



(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 **02/16**
Submitted: **/2021**

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
BGS	Burk Transmitter Remote WSAZ
Ice Bridge Building Interconnect	Ice Bridge for interconnection between buildings
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
Basic Site Survey	Basic site survey by GatesAir for planning transmitter(s) installation

**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
Site Prep	Site prep for Construction
Tower to interim building ice bridge	Tower to interim building ice bridge

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

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 **New Transmission Line**
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 **Other Transmission Line Expenses Not Listed**
Transmission Line

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**

Section	Question	Response
Services Costs 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
Security	Security for Site 60 Days
Tree Removal	Removal of Trees for Tagline Rigging
Auxiliary license to cover filing fees	Auxiliary license to cover filing fees

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	
Waveguide Switch for Interim	<i>\$50,000.00</i>	\$50,000.00	N/A	N/A	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
Site Prep	<i>\$10,600.00</i>	\$10,600.00	N/A	\$932.40	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
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
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$684,000.00	\$562,623.54	N/A	\$542,962.63	N/A
Primary Transmitter ULXTE-72	\$1,737,169.64	\$1,444,397.15		\$1,375,175.10	
Basic Site Survey	\$9,000.00	\$9,000.00	See vendor invoice	\$8,538.60	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	\$846.15	N/A
BGS	\$2,838.00	\$2,838.00	See attached BGS quote	N/A	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
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

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
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
Sub-total	\$2,573,905.82	\$2,159,756.87	N/A	\$2,006,634.40	N/A
Total for all systems	\$5,374,414.52	\$4,267,058.52	N/A	\$3,342,407.49	N/A

Components

Actual Information	
Description	File Name
Waveguide Switch for Interim	Information not provided.

Building Renovation	Component Description: Hours Labor - John M. 1/3/20 Amount: \$408.11
	Component Description: Quote # 01. WSAZ Transmitter - Interior Demolition Amount: \$36,889.00
	Component Description: Furnish and install downspout, cover wood fascia Amount: \$1,115.02
Tower to interim building ice bridge	Component Description: Quote #08 WSAZ Ice Bridge Expansion Amount: \$4,345.64
Site Prep	Component Description: 2001010 259 COMPACT TRACK LOADER Amount: \$932.40
Other -- HVAC Service Type: C Size:20 (Other)	Component Description: Quote 04: WSAZ transmitter HVAC101Rev1 Amount: \$44,806.50
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 contractor.	Information not provided.

UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	Component Description:		ULXTE-30
			Transmitter per
			Quote Q-76430
	Amount:		\$41,949.47
	Component Description:		ULXTE-30
			Transmitter
Basic Site Survey	Amount:		\$139,131.64
	Component Description:		Interim Transmitter -
			UKLTE-30
			Transmitter - 70%
	Amount:		\$361,881.52
Water needed to flush components	Component Description:		Field Engineering
			Fees
	Amount:		\$8,538.60
	Component Description:		Distilled water
	Amount:		\$1,542.65
BGS	Component Description:		Vendor Credit
	Amount:		(\$696.50)
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.		

Transformer 3 phase/480v - 500 KVA		
	Component Description:	WIRE NEW TRANSFORMER FOR WSAZ
	Amount:	\$10,591.06
	Component Description:	WSAZ-110- Transformer New 1st Primary Transmitter
	Amount:	\$8,324.71

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description:	ULXTE-72 Transmitter
	Amount:	\$110,931.22
	Component Description:	DEMO EXISTING WSAZ TRANSMITTER
	Amount:	\$462.00
	Component Description:	FREIGHT
	Amount:	\$980.23
	Component Description:	A. Transmitter
Primary Transmitter Installation	Amount:	\$270,559.88
	Component Description:	04/24/2019 7872628 BOTTLE DEPOSIT 30 @ 7.00
	Amount:	\$451.89
	Component Description:	ULXTE-72 Transmitter
	Amount:	\$798,105.27
	Component Description:	Moved to new category
	Amount:	N/A
Primary Transmitter Installation	Component Description:	FIELD SERVICE, TV
	Amount:	\$10,963.00

