div> </div> <div> <div>Amount:</div> <div>\$408.11</div> </div> <div> <div>Component Description:</div> <div>Quote # 01. WSAZ Transmitter - Interior Demolition</div> </div> <div> <div>Amount:</div> <div>\$36,889.00</div> </div> <div> <div>Component Description:</div> <div>Furnish and install downspout, cover wood fascia</div> </div> <div> <div>Amount:</div> <div>\$1,115.02</div> </div>
Tower to interim building ice bridge	<div> <div>Component Description:</div> <div>Quote #08 WSAZ Ice Bridge Expansion</div> </div> <div> <div>Amount:</div> <div>\$4,345.64</div> </div>
Waveguide Switch for Interim	Information not provided.

UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	<div> Component Description: ULXTE-30 Transmitter per Quote Q-76430 </div> <div> Amount: \$41,949.47 </div>
	<div> Component Description: Interim Transmitter - UKLTE-30 Transmitter - 70% </div> <div> Amount: \$361,881.52 </div>
	<div> Component Description: ULXTE-30 Transmitter </div> <div> Amount: \$139,131.64 </div>
Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractor.	Information not provided.
Other -- HVAC Service Type: C Size:20 (Other)	<div> Component Description: Quote 04: WSAZ transmitter HVAC101Rev1 </div> <div> Amount: \$44,806.50 </div>
Ice Bridge Building Interconnect	<div> Component Description: Quote #03 WSAZ Ice Bridge Rev 3 </div> <div> Amount: \$12,250.00 </div>
Basic Site Survey	<div> Component Description: Field Engineering Fees </div> <div> Amount: \$8,538.60 </div>
BGS	Information not provided.

Water needed to flush components	Component Description: Amount:	Distilled water \$1,542.65
Primary Transmitter Installation	Component Description: Amount:	FIELD SERVICE, TV \$10,963.00
Pad for Heat Exchangers	Component Description: Amount:	Quote #2 WSAZ SOG101Rev5 \$74,256.50
Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	Component Description: Amount:	Labor and materials \$9,876.01
	Component Description: Amount:	Hours Labor \$1,463.04
	Component Description: Amount:	HOURS LABOR-MARK H.-4/22/19 \$2,233.21
	Component Description: Amount:	Hours labor \$9,127.57
	Component Description: Amount:	NEEPB-700 D 2 1 /2" Bushing \$19,625.76
	Component Description: Amount:	Hours Labor \$8,749.67

	Component Description:	Please deny this invoice
	Amount:	N/A
	Component Description:	Demo install new lights underground conduits
	Amount:	\$5,064.64
	Component Description:	Professional services
	Amount:	\$3,644.00
	Component Description:	Copper Strap, 3in. x .032in. x 100ft.
	Amount:	\$869.00
	Component Description:	Please deny this invoice
	Amount:	N/A
	Component Description:	Set tranfer switch-stored material, hours labor
	Amount:	\$7,261.69
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

Transformer 3 phase/480v - 500 KVA	<div data-bbox="699 174 1343 369"> <div>Component Description:</div> <div>WSAZ-110-Transformer New 1st Primary Transmitter</div> <div>Amount:</div> <div>\$8,324.71</div> </div> <div data-bbox="699 474 1343 627"> <div>Component Description:</div> <div>WIRE NEW TRANSFORMER FOR WSAZ</div> <div>Amount:</div> <div>\$10,591.06</div> </div>
---------------------------------------	---

UHF - Liquid Cooled Solid
State Transmitter 35 - 50
kW

Component Description: ULXTE-72
Transmitter
Amount: \$110,931.22

Component Description: A. Transmitter
Amount: \$270,559.88

Component Description: DEMO EXISTING
WSAZ
TRANSMITTER
Amount: \$462.00

Component Description: FREIGHT
Amount: \$980.23

Component Description: 04/24/2019
7872628 BOTTLE
DEPOSIT 30 @
7.00
Amount: \$451.89

