



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **4685** | Service: **DTV** | Call **WTAP-TV** | Channel: **35 (UHF)** |
ID:
File **0000028742**
Number:
FRN: **0018223693** | Date **04/06**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC Doing Business As: Gray Media Group, Inc.	4370 Peachtree Rd., NE Atlanta, GA 30319 United States	+1 (404) 504-9828	allfclms@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</i>	Samuel Hariton 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		The facility will be replacing the existing main transmitter, antenna, and transmission line and building an interim tower for the new interim transmitter, antenna, and transmission line.

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	CD3100P1
	Year	2001
	Type	Inductive Output Tube
	IOT Power Type	Single
	Power Capacity	30 kW

Primary Transmitter

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-50
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31.7 kW
	Justification for New Transmitter	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	150 kVA
	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 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
Transmitter building work	Necessary building work for new mask filter.
Generator Relocation	Relocation of existing generator system to facilitate reconfiguration of transmitter building.

Remote Control System	Remote control system for new transmitter.
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**Interim
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Interim
	Description of Use	N/A
	Change Type	Purchase
	Manufacturer	
	Model	ULXTE-60
	Transmitter Type	Solid State
	Solid State Cooling	Liquid Cooled
	Solid State Power capacity	31.7 kW
	Justification for New Transmitter	Interim transmitter needed to continue broadcasting through transition period.

**Interim
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	300 kVA
	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 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
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
Remote Control System	Remote control system for interim transmitter

Antennas

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

**Primary
Antenna**

Existing Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	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	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)	315.0 kW

Manufacturer	
Model	ATW20H3- ESO-49 TRASAR
Year	2011

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?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Types	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted Coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	242.0 kW
	Manufacturer	

Model	TFU-18JSC /VP-R-04
Year	2020
Justification for New Antenna	Existing antenna cannot be retuned.

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	4
	Frequencies of channels supported	Upper and lower frequency
	Frequency	506.0 MHz - 602.0 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?	Single Channel
	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	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
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**Primary
Antenna**

Other Antenna Cost Not Listed

Information not provided.

**Interim
Antenna**

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side Mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Broadband Panel
	Number of Stations Supported	1
	Number of Panels/Bays	16
	Lower Limit	596.00 MHz
	Upper Limit	686.00 MHz
	Design power capacity in use	100.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	330.0 kW
	Manufacturer	
	Model	SBB- 16C170
	Year	2017

	Justification for New Antenna	So that the station may operate on either channel during the transition.
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**Interim
Antenna**

Other Antenna Costs

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	B
	Feed Line Size	4 1/16 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an 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

**Interim
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

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?	No
	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	19 3/4 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	528 feet per run

Primary **New Transmission Line**
Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Number of parallel runs	1
	Length	620 feet per run
	Justification for New Transmission Line	Segment lengths do not match up with the new channel.

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

Information not provided.

Interim **New Transmission Line**
Transmission Line **Section**

	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Rigid
	Diameter	4 1/16 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	300 feet per run
	Justification for New Transmission Line	Interim transmission line needed so that the station may continue broadcasting during the transition period.

Interim **Other Transmission Line Expenses Not Listed**
Transmission Line **Information not provided.**

Tower Equipment And Rigging Costs

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

Primary Tower

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?	Yes
	One or more FM, AM or TV radio broadcaster(s)	No
	Others Types of Users	Yes
	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	1239800
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	39° 20' 59.8" N-
	Longitude (NAD83)	081° 33' 55.4" W-
	Overall Structure Height	462.92 feet
	Support Structure Height	459.97 feet
	Ground Elevation Above Mean Sea Level (AMSL)	970.13 feet

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Gray Television Group, Inc.
Date Constructed	11/21/2003

Other Types of Users

Users
Wood EMG
Wood Co Sherrif
Warren Vol Fire
WOVA-LD 125125
WIYE-LD 130392
WA CO Sheriff
T-Mobile
Ohio Marc
Coast Guard

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:	Serious 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
Move Equipment	Remove and install existing main and aux equipment
Level II corrosion	Level II corrosion testing
Anode Grounding System	Anode grounding system based upon corrosion testing
Replace Main Antenna	Remove existing main antenna and install new main antenna.

**Interim
Tower**

Tower Construction Costs

Section	Question	Response
Construct New Tower	Use	Interim
	Description of Use	N/A
	Height	240.00 feet
	Justification for New Tower	Existing tower cannot take the weight of any more equipment.

**Interim
Tower**

Tower Rigging Costs

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

**Interim
Tower**

Other Tower Expenses Not Listed

Name	Description
Ice Bridge	Additional ice bridge for heat exchangers. 15'x20'
Interim Antenna Installation	Installation of interim antenna and associated transmission line

**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 and antenna RF consultant for selection of feed line antennas.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes

	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	2
	NEPA Section 106 environmental review	Yes
	Environmental Assessment	Yes
	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

Name	Description
Attorney Fees - Other Matters	Legal Services

Other Expenses

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

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-60	\$2,742,337.67	\$1,959,683.30		\$1,055,832.93	
Remote Control System	<i>\$9,006.86</i>	\$9,006.86	N/A	\$0.00	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.	<i>\$8,243.11</i>	\$8,243.11	Please see Estimated Cost Justification WTAP-180-Electrical Service Interim Transmitter v0	\$8,243.11	N/A
Transformer 3 phase/480v - 300 KVA	\$36,800.00	\$3,166.60	Remainder of the transformer plus tax supported by GatesAir Quote Q-77381	\$3,166.60	N/A
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	<i>\$1,215,287.70</i>	\$1,215,287.70	GatesAir Quote Q-80474	\$320,444.19	N/A