Pad for Heat Exchangers	<div> Component Description: Quote #2 WSAZ SOG101Rev5 </div> <div> Amount: \$74,256.50 </div>
Ice Bridge Building Interconnect	<div> Component Description: Quote #03 WSAZ Ice Bridge Rev 3 </div> <div> Amount: \$12,250.00 </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 contractors.	<div> Component Description: Copper Strap, 3in. x .032in. x 100ft. </div> <div> Amount: \$869.00 </div>
	<div> Component Description: HOURS LABOR-MARK H.-4/22/19 </div> <div> Amount: \$2,233.21 </div>
	<div> Component Description: Hours Labor </div> <div> Amount: \$1,463.04 </div>
	<div> Component Description: Labor and materials </div> <div> Amount: \$9,876.01 </div>
	<div> Component Description: Please deny this invoice </div> <div> Amount: N/A </div>
	<div> Component Description: Please deny this invoice </div> <div> Amount: N/A </div>
	<div> Component Description: Professional services </div> <div> Amount: \$3,644.00 </div>

Component Description:	Set tranfer switch- stored material, hours labor
Amount:	\$7,261.69

Component Description:	Demo install new lights underground conduits
Amount:	\$5,064.64

Component Description:	NEEPB-700 D 2 1 /2" Bushing
Amount:	\$19,625.76

Component Description:	Hours Labor
Amount:	\$8,749.67

Component Description:	Hours labor
Amount:	\$9,127.57

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		\$254,037.00	
Sweep test of existing antenna	\$6,730.00	\$3,200.00	N/A	\$2,560.00	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	\$251,477.00	N/A
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
Auxiliary Antenna SBB-24C170	\$220,375.63	\$226,713.26		\$187,934.44	

Ice Shield	\$16,960.00	\$16,960.00	WSAZ's half of the cost	\$10,654.35	N/A
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
UHF â€œ 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
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
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	\$441,971.44	N/A

Total for all systems	\$5,374,414.52	\$4,267,058.52	N/A	\$3,342,407.49	N/A
------------------------------	----------------	----------------	-----	----------------	-----

Components

Actual Information	
Description	File Name
Sweep test of existing antenna	Component Description:
	WSAZ-210-Sweep test New Primary Antenna
	Amount:
	\$800.00
	Component Description:
	Sweep Test
	Amount:
	\$960.00
	Component Description:
	WSAZ-210-Sweep test New Primary Antenna
	Amount:
	\$800.00

UHF - High Power Top Mount (200-1000 kW), Two Station broadband panel antenna, elliptically or circularly polarized	Component Description: UHF-HIGH POWER TOP MOUNT (200-1000KW) Amount: \$62,731.75
	Component Description: New primary antenna UHF High Power Top Mount (200-1000kW) Amount: \$66,517.20
	Component Description: UHF- High Power Top Mount Amount: \$62,731.75
	Component Description: UHF-HIGH POWER TOP MOUNT (200-1000KW) Amount: \$50,735.40
	Component Description: UHF-HIGH POWER TOP MOUNT (200-1000KW) Amount: \$8,760.90
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.
Ice Shield	Component Description: Ice shield New Auxillary Antenn Amount: \$10,654.35

Side mount brackets for high power antennas (if not included in antenna base cost)	<div> Component Description: ANTENNA MOUNT </div> <div> Amount: \$2,000.00 </div>
	<div> Component Description: Antenna Mount </div> <div> Amount: \$2,000.00 </div>
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.
UHF “ Broadband Panel, Side Mount Auxiliary /Interim, 546 horizontally polarized	<div> Component Description: UHF - Broadband Panel </div> <div> Amount: \$14,039.00 </div>
	<div> Component Description: UHF - BROADBAND PANEL, SIDE MOUNT AUX /INTERIM </div> <div> Amount: \$18,908.91 </div>
	<div> Component Description: UHF - BROADBAND PANEL, SIDE MOUNT AUX /INTERIM </div> <div> Amount: \$22,690.69 </div>
	<div> Component Description: UHF - Broadband Panel, Side Mount Aux/Interim Antenna </div> <div> Amount: \$18,908.91 </div>