Component Description: Moved to new
category
Amount: N/A

Component Description: ULXTE-72
Transmitter
Amount: \$798,105.27

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 PEPSIL60D	\$877,880.00	\$427,200.00		\$131,008.95	
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,950.00	\$9,000.00	WSAZ's half of the cost	N/A	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$50,000.00	WSAZ's half of the cost	N/A	N/A
Sweep test of existing antenna	\$6,730.00	\$3,200.00	N/A	\$1,760.00	N/A
UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, elliptically or circularly polarized	\$768,000.00	\$365,000.00	WSAZ's half of the cost	\$129,248.95	N/A
Auxiliary Antenna SBB-24C170	\$220,375.63	\$226,713.26		\$187,934.44	

Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$11,000.00	WSAZ's half of the cost	\$4,000.00	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,700.00	\$6,500.00	WSAZ's half of the cost	N/A	N/A
Ice Shield	\$16,960.00	\$16,960.00	WSAZ's half of the cost	\$10,654.35	N/A
Sweep test of existing antenna	\$6,730.00	\$4,718.54	see Estimated Cost Justification WSAZ-250-Sweep test New Auxiliary Antenna v0	\$4,078.54	N/A
UHF " Broadband Panel, Side Mount Auxiliary /Interim, 546 horizontally polarized	\$75,635.63	\$75,635.63	Per DTVPros quote JEHQ1438. This cost is split 50/50 with WQCW	\$74,547.51	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$111,899.09	WSAZ's half of the cost per quote Q-76353r1	\$94,654.04	X
Sub-total	\$1,098,255.63	\$653,913.26	N/A	\$318,943.39	N/A

Total for all systems	\$5,364,277.56	\$4,192,087.16	N/A	\$3,130,335.65	N/A
------------------------------	----------------	----------------	-----	----------------	-----

Components

Actual Information	
Description	File Name
Elbow complex, broadband, at antenna input, per 8 3 /16. feedline (if needed)	Information not provided.
New combiner, cost per channel (without antenna)	Information not provided.
Sweep test of existing antenna	<div> Component Description: WSAZ-210-Sweep test New Primary Antenna Amount: \$800.00 </div> <div> Component Description: Sweep Test Amount: \$960.00 </div>
UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, elliptically or circularly polarized	<div> Component Description: New primary antenna UHF High Power Top Mount (200-1000kW) Amount: \$66,517.20 </div> <div> Component Description: UHF-HIGH POWER TOP MOUNT (200-1000KW) Amount: \$62,731.75 </div>

Side mount brackets for high power antennas (if not included in antenna base cost)	Component Description: Amount:	ANTENNA MOUNT \$2,000.00
	Component Description: Amount:	Antenna Mount \$2,000.00
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
Ice Shield	Component Description: Amount:	Ice shield New Auxillary Antenn \$10,654.35
Sweep test of existing antenna	Component Description: Amount:	WSAZ-Sweep Test New Auxiliary Antenna \$800.00
	Component Description: Amount:	Sweep test New Auxiliary Antenna \$960.00
	Component Description: Amount:	WSAZ-250-Sweep test New Auxiliary Antenna \$800.00
	Component Description: Amount:	WSAZ-250-Sweep test New Auxiliary Antenna \$1,518.54

UHF 48" Broadband Panel, Side Mount Auxiliary /Interim, 546 horizontally polarized	Component Description:		UHF - Broadband Panel
	Amount:		\$14,039.00
	Component Description:		UHF - Broadband Panel, Side Mount Aux/Interim Antenna
	Amount:		\$18,908.91
	Component Description:		UHF - BROADBAND PANEL, SIDE MOUNT AUX /INTERIM
	Amount:		\$18,908.91
	Component Description:		UHF - BROADBAND PANEL, SIDE MOUNT AUX /INTERIM
	Amount:		\$22,690.69
New combiner, cost per channel (without antenna)	Component Description:		Interim Channel Combiner
	Amount:		\$78,329.36
	Component Description:		Interim Channel Combiner
	Amount:		\$16,324.68

