

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility ID: File	65670 000002		Call Sign:	WETA-TV	Channel: 31 (UHF)
Number:					
FRN: 000	02107274	Date	03/24		
		Submitted:	/2020		

Applicant Name, Type, and Contact Information

Applicant Information

Applicant	Address	Phone	Email	Applicant Type
GREATER WASHINGTON EDUCATIONAL TELECOMMUNICATIONS ASSOC Doing Business As: GREATER WASHINGTON EDUCATIONAL TELECOMMUNICATIONS ASSOC	Legal & Business Affairs Dept. 3939 Campbell Ave Arlington, VA 22206 United States	+1 (703) 998- 2851	Repack@weta. org	Not-for- Profit

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Preparer Contact Name and Information

Contact Information	Applicant	Address	Phone	Email
	Joseph L. Snelson , Jr . Technical Consultant Meintel, Sgrignoli & Wallace	1282 Smallwood Drive, Suite 372 Waldorf, MD 20603 United States	+1 (303) 344- 8037	Repack@weta. org

Broadcaster	Question	Response
Information and Transition Plan	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	WETA proposes to build its repack facility on channel 31 and will be sharing its main antenna, transmission line and combiner with two other parties. See the attached updated narrative for the background and details of its transition plan.

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

Auxiliary	Add Transmitter Information					
Transmitter	Section	Question	Response			
	Existing Transmitter Description	Type of change	Purchase New			
		Use	Auxiliary (Backup)			
		Description of Use	Alternate Site backup transmitter			
		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				
	Manufacturer and Type	Model	CD100P1			
		Year	1997			
		Туре	Inductive Output Tube			
		IOT Power Type	Single			
		Power Capacity	17.5 kW			

Add Transmitter Information

Auxiliary	New Transmitter Costs					
Transmitter	Section	Question	Response			
	New Transmitter	Use	Auxiliary (Backup)			
		Change Type	Purchase New			
		Is this a request for upgraded equipment?	Yes			
		Manufacturer				
		Model	ULXTE-20			
		Transmitter Type	Solid State			
		Solid State Cooling	Liquid Cooled			
		Solid State Power capacity	12.9 kW			
		Justification for New Transmitter	See attached letter from manufacturer regarding IOT transmitters.			

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

	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	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 leashold 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

Other Transmitter Cost Not Listed

AuxiliaryOther Transmitter CoTransmitterInformation not provided.

Transmitter s							
	Section	Question	Response				
	Existing Transmitter Description	Type of change	Purchase New				
		Use	Auxiliary (Backup)				
		Description of Use	Used in case of failure of main				
		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					
n	Manufacturer and Type	Model	DHD15P1				
		Year	2003				
		Туре	Solid State				
		Solid State Cooling	Air Cooled				
		Solid State Power Capacity	3.6 kW				

Add Transmitter Information

Auxiliary	New Transmitter Costs					
Transmitter	Section	Question	Response			
	New Transmitter	Use	Auxiliary (Backup)			
		Change Type	Purchase New			
		Is this a request for upgraded equipment?	No			
		Manufacturer				
		Model	ULXTE-50			
		Transmitter Type	Solid State			
		Solid State Cooling	Liquid Cooled			
		Solid State Power capacity	31.7 kW			
		Justification for New Transmitter	This higher power transmitter is required to minimize loss of coverage (ie population) due to lower antenna height at the interim site. WETA will operate at this site while transmitter is installed at the main site for operation on its post repack channel			

Other Transmitter Costs

Auxiliary	Other Transmitter Costs					
Transmitter	Section	Question	Response			
	Electrical Service	Service Entrance (3 phases 800A 208V)	No			
		Switchgear (industrial 800 amp)	No			
		Transformer (480V)	No			
		Power	N/A			
		Rigid Conduit and Wiring	Yes			
		Size	4 inches			
		Length	420.0 feet			
		Other Electrical Service	Yes			
		Description	Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor. This was originally submitted and approved under another category and moved here.			
	HVAC Service	Does the replacement transmitter require HVAC Service?	No			
		Туре	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 leashold improvement?	Yes
	Size	600.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Other Transmitter Cost Not Listed

AuxiliaryOther Transmitter CoTransmitterInformation not provided.

Primary	Existing Transmitter Infor	Transmitter Information		
Transmitter	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	DHD15P1	
		Year	2003	
		Туре	Solid State	
		Solid State Cooling	Air Cooled	
		Solid State Power Capacity	3.6 kW	

Primary	New Transmitter Costs			
Transmitter	Section	Question	Response	
	New Transmitter	Use	Primary (Main)	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	Yes	
		Manufacturer		
		Model	ULXTE-90	
		Transmitter Type	Solid State	
		Solid State Cooling	Liquid Cooled	
		Solid State Power capacity	56.4 kW	
		Justification for New Transmitter	See attached letter from GatesAir regading inability to retune current transmitter. See revised narrative. Replacement upgrade is part of a multi-station resolution that includes moving WETA's repack channel from 14 to 31 at an ERP of 1000 kW.	