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,473,000.00	\$723,979.03	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$723,979.03	N/A
Primary Transmitter ULXTE-50	\$1,229,874.81	\$1,212,367.13		\$1,027,730.75	
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.	\$287,500.00	\$287,500.00	N/A	\$150,618.73	N/A
Transformer 3 phase/480v - 150 KVA	\$25,550.00	\$8,042.32	per GatesAir Quote Q-77380 (includes estimated tax)	\$8,040.32	N/A
Transmitter building work	\$15,900.00	\$15,900.00	N/A	\$3,748.61	N/A
Remote Control System	\$9,046.86	\$9,046.86	N/A	\$0.00	N/A

Generator Relocation	\$21,843.29	\$21,843.29	Please see Estimated Cost Justification WTAP-110-Genset relocation New 1st Primary Transmitter v0	\$11,118.03	N/A
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	\$870,034.66	\$870,034.66	GA-0002297r2	\$854,205.06	N/A
Sub-total	\$3,972,212.48	\$3,172,050.43	N/A	\$2,083,563.68	N/A
Total for all systems	\$7,038,921.56	\$5,973,430.56	N/A	\$3,015,446.77	N/A

Components

Actual Information	
Description	File Name
Remote Control System	Information not provided.
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.	<p>Component Description: WTAP-180-Electrical Service Interim Transmitter</p> <p>Amount: \$8,243.11</p>
Transformer 3 phase/480v - 300 KVA	<p>Component Description: WTAP-180-Transformer - Interim Transmitter</p> <p>Amount: \$3,166.60</p>

UHF - Liquid Cooled Solid
State Transmitter 31.7 kW

Component Description: ANVIL
AS026ODN 15
/80D
Amount: \$43.13

Component Description: WTAP-180-
Interim Transmitter
Amount: \$200.55

Component Description: CELLO BP7-24 11
/2 PRESS 90
ELBOW
Amount: \$106.76

Component Description: WTAP-180-
Interim Transmitter
Amount: \$1,103.06

Component Description: 5 Gal/Distilled
Amount: \$156.00

Component Description: Labor provided to
relocate the
downspout
Amount: \$958.00

Component Description: A. Transmitter
Amount: \$317,609.25

Component Description: WTAP-180-
Interim Transmitter
Amount: \$267.44

UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<div> Component Description: ULXTE-60 Transmitter </div> <div> Amount: \$723,979.03 </div>
<p>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.</p>	<div> Component Description: Panel Lot Price </div> <div> Amount: \$10,822.70 </div>
	<div> Component Description: 4" PVC Conduit </div> <div> Amount: \$17,956.63 </div>
	<div> Component Description: TRANSFER SWITCH A59 </div> <div> Amount: \$13,049.11 </div>
	<div> Component Description: 1 1" PVC Male Adapter </div> <div> Amount: \$5,222.20 </div>
	<div> Component Description: Breaker </div> <div> Amount: \$16,576.72 </div>
	<div> Component Description: WTAP-110- Electrical service New 1st Primary Transmitter </div> <div> Amount: \$300.83 </div>
	<div> Component Description: CH 600 Volt 800 Amp Service Entrance Rated Fused </div> <div> Amount: \$37,791.44 </div>
	<div> Component Description: 2" EMT Conduit </div> <div> Amount: \$18,974.65 </div>

	Component Description: Amount:	Provide 277/490V SVC to Customer \$9,108.04
	Component Description: Amount:	Eaton Cutler Hammer 225 Amp 3 120/208 42 \$4,764.36
	Component Description: Amount:	.5 EMT Conduit \$16,052.05
Transformer 3 phase/480v - 150 KVA	Component Description: Amount:	WTAP-110- Transformer New 1st Primary Transmitter \$8,040.32
Transmitter building work	Component Description: Amount:	Labor and materials \$3,370.00
	Component Description: Amount:	Labor and Materials \$378.61
Remote Control System	Information not provided.	

Generator Relocation	<div data-bbox="719 174 1305 367"> <p>Component Description: Rigging and Relocating Emergency Generator</p> <p>Amount: \$4,186.49</p> </div> <div data-bbox="719 474 1347 586"> <p>Component Description: Stranded Aluminium Wire</p> <p>Amount: \$6,864.87</p> </div> <div data-bbox="719 694 1305 804"> <p>Component Description: Repack Engineering</p> <p>Amount: \$66.67</p> </div>
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UHF - Liquid Cooled Solid
State Transmitter 31.7 kW

Component Description:	ULXTE-50 Transmitter
Amount:	\$606,056.59
Component Description:	A. Transmitter
Amount:	\$245,249.03
Component Description:	WTAP-110-New 1st Primary Transmitter
Amount:	\$300.83
Component Description:	XPR 10077699 800 press
Amount:	\$183.26
Component Description:	CER LH11210 copper
Amount:	\$768.24
Component Description:	LEE BN34C 2200N24-000
Amount:	\$80.81
Component Description:	Rigging and Off Loading
Amount:	\$902.50
Component Description:	Kit, Transfer Pump 115V
Amount:	\$267.43
Component Description:	XPR 10075080
Amount:	\$396.37

