

(REFERENCE COPY - Not for submission)

## FCC Form 399: Reimbursement Request

Facility 65670 Service: DTV Call WETA-TV Channel: 31 (UHF)

ID:

Sign:

File **0000028782** 

Number:

FRN: **0002107274** Date **01/29** 

Submitted: /2020

## Applicant Information

#### **Applicant Name, Type, and Contact 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.	Not-for- Profit

## Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

#### Preparer Contact Information

#### **Preparer Contact Name and 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 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	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

#### **Add Transmitter Information**

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

#### **New Transmitter Costs**

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.

## Auxiliary Transmitter

#### **Other Transmitter Costs**

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

**Transmitter** Information not provided.

#### **Add Transmitter Information**

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	
Manufacturer and Type	Model	DHD15P1
	Year	2003
	Туре	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	3.6 kW

#### **New Transmitter Costs**

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**

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

# Auxiliary Transmitter Information not provided.

**Other Transmitter Cost Not Listed** 

## 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	
Manufacturer and Type	Model	DHD15P1
	Year	2003
	Туре	Solid State
	Solid State Cooling	Air Cooled
	Solid State Power Capacity	3.6 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-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 Transmitter

#### **Other Transmitter Costs**

Section	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

## Primary Transmitter

#### Other Transmitter Cost Not Listed

Name	Description
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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

#### Primary Antenna

#### **Existing Antenna Information**

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 Towe 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	Class	Full Power
Manufacturer and Type	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

#### Primary Antenna

#### **Adjustment to Existing Antenna**

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

#### Primary Antenna

#### **Other Antenna Costs**

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 Antenna

#### **Other Antenna Cost Not Listed**

Information not provided.

#### **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

#### **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 Manufacturer and Types	Class	Full Power
	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)	240.0 kW
Manufacturer	
Model	TFU-WB
Year	2018
Justification for New Antenna	Current antenna is tuned to channel 27 and cannot be retuned to operate on channel 31. Proposed antenna costs less than exact replacement.

#### **Other Antenna Costs**

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

#### **Other Antenna Cost Not Listed**

Name	Description	
Auxiliary Antenna Installation	Includes Engineer Reviewed Rigging Plan	

Transmission <sup>ବୁମ୍ବୀତୁନ</sup>	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

# Auxiliary Add Train Transmission Line

#### **Add Transmission Line**

n 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 Type	Manufacturer	
	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

#### **New Transmission Line**

#### Auxiliary Transmission

ion Line	1	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)	
	Description of Use	Off site Interim	
		Change Type	Purchase

Type

Diameter

Length

Other Diameter

Segment Length

Other Segment Length

Number of parallel runs

Justification for New Transmission Line

Is this a request for upgraded equipment?

New

No

Rigid

4 1/16 inches

N/A

N/A

1

run

20 inches

550 feet per

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.

## Auxiliary Other Transmission Line Expenses Not Listed

Transmission Limetion not provided.

# Primary Add Trans Transmission Line

#### **Add Transmission Line**

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	Manufacturer	
Line Manufacturer and Type	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 Transmission

#### **New Transmission Line**

Section .	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Туре	Rigid
	Diameter	6 1/8 inches
	Other Diameter	N/A
	Segment Length	20 inches
	Other Segment Length	N/A
	Diameter 6  Other Diameter No.  Segment Length 20  Other Segment Length No.  Number of parallel runs 1  Length 17  ru  Justification for New Transmission Line C	1
		170 feet per
	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

Transmission	Hime	Description
	Installation	Estimated removal of current line and installation of new. installation

### Tower Equipment And Rigging Costs

Section	Question	Response
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
Coordinates (	Latitude (NAD83)	38° 53' 30.0" N-
NAD83 ( North	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
12460	WGTS	FM
4644	WAVA-FM	FM

#### Other Types of Users

Users
Cellular
Amateur Radio
Trunking

#### Auxiliary Tower

#### **Tower Modification Costs**

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

## Auxiliary Tower

## **Tower Rigging Costs**

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

## Auxiliary Tower

## Other Tower Expenses Not Listed

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
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  1500  See attached Budget Justification: Outside Professional Services  Yes  Yes  Yes  Yes  Yes  Yes
	Prepare request for Special Temporary Authority	
	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	Prepare and file Form FCC Construction Permit Application	Yes
Services	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

Other Expenses Not Listed

Name	Description
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#### **Additional Legal Expenses for Repack**

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.