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	\$408,098.71	\$193,989.71		\$164,457.45	
Primary Transmission Line - Other Electrical Costs	<i>\$320.71</i>	\$320.71	WSAZ-TV Transmission Line - Other Electrical Revision Justification Cover Letter	\$320.71	N/A
Rigid Transmission Line - copper, 8 3/16" broadband	\$407,778.00	\$193,669.00	WSAZ's half of the cost	\$164,136.74	N/A
Auxiliary Transmission Line	\$225,720.00	\$153,921.02		\$90,947.34	
Rigid Transmission Line - copper, 6 1/8" broadband	\$222,720.00	\$150,921.02	WSAZ's half of the cost, per Verified Budget justification uploaded to LMS	\$88,303.74	N/A
Sweep Existing Transmission Line	<i>\$3,000.00</i>	\$3,000.00	See vendor invoice	\$2,643.60	N/A
Sub-total	\$633,818.71	\$347,910.73	N/A	\$255,404.79	N/A
Total for all systems	\$5,364,277.56	\$4,192,087.16	N/A	\$3,130,335.65	N/A

Components

Actual Information		
Description	File Name	
Primary Transmission Line - Other Electrical Costs	Component Description:	Electrical Costs
	Amount:	\$320.71
Rigid Transmission Line - copper, 8 3/16" broadband	Component Description:	MACX875B-1
	Amount:	\$37,459.13
	Component Description:	LEASE CYL INO LARGE
	Amount:	\$192.60
	Component Description:	LEASE CYL IND LARGE
	Amount:	\$187.25
	Component Description:	8-3/16-inch, 75 ohm, 20 foot MACXLine section
	Amount:	\$44,074.95
	Component Description:	Invoice moved to the correct budget category
	Amount:	N/A
	Component Description:	20 foot MACXLine section
	Amount:	\$37,459.13
	Component Description:	New Primary Transmission Line
	Amount:	\$44,950.93

Rigid Transmission Line - copper, 6 1/8" broadband	<div> Component Description: RIGID TRANSMISSION LINE - COPPER </div> <div> Amount: \$18,865.12 </div>
	<div> Component Description: Rigid Transmission Line </div> <div> Amount: \$27,935.35 </div>
	<div> Component Description: Rigid Transmission Line - Copper </div> <div> Amount: \$18,865.12 </div>
	<div> Component Description: New Auxiliary Transmission Line </div> <div> Amount: \$22,638.15 </div>
Sweep Existing Transmission Line	<div> Component Description: Sweep test of transmission line and antenna </div> <div> Amount: \$2,643.60 </div>

Cost
Information

Tower Equipment and Rigging Costs

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

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower GTOWER	\$661,060.00	\$651,328.75		\$248,530.10	
Tall Tower (greater than 500')	\$210,500.00	\$215,118.75	see Estimated Cost Justification WSAZ-410-Install antennas and lines on Existing Primary Tower v0	\$201,925.10	N/A
Major tower reinforcement /modifications	\$421,000.00	\$400,000.00	N/A	\$15,245.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$19,250.00	Includes state and local taxes; Hodge Proposal 2019-Gray-WSAZ-Geotech-0102-N	\$19,250.00	N/A
Tower Mapping	\$16,960.00	\$16,960.00	N/A	\$12,110.00	N/A
Sub-total	\$661,060.00	\$651,328.75	N/A	\$248,530.10	N/A
Total for all systems	\$5,364,277.56	\$4,192,087.16	N/A	\$3,130,335.65	N/A

Components

Actual Information	
Description	File Name
Tall Tower (greater than 500')	
	Component Description: RF Technical work
	Amount: \$5,660.48
	Component Description: Install antennas and lines on Existing Primary Tower
	Amount: \$41,056.25
	Component Description: Tower Rigging Services - Tall tower 500'
	Amount: \$123,168.75
	Component Description: Professional Engineering Services
	Amount: \$12,500.00
	Component Description: RF Technical work to be performed during interim antenna installation
	Amount: \$5,245.87
	Component Description: Added cost for tower crew to remove eng antenna
	Amount: \$14,293.75

