



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **4685** | Service: **DTV** | Call **WTAP-TV** | Channel: **35 (UHF)** |
ID: | Sign:
File **0000028742**
Number:
FRN: **0018223693** | Date **09/21**
Submitted: **/2020**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION LICENSEE, LLC	4370 Peachtree Rd., NE Atlanta, GA 30319 United States	+1 (404) 504-9828	Robert. Folliard@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
Generator Relocation	Relocation of existing generator system to facilitate reconfiguration of transmitter building.
Primary Transmitter Other Expenses	Other Expenses Related to the Primary Transmitter

Remote Control System	Remote control system for new transmitter.
Primary Transmitter Distilled Water	Distilled water for liquid cooled transmitter
Internal Transmission Line Installation - Primary	Internal Transmission Line Installation required for repack. Cost split with Interim Transmitter.
Transmitter building work	Necessary building work for new mask filter.

**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
Interim Transmitter Other Expenses	Other Expenses Related to the Interim Transmitter

Remote Control System	Remote control system for interim transmitter
Internal Transmission Line - Interim	Internal Transmission Line Installation required for repack. Cost split with Primary 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?	
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	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

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

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
Anode Grounding System	Anode grounding system based upon corrosion testing
Replace Main Antenna	Remove existing main antenna and install new main antenna.
Level II corrosion	Level II corrosion testing
Move Equipment	Remove and install existing main and aux equipment
New Primary Tower - Interim Antenna Installation	New Primary Tower - Interim Antenna Installation

**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
Auxiliary Facility Construction Permit Filing Fee	Filing fee required for auxiliary facility

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	\$2,765,201.96	\$1,982,696.41		\$1,181,424.06	
Interim Transmitter Other Expenses	<i>\$2,186.17</i>	\$2,186.17	see Estimated Cost Justification WTAP-180-Interim Transmitter - Other Expenses v1	\$1,932.46	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>\$25,114.49</i>	\$25,114.49	Please see Estimated Cost Justification WTAP-180-Electrical Service Interim Transmitter v2	\$25,114.49	N/A

Internal Transmission Line - Interim	\$12,813.60	\$12,813.60	Please see WTAP-TV GatesAir quote Q-82773. Costs split evenly between interim and primary transmitters.	\$12,813.60	N/A
Remote Control System	\$0.00	\$0.00	4/30/20 deemed non-reimbursable	\$0.00	N/A
Transformer 3 phase/480v - 300 KVA	\$36,800.00	\$3,315.42	see Estimated Cost Justification WTAP-180-Transformer-Interim Transmitter v0	\$3,216.41	N/A
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	\$1,215,287.70	\$1,215,287.70	GatesAir Quote Q-80474	\$414,368.07	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	\$1,315,391.41	\$1,297,935.51		\$1,223,646.42	

Primary Transmitter Distilled Water	\$111.90	\$111.90	Please see Estimated Cost Justification WTAP-110- New 1st Primary Transmitter - Other Expenses - Distilled Water v0	\$111.90	N/A
Generator Relocation	\$34,560.70	\$34,560.70	Please see Estimated Cost Justification WTAP-110- Genset relocation New 1st Primary Transmitter v1	\$14,334.26	N/A
Internal Transmission Line Installation - Primary	\$12,813.60	\$12,813.60	Please see WTAP-TV GatesAir quote Q-82773. Costs split evenly between primary and interim transmitters.	\$12,813.60	N/A
Primary Transmitter Other Expenses	\$1,937.87	\$1,937.87	Please see Estimated Cost Justification WTAP-110- New 1st Primary Transmitter - Other Expenses v0	\$1,696.11	N/A
Remote Control System	\$0.00	\$0.00	4/30/20 deemed non-reimbursable	\$0.00	N/A

Transmitter building work	\$15,900.00	\$15,900.00	N/A	\$3,748.61	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.	\$287,500.00	\$287,500.00	N/A	\$247,337.21	N/A
Transformer 3 phase/480v - 150 KVA	\$25,550.00	\$8,094.10	Please see Estimated Cost Justification WTAP-110-Transformer New 1st Primary Transmitter v0	\$8,094.10	N/A
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	\$937,017.34	\$937,017.34	see Estimated Cost Justification WTAP-110-Transformer New 1st Primary Transmitter v0	\$935,510.63	N/A
Sub-total	\$4,080,593.37	\$3,280,631.92	N/A	\$2,405,070.48	N/A
Total for all systems	\$7,156,284.95	\$6,065,136.43	N/A	\$3,534,536.00	N/A