## **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 C Justifica
Primary Transmitter ULXTE-90	\$2,302,335.00	\$2,249,957.00		\$78,248.05	
Pre- installation survey	\$19,725.00	\$19,725.00	Pre-installation survey by GatesAir to determine requirements for transmitter installation.	\$19,725.00	N/,
50 Ton system	\$266,000.00	\$253,000.00	N/A	N/A	N/,
4" Rigid Conduit and Wiring (Cost per foot)	\$42,420.00	\$40,320.00	N/A	N/A	N/,
Transformer 3 phase /480v - 500 KVA	\$48,400.00	\$46,000.00	N/A	\$5,648.52	N/,
Switchgear - industrial 800 amp	\$38,200.00	\$36,300.00	N/A	N/A	N/,
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.	N/A	N/,

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
Auxiliary Transmitter ULXTE-20	\$494,500.00	\$0.00	nout oxonanger.	\$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 should been e th predete Cost Es
Auxiliary Transmitter ULXTE-50	\$1,193,358.67	\$1,191,258.67		\$807,402.49	
Other Building Addition Size: 600.0	\$50,000.00	\$50,000.00	See revised narrative. Remodeling needed to accommodate new transmitter and filter while current transmitter remains operational. Previously approved under another category and moved here.	\$3,315.00	N

Electrical contractor to connect transmitter			into existing electrical panel and wire heat exchanger into transmitter.		
into existing 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.					
4" Rigid Conduit and Wiring (Cost per foot)	\$42,420.00	\$40,320.00	N/A	N/A	N/.
UHF -	\$1,086,938.67	\$1,086,938.67	This is an auxiliary	\$804,087.49	N/
Liquid			transmitter to		
Cooled			replace what is		
Solid State			currently in use.		
Transmitter					
31.7 kW					
Sub-total	\$3,990,193.67	\$3,441,215.67	N/A	\$885,650.54	N/
Total for all	\$6,078,264.67	\$5,521,473.21	N/A	\$3,174,681.74	N/

Actual Information	
Description	File Name

Pre-installation survey		
	Component Description:	Site survey to determine site conditions, materials and components
	Amount:	required for system installation \$19,725.00
50 Ton system	Information not provided.	
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	
Fransformer 3 phase/480v -		
500 KVA	Component Description:	WETA-110-1st 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
	Amount:	KVA Transformer \$2,824.26
Switchgear - industrial 800 amp	Information not provided.	
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	Component Description: Amount:	A. Transmitter \$548,861.65
	Component Description:	1/3 Down Payment: ULXTE-
		90 Transmitter

Other -- Building Addition

Size: 1000.0

Component Description: Completed work

billed for May

**Amount:** \$7,575.00

Component Description: Monthly progress

of Architectural and Engineering Design for existing Transmitter Facility

alterations.

**Amount:** \$982.20

Component Description: Monthly progress

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: Professional

Services

**Amount:** \$2,249.25

Component Description: Item A - Drawing

and 3D laser imaging for

planning purposes

**Amount:** \$22,590.00

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
	Amount:	N/A
Other Building Addition Size: 600.0	Component Description: Amount:	Professional Services \$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.	
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.	

UHF - Liquid Cooled Solid State Transmitter 31.7 kW

Component Description: 1/3 Payment

ULXTE-50

Transmitter

**Amount:** \$352,242.88

Component Description: 1/3 down payment

of total transmitter

cost

**Amount:** \$358,689.76

**Component Description:** ULXTE-50

Transmitter

**Amount:** \$358,689.76

Component Description: A. Transmitter

**Amount:** \$93,154.85

# **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	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	

Side mount brackets for high power antennas (if not included in antenna base cost)	\$23,150.00	\$6,750.00	Special side mount brackets required to optimize antenna pattern.	N/A
Elbow complex, single channel, at antenna input, per 4 1/16. feedline (if needed)	\$9,570.00	\$8,116.00	See narrative weta_budget_rev_070918. pdf	\$8,093.77
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$189,500.00	\$44,925.00	See narrative weta_budget_rev_070918. pdf.	N/A
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00
Sub-total	\$414,890.00	\$306,998.50	N/A	\$206,028.02
Total for all systems	\$6,078,264.67	\$5,521,473.21	N/A	\$3,174,681.74