Major tower reinforcement /modifications	<table> <tr> <td data-bbox="713 100 1023 387">Component Description:</td><td data-bbox="1023 100 1428 387">Phase 1. Provide plan view of the antenna power divider installed withi the WSAZ tower.</td></tr> <tr> <td data-bbox="713 387 1023 477">Amount:</td><td data-bbox="1023 387 1428 477">\$3,450.00</td></tr> <tr> <td data-bbox="713 477 1023 763">Component Description:</td><td data-bbox="1023 477 1428 763">Engineering Materials & Freight</td></tr> <tr> <td data-bbox="713 763 1023 853">Amount:</td><td data-bbox="1023 763 1428 853">\$9,295.00</td></tr> <tr> <td data-bbox="713 853 1023 1140">Component Description:</td><td data-bbox="1023 853 1428 1140">Install antennas and lines on Existing Primary Tower</td></tr> <tr> <td data-bbox="713 1140 1023 1229">Amount:</td><td data-bbox="1023 1140 1428 1229">\$2,500.00</td></tr> </table>	Component Description:	Phase 1. Provide plan view of the antenna power divider installed withi the WSAZ tower.	Amount:	\$3,450.00	Component Description:	Engineering Materials & Freight	Amount:	\$9,295.00	Component Description:	Install antennas and lines on Existing Primary Tower	Amount:	\$2,500.00				
Component Description:	Phase 1. Provide plan view of the antenna power divider installed withi the WSAZ tower.																
Amount:	\$3,450.00																
Component Description:	Engineering Materials & Freight																
Amount:	\$9,295.00																
Component Description:	Install antennas and lines on Existing Primary Tower																
Amount:	\$2,500.00																
Structural engineering tower load study for well documented tower	<table> <tr> <td data-bbox="713 1059 1023 1346">Component Description:</td><td data-bbox="1023 1059 1428 1346">Engineering Evaluation, Level 1 Corrosion Risk Analysis</td></tr> <tr> <td data-bbox="713 1346 1023 1435">Amount:</td><td data-bbox="1023 1346 1428 1435">\$4,000.00</td></tr> <tr> <td data-bbox="713 1435 1023 1722">Component Description:</td><td data-bbox="1023 1435 1428 1722">Engineering Evaluation, Level 1 Corrosion Risk Analysis</td></tr> <tr> <td data-bbox="713 1722 1023 1812">Amount:</td><td data-bbox="1023 1722 1428 1812">\$4,000.00</td></tr> <tr> <td data-bbox="713 1812 1023 2098">Component Description:</td><td data-bbox="1023 1812 1428 2098">GeoTech Survey Foundation Analysis</td></tr> <tr> <td data-bbox="713 2098 1023 2188">Amount:</td><td data-bbox="1023 2098 1428 2188">\$9,000.00</td></tr> <tr> <td data-bbox="713 2188 1023 2123">Component Description:</td><td data-bbox="1023 2188 1428 2123">Rigorous Analysis</td></tr> <tr> <td data-bbox="713 2123 1023 2188">Amount:</td><td data-bbox="1023 2123 1428 2188">\$2,250.00</td></tr> </table>	Component Description:	Engineering Evaluation, Level 1 Corrosion Risk Analysis	Amount:	\$4,000.00	Component Description:	Engineering Evaluation, Level 1 Corrosion Risk Analysis	Amount:	\$4,000.00	Component Description:	GeoTech Survey Foundation Analysis	Amount:	\$9,000.00	Component Description:	Rigorous Analysis	Amount:	\$2,250.00
Component Description:	Engineering Evaluation, Level 1 Corrosion Risk Analysis																
Amount:	\$4,000.00																
Component Description:	Engineering Evaluation, Level 1 Corrosion Risk Analysis																
Amount:	\$4,000.00																
Component Description:	GeoTech Survey Foundation Analysis																
Amount:	\$9,000.00																
Component Description:	Rigorous Analysis																
Amount:	\$2,250.00																

Tower Mapping		
	Component Description:	Tower Mapping
	Amount:	\$7,610.00
	Component Description:	Tower mapping
		Existing Primary
		Tower
	Amount:	\$4,500.00