Sweep test of existing antenna	<table> <tr> <td data-bbox="710 98 1109 302"> Component Description: Amount: </td><td data-bbox="1109 98 1426 302"> WSAZ-Sweep Test New Auxiliary Antenna \$800.00 </td></tr> <tr> <td data-bbox="710 302 1109 504"> Component Description: Amount: </td><td data-bbox="1109 302 1426 504"> WSAZ-250-Sweep test New Auxiliary Antenna \$800.00 </td></tr> <tr> <td data-bbox="710 504 1109 705"> Component Description: Amount: </td><td data-bbox="1109 504 1426 705"> WSAZ-250-Sweep test New Auxiliary Antenna \$1,518.54 </td></tr> <tr> <td data-bbox="710 705 1109 1115"> Component Description: Amount: </td><td data-bbox="1109 705 1426 1115"> Sweep test New Auxiliary Antenna \$960.00 </td></tr> </table>	Component Description: Amount:	WSAZ-Sweep Test New Auxiliary Antenna \$800.00	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	Component Description: Amount:	Sweep test New Auxiliary Antenna \$960.00
Component Description: Amount:	WSAZ-Sweep Test New Auxiliary Antenna \$800.00								
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								
Component Description: Amount:	Sweep test New Auxiliary Antenna \$960.00								
New combiner, cost per channel (without antenna)	<table> <tr> <td data-bbox="710 1115 1109 1317"> Component Description: Amount: </td><td data-bbox="1109 1115 1426 1317"> Interim Channel Combiner \$16,324.68 </td></tr> <tr> <td data-bbox="710 1317 1109 1590"> Component Description: Amount: </td><td data-bbox="1109 1317 1426 1590"> Interim Channel Combiner \$78,329.36 </td></tr> </table>	Component Description: Amount:	Interim Channel Combiner \$16,324.68	Component Description: Amount:	Interim Channel Combiner \$78,329.36				
Component Description: Amount:	Interim Channel Combiner \$16,324.68								
Component Description: Amount:	Interim Channel Combiner \$78,329.36								

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	
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
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
Auxiliary Transmission Line	\$225,720.00	\$153,921.02		\$90,947.34	
Sweep Existing Transmission Line	<i>\$3,000.00</i>	\$3,000.00	See vendor invoice	\$2,643.60	N/A
Rigid Transmission Line - copper, 6 1/8" broadband	\$222,720.00	\$150,921.02	Verified budget increase request submitted with invoice 198a3 - justification uploaded to LMS.	\$88,303.74	N/A
Sub-total	\$633,818.71	\$347,910.73	N/A	\$255,404.79	N/A

Total for all systems	\$5,374,414.52	\$4,267,058.52	N/A	\$3,342,407.49	N/A
------------------------------	----------------	----------------	-----	----------------	-----

Components

Actual Information	
Description	File Name
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: New Primary Transmission Line
	Amount: \$44,950.93
	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

Primary Transmission Line - Other Electrical Costs	<table> <tr> <td>Component Description:</td><td>Electrical Costs</td></tr> <tr> <td>Amount:</td><td>\$320.71</td></tr> </table>	Component Description:	Electrical Costs	Amount:	\$320.71												
Component Description:	Electrical Costs																
Amount:	\$320.71																
Sweep Existing Transmission Line	<table> <tr> <td>Component Description:</td><td>Sweep test of transmission line and antenna</td></tr> <tr> <td>Amount:</td><td>\$2,643.60</td></tr> </table>	Component Description:	Sweep test of transmission line and antenna	Amount:	\$2,643.60												
Component Description:	Sweep test of transmission line and antenna																
Amount:	\$2,643.60																
Rigid Transmission Line - copper, 6 1/8" broadband	<table> <tr> <td>Component Description:</td><td>Rigid Transmission Line</td></tr> <tr> <td>Amount:</td><td>\$27,935.35</td></tr> <tr> <td>Component Description:</td><td>RIGID TRANSMISSION LINE - COPPER</td></tr> <tr> <td>Amount:</td><td>\$18,865.12</td></tr> <tr> <td>Component Description:</td><td>Rigid Transmission Line - Copper</td></tr> <tr> <td>Amount:</td><td>\$18,865.12</td></tr> <tr> <td>Component Description:</td><td>New Auxiliary Transmission Line</td></tr> <tr> <td>Amount:</td><td>\$22,638.15</td></tr> </table>	Component Description:	Rigid Transmission Line	Amount:	\$27,935.35	Component Description:	RIGID TRANSMISSION LINE - COPPER	Amount:	\$18,865.12	Component Description:	Rigid Transmission Line - Copper	Amount:	\$18,865.12	Component Description:	New Auxiliary Transmission Line	Amount:	\$22,638.15
Component Description:	Rigid Transmission Line																
Amount:	\$27,935.35																
Component Description:	RIGID TRANSMISSION LINE - COPPER																
Amount:	\$18,865.12																
Component Description:	Rigid Transmission Line - Copper																
Amount:	\$18,865.12																
Component Description:	New Auxiliary Transmission Line																
Amount:	\$22,638.15																