Components

Actual Information	
Description	File Name
Interim Transmitter Other Expenses	Component Description: CELLO BP7-24 11 /2 PRESS 90 ELBOW Amount: \$473.02
	Component Description: Labor Amount: \$958.00
	Component Description: Other Expenses Amount: \$267.44
	Component Description: Water Amount: \$78.00
	Component Description: Water Amount: \$156.00
Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	Component Description: Liquidtite Connectors Amount: \$15,768.32
	Component Description: Electrical Service Amount: \$1,103.06
	Component Description: WTAP-180- Electrical Service Interim Transmitter Amount: \$8,243.11

Internal Transmission Line - Interim	<div> Component Description: WTAP-180-New Interim Transmitter - Other Expenses - Internal Transmission Line Installation </div> <div> Amount: \$12,813.60 </div>
Remote Control System	Information not provided.
Transformer 3 phase/480v - 300 KVA	<div> Component Description: WTAP-180-Transformer-Interim Transmitter </div> <div> Amount: \$49.81 </div> <div> Component Description: WTAP-180-Transformer - Interim Transmitter </div> <div> Amount: \$3,166.60 </div>
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	<div> Component Description: ULXTE-60 Transmitter </div> <div> Amount: \$12,569.86 </div> <div> Component Description: ANVIL AS026ODN 15/80D </div> <div> Amount: \$43.13 </div> <div> Component Description: CELLO BP7-24 11 /2 PRESS 90 ELBOW </div> <div> Amount: \$106.76 </div> <div> Component Description: XPR 10077752 811-R press tee 1 1/2 </div> <div> Amount: \$146.94 </div>

Component Description:	CELLO BP3-12 3 /4 PRESS X FEM ADPT
Amount:	\$94.77

Component Description:	ULXTE-60 Transmitter
Amount:	\$83,838.52

Component Description:	Invoice moved to correct budget category.
Amount:	N/A

Component Description:	Invoice moved to correct budget category per NMI message.
Amount:	N/A

Component Description:	Invoice moved to correct budget category per NMI message.
Amount:	N/A

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

Component Description:	Invoice moved to correct budget category per NMI message.
Amount:	N/A

	Component Description:	Invoice moved to new budget category per NMI message
	Amount:	N/A
	Component Description:	Invoice moved to correct budget category
	Amount:	N/A
	Component Description:	WTAP-180-Interim Transmitter
	Amount:	\$200.55
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	Component Description:	ULXTE-60 Transmitter
	Amount:	\$723,979.03
Primary Transmitter Distilled Water	Component Description:	distilled water
	Amount:	\$33.90
	Component Description:	Water
	Amount:	\$78.00

Generator Relocation	Component Description:	3" Rigid Conduit
	Amount:	\$3,216.23
	Component Description:	Rigging and Relocating Emergency Generator
	Amount:	\$4,186.49
	Component Description:	Stranded Aluminium Wire
	Amount:	\$6,864.87
	Component Description:	Repack Engineering
	Amount:	\$66.67
Internal Transmission Line Installation - Primary	Component Description:	Field service
	Amount:	\$12,813.60

Primary Transmitter Other Expenses	Component Description:	Parts
	Amount:	\$768.24
	Component Description:	Parts
	Amount:	\$80.81
	Component Description:	Parts
Remote Control System	Amount:	\$396.37
	Component Description:	Other Expenses
	Amount:	\$267.43
	Component Description:	Parts
	Amount:	\$183.26
Transmitter building work	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.	Component Description:	Labor and materials
	Amount:	\$3,370.00
	Component Description:	Labor and Materials
	Amount:	\$378.61
	Component Description:	80ft 1 1-2in EMT Conduit
	Amount:	\$31,270.72
	Component Description:	Provide 277/490V SVC to Customer
	Amount:	\$9,108.04

Component Description:	Panel Lot Price
Amount:	\$10,822.70

Component Description:	TRANSFER SWITCH A59
Amount:	\$13,049.11

Component Description:	1 1" PVC Male Adapter
Amount:	\$5,222.20

Component Description:	12 14 x 4 14 Copper Ground Bar
Amount:	\$26,615.77

Component Description:	3 4EMT Conduit
Amount:	\$9,822.24

Component Description:	WTAP-110- Electrical service New 1st Primary Transmitter
Amount:	\$300.83