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
Interim Antenna SBB-16C170	\$267,830.00	\$154,983.53		\$58,789.52	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$22,000.00	N/A	\$0.00	N/A
Elbow complex, broadband, at antenna input, per 4 1/16. feedline (if needed)	\$10,950.00	\$10,588.00	Includes state and local taxes	\$0.00	N/A
Sweep test of existing antenna	\$6,730.00	\$8,653.13	see Estimated Cost Justification WTAP-280-Sweep test Interim Antenna v0	\$5,773.13	N/A

UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$113,742.40	See attached Quote	\$53,016.39	N/A
Primary Antenna TFU-18JSC /VP-R-04	\$353,380.00	\$291,257.09		\$199,088.00	
Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$17,520.00	N/A	\$17,520.00	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,300.00	\$12,768.00	JEHQ1288- 03	\$12,768.00	N/A
New combiner, cost per channel (without antenna)	\$84,200.00	\$67,049.09	N/A	\$0.00	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,120.00	N/A

UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$187,520.00	See attached Quote	\$163,680.00	N/A
Sub-total	\$621,210.00	\$446,240.62	N/A	\$257,877.52	N/A
Total for all systems	\$7,038,921.56	\$5,973,430.56	N/A	\$3,015,446.77	N/A

Components

Actual Information	
Description	File Name
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.
Elbow complex, broadband, at antenna input, per 4 1/16. feedline (if needed)	Information not provided.

Sweep test of existing antenna	<div data-bbox="726 168 1356 336"> Component Description: WTAP-280-Sweep test Interim Antenna Amount: \$2,253.13 </div> <div data-bbox="726 425 1284 515"> Component Description: Sweep Amount: \$1,600.00 </div> <div data-bbox="726 604 1348 694"> Component Description: Repack Sweep Amount: \$1,920.00 </div>
UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	<div data-bbox="726 817 1380 1108"> Component Description: UHF - Broadband Panel, Side Mount Aux /Interim, Sweep - Repack, incl. Field Engineer Amount: \$28,808.64 </div> <div data-bbox="726 1198 1372 1366"> Component Description: Rigging and offloading of RFS Interim antenna Amount: \$200.55 </div> <div data-bbox="726 1456 1380 1780"> Component Description: UHF - Broadband panel, side mount Aux/Interim SBB-16C170 16 Bay Broadband UHF Side Mount Antenna Amount: \$24,007.20 </div>

Side mount brackets for high power antennas (if not included in antenna base cost)

Component Description:

WTAP-210-Side
mount brackets
New Primary
Antenna

Amount:

\$4,380.00

Component Description:

WTAP-210-Side
mount brackets
New Primary
Antenna

Amount:

\$3,504.00

Component Description:

Side mount
brackets New
Primary Antenna

Amount:

\$5,256.00

Component Description:

WTAP-210-Side
mount brackets
New Primary
Antenna

Amount:

\$4,380.00

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Component Description: Amount:	WTAP-210-Elbow complex New Primary Antenna \$3,192.00
	Component Description: Amount:	WTAP-210-Elbow complex New Primary Antenna \$2,553.60
	Component Description: Amount:	WTAP-210-Elbow complex New Primary Antenna \$3,192.00
	Component Description: Amount:	WTAP-210-Elbow complex New Primary Antenna \$3,830.40
New combiner, cost per channel (without antenna)	Information not provided.	
Sweep test of existing antenna	Component Description: Amount:	WTAP-210-Sweep test New Primary Antenna \$1,600.00
	Component Description: Amount:	WTAP-210-Sweep test New Primary Antenna \$1,600.00
	Component Description: Amount:	Sweep test New Primary Antenna \$1,920.00

<p>UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="726 100 1141 369"> <p>Component Description:</p> </td><td data-bbox="1157 100 1420 369"> <p>UHF - High Power Side Mount TV Ant TFU 18JSC/VP-R-04 WTAP</p> </td></tr> <tr> <td data-bbox="726 369 1141 459"> <p>Amount:</p> </td><td data-bbox="1157 369 1420 459"> <p>\$38,750.00</p> </td></tr> <tr> <td data-bbox="726 459 1141 638"> <p>Component Description:</p> </td><td data-bbox="1157 459 1420 638"> <p>UHF - HIGH POWER SIDE MOUNT</p> </td></tr> <tr> <td data-bbox="726 638 1141 728"> <p>Amount:</p> </td><td data-bbox="1157 638 1420 728"> <p>\$38,750.00</p> </td></tr> <tr> <td data-bbox="726 728 1141 907"> <p>Component Description:</p> </td><td data-bbox="1157 728 1420 907"> <p>UHF - High Power Side Mount</p> </td></tr> <tr> <td data-bbox="726 907 1141 996"> <p>Amount:</p> </td><td data-bbox="1157 907 1420 996"> <p>\$39,680.00</p> </td></tr> <tr> <td data-bbox="726 996 1141 1149"> <p>Component Description:</p> </td><td data-bbox="1157 996 1420 1149"> <p>New Primary Antenna</p> </td></tr> <tr> <td data-bbox="726 1149 1141 1238"> <p>Amount:</p> </td><td data-bbox="1157 1149 1420 1238"> <p>\$46,500.00</p> </td></tr> </table>	<p>Component Description:</p>	<p>UHF - High Power Side Mount TV Ant TFU 18JSC/VP-R-04 WTAP</p>	<p>Amount:</p>	<p>\$38,750.00</p>	<p>Component Description:</p>	<p>UHF - HIGH POWER SIDE MOUNT</p>	<p>Amount:</p>	<p>\$38,750.00</p>	<p>Component Description:</p>	<p>UHF - High Power Side Mount</p>	<p>Amount:</p>	<p>\$39,680.00</p>	<p>Component Description:</p>	<p>New Primary Antenna</p>	<p>Amount:</p>	<p>\$46,500.00</p>
<p>Component Description:</p>	<p>UHF - High Power Side Mount TV Ant TFU 18JSC/VP-R-04 WTAP</p>																
<p>Amount:</p>	<p>\$38,750.00</p>																
<p>Component Description:</p>	<p>UHF - HIGH POWER SIDE MOUNT</p>																
<p>Amount:</p>	<p>\$38,750.00</p>																
<p>Component Description:</p>	<p>UHF - High Power Side Mount</p>																
<p>Amount:</p>	<p>\$39,680.00</p>																
<p>Component Description:</p>	<p>New Primary Antenna</p>																
<p>Amount:</p>	<p>\$46,500.00</p>																

