



(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 **04/12**
Submitted: **/2019**

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.org | Not-for-Profit |

Reimbursement Contact Name and Information

| Applicant | Address | Phone | Email |
|----------------|---------|-------|-------|
| [Confidential] | | | |

Preparer Contact Information

Preparer Contact Name and Information

| Applicant | Address | Phone | Email |
|---|--|-------------------|-----------------|
| Joseph L. Snelson , Jr . <i>Technical Consultant</i> <i>Meintel, Sgrignoli & Wallace</i> | 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 |

**Auxiliary
Transmitter****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 and Type | Manufacturer | |
| | Model | CD100P1 |
| | Year | 1997 |
| | Type | Inductive Output Tube |
| | IOT Power Type | Single |
| | Power Capacity | 17.5 kW |

**Auxiliary
Transmitter****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 |
| | Type | N/A |
| | Size | N/A |
| | Other Size | N/A |
| Transmitter Building Addition/Modification or Leasehold Improvement | Does the Transmitter Building require an addition, modification, other leasehold improvement? | No |
| | Size | N/A |
| Channel 14 Costs | Is an RF Consulting Engineer needed? | N/A |
| | Is a channel 14 Mask Filer needed? | N/A |
| | Is additional field engineering time needed? | N/A |
| | Number of Days | N/A |

**Auxiliary
Transmitter**

Other Transmitter Cost Not Listed

Information not provided.

**Auxiliary
Transmitter****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 and Type | Manufacturer | |
| | Model | DHD15P1 |
| | Year | 2003 |
| | Type | Solid State |
| | Solid State Cooling | Air Cooled |
| | Solid State Power Capacity | 3.6 kW |

**Auxiliary
Transmitter****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-50 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 31.7 kW |
| | Justification for New Transmitter | See letter from GatesAir regarding 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. |

**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 | 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 |
| | Type | N/A |
| | Size | N/A |
| | Other Size | N/A |

| | | |
|--|---|-------------------|
| Transmitter Building Addition/Modification or Leasehold Improvement | Does the Transmitter Building require an addition, modification, other leasehold improvement? | 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 **Other Transmitter Cost Not Listed**
Information not provided.

**Primary
Transmitter**

Existing Transmitter Information

| Section | Question | Response |
|---|--|-------------------|
| Existing Transmitter Description | Type of change | Purchase New |
| | Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is this transmitter currently shared with another station? | No |
| | Is this transmitter currently in operating condition? | Yes |
| Existing Transmitter Manufacturer and Type | Manufacturer | |
| | Model | DHD15P1 |
| | Year | 2003 |
| | Type | 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 regarding 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 |
| | Type | 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 leasehold 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 |
|------|-------------|
|------|-------------|

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 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 | Top |
| | Polarization | Horizontal |
| | Type | 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 |
| | Type | 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.

**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 Manufacturer and Type | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Horizontal |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels | N/A |
| | Design power capacity in use | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 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 Budget 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 |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels/Bays | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Design power capacity in use | N/A |
| | Other Antenna Type | N/A |

| | |
|--|---|
| ERP: (Effective Radiated Power) | 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. |

Auxiliary Antenna

Other Antenna Costs

| Section | Question | Response |
|------------------------------------|---|-------------------------|
| Combiner for Shared Antenna | Do you need a Combiner for a Shared Antenna? | No |
| | Type | |
| | Number of channels supported | N/A |
| | Frequencies of channels supported | N/A |
| | Frequency | N/A |
| | Do you need a combiner output splitter /switcher for dual feed lines? | N/A |
| Elbow Complex | Do you require the separate purchase of the Elbow Complex? | Yes |
| | Broadband or Single Channel? | Single Channel |
| | Feed Line Size | 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 Line

| Section | Question | Response |
|---------------------------------------|---|----------|
| Transmission Line Related Expenses | Do you have transmission line related expenses? | Yes |

Auxiliary Transmission Line

Add Transmission 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 | |
| | Type | 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
Transmission Line

New Transmission 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 |
| | Type | 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. |

| Auxiliary | Other Transmission Line Expenses Not Listed |
|-------------------|---|
| Transmission Line | Information not provided. |