Component Description:	4" PVC Conduit
Amount:	\$17,956.63

Component Description:	Eaton Cutler Hammer 225 Amp 3 120/208 42
Amount:	\$4,764.36

Component Description:	Electrical Service
Amount:	\$902.50

	Component Description:	BUR KS23 Split Bolts
	Amount:	\$28,107.25
	Component Description:	2" EMT Conduit
	Amount:	\$18,974.65
	Component Description:	.5 EMT Conduit
	Amount:	\$16,052.05
	Component Description:	CH 600 Volt 800 Amp Service Entrance Rated Fused
	Amount:	\$37,791.44
	Component Description:	Breaker
	Amount:	\$16,576.72
Transformer 3 phase/480v - 150 KVA	Component Description:	WTAP-110-Transformer New 1st Primary Transmitter
	Amount:	\$53.78
	Component Description:	WTAP-110-Transformer New 1st Primary Transmitter
	Amount:	\$8,040.32
UHF - Liquid Cooled Solid State Transmitter 31.7 kW	Component Description:	A. Transmitter
	Amount:	\$245,249.03

Component Description:	WTAP-110-New 1st Primary Transmitter
Amount:	\$300.83

Component Description:	A. Transmitter
Amount:	\$83,904.18

Component Description:	Invoice moved to correct budget category
Amount:	N/A

Component Description:	Invoice moved to correct budget category.
Amount:	N/A

Component Description:	Invoice moved to correct budget category.
Amount:	N/A

Component Description:	Invoice moved to correct bud category.
Amount:	N/A

Component Description:	Invoice moved to correct budget category.
Amount:	N/A

Component Description:	ULXTE-50 Transmitter
Amount:	\$606,056.59

Component Description:

Invoice moved to
correct budget
category

Amount:

N/A

Component Description:

Invoice moved to
new budget
category per NMI
message.

Amount:

N/A

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		\$58,611.39	
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	\$5,595.00	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	\$269,180.00	\$224,208.00		\$199,619.25	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$5,120.00	N/A
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
UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized	\$227,000.00	\$187,520.00	See attached Quote.	\$164,211.25	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
Sub-total	\$537,010.00	\$379,191.53	N/A	\$258,230.64	N/A
Total for all systems	\$7,156,284.95	\$6,065,136.43	N/A	\$3,534,536.00	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> Component Description: WTAP-280-Sweep test Interim Antenna Amount: \$2,075.00 </div> <div> Component Description: Repack Sweep Amount: \$1,920.00 </div> <div> Component Description: Sweep Amount: \$1,600.00 </div>