Primary	Other Transmitter Costs	
Transmitter	Section	Question
	Electrical Service	Service Entrance (3 phases 800A
		Switchgear (industrial 800 amp)

ocolion	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	500 kVA
	Rigid Conduit and Wiring	Yes
	Size	4 inches
	Length	420.0 feet
	Other Electrical Service	No
	Description	N/A
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Туре	Heating and Cooling
	Size	50 tons
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	Yes
	Size	1000.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Response

Primary Transmitter	Other Transmitter Cost Not Listed	
	Name	Description

Pre-installation survey	Site Survey by GatesAir of main and aux
	transmitter sites for transmitter layout.

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

Prir _

Existing Antenna Information

Primary Antenna				
	Section	Question	Response	
	Existing Antenna Description	Type of change	Retune Existing	
		Antenna Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Leased	
		Owner	District of Columbia Joint Tower Venture	
		Site	N/A	
		Is the existing antenna shared with another station or stations?	Yes	
		Is the existing antenna directional?	No	
		Is antenna in operating condition?	Yes	
		Is antenna located on or in close proximity to an antenna farm?	Yes	
	Existing Antenna Manufacturer and Type	Class	Full Power	
		Mounting	Top Mount	
		Antenna position in stack	Тор	
		Polarization	Horizontal	
		Туре	Broadband Panel	
		Number of Stations Supported	3	

Number of Panels

48

Design power capacity in use	47.0 %
Lower Limit	470.00 MHz
Upper Limit	860.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	73.0 kW
Manufacturer	DIE
Model	TUP-04-12-2
Year	1999

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

Facility ID	Call Sign
27772	WHUT-TV
74091	WPXW-TV

Adjustment to Existing Antenna Primary

Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	Yes

Other Antenna Costs Primary

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Antenna

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Туре	New
	Number of channels supported	3
	Frequencies of channels supported	RF channel
	Frequency	N/A

Enter a list of RF channel numbers.

RF Channel Number
31
33
35

Primary Other Antenna Cost Not Listed

Antenna Information not provided.

Add Antenna Information

Auxiliary Antenna	Add Antenna Information			
	Section	Question	Response	
	Existing Antenna Description	Type of change	Purchase New	
		Antenna Use	Auxiliary (Backup)	
		Description of Use	Alternate site backup	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is this antenna currently shared with any other stations?	No	
		Is this antenna directional?	No	
		Is antenna in operating condition?	Yes	
		Is antenna located on or in close proximity to an antenna farm?	No	
	Existing Antenna	Class	Full Power	
	Manufacturer and Type	Mounting	Side Mount	
		Antenna position in stack	Not in Stack	
		Polarization	Horizontal	
		Туре	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)	30.0 kW	

Manufacturer	
Model	TFU-8JST- R03
Year	1998

Auxiliary Antenna	New Antenna Costs				
	Section	Question	Response		
	New Antenna Description	Use	Auxiliary (Backup)		
		Description of Use	See attached Buget Justification: Auxiliary Transmitter Site		
		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	Class	Full Power		
	Manufacturer and Types	Mounting	Side Mount		
		Antenna position in stack	Not in Stack		
		Polarization	Horizontal		
		Туре	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)
Manufacturer
Model
Year
Justification for New Antenna

Other Antenna Costs

Auxiliary Antenna

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Туре	
	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	4 1/16 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?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Auxiliary Antenna

Other Antenna Cost Not Listed

Name	Description
Auxiliary Antenna Installation	Includes Engineer Reviewed Rigging Plan

Transmission ⁹	L effien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Auxiliary	Add Transmission Line			
Transmissio	on Line Section	Question	Response	
	Existing Transmission Line Description	Type of change	Purchase New	
		Use	Auxiliary (Backup)	
		Description of Use	Alternate Transmitter Site	
		Ownership	Owned	
		Owner	N/A	
		Site	N/A	
		Is this transmission currently shared with any other stations?	No	
		Is Transmission Line in operating condition?	Yes	
	Existing Transmission Line Manufacturer and	Manufacturer		
	Type	Туре	Rigid	
		Diameter	3 1/8 inches	
		Other Diameter	N/A	
		Segment Length	19 1/2 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	521 feet per run	

Auxiliary	New Transmission Line			
Transmissio	n Line Section	Question	Response	
	New Transmission Line Costs	Use	Auxiliary (Backup)	
		Description of Use	Off site Interim	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	No	
		Туре	Rigid	
		Diameter	4 1/16 inches	
		Other Diameter	N/A	
		Segment Length	20 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	550 feet per run	
		Justification for New Transmission Line	See revised attached budget narrative. Line is not of standard length. Ability to support temporary operations reliably while main site is being converted to channel 31 is questionable. There is a high risk of failure.	

Other Transmission Line Expenses Not Listed Transmissionntaineation not provided.

Primary	Add Transmission Line			
Transmissio	on 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 this transmission currently shared with any other stations?	No	
		Is Transmission Line in operating condition?	Yes	
	Existing Transmission Line Manufacturer and Type	Manufacturer		
		Туре	Rigid	
		Diameter	3 1/8 inches	
		Other Diameter	N/A	
		Segment Length	20 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	170 feet per run	

Primary	New Transmission Line			
Transmissio	n 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?	Yes	
		Туре	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	170 feet per run	
		Justification for New Transmission Line	Current line will not support higher power level to meet ERP determined from multi- station resolution.	