Primary
Transmission Line

Add Transmission Line

| Section | Question | Response |
|---|--|---------------------|
| Existing Transmission Line Description | Type of change | Purchase New |
| | Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is this transmission currently shared with any other stations? | No |
| | Is Transmission Line in operating condition? | Yes |
| Existing Transmission Line Manufacturer and Type | Manufacturer | |
| | Type | 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 Line

New Transmission Line

| Section | Question | Response |
|------------------------------------|---|--|
| New Transmission Line Costs | Use | Primary (Main) |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | Yes |
| | Type | Rigid |
| | Diameter | 6 1/8 inches |
| | Other Diameter | N/A |
| | Segment Length | 20 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 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
Transmission Line

Other Transmission Line Expenses Not Listed

| Name | 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 Tower Description | Type of change | Modify Existing |
| | 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 Tower Structure Registration | Do you have a tower registration number? | Yes |
| | ASR Number | 1018169 |
| Coordinates (NAD83 (North American Datum of 1983)) | Latitude (NAD83) | 38° 53' 30.0" N- |
| | Longitude (NAD83) | 077° 07' 54.0" W- |
| | Overall Structure Height | 495.40 feet |
| | 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 |
|-------------|-----------|---------|
| 4644 | WAVA-FM | FM |
| 65669 | WETA | FM |
| 12460 | WGTS | 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 |
| | 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 Professional Services Costs

Other Professional Services Expenses Not Listed

| Name | 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 |
|---|---|
| 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 Cost Justification |
|--|-----------------------------|-----------------------|--|--------------------|---------------------------|
| Primary Transmitter ULXTE-90 | \$2,329,335.00 | \$2,276,957.00 | | \$44,564.25 | |
| Pre-installation survey | <i>\$19,725.00</i> | \$19,725.00 | Pre-installation survey by GatesAir to determine requirements for transmitter installation. | \$19,725.00 | N/A |
| Other -- Building Addition Size: 1000.0 | <i>\$126,590.00</i> | \$126,590.00 | Includes drawing and 3-D laser imaging for initial planning purposes (\$26,590). Includes estimate for structure to be constructed on roof to support transmitter heat exchangers (\$100,000). | \$24,839.25 | N/A |
| 50 Ton system | \$266,000.00 | \$253,000.00 | N/A | N/A | N/A |
| 4" Rigid Conduit and Wiring (Cost per foot) | \$42,420.00 | \$40,320.00 | N/A | N/A | N/A |

| | | | | | |
|--|-----------------------|-----------------------|--|---------------------|---|
| Transformer 3 phase /480v - 500 KVA | \$48,400.00 | \$46,000.00 | N/A | N/A | N/A |
| Switchgear - industrial 800 amp | \$38,200.00 | \$36,300.00 | N/A | N/A | N/A |
| 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/A |
| 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 | Estimated cost was incorrectly stated as 0. It should have been equal to the predetermined Cost Estimate \$481,500 |
| Auxiliary Transmitter ULXTE-50 | \$1,193,358.67 | \$1,191,258.67 | | \$362,004.76 | |
| UHF - Liquid Cooled Solid State Transmitter 31.7 kW | \$1,086,938.67 | \$1,086,938.67 | This is an auxiliary transmitter to replace what is currently in use. | \$358,689.76 | N/A |
| 4" Rigid Conduit and Wiring (Cost per foot) | \$42,420.00 | \$40,320.00 | N/A | N/A | N/A |

| | | | | | |
|--|--------------------|----------------|--|----------------|-----|
| 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. | \$14,000.00 | \$14,000.00 | Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor. | N/A | N/A |
| 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/A |
| Sub-total | \$4,017,193.67 | \$3,468,215.67 | N/A | \$406,569.01 | N/A |
| Total for all systems | \$6,206,314.67 | \$5,463,110.47 | N/A | \$1,146,306.32 | N/A |

Components

| Actual Information Description | File Name |
|---|--|
| Pre-installation survey | <div> Component Description: <div>Site survey to determine site conditions, materials and components required for system installation</div> </div> <div> Amount: <div>\$19,725.00</div> </div> |
| Other -- Building Addition Size: 1000.0 | <div> Component Description: <div>Professional Services</div> </div> <div> Amount: <div>\$2,249.25</div> </div> <div> Component Description: <div>Item A - Drawing and 3D laser imaging for planning purposes</div> </div> <div> Amount: <div>\$22,590.00</div> </div> |
| 50 Ton system | Information not provided. |
| 4" Rigid Conduit and Wiring (Cost per foot) | Information not provided. |
| Transformer 3 phase/480v - 500 KVA | Information not provided. |
| Switchgear - industrial 800 amp | Information not provided. |
| UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW | Information not provided. |