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	\$185,015.00	\$175,250.00		\$143,928.05	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$1,100.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$1,862.50	N/A
Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$7,000.00	N/A	\$4,299.50	N/A

Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	\$962.00	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$133,391.05	N/A
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	\$1,169.50	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$196.50	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	\$725.00	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$222.00	N/A
Sub-total	\$185,015.00	\$175,250.00	N/A	\$143,928.05	N/A
Total for all systems	\$5,364,277.56	\$4,192,087.16	N/A	\$3,130,335.65	N/A

Components

Actual Information
Description

File Name

<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<table> <tr> <td data-bbox="702 174 1018 210">Component Description:</td><td data-bbox="1145 174 1378 286">WSAZ-530-RF Eng 2100 license to cover (main)</td></tr> <tr> <td data-bbox="702 297 817 333">Amount:</td><td data-bbox="1145 297 1246 333">\$850.00</td></tr> <tr> <td data-bbox="702 434 1018 470">Component Description:</td><td data-bbox="1145 434 1276 506">Consulting Engineer</td></tr> <tr> <td data-bbox="702 517 817 553">Amount:</td><td data-bbox="1145 517 1246 553">\$250.00</td></tr> </table>	Component Description:	WSAZ-530-RF Eng 2100 license to cover (main)	Amount:	\$850.00	Component Description:	Consulting Engineer	Amount:	\$250.00
Component Description:	WSAZ-530-RF Eng 2100 license to cover (main)								
Amount:	\$850.00								
Component Description:	Consulting Engineer								
Amount:	\$250.00								
<p>RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application</p>	<p>Information not provided.</p>								
<p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p>	<table> <tr> <td data-bbox="702 958 1018 994">Component Description:</td><td data-bbox="1145 958 1382 994">RF Consulting Fees</td></tr> <tr> <td data-bbox="702 1005 817 1041">Amount:</td><td data-bbox="1145 1005 1268 1041">\$1,487.50</td></tr> <tr> <td data-bbox="702 1142 1018 1178">Component Description:</td><td data-bbox="1145 1142 1366 1370">support response to review of reimbursement form 399 provide summaries of additional antenna</td></tr> <tr> <td data-bbox="702 1382 817 1417">Amount:</td><td data-bbox="1145 1382 1246 1417">\$375.00</td></tr> </table>	Component Description:	RF Consulting Fees	Amount:	\$1,487.50	Component Description:	support response to review of reimbursement form 399 provide summaries of additional antenna	Amount:	\$375.00
Component Description:	RF Consulting Fees								
Amount:	\$1,487.50								
Component Description:	support response to review of reimbursement form 399 provide summaries of additional antenna								
Amount:	\$375.00								

Perform engineering study
for new channel
assignment and antenna
development

Component Description:

Review proposed
antenna
specifications from
additional vendor,
discuss vendor and
prompt
recalculation of
gain required TPO.

Amount:

\$125.00

Component Description:

Consulting
Engineer

Amount:

\$425.00

Component Description:

Provide additional
FCC contour

Amount:

\$150.00

Component Description:

Consulting
Engineer- J. Davis
- Hourly (@ \$250
/hr)

Amount:

\$550.00

Component Description:

Perform
engineering study
for new channel
assignment

Amount:

\$812.50

Component Description:

Engineering Study
for New Channel
Assignment

Amount:

\$1,062.00

Component Description:

Consulting
Engineer

Amount:

\$1,175.00

Address transition timing and coordination issues w/ other stations and wireless	<div> Component Description: Review linked set information for WSAZ </div> <div> Amount: \$962.00 </div>
Prepare and or review reimbursement form	Information not provided.
Project management of the transition	<div> Component Description: Project Management </div> <div> Amount: \$2,006.25 </div> <div> Component Description: Project Management </div> <div> Amount: \$2,265.25 </div> <div> Component Description: Project Mgt </div> <div> Amount: \$733.30 </div> <div> Component Description: Project Management </div> <div> Amount: \$6,393.70 </div> <div> Component Description: Project Management </div> <div> Amount: \$3,016.15 </div> <div> Component Description: Project Management </div> <div> Amount: \$3,742.20 </div> <div> Component Description: Project Management </div> <div> Amount: \$3,841.95 </div>