Primary	Other Transmission Line Expenses Not Listed	
Transmissio	n Line	Description
	Installation	Estimated removal of current line and installation of new. installation

New Transmission Line

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

Auxiliary Tower	Add Tower			
	Section	Question	Response	
	Existing	Type of change	Modify Existing	
	Tower Description	Tower Use	Auxiliary (Backup)	
		Description of Use	Alternate site for WETA	
		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)	Yes	
		Others Types of Users	Yes	
		Is tower documented for structural analysis?	Yes	
		Is tower compliant with Rev G?	No	
	Existing	Do you have a tower registration number?	Yes	
	Tower Structure Registration	ASR Number	1018169	
	NAD83 (North	Latitude (NAD83)	38° 53' 30.0" N-	
		Longitude (NAD83)	077° 07' 54.0" W-	
	American Datum of	Overall Structure Height	495.40 feet	
	1983))	Support Structure Height	492.12 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	370.07 feet	
		Structure Type	LTOWER - Lattice Tower	

Tower Owner	GREATER WASHINGTON EDUCATIONAL TELECOMMUNICATIONS ASSN DBA = WETA FM
Date Constructed	02/12/2014

FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared

Facility ID	Call Sign	Service
65669	WETA	FM
4644	WAVA-FM	FM
12460	WGTS	FM

Other Types of Users

Users

Cellular

Amateur Radio

Trunking

Auxiliary Tower Modification Costs

Tower

SectionQuestionResponseEngineering StudyPlease what type of engineering study is
required, if any:Study needed
for documented
towerTower ReinforcementsPlease select whether tower reinforcements
are needed:Major
Reinforcements
needed

Tower Rigging Costs

SectionQuestionResponseTower Rigging CostsComplex TowerN/AHelicopter Services
RequiredAre helicopter services required?No

Other Tower Expenses Not Listed

Auxiliary Tower

Auxiliary Tower

Name	Description
Tower Rigging and Installation	Tower rigging and installation labor to install tower modifications: includes engineer review rigging plan, additional tower mounting materials related to modifications

Outside Professional	Section	Question	Response
	I Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	1500
		Explanation	See attached Budget Justification: Outside Professional Services
	Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
		Prepare engineering section of Form FCC Construction Permit Application	Yes
		For Auxiliary Facility	Yes
		For Main Facility	Yes
		Prepare engineering section of Form FCC License to Cover Application	Yes
		For Auxiliary Facility	Yes
		For Main Facility	Yes
		Prepare request for Special Temporary Authority	Yes
		Quantity	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	Yes
		For Main Facility	Yes

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

Outside	Other Professional Services Expenses	Not Listed
Professional	Services Costs	Description
	Architect and Engineering services	Planning and layout of new equipment to be installed at main and aux transmitter sites.

Channel change	Engineering services to evaluate coverage and interference moving channel from 14 to 31.
Progress Reporting	Prepare and file 7 required progress reports on FCC Form 2100, Schedule 387 on a quarterly basis with the FCC.
Site Visits and Surveys	Site visits to establish what equipment is on premises, where new equipment will be located and do equipment inventory for both main and auxiliary sites.

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

Description

Legal work related to WETA repack and reimbursement, including advice on FCC rules, regulations and policies, required FCC filings, reimbursement rules and procedures, and coordination of repack efforts with other site users at multi-party tower site.

Transmitters

Cost Information

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 C Justifica
Primary Transmitter ULXTE-90	\$2,302,335.00	\$2,249,957.00		\$1,623,236.45	
Transformer 3 phase /480v - 500 KVA	\$48,400.00	\$46,000.00	N/A	\$8,472.78	N/
Pre- installation survey	\$19,725.00	\$19,725.00	Pre-installation survey by GatesAir to determine requirements for transmitter installation.	\$19,725.00	N/J
Other Building Addition Size: 1000.0	\$99,590.00	\$99,590.00	Arktx Proposal dated 20180626 - \$26,590 -drawing & 3D laser imaging for initial planning purposes & OsbornEngineering proposal J20170990 - \$73,000 total) - estimate for new roof structure to support transmitter heat exchanger.	\$52,874.53	N/J
50 Ton system	\$266,000.00	\$253,000.00	N/A	\$0.00	N/J
4" Rigid Conduit and Wiring (Cost per foot)	\$42,420.00	\$40,320.00	N/A	\$0.00	N/J

UHF -					
Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,755,022.00	See attached quote. NOTE: Quote shows cost of both main and auxiliary transmitters. See revised narrative.	\$1,542,164.14	N
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	\$0.00	N
Auxiliary Transmitter ULXTE-20	\$494,500.00	\$0.00		\$0.00	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$0.00	This category is no longer needed and may be removed. 10/18/18 JS	\$0.00	Estim cost incorr stated a should been e th predete Cost Es \$481
Auxiliary	\$1,193,358.67	\$1,191,258.67		\$807,402.49	
Transmitter ULXTE-50					

Other Electrical Service:	\$14,000.00	\$14,000.00	Electrical contractor to connect transmitter	\$0.00	N/
Electrical			into existing		
contractor			electrical panel and		
to connect			wire heat		
transmitter			exchanger into		
into existing			transmitter.		
electrical			Includes material		
panel and			and labor.		
wire heat					
exchanger					
into					
transmitter.					
Includes					
material					
and labor.					
This was					
originally					
submitted					
and					
approved					
under					
another					
category					
and moved					
here.					
UHF - Liquid	\$1,086,938.67	\$1,086,938.67	This is an auxiliary transmitter to	\$804,087.49	N/J
Cooled			replace what is		
Solid State			currently in use.		
Transmitter					
31.7 kW					
4" Rigid	\$42,420.00	\$40,320.00	N/A	\$0.00	N//
Conduit and					
Wiring					
(Cost per					
foot)					
Sub-total	\$3,990,193.67	\$3,441,215.67	N/A	\$2,430,638.94	N//
Total for all	\$6,078,264.67	\$5,521,473.21	N/A	\$3,629,830.09	N//
systems					