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
Interim Transmission Line	\$48,900.00	\$105,568.71		\$56,171.15	
Rigid Transmission Line - copper, 4 1/16" broadband	\$48,900.00	\$105,568.71	Please see Estimated Cost Justification WTAP-380-Interim Transmission Line v0	\$56,171.15	N/A
Primary Transmission Line	\$125,240.00	\$152,327.55		\$152,327.46	
Rigid Transmission Line - copper, 6 1/8"	\$125,240.00	\$152,327.55	see Estimated Cost Justification WTAP-310-New Primary Transmission Line v1	\$152,327.46	N/A
Sub-total	\$174,140.00	\$257,896.26	N/A	\$208,498.61	N/A
Total for all systems	\$7,038,921.56	\$5,973,430.56	N/A	\$3,015,446.77	N/A

Components

Actual Information

Description	File Name
-------------	-----------

Rigid Transmission Line - copper, 4 1/16" broadband	Component Description:	WTAP-380-Interim Transmission Line
	Amount:	\$4,552.38
	Component Description:	0018596501 6-50 to 4-50 Reducer - Use at antenna input
	Amount:	\$33,354.17
	Component Description:	R45609 4" CONN 4-50
	Amount:	\$11,180.85
	Component Description:	Project Repacking supplies
	Amount:	\$80.55
	Component Description:	fabricate tower cleats
	Amount:	\$952.64
	Component Description:	Project Repacking supplies
	Amount:	\$422.44
	Component Description:	RF Tech Field Work
	Amount:	\$5,628.12
Rigid Transmission Line - copper, 6 1/8"	Component Description:	0018596501 6-50 TO 4-50 Reducer
	Amount:	\$18,105.30

Component Description:	WTAP-310-New Primary Transmission Line
Amount:	\$3,344.24

Component Description:	WTAP-310-New Primary Transmission Line
Amount:	\$23,412.99

Component Description:	WTAP-310-New Primary Transmission Line
Amount:	\$25,580.27

Component Description:	Rigid Transmission Line - Copper, Elbow, Dehydrator, etc.
Amount:	\$30,175.50

Component Description:	WTAP-310-New Primary Transmission Line
Amount:	\$200.55

Component Description:	WTAP-310-New Primary Transmission Line
Amount:	\$23,412.99

Component Description:	New Primary Transmission Line
Amount:	\$28,095.62

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 TOWER	\$1,438,211.14	\$1,265,461.10		\$265,887.64	
Anode Grounding System	<i>\$15,000.00</i>	\$15,000.00	See vendor invoice	\$14,669.78	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$36,720.55	Per Estimated Cost Justification WTAP-410-Structural Analysis Existing Primary Tower v1, Gates Air Quote Q-76839 Includes state and local taxes; see invoice Hodge Structural Engineers 17G000508.1	\$34,220.55	N/A
Serious tower reinforcement /modifications	\$1,052,000.00	\$804,375.00	Includes state and local taxes	\$10,911.67	N/A

Short Tower (less than 500')	\$84,200.00	\$134,954.41	E-17440-5 Includes steel member replacement at top of tower	\$46,800.00	N/A
Replace Main Antenna	\$134,813.00	\$134,813.00	N/A	\$19,687.50	N/A
Move Equipment	\$133,198.14	\$133,198.14	see Estimated Cost Justification WTAP-410- Move equipment Existing Primary Tower v0	\$133,198.14	N/A
Level II corrosion	\$6,400.00	\$6,400.00	N/A	\$6,400.00	N/A
Interim Tower	\$536,776.25	\$532,576.25		\$15,314.31	
Short Tower (less than 500')	\$84,200.00	\$80,000.00	N/A	\$0.00	N/A
Interim Antenna Installation	\$80,000.00	\$80,000.00	N/A	\$0.00	N/A
Ice Bridge	\$21,000.00	\$21,000.00	N/A	\$7,982.31	N/A
New tower	\$351,576.25	\$351,576.25	Includes the foundation, as well as state and local taxes and shipping.	\$7,332.00	N/A
Sub-total	\$1,974,987.39	\$1,798,037.35	N/A	\$281,201.95	N/A
Total for all systems	\$7,038,921.56	\$5,973,430.56	N/A	\$3,015,446.77	N/A