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	\$672,668.75		\$273,470.10	
Tall Tower (greater than 500')	\$210,500.00	\$236,458.75	see Estimated Cost Justification WSAZ-410- Install antennas and lines on Existing Primary Tower V1	\$226,865.10	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	\$672,668.75	N/A	\$273,470.10	N/A
Total for all systems	\$5,374,414.52	\$4,267,058.52	N/A	\$3,342,407.49	N/A

Components

Actual Information**Description****File Name**

Tall Tower (greater than 500')

Component Description:

WSAZ-410-Install antennas and lines on Existing Primary Tower

Amount:

\$3,600.00

Component Description:

Incurred weather days during the installation of the main WSAZ repack antenna:

Amount:

\$21,340.00

Component Description:

RF Technical work

Amount:

\$5,660.48

Component Description:

Added cost for tower crew to remove eng antenna

Amount:

\$14,293.75

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
Major tower reinforcement /modifications	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 with the WSAZ tower.
	Amount:	\$3,450.00

Structural engineering tower load study for well documented tower	Component Description: Amount:	Rigorous Analysis \$2,250.00
	Component Description: Amount:	Engineering Evaluation, Level 1 Corrosion Risk Analysis \$4,000.00
	Component Description: Amount:	GeoTech Survey Foundation Analysis \$9,000.00
	Component Description: Amount:	Engineering Evaluation, Level 1 Corrosion Risk Analysis \$4,000.00
Tower Mapping	Component Description: Amount:	Tower mapping Existing Primary Tower \$4,500.00
	Component Description: Amount:	Tower Mapping \$7,610.00

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	\$218,744.40		\$191,166.40	
Project management of the transition	\$142,200.00	\$178,494.40	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$178,494.40	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 - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$222.00	N/A
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	\$1,110.00	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	\$450.00	N/A

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	\$125.00	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	\$4,749.50	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

Sub-total	\$185,015.00	\$218,744.40	N/A	\$191,166.40	N/A
Total for all systems	\$5,374,414.52	\$4,267,058.52	N/A	\$3,342,407.49	N/A

Components

Actual Information Description	File Name
Project management of the transition	Component Description: Project Mgt Amount: \$733.30
	Component Description: Project Management Amount: \$3,955.55
	Component Description: Project Management Amount: \$3,473.35
	Component Description: Cost Reconciliation Amount: \$3,501.45
	Component Description: Project Mgt Amount: \$839.75
	Component Description: Project Management Amount: \$3,301.70
	Component Description: Project Management Amount: \$6,393.70

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

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

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

Component Description:	Project Management
Amount:	\$7,631.00

Component Description:	Project management
Amount:	\$2,908.80

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

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

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

Component Description:	Project Management
Amount:	\$3,016.15

Component Description:	Project Management
Amount:	\$6,216.40

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

Component Description:	Project Mgt
Amount:	\$28.20

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

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

Component Description:	Project Mgt
Amount:	\$3,488.80

Component Description:	Project Mgt
Amount:	\$2,942.30

Component Description:	Project management
Amount:	\$2,153.65

Component Description:	Transition Related Project Management Costs
Amount:	\$1,500.00

Component Description:	Project Management
Amount:	\$4,086.60

Component Description:	Project management
Amount:	\$3,175.10

Component Description:	Project Management
Amount:	\$2,265.25

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

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

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

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

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

Component Description:	Project Management
Amount:	\$7,774.55

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

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

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

Component Description:	Project Management
Amount:	\$3,841.95

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

Component Description:	Project management
Amount:	\$1,328.55

Component Description:	Project Management
Amount:	\$2,006.25

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

	Component Description: Amount:	Project Management \$7,088.40
	Component Description: Amount:	Project Management \$5,925.75
	Component Description: Amount:	Project Mgt \$1,326.45
	Component Description: Amount:	Project Management \$4,831.90
	Component Description: Amount:	WSAZ-510-Project Management \$3,900.00
	Component Description: Amount:	Project Management \$3,742.20
	Component Description: Amount:	Project Management \$2,452.40
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Information not provided.	
ASR modification (prepare FCC Form 854)	Information not provided.	