Actual Information	
Description	File Name

Transformer 3 phase/480v - 500 KVA		
500 RVA	Component Description:	WETA-110-1st
		Primary
		Transmitter - 3
		Phase, 480 V, 500
		KVA Transformer
	Amount:	\$2,824.26
	Component Description:	WETA-110-1st
	Component Description.	
		Primary Transmitter - 3
		Phase, 480 V, 500
		KVA Transformer
	Amount:	\$2,824.26
	Component Description:	WETA-110-1st
		Primary
		Transmitter - 3
		Phase, 480 V, 500
		KVA Transformer
	Amount:	\$2,824.26
Pre-installation survey		
	Component Description:	Site survey to
		determine site
		conditions,
		materials and
		components
		required for system
		installation

Other Building Addition Size: 1000.0		
5126. 1000.0	Component Description:	Item A - Drawing and 3D laser
		imaging for
	Amount:	planning purposes \$22,590.00
	Component Description:	Professional Services
	Amount:	\$2,249.25
	Component Description:	Completed work
	Amount:	billed for May \$7,575.00
	Component Description:	Monthly progress
	Component Description.	of Architectural
		and Engineering
		Design for existing Transmitter Facility
		alterations.
	Amount:	\$16,810.47
	Component Description:	Monthly Progress
		of Architectural
		and Engineering Design
	Amount:	\$2,667.61
	Component Description:	Monthly progress
		of Architectural
		and Engineering
		Design for existing Transmitter Facility
		alterations.
	Amount:	\$982.20
50 Ton system	Information not provided.	
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	Component Description: Amount:	A. Transmitter \$548,861.65
	Component Description: Amount:	A. Transmitter \$444,440.84
	Component Description:	1/3 Down Payment: ULXTE- 90 Transmitter
	Amount:	\$548,861.65
Switchgear - industrial 800 amp	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	Component Description:	The original invoice was incorrectly associated with this category. This category is no longer required and may be removed. 10/18/18 JS N/A
Other Building Addition Size: 600.0		
Size: 600.0	Component Description:	Professional Services
	Amount:	\$3,315.00
Other Electrical Service: Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor. This was originally submitted and approved under another category and moved here.	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 31.7 kW	Component Description: Amount:	A. Transmitter \$93,154.85
	Component Description:	1/3 Payment ULXTE-50
	Amount:	Transmitter \$352,242.88
	Component Description:	1/3 down payment of total transmitter cost
	Amount:	\$358,689.76
	Component Description: Amount:	ULXTE-50 Transmitter \$358,689.76
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

Antennas

Cost Information

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	Ac Ju:
Primary Antenna TUP-04-12-2	\$90,930.00	\$147,007.50		\$123,084.25	
New combiner, cost per channel (without antenna)	\$84,200.00	\$140,607.50	see Estimated Cost Justification WETA-210- Primary Antenna - New Combiner v0	\$119,884.25	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$3,200.00	
Auxiliary Antenna TFU-WB	\$323,960.00	\$159,991.00		\$82,943.77	
Auxiliary Antenna Installation	\$89,750.00	\$89,750.00	Per Estimated Cost Justification WETA-250- Auxiliary Antenna - Antenna Rigging and Installation v0	\$68,450.00	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,260.00	\$4,050.00	Revised. See narrative weta_budget_rev_070918. pdf.	N/A	

Total for all systems	\$6,078,264.67	\$5,521,473.21	N/A	\$3,629,830.09
Sub-total	\$414,890.00	\$306,998.50	N/A	\$206,028.02
horizontally polarized				
200-500 kW,				
station - 200-500				
One				
Mount,				
Side			1	
Lower Power			weta_budget_rev_070918. pdf.	
UHF -	\$189,500.00	\$44,925.00	See narrative	N/A
antenna	• • • •	• • • •		
of existing	. ,	. ,		. ,
Sweep test	\$6,730.00	\$6,400.00	N/A	\$6,400.00
feedline (if needed)				
1/16. foodling (if				
input, per 4				
antenna				
single channel, at			pdf	
complex,			weta_budget_rev_070918.	
Elbow	\$9,570.00	\$8,116.00	See narrative	\$8,093.77
base cost)				
antenna				
(if not included in				
antennas (if not				
power				
for high			optimize antenna pattern.	
orackets	\$23,150.00		brackets required to	

Actual Information	
Description	File Name

Component Description: Amount:	Combiner Costs - 50% WHUT Incremental Cost \$20,723.25
Component Description: Amount:	Combiner Costs - 50% WETA/WPXW \$119,884.25
Component Description: Amount:	WETA-210-Primary Antenna - Sweep Test \$3,200.00
	Amount: Component Description: Amount: Component Description:

Component Description:	Connection
	Redesign
	Sketches,
	Connection
	Redesign Drawings
Amount:	\$2,600.00
Component Description:	WETA-250-
	Auxiliary Antenna -
	Antenna Rigging
	and Installation
Amount:	\$16,250.00
Amount.	ψ10,200.00
Component Description	Auxiliary Antenna -
Component Description:	•
	Antenna Rigging and Installation
Amount	
Amount.	\$850.00
Component Description:	Auxiliary Antenna
component Description.	Rigging and
	Installation
Amount	\$32,500.00
Amount.	<i>432,300.00</i>
Component Description:	Troubleshoot
· ·	antenna burnout
	issues -
	Emergency Rate
	Tower Technicians
Amount:	\$21,300.00
Component Description:	Auxiliary Antenna
	Rigging and
	Installation
Amount:	\$16,250.00
Information not provided.	
	Amount:Component Description:Amount:Component Description:Amount:Component Description:Amount:Component Description:Amount:Component Description:Amount:Component Description:Amount:Amount:Component Description:Amount:

Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	Component Description: Amount:	ELBOW 4-50 DIGIT 7 X 14 \$8,093.77
Sweep test of existing antenna	Component Description: Amount:	OTHER \$6,400.00
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	Information not provided.	

Transmission Line

Cost Information

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 Justification
Primary Transmission Line	\$79,040.00	\$113,029.50		\$0.00	
Installation	\$44,700.00	\$44,700.00	See attached quote 800163CMZ WETA COMPONENTS for field survey and installation of line.	\$0.00	N/A
Rigid Transmission Line - copper, 6 1/8"	\$34,340.00	\$68,329.50	See attached quote 800163CMZ WETA COMPONENTS.	\$0.00	N/A
Auxiliary Transmission Line	\$78,100.00	\$84,460.00		\$3,859.00	
Rigid Transmission Line - copper, 4 1 /16"	\$78,100.00	\$84,460.00	See narrative 070918.pdf.; See Justifying Change Order - R0019581504	\$3,859.00	N/A
Sub-total	\$157,140.00	\$197,489.50	N/A	\$3,859.00	N/A
Total for all systems	\$6,078,264.67	\$5,521,473.21	N/A	\$3,629,830.09	N/A

Actual Information Description	File Name
Installation	Information not provided.

Rigid Transmission Line - copper, 6 1/8"	Information not provided.	
Rigid Transmission Line - copper, 4 1/16"		
	Component Description:	RIGID
		TRANSMISSION
		LINE T/L 4-50 EIA
		LENGTH 5' TO 10' FIXED FLG 1 END
		SWIVEL FLG 1
		END"
	Amount:	\$1,402.00
	Component Description:	HANGER HOR 4
		3PT SUSPENSION
	Amount:	\$1,440.00
	Component Description:	T/L 4-50 EIA
		LENGTH 5' TO 10'
		FIXED FLG 1
	Amount:	\$1,017.00

Tower Equipment and Rigging Costs

Cost Information

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
Auxiliary Tower LTOWER	\$849,000.00	\$666,250.00		\$572,750.00
Structural engineering tower load study for well documented tower	\$12,600.00	\$12,000.00	N/A	\$0.00
Tower Rigging and Installation	\$331,200.00	\$331,200.00	see Estimated Cost Justification WETA-450- Existing Auxiliary Tower - Major Tower Modification Installation Costs v0	\$331,200.00
Major tower reinforcement /modifications	\$421,000.00	\$243,050.00	see Estimated Cost Justification WETA-450- Existing Auxiliary Tower - Major Tower Reinforcement_Modifications v0	\$241,550.00
Short Tower (less than 500')	\$84,200.00	\$80,000.00	N/A	\$0.00
Sub-total	\$849,000.00	\$666,250.00	N/A	\$572,750.00
Total for all systems	\$6,078,264.67	\$5,521,473.21	N/A	\$3,629,830.09

Actual Information Description	File Name
Structural engineering tower load study for well documented tower	Information not provided.

Tower Rigging and Installation	Component Description: Amount:	Existing Aux Tower Major Tower Modification Installation \$165,000.00
	Component Description: Amount:	Existing Aux Tower Major Tower Modification Installation \$82,500.00
	Component Description: Amount:	WETA-450-Existing Auxiliary Tower - Major Tower Modification Installation Costs \$82,500.00
	Component Description: Amount:	Professional services \$1,200.00

Major tower reinforcement /modifications	Component Description:	Connection Redesign Sketches
	Amount:	and Drawings - by Morris & Ritchie \$3,450.00
	Component Description:	WETA Channel Repack Antenna Replacement
	Amount:	\$9,600.00
	Component Description:	Final 25% Tower Mods
	Amount:	\$56,000.00
	Component Description:	25% downpayment per Proposal 18334VA - per PO
	Amount:	Terms \$57,500.00
	Component Description:	50% due upon mobilization - per proposal 18334VA -
	Amount:	per PO Terms \$115,000.00
Short Tower (less than 500')	Information not provided.	