Actual Information	
Description	File Name

New combiner, cost per		
channel (without antenna)	Component Description:	Combiner Costs -
		50% WHUT
		Incremental Cost
	Amount:	\$20,723.25
	Component Description:	Combiner Costs -
		50% WETA/WPXW
	Amount:	\$119,884.25
Sweep test of existing		
antenna	Component Description:	WETA-210-Primary
	The second second	Antenna - Sweep
		Test
	Amount:	\$3,200.00

Auxiliary Antenna Installation		
	Component Description:	Connection
		Redesign
		Sketches,
		Connection
		Redesign Drawings
	Amount:	\$2,600.00
	Component Description:	Auxiliary Antenna -
		Antenna Rigging
	<b>A</b>	and Installation
	Amount:	\$850.00
	Component Description:	Auxiliary Antenna
		Rigging and
		Installation
	Amount:	\$32,500.00
	Component Description:	Troubleshoot
		antenna burnout
		issues -
		Emergency Rate
		Tower Technicians
	Amount:	\$21,300.00
	Component Description	
	Component Description:	WETA-250-
	Component Description:	WETA-250- Auxiliary Antenna -
	Component Description.	
	Component Description.	Auxiliary Antenna -
	Amount:	Auxiliary Antenna - Antenna Rigging
	Amount:	Auxiliary Antenna - Antenna Rigging and Installation \$16,250.00
		Auxiliary Antenna - Antenna Rigging and Installation \$16,250.00
	Amount:	Auxiliary Antenna - Antenna Rigging and Installation \$16,250.00  Auxiliary Antenna Rigging and
	Amount:  Component Description:	Auxiliary Antenna - Antenna Rigging and Installation \$16,250.00  Auxiliary Antenna Rigging and Installation
	Amount:	Auxiliary Antenna - Antenna Rigging and Installation \$16,250.00  Auxiliary Antenna Rigging and
Pattern scatter analysis for	Amount:  Component Description:	Auxiliary Antenna - Antenna Rigging and Installation \$16,250.00  Auxiliary Antenna Rigging and Installation
Pattern scatter analysis for side mount high/med power antennas (if not included in	Amount:  Component Description:  Amount:	Auxiliary Antenna - Antenna Rigging and Installation \$16,250.00  Auxiliary Antenna Rigging and Installation

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

# **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 Co
Primary Transmission Line	\$79,040.00	\$113,029.50		\$0.00	
Rigid Transmission Line - copper, 6 1/8"	\$34,340.00	\$68,329.50	See attached quote 800163CMZ WETA COMPONENTS.	N/A	N/A
Installation	\$44,700.00	\$44,700.00	See attached quote 800163CMZ WETA COMPONENTS for field survey and installation of line.	N/A	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	\$3,174,681.74	N/A

Actual Information Description	File Name
Rigid Transmission Line - copper, 6 1/8"	Information not provided.

Installation	Information not provided.	
Rigid Transmission Line - copper, 4 1/16"		
оброн, т и то	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
	Component Description.	3PT SUSPENSION
	Amount:	\$1,440.00
	Allount	Ψ1,++0.00
	Component Description:	T/L 4-50 EIA
		LENGTH 5' TO 10'
		FIXED FLG 1
	Amount:	\$1,017.00

# **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
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
Short Tower (less than 500')	\$84,200.00	\$80,000.00	N/A	N/A
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
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	\$3,174,681.74

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

Short Tower (less than 500')	Information not provided.	
Tower Rigging and nstallation	Component Description:	Existing Aux Tower Major Tower
		Modification
		Installation
	Amount:	\$165,000.00
	Component Description:	Existing Aux Tower
		Major Tower
		Modification
		Installation
	Amount:	\$82,500.00
	Component Description:	Professional
		services
	Amount:	\$1,200.00
	Component Description:	WETA-450-Existing
		Auxiliary Tower -
		Major Tower
		Modification
		Installation Costs
	Amount:	\$82,500.00

Major tower reinforcement
/modifications

Component Description: Connection

Redesign Sketches and Drawings - by Morris & Ritchie

**Amount:** \$3,450.00

Component Description: WETA Channel

Replacement

**Amount:** \$9,600.00

Component Description: 25% downpayment

per Proposal

18334VA - per PO

Terms

**Amount:** \$57,500.00

**Component Description:** Final 25% Tower

Mods

**Amount:** \$56,000.00

**Component Description:** 50% due upon

mobilization - per proposal 18334VA -

per PO Terms

**Amount:** \$115,000.00

# **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 Cos
Outside Professional Services	\$545,615.00	\$792,458.54		\$382,554.88	
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.