<p>UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized</p>	<table> <tr> <td data-bbox="726 174 1029 208">Component Description:</td><td data-bbox="1166 174 1372 286">Rigging and offloading of RFS Interim antenna</td></tr> <tr> <td data-bbox="726 297 831 331">Amount:</td><td data-bbox="1166 297 1262 331">\$200.55</td></tr> <tr> <td data-bbox="726 439 1029 472">Component Description:</td><td data-bbox="1166 439 1372 663">UHF - Broadband Panel, Side Mount Aux /Interim, Sweep - Repack, incl. Field Engineer</td></tr> <tr> <td data-bbox="726 674 831 707">Amount:</td><td data-bbox="1166 674 1299 707">\$28,808.64</td></tr> <tr> <td data-bbox="726 815 1029 848">Component Description:</td><td data-bbox="1166 815 1372 1084">UHF - Broadband panel, side mount Aux/Interim SBB-16C170 16 Bay Broadband UHF Side Mount Antenna</td></tr> <tr> <td data-bbox="726 1095 831 1128">Amount:</td><td data-bbox="1166 1095 1299 1128">\$24,007.20</td></tr> </table>	Component Description:	Rigging and offloading of RFS Interim antenna	Amount:	\$200.55	Component Description:	UHF - Broadband Panel, Side Mount Aux /Interim, Sweep - Repack, incl. Field Engineer	Amount:	\$28,808.64	Component Description:	UHF - Broadband panel, side mount Aux/Interim SBB-16C170 16 Bay Broadband UHF Side Mount Antenna	Amount:	\$24,007.20
Component Description:	Rigging and offloading of RFS Interim antenna												
Amount:	\$200.55												
Component Description:	UHF - Broadband Panel, Side Mount Aux /Interim, Sweep - Repack, incl. Field Engineer												
Amount:	\$28,808.64												
Component Description:	UHF - Broadband panel, side mount Aux/Interim SBB-16C170 16 Bay Broadband UHF Side Mount Antenna												
Amount:	\$24,007.20												
<p>Sweep test of existing antenna</p>	<table> <tr> <td data-bbox="726 1263 1029 1296">Component Description:</td><td data-bbox="1166 1263 1362 1375">WTAP-210- Sweep test New Primary Antenna</td></tr> <tr> <td data-bbox="726 1386 831 1420">Amount:</td><td data-bbox="1166 1386 1283 1420">\$1,600.00</td></tr> <tr> <td data-bbox="726 1527 1029 1561">Component Description:</td><td data-bbox="1166 1527 1362 1639">WTAP-210- Sweep test New Primary Antenna</td></tr> <tr> <td data-bbox="726 1650 831 1684">Amount:</td><td data-bbox="1166 1650 1283 1684">\$1,600.00</td></tr> <tr> <td data-bbox="726 1789 1029 1823">Component Description:</td><td data-bbox="1166 1789 1362 1901">Sweep test New Primary Antenna</td></tr> <tr> <td data-bbox="726 1868 831 1901">Amount:</td><td data-bbox="1166 1868 1283 1901">\$1,920.00</td></tr> </table>	Component Description:	WTAP-210- Sweep test New Primary Antenna	Amount:	\$1,600.00	Component Description:	WTAP-210- Sweep test New Primary Antenna	Amount:	\$1,600.00	Component Description:	Sweep test New Primary Antenna	Amount:	\$1,920.00
Component Description:	WTAP-210- Sweep test New Primary Antenna												
Amount:	\$1,600.00												
Component Description:	WTAP-210- Sweep test New Primary Antenna												
Amount:	\$1,600.00												
Component Description:	Sweep test New Primary Antenna												
Amount:	\$1,920.00												

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:

\$3,504.00

Component Description:

WTAP-210-Side
mount brackets
New Primary
Antenna

Amount:

\$4,380.00

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

UHF - Lower Power Side Mount, One station antenna -- 200-500 kW, elliptically or circularly polarized		
	Component Description:	UHF - High Power Side Mount
	Amount:	\$39,680.00
	Component Description:	UHF - HIGH POWER SIDE MOUNT
	Amount:	\$38,750.00
	Component Description:	UHF - High Power Side Mount TV Ant
		TFU 18JSC/VP-R-04 WTAP
	Amount:	\$38,750.00
	Component Description:	Other Cable DSC to 60000 switch
	Amount:	\$531.25
	Component Description:	New Primary Antenna
	Amount:	\$46,500.00

Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)		
	Component Description:	WTAP-210-Elbow complex New Primary Antenna
	Amount:	\$2,553.60
	Component Description:	WTAP-210-Elbow complex New Primary Antenna
	Amount:	\$3,192.00
	Component Description:	WTAP-210-Elbow complex New Primary Antenna
	Amount:	\$3,192.00
	Component Description:	WTAP-210-Elbow complex New Primary Antenna
	Amount:	\$3,830.40

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		\$56,017.94	
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	\$56,017.94	N/A
Primary Transmission Line	\$125,240.00	\$152,345.88		\$152,345.79	
Rigid Transmission Line - copper, 6 1/8"	\$125,240.00	\$152,345.88	see Estimated Cost Justification WTAP-310-New Primary Transmission Line v2	\$152,345.79	N/A
Sub-total	\$174,140.00	\$257,914.59	N/A	\$208,363.73	N/A
Total for all systems	\$7,156,284.95	\$6,065,136.43	N/A	\$3,534,536.00	N/A

Components

Actual Information

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

Rigid Transmission Line - copper, 4 1/16" broadband	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:	\$5,450.00
	Component Description:	WTAP-310-Interim Transmission Line
	Amount:	\$24.91
	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
Rigid Transmission Line - copper, 6 1/8"		

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

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

Component Description:	WTAP-310-New Primary Transmission Line
Amount:	\$18.33

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

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

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

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

Component Description:	0018596501 6-50 TO 4-50 Reducer
Amount:	\$18,105.30

Component Description:

Rigid
Transmission Line
- Copper, Elbow,
Dehydrator, etc.