Components

Actual Information Description	File Name
Anode Grounding System	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Repacking supplies- copper tubing</div> <div>\$281.78</div> </div>
	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Anode Grounding Systems</div> <div>\$3,183.00</div> </div>
	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Grounding System</div> <div>\$2,805.00</div> </div>
	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Supply labor and equipment to install customer supplied Anode Grounding Systems (3) guy anchor system (6 anodes total) for the (3) WTAP-TV guy anchors with all materials supplied by WTAP-TV</div> <div>\$7,250.00</div> </div>
	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>COPPER STRAP</div> <div>\$1,150.00</div> </div>
Structural engineering tower load study for well documented tower	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Structural Engineering Services</div> <div>\$6,500.00</div> </div>

Component Description:	WTAP-410- Structural analysis Existing Primary Tower
Amount:	\$337.50

Component Description:	Engineering Evaluation
Amount:	\$3,500.00

Component Description:	SITE SURVEY
Amount:	\$568.05

Component Description:	Structural Engineering Services - Engineering Evaluation
Amount:	\$6,500.00

Component Description:	Re-analysis Structural engineering of 460 tower
Amount:	\$1,200.00

Component Description:	Engineering Evaluation
Amount:	\$2,000.00

Component Description:	Engineering evaluation of the 460' guyed tower.
Amount:	\$2,000.00

Component Description:	Engineering Evaluation
Amount:	\$9,000.00

	Component Description:	Engineering Evaluation
	Amount:	\$3,500.00
	Component Description:	Site Survey
	Amount:	\$8,115.00
Serious tower reinforcement/modifications	Component Description:	Engineering Evaluation
	Amount:	\$2,375.00
	Component Description:	Freight / Goods clearing at US Border
	Amount:	\$1,680.00
	Component Description:	New Diagnosis
	Amount:	\$6,255.00
	Component Description:	WTAP-410-Reinforcements Existing Primary Tower
	Amount:	\$601.67
Short Tower (less than 500')	Component Description:	Tower Equipment and Rigging
	Amount:	\$46,800.00
Replace Main Antenna	Component Description:	Incurred weather days during the installation of the main WTAP repack antenna
	Amount:	\$19,687.50

Move Equipment	Component Description: Tower Equipment and Rigging Amount: \$32,553.75
	Component Description: Tower Equipment and Rigging Amount: \$97,661.25
	Component Description: TL 943 Telehandler Rental Amount: \$2,983.14
Level II corrosion	Component Description: Level II corrosion risk analysis Amount: \$6,400.00
Short Tower (less than 500')	Information not provided.
Interim Antenna Installation	Information not provided.

Ice Bridge	<table> <tr> <td data-bbox="703 174 1011 210">Component Description:</td><td data-bbox="1145 174 1374 248">Labor and material, as per quotation</td></tr> <tr> <td data-bbox="703 255 815 291">Amount:</td><td data-bbox="1145 255 1262 291">\$1,403.90</td></tr> <tr> <td data-bbox="703 394 1011 430">Component Description:</td><td data-bbox="1145 394 1374 468">Labor and material, as per quotation</td></tr> <tr> <td data-bbox="703 474 815 510">Amount:</td><td data-bbox="1145 474 1262 510">\$3,876.01</td></tr> <tr> <td data-bbox="703 613 1011 649">Component Description:</td><td data-bbox="1145 613 1358 687">Project Repacking supplies</td></tr> <tr> <td data-bbox="703 694 815 730">Amount:</td><td data-bbox="1145 694 1262 730">\$1,992.41</td></tr> <tr> <td data-bbox="703 833 1011 869">Component Description:</td><td data-bbox="1145 833 1289 907">Jabo Supply Parkersburg</td></tr> <tr> <td data-bbox="703 913 815 949">Amount:</td><td data-bbox="1145 913 1241 949">\$468.54</td></tr> <tr> <td data-bbox="703 1052 1011 1088">Component Description:</td><td data-bbox="1145 1052 1294 1126">Atlas Steel & Supply</td></tr> <tr> <td data-bbox="703 1133 815 1169">Amount:</td><td data-bbox="1145 1133 1241 1169">\$241.45</td></tr> </table>	Component Description:	Labor and material, as per quotation	Amount:	\$1,403.90	Component Description:	Labor and material, as per quotation	Amount:	\$3,876.01	Component Description:	Project Repacking supplies	Amount:	\$1,992.41	Component Description:	Jabo Supply Parkersburg	Amount:	\$468.54	Component Description:	Atlas Steel & Supply	Amount:	\$241.45
Component Description:	Labor and material, as per quotation																				
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Amount:	\$3,876.01																				
Component Description:	Project Repacking supplies																				
Amount:	\$1,992.41																				
Component Description:	Jabo Supply Parkersburg																				
Amount:	\$468.54																				
Component Description:	Atlas Steel & Supply																				
Amount:	\$241.45																				
New tower	<table> <tr> <td data-bbox="703 1299 1011 1335">Component Description:</td><td data-bbox="1145 1299 1353 1373">Total professional services</td></tr> <tr> <td data-bbox="703 1379 815 1415">Amount:</td><td data-bbox="1145 1379 1241 1415">\$615.00</td></tr> <tr> <td data-bbox="703 1518 1011 1554">Component Description:</td><td data-bbox="1145 1518 1342 1673">Geotechnical services for New Interim tower proposed site</td></tr> <tr> <td data-bbox="703 1680 815 1715">Amount:</td><td data-bbox="1145 1680 1262 1715">\$5,865.00</td></tr> <tr> <td data-bbox="703 1818 1011 1854">Component Description:</td><td data-bbox="1145 1818 1358 1973">For professional services rendered through October 31, 2018</td></tr> <tr> <td data-bbox="703 1980 815 2016">Amount:</td><td data-bbox="1145 1980 1241 2016">\$852.00</td></tr> </table>	Component Description:	Total professional services	Amount:	\$615.00	Component Description:	Geotechnical services for New Interim tower proposed site	Amount:	\$5,865.00	Component Description:	For professional services rendered through October 31, 2018	Amount:	\$852.00								
Component Description:	Total professional services																				
Amount:	\$615.00																				
Component Description:	Geotechnical services for New Interim tower proposed site																				
Amount:	\$5,865.00																				
Component Description:	For professional services rendered through October 31, 2018																				
Amount:	\$852.00																				