Attorney Fees - Prepare and File request for Special Temporary Authorization	<div> Component Description: Professional Services</div> <div> Amount: \$207.50</div> <div> Component Description: Total Professional Services</div> <div> Amount: \$962.00</div>
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	<div> Component Description: Total Professional Services</div> <div> Amount: \$222.00</div>
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	<div> Component Description: Joan Stewart - Filing Fees</div> <div> Amount: \$1,110.00</div>
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	<div> Component Description: Complete and file initial repack CP application.</div> <div> Amount: \$196.50</div>
Prepare request for Special Temporary Authorization	<div> Component Description: WSAZ-530-RF Eng STA</div> <div> Amount: \$725.00</div>
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	<div> Component Description: WSAZ-530-RF Eng 2100 license to cover (aux)</div> <div> Amount: \$450.00</div>

Prepare engineering section of FCC Form 2100 (main), License to Cover Application	<table> <tr> <td>Component Description:</td><td>WSAZ-530-RF Eng 2100 license to cover (main)</td></tr> <tr> <td>Amount:</td><td>\$850.00</td></tr> </table> <table> <tr> <td>Component Description:</td><td>Consulting Engineer</td></tr> <tr> <td>Amount:</td><td>\$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								
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	<table> <tr> <td>Component Description:</td><td>Regarding CP application for auxiliary antenna on repack Ch-22</td></tr> <tr> <td>Amount:</td><td>\$125.00</td></tr> </table>	Component Description:	Regarding CP application for auxiliary antenna on repack Ch-22	Amount:	\$125.00				
Component Description:	Regarding CP application for auxiliary antenna on repack Ch-22								
Amount:	\$125.00								
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<table> <tr> <td>Component Description:</td><td>RF Consulting Fees</td></tr> <tr> <td>Amount:</td><td>\$1,487.50</td></tr> </table> <table> <tr> <td>Component Description:</td><td>support response to review of reimbursement form 399 provide summaries of additional antenna</td></tr> <tr> <td>Amount:</td><td>\$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	<table> <tr> <td>Component Description:</td><td>Consulting Engineer- J. Davis - Hourly (@ \$250 /hr)</td></tr> <tr> <td>Amount:</td><td>\$550.00</td></tr> </table>	Component Description:	Consulting Engineer- J. Davis - Hourly (@ \$250 /hr)	Amount:	\$550.00				
Component Description:	Consulting Engineer- J. Davis - Hourly (@ \$250 /hr)								
Amount:	\$550.00								

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:	\$450.00

Component Description:	Engineering Study for New Channel Assignment
Amount:	\$1,062.00

Component Description:	Consulting Engineer
Amount:	\$425.00

Component Description:	Perform engineering study for new channel assignment
Amount:	\$812.50

Component Description:	Consulting Engineer
Amount:	\$1,175.00

Component Description:	Provide additional FCC contour
Amount:	\$150.00

Address transition timing and coordination issues w/ other stations and wireless	<div> <div> Component Description: </div> <div> Review linked set information for WSAZ </div> </div> <div> <div> Amount: </div> <div> \$962.00 </div> </div>
Prepare and or review reimbursement form	Information not provided.