| | |
|--|---|
| UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW | <p>Component Description:</p> <p>The original invoice was incorrectly associated with this category. This category is no longer required and may be removed. 10/18/18 JS</p> <p>Amount:</p> <p>N/A</p> |
| UHF - Liquid Cooled Solid State Transmitter 31.7 kW | <p>Component Description:</p> <p>ULXTE-50 Transmitter</p> <p>Amount:</p> <p>\$358,689.76</p> <p>Component Description:</p> <p>1/3 down payment of total transmitter cost</p> <p>Amount:</p> <p>\$358,689.76</p> |
| 4" Rigid Conduit and Wiring (Cost per foot) | Information not provided. |
| 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. |
| Other -- Building Addition Size: 600.0 | <p>Component Description:</p> <p>Professional Services</p> <p>Amount:</p> <p>\$3,315.00</p> |

Cost Information

Antennas

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Justification |
|---|-----------------------------|---------------------|---|--------------------|----------------------|
| Primary Antenna TUP-04-12-2 | \$90,930.00 | \$129,039.50 | | \$0.00 | |
| New combiner, cost per channel (without antenna) | \$84,200.00 | \$122,639.50 | WETA Share of a 3 channel combiner. See attached revised narrative: COMBINER as to the overage from catalog cost per station and cost breakout. | N/A | |
| UHF - High Power Top Mount Three Station broadband panel antenna horizontally polarized | <i>\$0.00</i> | \$0.00 | N/A | N/A | |
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | N/A | N/A | |
| Auxiliary Antenna TFU-WB | \$299,210.00 | \$135,241.00 | | \$48,750.00 | |
| Auxiliary Antenna Installation | <i>\$65,000.00</i> | \$65,000.00 | Please see attached VTS Quote 18334-VA | \$48,750.00 | |

| | | | | |
|--|---------------------|---------------------|---|--------------------|
| 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 | N/A |
| 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 | N/A |
| Sub-total | \$390,140.00 | \$264,280.50 | N/A | \$48,750.00 |

| | | | | |
|------------------------------|----------------|----------------|-----|----------------|
| Total for all systems | \$6,206,314.67 | \$5,463,110.47 | N/A | \$1,146,306.32 |
|------------------------------|----------------|----------------|-----|----------------|

Components

| Actual Information Description | File Name |
|---|---|
| New combiner, cost per channel (without antenna) | Information not provided. |
| UHF - High Power Top Mount Three Station broadband panel antenna horizontally polarized | Information not provided. |
| Sweep test of existing antenna | Information not provided. |
| Auxiliary Antenna Installation | <div> <div> Component Description: Amount: </div> <div> Connection Redesign Sketches, Connection Redesign Drawings \$2,600.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Auxiliary Antenna - Antenna Rigging and Installation \$850.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Auxiliary Antenna Rigging and Installation \$32,500.00 </div> </div> <div> <div> Component Description: Amount: </div> <div> Auxiliary Antenna Rigging and Installation \$16,250.00 </div> </div> |

| | |
|--|---------------------------|
| Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost) | Information not provided. |
| 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) | Information not provided. |
| UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized | Information not provided. |
| Sweep test of existing antenna | 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 Cost Justification |
|---|-----------------------------|----------------|---|----------------|---------------------------|
| 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 | <i>\$44,700.00</i> | \$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 | \$83,058.00 | | \$0.00 | |
| Rigid Transmission Line - copper, 4 1/16" | \$78,100.00 | \$83,058.00 | See narrative 070918.pdf. | \$0.00 | N/A |
| Sub-total | \$157,140.00 | \$196,087.50 | N/A | \$0.00 | N/A |
| Total for all systems | \$6,206,314.67 | \$5,463,110.47 | N/A | \$1,146,306.32 | N/A |

Components

Information not provided.