Outside Professional Services

Cost Information

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 Cos ⁻ Justificatio
Outside Professional Services	\$545,615.00	\$792,458.54		\$390,438.13	
Site Visits and Surveys	\$9,000.00	\$9,000.00	Site visits to establish what equipment is on premises, where new equipment will be located and do equipment inventory for both main and auxiliary sites.	\$5,700.00	N/A
Progress Reporting	\$14,000.00	\$14,000.00	Prepare and file 7 required progress reports on FCC Form 2100, Schedule 387 on a quarterly basis with the FCC.	\$4,134.35	N/A

Channel change	\$85,000.00	\$85,000.00	Engineering services to evaluate coverage and interference moving channel from 14 to 31.	\$53,718.75	N/A
Architect and Engineering services	\$50,500.00	\$50,500.00	Justifying Quote - WETA Arlington Auxiliary Fee Proposal 20180328	\$38,836.44	N/A
Comprehensive coverage verification via field study, if needed	\$84,200.00	\$100,000.00	\$80,000 for Main transmitter site and \$20,000 for auxiliary site.	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$7,000.00	The need for filing two STA's in a project of this magnitude is anticipated.	\$0.00	N/A

Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$180,592.74	per WETA- 550- Attorney - Negotiate Lease and Other Matters Budget Increase Justification v0	\$180,592.74	WETA-550 Attorney - Negotiate Lease and Other Matters Budget Increase Justification v0 has been uploaded to LMS and will be included with invoices #31516 / 31281. Estimated cost will be adjusted.
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,511.75	Actual Costs are Marginally higher than estimated costs	\$2,511.75	Actuals are marginally higher than estimates costs
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,210.00	\$4,000.00	N/A	\$834.70	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$0.00	N/A

Prepare request for Special Temporary Authorization	\$4,100.00	\$3,000.00	Two STA's are anticipated, one for the main site and the other for the auxiliary.	\$328.95	Ν
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	Ν
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	Ν
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,105.00	\$3,000.00	Time required will be similar to that required of the main site to prepare this application.	N/A	Ν
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N

transition timing and coordination issues w/ other stations and wireless			with 4 TV stations and 3 FM stations. Cut over must be carefully		
			planned with other two stations. Contacting Land Mobile operators on cutover to ensure no interference by WETA		
Project management of the transition	\$237,000.00	\$225,000.00	N/A	\$75,511.40	N/A
Prepare and or review reimbursement form	\$2,630.00	\$21,854.05	This is a complex project and requires careful attention to detail in assembling. Substantial time has been placed into the preparation of the form with supporting justification for both main and auxiliary sites.	\$22,694.05	Actuals are marginally higher than estimated costs.
RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$0.00	N/A

engineering study for new channel assignment and antenna development			study has already been given to searching for a new channel and Land Mobile interference and remediation with WETA on ch. 14. Additional studies for multi-station resolution had to be performed.		
Sub-total	\$545,615.00	\$792,458.54	N/A	\$390,438.13	N/A
Total for all systems	\$6,078,264.67	\$5,521,473.21	N/A	\$3,629,830.09	N/A

Actual Information Description	File Name	
Site Visits and Surveys		
	Component Description:	WETA-590-Site Visits and Surveys
	Amount:	\$5,700.00

Progress Reporting		
	Component Description:	Legal services
	Amount:	\$861.00
	Component Description:	WETA-590-
	Amount:	Progress Reporting \$666.40
	Component Description:	Item G - Preparatio
	Amount:	of progress report \$47.60
	Component Description:	Item G - Prepare
	Amount:	progress report \$893.35
	Component Description:	Legal Services Rendered
	Amount:	\$1,380.40
	Component Description:	Item G - Preparatio and submission of
	Amount:	progress reports \$285.60
Channel change		
	Component Description:	Item A - Auction repack analysis related to WETA
	Amount:	Ch. 14 \$10,743.75
	Component Description:	Item B - Coverage
		study and interference maps for various
		scenarios including Ch. 20 SFN option
		1

Component Description: Amount:	Item C - RF sweep at transmitter site and UHF panel testing for new repack channel \$1,687.50
Component Description: Amount:	Invoice moved to the correct category. N/A
Component Description: Amount:	Item A - Auction repack analysis for new Ch 14 assignment \$5,850.00
Component Description:	Item A - Develop new channel options with MPT. Extensive work to obtain a multi-resolution agreement between 3 parties for channel changes for 5 stations so WETA could get ch 31. \$2,193.75

	Component Description:	Item B - TV study for alternative channel assignments. WETA originally assigned channel 14. This was an unworkable channel due to numerous Land Mobile stations in DC. Studies we undertaken to find another channel. WETA ultimately found channel 31.
	Amount:	\$1,012.50
	Component Description: Amount:	Item B - Land Mobile interference and remediation on Ch. 14 \$4,106.25
	Component Description:	Item B - Repack research issues related to Land Mobile interference on Ch. 14
	Amount:	\$20,362.50
	Component Description:	Item A - Channel 14 issues and alternatives. SFN research options.
	Amount:	\$4,893.75
	Component Description: Amount:	Invoice moved to the correct category. N/A
Architect and Engineering services		

Component Description: Amount:	Professional Services \$300.00
Component Description: Amount:	Professional Services \$900.00
Component Description: Amount:	Monthly progress of Architectural and Engineering Design for existing Transmitter Facility alterations. \$9,362.29
Component Description: Amount:	Professional Services through June 28, 2019 \$4,781.15
Component Description: Amount:	Professional Services \$2,499.75
Component Description: Amount:	Monthly progress of Architectural and Engineering Design for existing Transmitter Facility alterations. \$7,203.72
Component Description:	Monthly progress of Architectural and Engineering Design for existing Transmitter Facility alterations. \$7,061.65
Anount.	ψι,001.00