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	\$200,198.00	\$212,264.21		\$154,570.06	
Attorney Fees - Other Matters	<i>\$518.00</i>	\$518.00	see Estimated Cost Justification WTAP-550-Attorney - Other Matters v0	\$296.00	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	\$1,337.50	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	\$0.00	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,520.00	\$12,041.13	Environmentex Consulting Proposal	\$5,067.00	N/A

NEPA Section 106 environmental review, if needed	\$6,310.00	\$12,458.13	Waterman Douglass & Associates invoice 20180051 A WTAP; Justifying invoice Environmentex 18303	\$7,391.11	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$7,360.00	\$7,000.00	N/A	\$125.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$0.00	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 engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$250.00	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$21,496.95	Per Estimated Cost Justification WTAP-530-RF Eng Study v1	\$21,496.95	N/A
Project management of the transition	\$142,200.00	\$135,000.00	N/A	\$117,535.00	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	N/A	\$875.00	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Sub-total	\$200,198.00	\$212,264.21	N/A	\$154,570.06	N/A
Total for all systems	\$7,038,921.56	\$5,973,430.56	N/A	\$3,015,446.77	N/A

Components

Actual Information	
Description	File Name
Attorney Fees - Other Matters	<p>Component Description: Professional Services Rendered Through September 30, 2019</p> <p>Amount: \$296.00</p>

<p>FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase</p>	<table> <tr> <td data-bbox="710 174 1018 208">Component Description:</td><td data-bbox="1153 174 1366 600">Regarding interim operation on repack Ch-35, various discussions regarding removal of tower lighting requirement, prepare and submit FAA form 74460-1</td></tr> <tr> <td data-bbox="710 616 820 649">Amount:</td><td data-bbox="1153 616 1248 649">\$650.00</td></tr> <tr> <td data-bbox="710 757 1018 790">Component Description:</td><td data-bbox="1153 757 1366 1059">Regarding interim operation on repack Ch-35, determine site location and elevation data for new (interim antenna) tower.</td></tr> <tr> <td data-bbox="710 1075 820 1108">Amount:</td><td data-bbox="1153 1075 1248 1108">\$687.50</td></tr> </table>	Component Description:	Regarding interim operation on repack Ch-35, various discussions regarding removal of tower lighting requirement, prepare and submit FAA form 74460-1	Amount:	\$650.00	Component Description:	Regarding interim operation on repack Ch-35, determine site location and elevation data for new (interim antenna) tower.	Amount:	\$687.50
Component Description:	Regarding interim operation on repack Ch-35, various discussions regarding removal of tower lighting requirement, prepare and submit FAA form 74460-1								
Amount:	\$650.00								
Component Description:	Regarding interim operation on repack Ch-35, determine site location and elevation data for new (interim antenna) tower.								
Amount:	\$687.50								
<p>ASR modification (prepare FCC Form 854)</p>	<p>Information not provided.</p>								
<p>Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet</p>	<table> <tr> <td data-bbox="710 1361 1018 1395">Component Description:</td><td data-bbox="1153 1361 1366 1664">NEPA Screen /Section 106 Review WTAP 12266 Veto Road, Constitution, Washington County, Ohio 45750.</td></tr> <tr> <td data-bbox="710 1680 820 1713">Amount:</td><td data-bbox="1153 1680 1270 1713">\$5,067.00</td></tr> </table>	Component Description:	NEPA Screen /Section 106 Review WTAP 12266 Veto Road, Constitution, Washington County, Ohio 45750.	Amount:	\$5,067.00				
Component Description:	NEPA Screen /Section 106 Review WTAP 12266 Veto Road, Constitution, Washington County, Ohio 45750.								
Amount:	\$5,067.00								
<p>NEPA Section 106 environmental review, if needed</p>	<table> <tr> <td data-bbox="710 1854 1018 1888">Component Description:</td><td data-bbox="1153 1854 1353 1960">20180051 WTAP Tower NEPA Study</td></tr> <tr> <td data-bbox="710 1975 820 2009">Amount:</td><td data-bbox="1153 1975 1270 2009">\$7,391.11</td></tr> </table>	Component Description:	20180051 WTAP Tower NEPA Study	Amount:	\$7,391.11				
Component Description:	20180051 WTAP Tower NEPA Study								
Amount:	\$7,391.11								

Attorney Fees - Prepare and File request for Special Temporary Authorization	<p>Component Description: Review proposed main antenna and broadband interim antenna specification from 2 manufacturers.</p> <p>Amount: \$125.00</p>
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	<p>Component Description: Complete and file initial repack construction permit application for WTAP</p> <p>Amount: \$196.50</p>
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	<p>Component Description: Regarding buildout of repack Ch-35 main facility</p> <p>Amount: \$250.00</p>
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.
Perform engineering study for new channel assignment and antenna development	<p>Component Description: Perform engineering study for new channel assignment</p> <p>Amount: \$437.50</p>