Amount:

\$30,175.50

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	\$1,552,633.64	\$1,386,383.60		\$369,622.64	
Structural engineering tower load study for well documented tower	\$12,600.00	\$43,220.55	see Estimated Cost Justification WTAP-410-Structural analysis Existing Primary Tower v2	\$43,220.55	N/A
New Primary Tower - Interim Antenna Installation	<i>\$94,735.00</i>	\$94,735.00	Please see WTAP GTI America quote Q17-06-030-7	\$94,735.00	N/A
Anode Grounding System	<i>\$15,000.00</i>	\$15,000.00	See vendor invoice	\$14,669.78	N/A
Replace Main Antenna	<i>\$134,813.00</i>	\$134,813.00	N/A	\$0.00	N/A
Move Equipment	<i>\$152,885.64</i>	\$152,885.64	see Estimated Cost Justification WTAP-410-Move equipment Existing Primary Tower v1	\$152,885.64	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
Level II corrosion	\$6,400.00	\$6,400.00	N/A	\$6,400.00	N/A
Interim Tower	\$456,776.25	\$372,576.25		\$15,314.31	
Short Tower (less than 500')	\$84,200.00	\$0.00	4/30/20 deemed non-reimbursable	\$0.00	N/A
Interim Antenna Installation	\$0.00	\$0.00	4/30/20 deemed non-reimbursable	\$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	\$2,009,409.89	\$1,758,959.85	N/A	\$384,936.95	N/A
Total for all systems	\$7,156,284.95	\$6,065,136.43	N/A	\$3,534,536.00	N/A

Components

Actual Information Description	File Name
Structural engineering tower load study for well	

documented tower

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

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

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

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

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

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

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

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

	Component Description:	Structural Engineering Services - Engineering Evaluation
	Amount:	\$6,500.00
	Component Description:	Site Survey
	Amount:	\$8,115.00
	Component Description:	SITE SURVEY
	Amount:	\$568.05
New Primary Tower - Interim Antenna Installation	Component Description:	Tower rigging services - Short Tower 500') additional work from previously quoted
	Amount:	\$94,735.00

Anode Grounding System	<table> <tr> <td data-bbox="703 174 1011 208">Component Description:</td><td data-bbox="1145 174 1374 607">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</td></tr> <tr> <td data-bbox="703 618 815 651">Amount:</td><td data-bbox="1145 618 1262 651">\$7,250.00</td></tr> <tr> <td data-bbox="703 757 1011 790">Component Description:</td><td data-bbox="1145 757 1353 831">Anode Grounding Systems</td></tr> <tr> <td data-bbox="703 842 815 875">Amount:</td><td data-bbox="1145 842 1262 875">\$3,183.00</td></tr> <tr> <td data-bbox="703 981 1011 1014">Component Description:</td><td data-bbox="1145 981 1342 1088">Repacking supplies- copper tubing</td></tr> <tr> <td data-bbox="703 1099 815 1133">Amount:</td><td data-bbox="1145 1099 1241 1133">\$281.78</td></tr> <tr> <td data-bbox="703 1238 1011 1272">Component Description:</td><td data-bbox="1145 1238 1353 1272">COPPER STRAP</td></tr> <tr> <td data-bbox="703 1283 815 1317">Amount:</td><td data-bbox="1145 1283 1262 1317">\$1,150.00</td></tr> <tr> <td data-bbox="703 1422 1011 1456">Component Description:</td><td data-bbox="1145 1422 1366 1456">Grounding System</td></tr> <tr> <td data-bbox="703 1467 815 1500">Amount:</td><td data-bbox="1145 1467 1262 1500">\$2,805.00</td></tr> </table>	Component Description:	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	Amount:	\$7,250.00	Component Description:	Anode Grounding Systems	Amount:	\$3,183.00	Component Description:	Repacking supplies- copper tubing	Amount:	\$281.78	Component Description:	COPPER STRAP	Amount:	\$1,150.00	Component Description:	Grounding System	Amount:	\$2,805.00
Component Description:	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																				
Amount:	\$7,250.00																				
Component Description:	Anode Grounding Systems																				
Amount:	\$3,183.00																				
Component Description:	Repacking supplies- copper tubing																				
Amount:	\$281.78																				
Component Description:	COPPER STRAP																				
Amount:	\$1,150.00																				
Component Description:	Grounding System																				
Amount:	\$2,805.00																				
Replace Main Antenna	<table> <tr> <td data-bbox="703 1626 1011 1659">Component Description:</td><td data-bbox="1145 1626 1374 1816">Incurred weather days during the installation of the main WTAP repack antenna</td></tr> <tr> <td data-bbox="703 1827 815 1861">Amount:</td><td data-bbox="1145 1827 1278 1861">\$19,687.50</td></tr> </table>	Component Description:	Incurred weather days during the installation of the main WTAP repack antenna	Amount:	\$19,687.50																
Component Description:	Incurred weather days during the installation of the main WTAP repack antenna																				
Amount:	\$19,687.50																				