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

RF Exposure Measurements	\$21,050.00	\$20,000.00	N/A	\$0.00	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 - 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	N/A

RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	N/A	N/A
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	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A

\$5,575.00	N/A
N/A	N/A
	N/A

review reimbursement form 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.  Project \$237,000.00 \$225,000.00 N/A \$67,628.15 N/A management of the transition  Sub-total \$545,615.00 \$792,458.54 N/A \$382,554.88 N/A  Total for all \$6,078,264.67 \$5,521,473.21 N/A \$3,174,681.74 N/A						
management of the transition         Sub-total       \$545,615.00       \$792,458.54       N/A       \$382,554.88       N/A         Total for all       \$6,078,264.67       \$5,521,473.21       N/A       \$3,174,681.74       N/A	review reimbursement	\$2,630.00	\$21,854.05	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	\$22,694.05	Actuals are marginally higher than estimated costs.
<b>Total for all</b> \$6,078,264.67 \$5,521,473.21 N/A \$3,174,681.74 N/A	management of	\$237,000.00	\$225,000.00	N/A	\$67,628.15	N/A
	Sub-total	\$545,615.00	\$792,458.54	N/A	\$382,554.88	N/A
systems	Total for all systems	\$6,078,264.67	\$5,521,473.21	N/A	\$3,174,681.74	N/A

Actual Information Description	File Name	
Attorney Fees - Negotiation of lease and other matters for shared locations	Component Description:	Item A - Attorney fees for exploring and negotiating channel alternatives to Ch. 14
	Amount:	\$5,758.86

**Component Description:** Item A - Attorney

> fees for various matter relating to channel 14 assignment and channel 31 move

\$6,330.80 **Amount:** 

**Component Description:** WETA-550-Attorney

> - Negotiate Lease and Other Matters:

Amount: \$2,280.90

**Component Description:** Work on WETA

> repack issues regarding DCJTV invoices for combiner and concerns with reimbursement of

same.

**Amount:** \$7,587.46

**Component Description:** Work on

> amendment to agreement with

**DCJTV** 

**Amount:** \$3,998.40

**Component Description:** Email to S. Amron

> (WETA Legal) regarding inquiries from other parket stations about WETA repack

Amount: \$5,481.65

**Component Description:** Legal services

\$5,890.50 Amount:

**Component Description:** Legal services **Amount:** \$2,543.20

Component Description: Work on WETA

repack work regarding reimbursement.

reimbursement

**Amount:** \$3,909.15

Component Description: Work on WETA

repack and amendment of agreement

**Amount:** \$3,439.10

Component Description: Legal

Amount:

Legal services

\$1,050.00

Component Description: Legal Services

Rendered \$380.80

**Component Description:** 

Amount:

**Amount:** 

Legal services \$2,250.00

Component Description: Attorney - Negotiate

Lease and Other

Matters

**Amount:** \$1,047.20

**Component Description:** Item A - Attorney

fees for discussion regarding viability of Ch. 14 and move to

Ch. 31

**Amount:** \$6,822.08

Component Description: Item A - Attorney

fees for exploration and negotiation of Ch. 31 move

**Amount:** \$1,626.47

Component Description: 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: Work on WETA

Amount:

repack

reimbursement

issues

**Amount:** \$7,327.35

Component Description: Legal Services

**Amount:** \$1,650.00

Component Description: Negotiating with 3rd

parties

(interference) for move to Ch. 31

**Amount:** \$476.00

Component Description: Attorney Fees-

Negotiate Lease and Other Matters

**Amount:** \$2,332.40

Component Description: Legal Services

Rendered

**Amount:** \$6,147.03

Component Description: Attorney - Negotiate

Lease and Other

Matters

**Amount:** \$1,666.00

**Component Description:** 

Amount:

Legal services

\$3,189.20

Component Description: Item A - Negotiation

of move to Ch. 31 and related issues

**Amount:** \$20,644.80

Component Description: Item A - Attorney

fees related to negotiation of WETA move to Ch.