Component Description:	Develop final configuration for main antenna and determine ERP based on intended transmitter for repack
Amount:	\$1,450.00

Component Description:	Travel
Amount:	\$5,126.13

Component Description:	WTAP-530-RF Eng Study
Amount:	\$2,904.16

Component Description:	WTAP-530-RF Eng Study
Amount:	\$3,079.16

Component Description:	Antenna and Transmission Line Mapping
Amount:	\$3,600.00

Component Description:	Repack Engineering Interim antenna analysis - Robert E Thurber
Amount:	\$1,875.00

Component Description:	Perform engineering study for new channel assignment
Amount:	\$2,712.50

	Component Description:	Regarding repack Ch-35, review antenna proposals from two vendors
	Amount:	\$187.50
	Component Description:	RF Consulting
	Amount:	\$125.00
Project management of the transition	Component Description:	Project Management
	Amount:	\$2,721.85
	Component Description:	Project Management
	Amount:	\$1,890.75
	Component Description:	Project Management
	Amount:	\$1,992.65
	Component Description:	Project Management
	Amount:	\$2,457.40
	Component Description:	Project Management
	Amount:	\$6,948.40
	Component Description:	Project Management
	Amount:	\$4,734.40
	Component Description:	Project Management
	Amount:	\$2,776.95

Component Description:	Project Management
Amount:	\$5,015.75

Component Description:	Project Management
Amount:	\$9,188.40

Component Description:	Cost Reconciliation
Amount:	\$2,775.45

Component Description:	Project Management
Amount:	\$3,288.80

Component Description:	Project Management
Amount:	\$4,781.05

Component Description:	Reference WTAP- 510-Project Management THTV LLC. 62
Amount:	\$564.67

Component Description:	WTAP-510-Project Management
Amount:	\$2,100.00

Component Description:	Repacking supplies- distilled water
Amount:	\$167.31

Component Description:	Project management
Amount:	\$3,536.90

Component Description:	Project management
Amount:	\$2,750.15

Component Description:	Project Management
Amount:	\$2,521.95

Component Description:	Project Management
Amount:	\$755.80

Component Description:	Project Management
Amount:	\$2,472.60

Component Description:	Project Management
Amount:	\$2,775.85

Component Description:	Project Management
Amount:	\$2,116.85

Component Description:	Project Management
Amount:	\$28.20

Component Description:	Project Management
Amount:	\$4,369.80

Component Description:	Project Management
Amount:	\$3,142.20

Component Description:	Project Management
Amount:	\$1,728.10

Component Description:	Transition Related Project Management Costs
Amount:	\$3,300.00

Component Description:	Project Management
Amount:	\$3,605.65

Component Description:	Project Management
Amount:	\$1,845.25

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

Component Description:	Project Management
Amount:	\$802.25

Component Description:	Project Management
Amount:	\$4,280.65

Component Description:	Project Management
Amount:	\$3,558.80

Component Description:	Project Management
Amount:	\$1,363.95

	Component Description:	Repack Engineering
	Amount:	\$133.47
	Component Description:	Project Management
	Amount:	\$7,983.25
	Component Description:	Project Management
	Amount:	\$462.00
	Component Description:	Project Management
	Amount:	\$4,037.30
	Component Description:	Project Management
	Amount:	\$1,936.65
	Component Description:	Project Management
	Amount:	\$3,588.75
	Component Description:	Project Management
	Amount:	\$1,706.25
Prepare request for Special Temporary Authorization	Component Description:	Consulting Engineer
	Amount:	\$875.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	

Prepare and or review reimbursement form	Information not provided.
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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	\$96,173.69	\$86,941.69		\$29,734.95	
Fencing	<i>\$9,691.00</i>	\$9,691.00	N/A	N/A	N/A
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	Per Estimated Cost Justification WTAP-610-MVPD Notifications v0	\$2,000.00	N/A
Develop and air announcement of upcoming channel change	<i>\$13,600.00</i>	\$13,600.00	N/A	N/A	N/A
Equipment Storage	<i>\$2,172.10</i>	\$2,172.10	Please see Estimated Cost Justification WTAP-610-Equipment Storage Fees v2	\$2,172.10	N/A
Equipment Delivery and Handling Charges	<i>\$9,520.59</i>	\$9,520.59	see Estimated Cost Justification WTAP-610-Equipment Delivery v2	\$9,520.59	N/A

Disposal Costs (for equipment and other waste, net of any salvage value)	\$30,000.00	\$30,000.00	N/A	\$15,842.26	N/A
Non-zoning permits	\$16,000.00	\$16,000.00	N/A	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$200.00	see Estimated Cost Justification WTAP-610-STA FCC Filing Fees v0	\$200.00	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$335.00	see Estimated Cost Justification WTAP-610-License to Cover FCC Filing Fees v0	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$1,070.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,353.00	N/A	N/A	N/A
Sub-total	\$96,173.69	\$86,941.69	N/A	\$29,734.95	N/A
Total for all systems	\$7,038,921.56	\$5,973,430.56	N/A	\$3,015,446.77	N/A

Components

Actual Information	
Description	File Name
Fencing	Information not provided.