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	\$222,359.36	\$214,064.51		\$173,760.36	
Auxiliary license to cover filing fees	<i>\$335.00</i>	\$335.00	Please see WSAZ-TV Auxiliary license to cover filing fees Budget Revision Justification Letter	\$335.00	N/A
Develop and air announcement of upcoming channel change	<i>\$10,000.00</i>	\$10,000.00	N/A	\$289.90	N/A
Equipment Storage	<i>\$21,400.00</i>	\$21,400.00	Storage Rates Central Van and Storage quote	\$9,471.05	N/A
Equipment Delivery and Handling Charges	<i>\$44,138.87</i>	\$44,138.87	Per Estimated Cost Justification WSAZ-610-Equipment Delivery v6	\$44,138.85	N/A

Disposal Costs (for equipment and other waste, net of any salvage value)	\$99,396.49	\$99,396.49	see Estimated Cost Justification WSAZ-610-Disposal Costs v5	\$99,396.49	Invoices total estimate.
Non-zoning permits	\$11,660.00	\$11,660.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$3,050.15	N/A	N/A	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
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
Security	\$9,000.00	\$9,000.00	Cost shared between stations	\$5,045.07	N/A
Tree Removal	\$12,349.00	\$12,349.00	N/A	\$12,349.00	Sub-total equals Estimated Cost

MVPD Notification of Channel Change	\$2,000.00	\$2,000.00	Per Estimated Cost Justification WSAZ-610- MVPD Notification v0	\$2,000.00	N/A
Sub-total	\$222,359.36	\$214,064.51	N/A	\$173,760.36	N/A
Total for all systems	\$5,374,414.52	\$4,267,058.52	N/A	\$3,342,407.49	N/A

Components

Actual Information	
Description	File Name
Auxiliary license to cover filing fees	<p>Component Description: Joan Stewart - Filing Fees - WSAZ aux. antenna license.</p> <p>Amount: \$335.00</p>
Develop and air announcement of upcoming channel change	<p>Component Description: Total Professional Services</p> <p>Amount: \$289.90</p>

Equipment Storage	Component Description:	WSAZ-610-
	Amount:	Equipment Storage \$7,425.00
	Component Description:	40' STANDARD TRI CAM
	Amount:	CONTAINER SN \$164.06
	Component Description:	40' STANDARD TRI CAM
	Amount:	CONTAINER \$1,107.46
	Component Description:	Uline pallet truck
Equipment Delivery and Handling Charges	Amount:	\$446.41
	Component Description:	40' STANDARD TRI CAM
	Amount:	CONTAINER QS40VZS0019 \$164.06
	Component Description:	40' Standard Tri Cam Container
	Amount:	\$164.06
	Component Description:	Rental Items
	Amount:	\$2,594.00
	Component Description:	2LID1#1451358
	Amount:	AAQ1.01.704 \$706.10

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:	Zone 4 Delivery Charge
Amount:	\$1,412.21

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

Component Description:	57 LID #1451451 Zone 3 Delivery Charge
Amount:	\$701.70

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

Component Description:	Telehandler
Amount:	\$2,511.00

Component Description:	2 LID #1451358, Zone 3 Delivery Charge
Amount:	\$662.56

Component Description:	2071000 TL642 Telehandler
Amount:	\$568.90

Component Description:	Rental of a TL642D Telehandler
Amount:	\$620.50

Component Description:	JOHN DEERE SKIDSTEER 319G
Amount:	\$340.00

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

Component Description:	2073000 TH255 TELEHANDLER
Amount:	\$2,142.00

Component Description:	Rental Unit
Amount:	\$265.00

Component Description:	2071010 TL943 TELEHANDLER
Amount:	\$489.45

Component Description:	Rental Unit
Amount:	\$456.60

Component Description:	Telehandler
Amount:	\$564.98

Component Description:	2LID1 #1451358, Zone 3 Delivery Charge
Amount:	\$692.05

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

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

Component Description:	Rental Unit
Amount:	\$238.50

Component Description:	Rental Unit
Amount:	\$265.00

	Component Description:	4LID1#1451358, Zone 3 Delivery Charge
	Amount:	\$677.17
	Component Description:	2071000 TL642 TELEHANDLER
	Amount:	\$2,494.00
	Component Description:	WSAZ-610- Equipment Delivery
	Amount:	\$5,737.50
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description:	1 Waste Container 40 Cu Yd, On Call Service
	Amount:	\$100.38
	Component Description:	1 Waste Container 40 Cu Yd, On Call Service
	Amount:	\$99.43
	Component Description:	1 Waste Container 40 Cu Yd, On Call Service'
	Amount:	\$778.34
	Component Description:	1 Waste Container 40 Cu Yd, On Call Service
	Amount:	\$685.16
	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:	Fee Fuel Surcharge
Amount:	\$1,139.30