Component Description:	Mailing: Print and mail a two page, black and white generically addressed letter
Amount:	\$2,877.50

Component Description:	Project Management
Amount:	\$3,533.40

Component Description:	Project Management
Amount:	\$5,479.40

Component Description:	Project Management
Amount:	\$4,072.30

Component Description:	Project Management
Amount:	\$6,372.10

Component Description:	Project Management
Amount:	\$5,925.75

Component Description:	Project Management
Amount:	\$7,088.40

Component Description:	Project Management
Amount:	\$8,045.05

Component Description:	Project Management
Amount:	\$3,899.50

Component Description:	Project Management
Amount:	\$2,285.40

Component Description:	Project Mgt
Amount:	\$28.20

Component Description:	Project Management
Amount:	\$1,930.60

Component Description:	Project Management
Amount:	\$4,329.75

Component Description:	Cost Reconciliation
Amount:	\$3,496.70

Component Description:	Project Management
Amount:	\$2,270.60

Component Description:	Project Management
Amount:	\$3,473.35

Component Description:	Cost Reconciliation
Amount:	\$3,501.45

Component Description:	Project Management
Amount:	\$4,989.45

Component Description:	Project Mgt
Amount:	\$1,326.45

Component Description:	Project Management
Amount:	\$2,270.10

Component Description:	Project Management
Amount:	\$5,979.40

Component Description:	Project management
Amount:	\$2,675.15

Component Description:	Project Management
Amount:	\$4,831.90

Component Description:	Project Management
Amount:	\$1,968.10

Component Description:	Project management
Amount:	\$2,231.90

Component Description:	Project Management
Amount:	\$3,958.55

	Component Description: Amount:	Project Mgt \$2,942.30
	Component Description: Amount:	Project Management \$2,452.40
	Component Description: Amount:	Project Mgt \$3,488.80
	Component Description: Amount:	Project Mgt \$839.75
	Component Description: Amount:	Project management \$1,328.55
	Component Description: Amount:	Transition Related Project Management Costs \$1,500.00
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
ASR modification (prepare FCC Form 854)	Information not provided.	

<p>Attorney Fees - Prepare and File request for Special Temporary Authorization</p>	<table> <tr> <td>Component Description:</td><td>Professional Services</td></tr> <tr> <td>Amount:</td><td>\$207.50</td></tr> <tr> <td>Component Description:</td><td>Total Professional Services</td></tr> <tr> <td>Amount:</td><td>\$962.00</td></tr> </table>	Component Description:	Professional Services	Amount:	\$207.50	Component Description:	Total Professional Services	Amount:	\$962.00
Component Description:	Professional Services								
Amount:	\$207.50								
Component Description:	Total Professional Services								
Amount:	\$962.00								
<p>Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application</p>	<p>Information not provided.</p>								
<p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p>	<table> <tr> <td>Component Description:</td><td>Complete and file initial repack CP application.</td></tr> <tr> <td>Amount:</td><td>\$196.50</td></tr> </table>	Component Description:	Complete and file initial repack CP application.	Amount:	\$196.50				
Component Description:	Complete and file initial repack CP application.								
Amount:	\$196.50								
<p>Prepare request for Special Temporary Authorization</p>	<table> <tr> <td>Component Description:</td><td>WSAZ-530-RF Eng STA</td></tr> <tr> <td>Amount:</td><td>\$725.00</td></tr> </table>	Component Description:	WSAZ-530-RF Eng STA	Amount:	\$725.00				
Component Description:	WSAZ-530-RF Eng STA								
Amount:	\$725.00								
<p>RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application</p>	<p>Information not provided.</p>								
<p>Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application</p>	<table> <tr> <td>Component Description:</td><td>Total Professional Services</td></tr> <tr> <td>Amount:</td><td>\$222.00</td></tr> </table>	Component Description:	Total Professional Services	Amount:	\$222.00				
Component Description:	Total Professional Services								
Amount:	\$222.00								