	Component Description: Amount:	Professional Services \$5,827.88
	Component Description:	Monthly progress of Architectural and Engineering Design for existing Transmitter Facility alteration for FCC Repack. \$900.00
		\$000.00
Comprehensive coverage verification via field study, if needed	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Information not provided.	
Attorney Fees - Negotiation of lease and other matters for shared locations	Component Description:	Item A - Attorney fees for various matter relating to channel 14 assignment and channel 31 move
	Amount:	\$6,330.80
	Component Description:	Item A - Attorney fees for discussion regarding viability of Ch. 14 and move to Ch. 31
	Amount:	\$6,822.08
	Component Description: Amount:	Legal services \$2,250.00

Component Description: Amount:	WETA-550-Attorney - Negotiate Lease and Other Matters: \$2,280.90
Component Description: Amount:	Legal services \$5,890.50
Component Description:	Work on WETA repack issues regarding DCJTV invoices for combiner and concerns with reimbursement of same. \$7,587.46
Component Description: Amount:	Work on amendment to agreement with DCJTV \$3,998.40
Component Description: Amount:	Email to S. Amron (WETA Legal) regarding inquiries from other parket stations about WETA repack \$5,481.65
Component Description: Amount:	Legal services \$2,543.20
Component Description:	Work on WETA repack work regarding
Amount:	reimbursement. \$3,909.15

Component Description: Amount:	Legal services \$10,468.03
Component Description: Amount:	Attorney - Negotiate Lease and Other Matters \$1,047.20
Component Description: Amount:	Legal Services Rendered \$380.80
Component Description:	Work on WETA repack issues with DCJTV-owned
Amount:	combiner \$16,929.59
Component Description: Amount:	Legal services \$3,189.20
Component Description:	Item A - Attorney fees for exploration and negotiation of Ch. 31 move
Amount:	\$1,626.47
Component Description:	Item A - Attorney fees related to negotiation of WETA move to Ch. 31
Amount:	\$17,227.32

Component Description: Amount:	Negotiating with 3rd parties (interference) for move to Ch. 31 \$476.00
Component Description: Amount:	Item A - Attorney fees for exploring and negotiating channel alternatives to Ch. 14 \$5,758.86
Component Description: Amount:	Legal Services \$1,100.00
Component Description: Amount:	Work on WETA repack reimbursement issues \$7,327.35
Component Description: Amount:	Attorney Fees- Negotiate Lease and Other Matters \$2,332.40
Component Description:	Work on WETA repack and amendment of
Amount:	agreement \$3,439.10
Component Description:	Work on WETA repack issues regarding combiner
Amount:	replacement \$8,704.85

Component Description: Amount:	Item A - Negotiation with 3rd parties for WETA move to Ch. 31 \$12,350.00
Component Description: Amount:	Legal Services Rendered \$6,147.03
Component Description: Amount:	Item A - Negotiation with 3rd parties in connection with WETA move to Ch. 31 \$4,700.00
Component Description: Amount:	Legal services \$1,050.00
Component Description: Amount:	Item A - Attorney fees for negotiation of move to Channel 31. See attached invoice and items marked as A on page 2 for detail breakout. \$1,190.00
Component Description:	Item A - Negotiate with 3rd parties re: move to Ch. 31 and related
Amount:	\$4,093.60
Component Description: Amount:	Legal Services \$1,650.00

	Component Description:	Attorney - Negotiate Lease and Other
	Amount:	Matters \$1,666.00
	Component Description:	Item A - Negotiation of move to Ch. 31
	Amount:	and related issues \$20,644.80
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description:	Item B - Preparation of construction permit application
	Amount:	and related \$1,618.40
	Component Description:	Item B - Work related to construction permit
	Amount:	application \$476.00
	Component Description:	Item B - Follow-up work related to CP application
	Amount:	\$226.95
	Component Description:	Item B - Monitor construction permit application
	Amount:	\$190.40

Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	Component Description: Amount:	Attorney - Construction Permit Application (Aux) \$333.20
	Component Description: Amount:	Item C - Preparation of CP application for aux site \$285.60
	Component Description: Amount:	Attorney - Construction Permit Application (Aux \$179.35
	Component Description: Amount:	Construction Permit App Aux \$36.55
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	Component Description: Amount:	Item E - Attorney fees related to STA for waiver of repack construction permit app \$328.95
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Information not provided.	

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Project management of the transition	Component Description:	work related to TV repack rebuild of WETA TV transmitter room
	Amount:	\$4,050.00
	Component Description: Amount:	Project Management \$3,254.45
	Component Description:	Project Management
	Amount:	\$6,646.30
	Component Description: Amount:	Project Management \$3,879.85
	Component Description: Amount:	Project Management \$4,005.60
	Component Description:	Project Management
	Amount:	\$3,572.95

Component Description: Amount:	Project Management \$3,715.20
Component Description: Amount:	Project Management \$3,877.65
Component Description: Amount:	Project Management \$4,626.65
Component Description: Amount:	Project Management \$3,729.80
Component Description: Amount:	Project Management \$4,988.10
Component Description: Amount:	Project Management \$4,894.25
Component Description: Amount:	Project Management \$4,347.90
Component Description: Amount:	Project Management \$3,540.40
Component Description: Amount:	Project Management \$1,945.35