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:	\$101.43

Component Description:	1 Waste Container 40 Cu Yd. On Call Service
Amount:	\$782.43

Component Description:	1 Waste Container Rental
Amount:	\$101.25

Component Description:	1 Waste Container
Amount:	\$735.47

Component Description:	1 Waste Container 40 Cu Yd, On Call Service
Amount:	\$153.06

Component Description:	TANK 550GAL UPRIGHT
Amount:	\$953.98

Component Description:	Fee Fuel Surcharge
Amount:	\$1,245.30

Component Description:	Quote # WSAZ Demo
Amount:	\$83,000.00

Component Description:	1 Waste Container 40 Cu Yd
Amount:	\$97.98

Component Description:	Removal of old television tower at Barkers Ridge Facility
Amount:	\$7,240.00

Component Description:	1 Waste Container
Amount:	\$101.43

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

	<div> <div>Component Description:</div> <div>"1 Waste Container 40 Cu Yd, On Call Service Rental 07 /01-07/31"</div> </div> <div> <div>Amount:</div> <div>\$100.71</div> </div>
Non-zoning permits	Information not provided.
DTV Medical Facility Notification	Information not provided.
FCC Filing Fees - Form 2100 license to cover application	<div> <div>Component Description:</div> <div>WSAZ-610-License to Cover FCC Filing Fees</div> </div> <div> <div>Amount:</div> <div>\$335.00</div> </div>
FCC Filing Fees - Special Temporary Authorization request	<div> <div>Component Description:</div> <div>WSAZ-610-STA FCC Filing Fee</div> </div> <div> <div>Amount:</div> <div>\$400.00</div> </div>
Security	<div> <div>Component Description:</div> <div>Security Officer</div> </div> <div> <div>Amount:</div> <div>\$151.05</div> </div> <div> <div>Component Description:</div> <div>SECURITY OFFICER</div> </div> <div> <div>Amount:</div> <div>\$4,894.02</div> </div>

Tree Removal	<table> <tr> <td data-bbox="694 98 1109 302"> Component Description: Amount: </td><td data-bbox="1110 98 1428 302"> Trees cut X3 - pin oak - left side of tower \$4,452.00 </td></tr> <tr> <td data-bbox="694 304 1109 504"> Component Description: Amount: </td><td data-bbox="1110 304 1428 504"> Tree removal - SE corner \$689.00 </td></tr> <tr> <td data-bbox="694 506 1109 705"> Component Description: Amount: </td><td data-bbox="1110 506 1428 705"> Barker Ridge - clear cut back side of Tower site \$5,300.00 </td></tr> <tr> <td data-bbox="694 707 1109 1041"> Component Description: Amount: </td><td data-bbox="1110 707 1428 1041"> Clear cut NE corner \$1,908.00 </td></tr> </table>	Component Description: Amount:	Trees cut X3 - pin oak - left side of tower \$4,452.00	Component Description: Amount:	Tree removal - SE corner \$689.00	Component Description: Amount:	Barker Ridge - clear cut back side of Tower site \$5,300.00	Component Description: Amount:	Clear cut NE corner \$1,908.00
Component Description: Amount:	Trees cut X3 - pin oak - left side of tower \$4,452.00								
Component Description: Amount:	Tree removal - SE corner \$689.00								
Component Description: Amount:	Barker Ridge - clear cut back side of Tower site \$5,300.00								
Component Description: Amount:	Clear cut NE corner \$1,908.00								
MVPD Notification of Channel Change	<table> <tr> <td data-bbox="694 1043 1109 1153"> Component Description: Amount: </td><td data-bbox="1110 1043 1428 1153"> Total Professional Services \$2,000.00 </td></tr> </table>	Component Description: Amount:	Total Professional Services \$2,000.00						
Component Description: Amount:	Total Professional Services \$2,000.00								

Cost Information	Grand Total		
		Predetermined Cost Estimate	Estimated Cost
			Actual Cost
	Total for all systems	\$5,374,414.52	\$4,267,058.52
			\$3,342,407.49

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.

<p>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.</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>02/16/2021</p>

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>02/16/2021</p>

Attachments