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	\$212,222.40	\$203,927.55		\$156,198.42	
Security	<i>\$9,000.00</i>	\$9,000.00	Cost shared between stations	\$5,045.07	N/A
Tree Removal	<i>\$12,349.00</i>	\$12,349.00	N/A	\$12,349.00	Sub-total equals Estimated Cost
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	Per Estimated Cost Justification WSAZ-610-MVPD Notification v0	\$2,000.00	N/A
Develop and air announcement of upcoming channel change	<i>\$10,000.00</i>	\$10,000.00	N/A	\$289.90	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$98,320.36</i>	\$98,320.36	see Estimated Cost Justification WSAZ-610-Disposal Costs v4	\$98,320.36	Invoices total estimate.
DTV Medical Facility Notification	\$11,550.00	\$3,050.15	N/A	N/A	N/A

Equipment Storage	\$21,400.00	\$21,400.00	Storage Rates Central Van and Storage quote	\$2,046.05	N/A
Equipment Delivery and Handling Charges	\$35,413.04	\$35,413.04	Per Estimated Cost Justification WSAZ-610-Equipment Delivery v2	\$35,413.04	N/A
Non-zoning permits	\$11,660.00	\$11,660.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$400.00	Please see Estimated Cost Justification WSAZ-610-STA FCC Filing Fees v0	\$400.00	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$335.00	see Estimated Cost Justification WSAZ-610-License to Cover FCC Filing Fees v0	\$335.00	N/A
Sub-total	\$212,222.40	\$203,927.55	N/A	\$156,198.42	N/A
Total for all systems	\$5,364,277.56	\$4,192,087.16	N/A	\$3,130,335.65	N/A

Components

Actual Information
Description

File Name

Security	Component Description:	Security Officer
	Amount:	\$151.05
	Component Description:	SECURITY OFFICER
	Amount:	\$4,894.02
Tree Removal	Component Description:	Clear cut NE corner
	Amount:	\$1,908.00
	Component Description:	Trees cut X3 - pin oak - left side of tower
	Amount:	\$4,452.00
	Component Description:	Barker Ridge - clear cut back side of Tower site
	Amount:	\$5,300.00
	Component Description:	Tree removal - SE corner
	Amount:	\$689.00
MVPD Notification of Channel Change	Component Description:	Total Professional Services
	Amount:	\$2,000.00
Develop and air announcement of upcoming channel change	Component Description:	Total Professional Services
	Amount:	\$289.90
Disposal Costs (for equipment and other waste, net of any salvage	Component Description:	
	Amount:	

value)

Component Description:	1 Waste Container
Amount:	\$101.43

Component Description:	1 waste container 40 Cu Yd, on call service
Amount:	\$101.50

Component Description:	1 Waste Container 40 Cu Yd, On Call Service
Amount:	\$685.16

Component Description:	"1 Waste Container 40 Cu Yd, On Call Service Rental 07 /01-07/31"
Amount:	\$100.71

Component Description:	1 Waste Container
Amount:	\$804.91

Component Description:	1 Waste Container 40 Cu Yd, On Call Service
Amount:	\$872.47

Component Description:	1 Waste Container 40 Cu Yd, On Call Service
Amount:	\$100.71

Component Description:	1 Waste Container 40 Cu Yd
Amount:	\$101.25

Component Description:	TANK 550GAL UPRIGHT
Amount:	\$953.98
Component Description:	1 Waste Container Rental
Amount:	\$101.25
Component Description:	Fee Fuel Surcharge
Amount:	\$1,139.30
Component Description:	1 Waste Container 40 Cu Yd. On Call Service
Amount:	\$782.43
Component Description:	Removal of old television tower at Barkers Ridge Facility
Amount:	\$7,240.00
Component Description:	1 Waste Container 40 Cu Yd, On Call Service
Amount:	\$153.06
Component Description:	Fee Fuel Surcharge
Amount:	\$1,245.30
Component Description:	Quote # WSAZ Demo
Amount:	\$83,000.00
Component Description:	1 Waste Container
Amount:	\$735.47