Move Equipment	Component Description: Amount:	Tower Equipment and Rigging \$32,553.75
	Component Description: Amount:	Tower Equipment and Rigging \$97,661.25
	Component Description: Amount:	Labor for Equipment move \$19,687.50
	Component Description: Amount:	TL 943 Telehandler Rental \$2,983.14
Serious tower reinforcement/modifications	Component Description: Amount:	Engineering Evaluation \$2,375.00
	Component Description: Amount:	Freight / Goods clearning at US Border \$1,680.00
	Component Description: Amount:	WTAP-410- Reinforcements Existing Primary Tower \$601.67
	Component Description: Amount:	New Diagnosis \$6,255.00

Short Tower (less than 500')	<div> Component Description: Tower Equipment and Rigging </div> <div> Amount: \$46,800.00 </div>
Level II corrosion	<div> Component Description: Level II corrosion risk analysis </div> <div> Amount: \$6,400.00 </div>
Short Tower (less than 500')	Information not provided.
Interim Antenna Installation	Information not provided.
Ice Bridge	<div> Component Description: Labor and material, as per quotation </div> <div> Amount: \$1,403.90 </div>
	<div> Component Description: Labor and material, as per quotation </div> <div> Amount: \$3,876.01 </div>
	<div> Component Description: Atlas Steel & Supply </div> <div> Amount: \$241.45 </div>
	<div> Component Description: Jabo Supply Parkersburg </div> <div> Amount: \$468.54 </div>
	<div> Component Description: Project Repacking supplies </div> <div> Amount: \$1,992.41 </div>

New tower	<table> <tr> <td data-bbox="689 87 1098 291"> Component Description: Amount: </td><td data-bbox="1098 87 1428 291"> Total professional services \$615.00 </td></tr> <tr> <td data-bbox="689 291 1098 582"> Component Description: Amount: </td><td data-bbox="1098 291 1428 582"> For professional services rendered through October 31, 2018 \$852.00 </td></tr> <tr> <td data-bbox="689 582 1098 940"> Component Description: Amount: </td><td data-bbox="1098 582 1428 940"> Geotechnical services for New Interim tower proposed site \$5,865.00 </td></tr> </table>	Component Description: Amount:	Total professional services \$615.00	Component Description: Amount:	For professional services rendered through October 31, 2018 \$852.00	Component Description: Amount:	Geotechnical services for New Interim tower proposed site \$5,865.00
Component Description: Amount:	Total professional services \$615.00						
Component Description: Amount:	For professional services rendered through October 31, 2018 \$852.00						
Component Description: Amount:	Geotechnical services for New Interim tower proposed site \$5,865.00						

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 Co Justificati
Outside Professional Services	\$200,198.00	\$243,806.85		\$204,932.20	
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	\$83.00	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$321.00	N/A
Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	N/A	\$875.00	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$450.00	N/A

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	\$625.00	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
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
Project management of the transition	\$142,200.00	\$166,542.64	The estimated cost has been adjusted to include all invoices submitted for reimbursement at this time.	\$166,542.64	Please see submitted invoices.
Attorney Fees - Other Matters	\$518.00	\$518.00	see Estimated Cost Justification WTAP-550-Attorney - Other Matters v0	\$518.00	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	\$1,437.50	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
Sub-total	\$200,198.00	\$243,806.85	N/A	\$204,932.20	N/A
Total for all systems	\$7,156,284.95	\$6,065,136.43	N/A	\$3,534,536.00	N/A