31

**Amount:** \$17,227.32

Component Description: Item A - Negotiate

with 3rd parties re: move to Ch. 31 and

related

**Amount:** \$4,093.60

**Component Description:** 

Amount:

Legal Services

\$1,100.00

Component Description: Work on WETA

repack issues

regarding combiner

replacement

**Amount:** \$8,704.85

Component Description: Item A - Negotiation

with 3rd parties for WETA move to Ch.

31

**Amount:** \$12,350.00

Component Description: Work on WETA

repack issues with DCJTV-owned combiner

**Amount:** \$16,929.59

**Component Description:** Item A - Negotiation

with 3rd parties in connection with WETA move to Ch.

31

**Amount:** \$4,700.00

Component Description: Legal services

**Amount:** \$10,468.03

Site Visits and Surveys

**Component Description:** WETA-590-Site

Visits and Surveys

**Amount:** \$5,700.00

## **Progress Reporting** Legal services **Component Description:** \$861.00 Amount: **Component Description:** WETA-590-**Progress Reporting Amount:** \$666.40 **Component Description:** Item G - Preparation and submission of progress reports \$285.60 Amount: **Component Description:** Legal Services Rendered **Amount:** \$1,380.40 **Component Description:** Item G - Prepare progress report Amount: \$893.35 Item G - Preparation **Component Description:** of progress report **Amount:** \$47.60 Channel change **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. **Amount:** \$2,193.75

Component Description: Item B - Coverage

study and

interference maps

for various

scenarios including Ch. 20 SFN option

**Amount:** \$2,868.75

Component Description: Item B - Repack

research issues related to Land Mobile interference

on Ch. 14

**Amount:** \$20,362.50

Component Description: Invoice moved to

the correct category.

Amount: N/A

Component Description: Item B - Land

Mobile interference and remediation on

Ch. 14

**Amount:** \$4,106.25

Component Description: Item A - Auction

repack analysis related to WETA

Ch. 14

**Amount:** \$10,743.75

Component Description: Item A - Channel 14

issues and

alternatives. SFN research options.

**Amount:** \$4,893.75

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: Item C - RF sweep

at transmitter site and UHF panel testing for new repack channel

**Amount:** \$1,687.50

Component Description: Invoice moved to

the correct category.

Amount: N/A

Component Description: Item A - Auction

repack analysis for

new Ch 14 assignment

**Amount:** \$5,850.00

Architect and Engineering services

Component Description: Monthly progress of

Architectural and Engineering Design

for existing

Transmitter Facility

alterations.

**Amount:** \$9,362.29

Component Description: Professional

Services through June 28, 2019

**Amount:** \$4,781.15

Component Description: Professional

Services

**Amount:** \$2,499.75

Component Description: Monthly progress of

Architectural and Engineering Design

for existing

Transmitter Facility

alterations.

**Amount:** \$7,203.72

Component Description: Monthly progress of

Architectural and Engineering Design

for existing

Transmitter Facility

alterations.

**Amount:** \$7,061.65

Component Description: Professional

Services

**Amount:** \$5,827.88

Component Description: Professional

Services

**Amount:** \$900.00

Component Description: Professional

Services

**Amount:** \$300.00

	Component Description:  Amount:	Monthly progress of Architectural and Engineering Design for existing Transmitter Facility alteration for FCC Repack. \$900.00
RF Exposure Measurements	Information not provided.	
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 -Prepare and File FCC Form 2100 (main), License to Cover Application	Component Description: Amount:	Item B - Follow-up work related to CP application \$226.95
	Component Description:  Amount:	Item B - Monitor construction permit application \$190.40
	Component Description:	Item B - Preparation of construction permit application and related
	Amount:	\$1,618.40
	Component Description:	Item B - Work related to construction permit
	Amount:	application \$476.00

Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction	Component Description:	Attorney - Construction Permit
Permit or License Application	Amount:	Application (Aux) \$333.20
	Component Description:	Construction Permit App Aux
	Amount:	\$36.55
	Component Description:	Item C - Preparation of CP application for aux site
	Amount:	\$285.60
	Component Description:	Attorney - Construction Permit Application (Aux
	Amount:	\$179.35
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Information not provided.	
Prepare request for Special Temporary Authorization	Component Description:	Item E - Attorney fees related to STA for waiver of repack construction permit
	Amount:	арр \$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.	
Perform engineering study for new channel assignment and antenna development	Component Description:  Amount:	Regarding interim antenna for repack Ch-31, determine TV antenna parameters for RF exposure determination on tower structure. \$575.00
	Component Description:  Amount:	Review of Land mobile interference with WETA on Ch. 14 \$5,000.00
Address transition timing and coordination issues w/ other stations and wireless	Information not provided.	
Prepare and or review reimbursement form	Component Description:	WETA-590-Prepare and/or Review Reimbursement Form
	Amount:	\$168.00
	Component Description:	WETA-590-Prepare and/or Review
		Reimbursement Form

**Component Description:** Legal Services **Amount:** \$1,000.00

**Component Description:** Prepare and/or

Review

Reimbursement

Form

**Amount:** \$238.00

**Component Description:** Item F - Attorney

fees related to preparation of Form

399

**Amount:** \$2,943.55

**Component Description:** Item F - Attorney

fees related to preparation of Form

399

**Amount:** \$1,643.90

**Component Description:** Item F - Attorney

fees in preparation

of Form 399

**Amount:** \$190.40

Component Description: Item F - Attorney

fees for educating WETA staff on reimbursement procedures

**Amount:** \$95.20

Component Description: Legal Services

Rendered

**Amount:** \$2,998.80

**Component Description:** Emails with S.

Amron \$190.40

**Amount:** \$190.4

**Component Description:** Item F - Attorney

fees for preparation

of Form 399

**Amount:** \$5,807.20

Component Description: Item F - Attorney

fees for preparation

of Form 399

**Amount:** \$2,500.00

Component Description: Item F - Educate

WETA staff on reimbursement procedures and processes

**Amount:** \$2,760.80

**Component Description:** Item F - Educate

WETA staff on reimbursement process & procedure and

related

**Amount:** \$295.80

Component Description: Item F - Attorney

fees for preparation

of Form 399

**Amount:** \$952.00

Component Description: Item F - Educate

WETA staff on reimbursement

**Amount:** \$238.00

transition

Component Description: work related to TV

repack rebuild of

WETA TV

transmitter room

**Amount:** \$4,050.00

Component Description: Project

Management

**Amount:** \$3,254.45

**Component Description:** 

Amount:

**Project Management** 

\$6,646.30

**Component Description:** 

**Amount:** 

**Project Management** 

\$3,879.85

Component Description: Project

Management

**Amount:** \$3,572.95

**Component Description:** 

**Amount:** 

**Project Management** 

\$3,715.20

**Component Description:** Project

Management

**Amount:** \$4,626.65

Component Description: Project

Management

**Amount:** \$3,729.80

Component Description: Project

Management

**Amount:** \$3,540.40

**Component Description:** 

Project

Amount:

Management \$6,489.15

**Component Description:** 

Project

**Amount:** 

Management \$4,988.10

**Component Description:** 

Project

Amount:

\$993.75

Management

**Component Description:** 

Project

**Amount:** 

Amount:

Management \$4,894.25

**Component Description:** 

**Project Management** 

\$4,347.90

**Component Description:** 

Project

**Amount:** 

Management

\$6,954.05

**Component Description:** 

Project

Management

Amount:

\$1,945.35

## **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	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
DTV Medical Facility Notification	\$11,550.00	\$7,000.00	N/A	\$4,250.00	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
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
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	N

Total for all systems	\$6,078,264.67	\$5,521,473.21	N/A	\$3,174,681.74	N.
Sub-total	\$121,426.00	\$117,061.00	N/A	\$26,116.00	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	N
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	N

#### Components

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

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

## Cost Information

#### **Grand Total**

	Predetermined Cost Estimate	Estimated Cost	Actual Cost
Total for all systems	\$6,078,264.67	\$5,521,473.21	\$3,174,681.74

Reimbursem	eAt Status	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

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.

- 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 abovenamed applicant for the Authorization(s) specified above. Sarah
GurfeinAmron
Contracts &
Regulatory
Specialist

01/29/2020

Section Question Response

# Submission of Actual Cost Documentation Statements

WILLFUL 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 FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).

- 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.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- 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.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Sarah
GurfeinAmron
Contracts &
Regulatory
Specialist

01/29/2020

#### **Attachments**