	<div> <div>Component Description:</div> <div>1 Waste Container 40 Cu Yd, On Call Service</div> </div> <div> <div>Amount:</div> <div>\$101.43</div> </div>
DTV Medical Facility Notification	Information not provided.
Equipment Storage	<div> <div>Component Description:</div> <div>40' STANDARD TRI CAM CONTAINER SN</div> </div> <div> <div>Amount:</div> <div>\$164.06</div> </div> <div> <div>Component Description:</div> <div>40' STANDARD TRI CAM CONTAINER</div> </div> <div> <div>Amount:</div> <div>\$1,107.46</div> </div> <div> <div>Component Description:</div> <div>40' STANDARD TRI CAM CONTAINER QS40VZS0019</div> </div> <div> <div>Amount:</div> <div>\$164.06</div> </div> <div> <div>Component Description:</div> <div>Uline pallet truck</div> </div> <div> <div>Amount:</div> <div>\$446.41</div> </div> <div> <div>Component Description:</div> <div>40' Standard Tri Cam Container</div> </div> <div> <div>Amount:</div> <div>\$164.06</div> </div>
Equipment Delivery and Handling Charges	<div> <div>Component Description:</div> <div>2LID1 #1451358, Zone 3 Delivery Charge</div> </div> <div> <div>Amount:</div> <div>\$692.05</div> </div>

Component Description:	Compact Track Loader
Amount:	\$1,199.00

Component Description:	Rental Unit
Amount:	\$456.60

Component Description:	Telehandler
Amount:	\$2,511.00

Component Description:	Rental Unit
Amount:	\$238.50

Component Description:	2071000 TL642 Telehandler
Amount:	\$2,511.00

Component Description:	2071000 TL642 Telehandler
Amount:	\$2,511.00

Component Description:	LIFT 19' SCISSOR
Amount:	\$313.50

Component Description:	Fuel Charge
Amount:	\$162.50

Component Description:	2071010 TL943 Telehandler
Amount:	\$2,511.00

Component Description:	ZONE 3 DELIVERY CHARGE
Amount:	\$2,841.58

Component Description:	Equipment Rental
Amount:	\$2,694.00

Component Description:	Rental Items 2071010 TL943 TELEHANDLER
Amount:	\$489.45

Component Description:	Environmental Charge
Amount:	\$2,711.00

Component Description:	2071010 TL943 Telehandler
Amount:	\$1,674.00

Component Description:	Telehandler
Amount:	\$564.98

Component Description:	Rental Items
Amount:	\$2,594.00

Component Description:	2071000 TL642 Telehandler
Amount:	\$568.90

Component Description:	2071000 TL642 TELEHANDLER
Amount:	\$2,494.00

Component Description:	Lift 19' Scissor
Amount:	\$381.60

	Component Description: 4LID1#1451358, Zone 3 Delivery Charge	
	Amount: \$677.17	
	Component Description: 2 LID #1451358, Zone 3 Delivery Charge	
	Amount: \$662.56	
	Component Description: 2073000 TH255 TELEHANDLER	
	Amount: \$2,142.00	
	Component Description: 2071010 TL943 TELEHANDLER	
	Amount: \$489.45	
	Component Description: Rental of a TL642D Telehandler	
	Amount: \$620.50	
	Component Description: 57 LID #1451451 Zone 3 Delivery Charge	
	Amount: \$701.70	
Non-zoning permits	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Component Description: WSAZ-610-STA FCC Filing Fee Amount: \$400.00	

FCC Filing Fees - Form 2100 license to cover application	Component Description: Amount:	WSAZ-610-License to Cover FCC Filing Fees \$335.00
--	---	---

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$5,364,277.56	\$4,192,087.16
			\$3,130,335.65

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<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.

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

07/13/2020

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.

<p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>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.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Robert Folliard , III . <i>Assistant Secretary</i></p> <p>07/13/2020</p>

Attachments