Components

Actual Information		
Description	File Name	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	Project Management \$83.00
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	For Professional Services Rendered \$124.50
	Component Description: Amount:	Complete and file initial repack construction permit application for WTAP \$196.50
Prepare request for Special Temporary Authorization	Component Description: Amount:	Consulting Engineer \$875.00
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	Other budget category: WTAP-530-RF Eng License to Cover \$200.00
	Component Description: Amount:	Regarding buildout of repack Ch-35 main facility \$250.00
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	For services rendered \$625.00

Perform engineering study
for new channel
assignment and antenna
development

Component Description:
Amount:

Travel
\$5,126.13

Component Description:
Amount:

RF Consulting
\$125.00

Component Description:

Amount:

Perform
engineering study
for new channel
assignment
\$2,712.50

Component Description:

Amount:

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

Component Description:

Amount:

Regarding repack
Ch-35, review
antenna proposals
from two vendors
\$187.50

Component Description:

Amount:

WTAP-530-RF
Eng Study
\$3,079.16

Component Description:

Amount:

Perform
engineering study
for new channel
assignment
\$437.50

	Component Description:	WTAP-530-RF Eng Study
	Amount:	\$2,904.16
	Component Description:	Repack Engineering Interim antenna analysis - Robert E Thurber
	Amount:	\$1,875.00
	Component Description:	Antenna and Transmission Line Mapping
	Amount:	\$3,600.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Information not provided.	
Project management of the transition	Component Description:	Project Management
	Amount:	\$5,496.25
	Component Description:	Project Management
	Amount:	\$4,037.30
	Component Description:	Project Management
	Amount:	\$9,951.40
	Component Description:	Project Management
	Amount:	\$7,990.80

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

Component Description:	Project Management
Amount:	\$1,890.75

Component Description:	Project Management
Amount:	\$2,457.40

Component Description:	Project Management
Amount:	\$2,776.95

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

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

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

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

Component Description:	Project Management
Amount:	\$8,699.75

Component Description:	Project Management
Amount:	\$5,213.05

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

Component Description:	Project Management
Amount:	\$2,721.85

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

Component Description:	Project Management
Amount:	\$1,706.25

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

Component Description:	Project Management
Amount:	\$11,823.70

Component Description:	Project Management
Amount:	\$1,936.65

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

Component Description:	Project Management
Amount:	\$3,588.75

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

Component Description:	Invoice moved to correct budget categories
Amount:	N/A

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

Component Description:	Project Management
Amount:	\$755.80

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

Component Description:	Project Management
Amount:	\$802.25

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

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

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

Component Description:	Project Management
Amount:	\$28.20

Component Description:	Project Management
Amount:	\$6,948.40

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

Component Description:	Repack Engineering
Amount:	\$133.47

Component Description:	Project Management
Amount:	\$4,734.40

Component Description:	Project Management
Amount:	\$1,992.65

Component Description:	Project Management
Amount:	\$462.00

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

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

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

Component Description:	Project Management
Amount:	\$7,983.25

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

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

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

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

Attorney Fees - Other Matters	<div data-bbox="710 168 1380 324"> <p>Component Description: WTAP-550-Attorney License to Cover</p> <p>Amount: \$222.00</p> </div> <div data-bbox="710 425 1380 672"> <p>Component Description: Professional Services Rendered Through September 30, 2019</p> <p>Amount: \$296.00</p> </div>
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	<div data-bbox="710 795 1276 918"> <p>Component Description: Consulting Engineer</p> <p>Amount: \$100.00</p> </div> <div data-bbox="710 1019 1364 1500"> <p>Component Description: Regarding interim operation on repack Ch-35, various discussions regarding removal of tower lighting requirement, prepare and submit FAA form 74460-1</p> <p>Amount: \$650.00</p> </div> <div data-bbox="710 1601 1364 1960"> <p>Component Description: Regarding interim operation on repack Ch-35, determine site location and elevation data for new (interim antenna) tower.</p> <p>Amount: \$687.50</p> </div>
ASR modification (prepare FCC Form 854)	Information not provided.

Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	<p>Component Description:</p> <p>NEPA Screen /Section 106 Review WTAP 12266 Veto Road, Constitution, Washington County, Ohio 45750.</p> <p>Amount:</p> <p>\$5,067.00</p>
NEPA Section 106 environmental review, if needed	<p>Component Description:</p> <p>20180051 WTAP Tower NEPA Study</p> <p>Amount:</p> <p>\$7,391.11</p>
Attorney Fees - Prepare and File request for Special Temporary Authorization	<p>Component Description:</p> <p>Review proposed main antenna and broadband interim antenna specification from 2 manufacturers.</p> <p>Amount:</p> <p>\$125.00</p>

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	\$154,933.69	\$144,631.69		\$73,002.00	
Equipment Storage	<i>\$4,842.10</i>	\$4,842.10	Please see Estimated Cost Justification WTAP-610-Equipment Storage Fees v3	\$2,172.10	N/A
Non-zoning permits	<i>\$16,000.00</i>	\$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	\$335.00	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,110.00	\$0.00	4/30/20 Deemed non-reimbursable	\$0.00	N/A

DTV Medical Facility Notification	\$11,550.00	\$2,353.00	N/A	N/A	N/A
Auxiliary Facility Construction Permit Filing Fee	\$1,110.00	\$1,110.00	Please see attached Gray TV WTAP-TV Auxiliary Site Construction Permit Filing Fees Revision Justification	\$1,110.00	N/A
Fencing	\$9,691.00	\$9,691.00	N/A	N/A	N/A
MVPD Notification of Channel Change	\$2,000.00	\$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	\$13,600.00	\$13,600.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	\$64,500.59	\$64,500.59	see Estimated Cost Justification WTAP-610-Equipment Delivery v4	\$49,655.63	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	\$30,000.00	\$30,000.00	N/A	\$17,529.27	N/A
Sub-total	\$154,933.69	\$144,631.69	N/A	\$73,002.00	N/A

Total for all systems	\$7,156,284.95	\$6,065,136.43	N/A	\$3,534,536.00	N/A
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Components

Actual Information Description	File Name
Equipment Storage	<div> <div> Component Description: Amount: </div> <div> 8' x 40'- 45' container Unit \$267.50 </div> </div> <div> <div> Component Description: Amount: </div> <div> 8' x 40' - 45' container Unit \$267.50 </div> </div> <div> <div> Component Description: Amount: </div> <div> container Unit \$267.50 </div> </div> <div> <div> Component Description: Amount: </div> <div> container Unit \$267.50 </div> </div> <div> <div> Component Description: Amount: </div> <div> 8 x 40 - 45 container Unit 453466 6/27/19-7 /27/19 \$1,102.10 </div> </div>
Non-zoning permits	Information not provided.
FCC Filing Fees - Special Temporary Authorization request	<div> <div> Component Description: Amount: </div> <div> WTAP-610-STA FCC Filing Fees \$200.00 </div> </div>

FCC Filing Fees - Form 2100 license to cover application	Component Description: WTAP-550-Attorney - Other Matters Amount: \$335.00
FCC Filing Fees - Form 2100 minor change CP application	Information not provided.
DTV Medical Facility Notification	Information not provided.
Auxiliary Facility Construction Permit Filing Fee	Component Description: WTAP-610-Filing Fee Construction Permit Aux Amount: \$1,110.00
Fencing	Information not provided.
MVPD Notification of Channel Change	Component Description: Legal Services Amount: \$2,000.00
Develop and air announcement of upcoming channel change	Information not provided.

Equipment Delivery and Handling Charges	Component Description:	All Labor
	Amount:	\$16,087.50
	Component Description:	Project Repacking supplies
	Amount:	\$696.37
	Component Description:	8' X 40' container Unit
	Amount:	\$267.50
	Component Description:	All Labor
Disposal Costs (for equipment and other waste, net of any salvage value)	Amount:	\$24,047.54
	Component Description:	WTAP-610- Equipment Delivery
	Amount:	\$1,988.76
	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)	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:	\$384.19

Component Description:	30 YARD DUMPSTER
Amount:	\$666.76

Component Description:	All costs and markups to perform the work as describe including labor, material, supervision, etc.
Amount:	\$4,540.00

Component Description:	CHANGE OUT CAN 9/5 19
Amount:	\$1,196.85

Component Description:	30 YRD DUMPSTER
Amount:	\$1,080.56

Component Description:	30 yrd dumpster
Amount:	\$1,137.87

Component Description:	Can Rental Per Day
Amount:	\$603.45

**Cost
Information**

Grand Total

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$7,156,284.95	\$6,065,136.43	\$3,534,536.00

Reimbursement Status

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

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

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

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

09/21/2020

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR 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).	
		<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>09/21/2020</p>

Attachments