MVPD Notification of Channel Change	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Legal Services</div> <div>\$2,000.00</div> </div>
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Storage	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>container Unit</div> <div>\$267.50</div> </div> <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>8' x 40'- 45' container Unit</div> <div>\$267.50</div> </div> <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>8' x 40' - 45' container Unit</div> <div>\$267.50</div> </div> <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>container Unit</div> <div>\$267.50</div> </div> <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>8 x 40 - 45 container Unit 453466 6/27/19-7/27/19</div> <div>\$1,102.10</div> </div>

Equipment Delivery and Handling Charges	<table> <tr> <td data-bbox="703 176 1010 208">Component Description:</td><td data-bbox="1145 176 1374 244">WTAP-610-Equipment Delivery</td></tr> <tr> <td data-bbox="703 257 812 288">Amount:</td><td data-bbox="1145 257 1262 288">\$1,988.76</td></tr> <tr> <td data-bbox="703 396 1010 427">Component Description:</td><td data-bbox="1145 396 1358 463">Project Repacking supplies</td></tr> <tr> <td data-bbox="703 477 812 508">Amount:</td><td data-bbox="1145 477 1241 508">\$696.37</td></tr> <tr> <td data-bbox="703 616 1010 647">Component Description:</td><td data-bbox="1145 616 1347 683">8' X 40' container Unit</td></tr> <tr> <td data-bbox="703 696 812 728">Amount:</td><td data-bbox="1145 696 1241 728">\$267.50</td></tr> <tr> <td data-bbox="703 835 1010 866">Component Description:</td><td data-bbox="1145 835 1374 902">TL 943 Telehandler Rental</td></tr> <tr> <td data-bbox="703 916 812 947">Amount:</td><td data-bbox="1145 916 1262 947">\$2,983.14</td></tr> <tr> <td data-bbox="703 1055 1010 1086">Component Description:</td><td data-bbox="1145 1055 1374 1122">WTAP-610-Equipment Delivery</td></tr> <tr> <td data-bbox="703 1135 812 1167">Amount:</td><td data-bbox="1145 1135 1262 1167">\$3,584.82</td></tr> </table>	Component Description:	WTAP-610-Equipment Delivery	Amount:	\$1,988.76	Component Description:	Project Repacking supplies	Amount:	\$696.37	Component Description:	8' X 40' container Unit	Amount:	\$267.50	Component Description:	TL 943 Telehandler Rental	Amount:	\$2,983.14	Component Description:	WTAP-610-Equipment Delivery	Amount:	\$3,584.82
Component Description:	WTAP-610-Equipment Delivery																				
Amount:	\$1,988.76																				
Component Description:	Project Repacking supplies																				
Amount:	\$696.37																				
Component Description:	8' X 40' container Unit																				
Amount:	\$267.50																				
Component Description:	TL 943 Telehandler Rental																				
Amount:	\$2,983.14																				
Component Description:	WTAP-610-Equipment Delivery																				
Amount:	\$3,584.82																				
Disposal Costs (for equipment and other waste, net of any salvage value)	<table> <tr> <td data-bbox="703 1305 1010 1337">Component Description:</td><td data-bbox="1145 1305 1374 1534">All costs and markups to perform the work as describe including labor, material, supervision, etc.</td></tr> <tr> <td data-bbox="703 1547 812 1579">Amount:</td><td data-bbox="1145 1547 1262 1579">\$4,540.00</td></tr> <tr> <td data-bbox="703 1686 1010 1718">Component Description:</td><td data-bbox="1145 1686 1331 1870">"30YRD DUMPSTER TRANSMITTER SITE 1 REPACKING"</td></tr> <tr> <td data-bbox="703 1883 812 1915">Amount:</td><td data-bbox="1145 1883 1262 1915">\$1,370.88</td></tr> </table>	Component Description:	All costs and markups to perform the work as describe including labor, material, supervision, etc.	Amount:	\$4,540.00	Component Description:	"30YRD DUMPSTER TRANSMITTER SITE 1 REPACKING"	Amount:	\$1,370.88												
Component Description:	All costs and markups to perform the work as describe including labor, material, supervision, etc.																				
Amount:	\$4,540.00																				
Component Description:	"30YRD DUMPSTER TRANSMITTER SITE 1 REPACKING"																				
Amount:	\$1,370.88																				

	Component Description:	30 YARD DUMPSTER
	Amount:	\$1,031.93
	Component Description:	30YRD DUMPSTER
	Amount:	\$879.69
	Component Description:	All cost and markups to perform the work as described including labor, material, supervision, etc.
	Amount:	\$3,288.00
	Component Description:	30YRD DUMPSTER
	Amount:	\$1,349.09
	Component Description:	Landfill Per Ion
	Amount:	\$381.19
	Component Description:	30 YARD DUMPSTER
	Amount:	\$666.76
	Component Description:	CHANGE OUT CAN 9/5 19
	Amount:	\$1,196.85
	Component Description:	30 yrd dumpster
	Amount:	\$1,137.87
Non-zoning permits	Information not provided.	

FCC Filing Fees - Special Temporary Authorization request	<div> <div> Component Description: </div> <div> WTAP-610-STA FCC Filing Fees </div> </div> <div> Amount: </div> <div> \$200.00 </div>
FCC Filing Fees - Form 2100 license to cover application	Information not provided.
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.
DTV Medical Facility Notification	Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$7,038,921.56	\$5,973,430.56	\$3,015,446.77

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>04/06/2020</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>04/06/2020</p>

Attachments