	Component Description: Amount:	Project Management \$993.75
	Component Description: Amount:	Project Management \$6,954.05
	Component Description: Amount:	Project Management \$6,489.15
Prepare and or review reimbursement form	Component Description: Amount:	WETA-590-Prepare and/or Review Reimbursement Form \$168.00
	Component Description: Amount:	Emails with S. Amron \$190.40
	Component Description: Amount:	Item F - Attorney fees for preparation of Form 399 \$952.00
	Component Description:	Item F - Educate WETA staff on reimbursement procedures and processes
	Amount:	\$2,760.80

Component Description: Amount:	Item F - Educate WETA staff on reimbursement \$238.00
Component Description: Amount:	Legal Services Rendered \$2,998.80
Component Description: Amount:	Item F - Attorney fees for educating WETA staff on reimbursement procedures
Component Description:	\$95.20 Item F - Attorney fees for preparation of Form 399 \$2.500.00
Amount: Component Description:	\$2,500.00 Item F - Attorney fees related to preparation of Form
Amount:	399 \$1,643.90
Component Description:	Item F - Attorney fees for preparation of Form 399
Amount:	\$5,807.20
Component Description:	Item F - Attorney fees related to preparation of Form 399
Amount:	\$2,943.55

	Component Description:	Prepare and/or Review Reimbursement Form
	Amount:	\$238.00
	Component Description:	Item F - Attorney fees in preparation of Form 399
	Amount:	\$190.40
	Component Description:	Item F - Educate WETA staff on reimbursement process & procedure and related
	Amount:	\$295.80
	Component Description: Amount:	Legal Services \$1,000.00
	Component Description:	WETA-590-Prepare and/or Review Reimbursement Form
	Amount:	\$672.00
RF Exposure Measurements	Information not provided.	

Perform engineering study for new channel assignment and antenna development	Component Description:	Regarding interim antenna for repack
		Ch-31, determine
		TV antenna
		parameters for RF
		exposure
		determination on
		tower structure.
	Amount:	\$575.00
	Component Description:	Review of Land
	••••••••••••••••••••••••••••••	mobile interference
		with WETA on Ch.
		14
	Amount:	\$5,000.00

Other Expenses

Cost Information

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	Actua Justifi
Other Expenses	\$121,426.00	\$117,061.00		\$26,116.00	
Additional Legal Expenses for Repack	\$0.00	\$0.00	N/A	N/A	N
MVPD Notification of Channel Change	\$7,000.00	\$7,000.00	Estimated cost of using outside firm to contact MVPD's regarding channel change to repack channel.	\$1,369.00	Ν
Develop and air announcement of upcoming channel change	\$7,500.00	\$7,500.00	Costs for production and airtime of channel change announcements.	\$550.00	N
Equipment Storage	\$10,000.00	\$10,000.00	See attached Budget Justification: FEES AND MISCELLANEOUS EXPENSES	N/A	N
Equipment Delivery and Handling Charges	\$34,500.00	\$34,500.00	See WETA ULXTE90 6 pole CIF with RF Switch Load.pdf \$13,500 See WETA Interim Site ULXTE-50 9-6-18. pdf 11,000 Est. Ship for antenna and transmission line and other equipment 10,000	N/A	Ν

Disposal Costs (for equipment and other waste, net of any salvage value)	\$45,681.00	\$45,681.00	Some disposal costs are anticipated for old equipment removed from service. Please see attached GatesAir Quote Q- 79737.	\$19,947.00	Ν
Non-zoning permits	\$5,000.00	\$5,000.00	Estimate of building permit costs to modify auxiliary transmitter site and extensive electrical work at main site.	N/A	N
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$380.00	Anticipate needing to file two STA's in a project this complex.	N/A	N
DTV Medical Facility Notification	\$11,550.00	\$7,000.00	N/A	\$4,250.00	N
Sub-total	\$121,426.00	\$117,061.00	N/A	\$26,116.00	N
Total for all systems	\$6,078,264.67	\$5,521,473.21	N/A	\$3,629,830.09	N

Components

Actual Information Description	File Name
Additional Legal Expenses for Repack	Information not provided.

MVPD Notification of Channel Change	Component Description: Amount:	Medical Notification \$1,250.00
	Component Description: Amount:	WETA-610-MVPD Notifications \$119.00
Develop and air announcement of upcoming channel change	Component Description: Amount:	Repack Promo \$370.00
	Component Description: Amount:	Repack Promo \$180.00
Equipment Storage	Information not provided.	
Equipment Delivery and Handling Charges	Information not provided.	
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description:	Lump Sum: Decommissioning, Demolition, Transportation and Disposal of IOT Harris Transmission system and Components \$19,947.00
Non-zoning permits	Information not provided.	
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
DTV Medical Facility Notification	Component Description: Amount:	Medical Notification \$4,250.00

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$6,078,264.67	\$5,521,473.21	\$3,629,830.09

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

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	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.	
		 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. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 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.	Sarah Gurfein- Amron Contract and Regluatory Specialist 03/24/2020

Certification	Section	Question	Response
Certification	Section Submission of Actual Cost Documentation Statements	QuestionWILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (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 	Response
		 correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 4. The above-named entity acknowledges the submission of the 	
		information herein creates no obligation on the part of the government to pay any amount.	

- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster **Relocation Fund are** necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- 6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.
- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

9.	The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
an au name	I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s) specified above.	

Attachments

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