Cost Information

Tower Equipment and Rigging Costs

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|--|-----------------------------|---------------------|---|---------------------|---------------------------|
| Auxiliary Tower LTOWER | \$1,005,800.00 | \$661,600.00 | | \$434,250.00 | |
| Minor tower reinforcement /modifications | \$158,000.00 | \$9,600.00 | ***System Notice: Estimate adjusted and locked because line has been superseded. *** | \$9,600.00 | N/A |
| Major tower reinforcement /modifications | \$421,000.00 | \$230,000.00 | Please see attached VTS Quote 18334-VA. Includes the task collect data for and provide all tower reinforcing materials per the MRA drawings dated 12/10 /2018 | \$175,950.00 | N/A |
| Short Tower (less than 500') | \$84,200.00 | \$80,000.00 | N/A | N/A | N/A |

| | | | | | |
|---|---------------------|----------------|--|----------------|-----|
| Structural engineering tower load study for well documented tower | \$12,600.00 | \$12,000.00 | N/A | N/A | N/A |
| Tower Rigging and Installation | \$330,000.00 | \$330,000.00 | Please see attached Vertical Technology Systems quote 18334-VA | \$248,700.00 | N/A |
| Sub-total | \$1,005,800.00 | \$661,600.00 | N/A | \$434,250.00 | N/A |
| Total for all systems | \$6,206,314.67 | \$5,463,110.47 | N/A | \$1,146,306.32 | N/A |

Components

| Actual Information | | |
|--|-------------------------------|---|
| Description | File Name | |
| Minor tower reinforcement /modifications | Component Description: | WETA Channel Repack Antenna Replacement |
| | Amount: | \$9,600.00 |
| | Component Description: | Please deny this invoice |
| | Amount: | N/A |

| | | | |
|---|-------------------------------|--|---|
| Major tower reinforcement /modifications | Component Description: | | Connection Redesign Sketches and Drawings - by Morris & Ritchie |
| | Amount: | | \$3,450.00 |
| | Component Description: | | 50% due upon mobilization - per proposal 18334VA - per PO Terms |
| | Amount: | | \$115,000.00 |
| | Component Description: | | 25% downpayment per Proposal 18334VA - per PO Terms |
| | Amount: | | \$57,500.00 |
| Short Tower (less than 500') | Information not provided. | | |
| Structural engineering tower load study for well documented tower | Information not provided. | | |
| Tower Rigging and Installation | Component Description: | | Professional services |
| | Amount: | | \$1,200.00 |
| | Component Description: | | Existing Aux Tower Major Tower Modification Installation |
| | Amount: | | \$82,500.00 |
| | Component Description: | | Existing Aux Tower Major Tower Modification Installation |
| | Amount: | | \$165,000.00 |

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 Cost Justification |
|--|--------------------------------|-------------------|--|--------------|---|
| Outside Professional Services | \$514,615.00 | \$755,865.80 | | \$236,790.31 | |
| 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. | \$22,526.05 | Actuals are marginally higher than estimated costs. |

| | | | | | |
|--|--------------------|--------------|---|--------------|-----|
| Attorney Fees - Negotiation of lease and other matters for shared locations | \$4,210.00 | \$175,000.00 | Fees related to multi-party resolution agreement between 3 parties to accommodate WETA moving from ch 14 to 31, 100,000. Lease mod negotiations for main ant /combiner and bldg. permit app., 50,000. Aux site apps and hearings for bldg expansion 25,000. | \$116,414.76 | N/A |
| 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. | N/A | 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. | \$2,606.95 | N/A |

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|--|--------------------|--------------|--|-------------|--|
| 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 | \$19,500.00 | \$19,500.00 | Planning and layout of new equipment to be installed at main and aux transmitter sites. | \$9,161.65 | 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 |

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|--|------------|------------|---|----------|-----|
| 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 |

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|--|--------------|--------------|--|--------------|-----|
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | \$3,155.00 | \$3,000.00 | N/A | N/A | N/A |
| Perform engineering study for new channel assignment and antenna development | \$7,360.00 | \$45,000.00 | Extensive 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. | \$5,000.00 | N/A |
| Address transition timing and coordination issues w/ other stations and wireless | \$2,630.00 | \$11,000.00 | Coordination 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 | N/A | N/A |
| Project management of the transition | \$237,000.00 | \$225,000.00 | N/A | \$23,686.75 | N/A |
| Sub-total | \$514,615.00 | \$755,865.80 | N/A | \$236,790.31 | N/A |

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| Component Description: | Item F - Attorney fees for preparation of Form 399 |
| Amount: | \$952.00 |

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| Component Description: | Legal Services Rendered |
| Amount: | \$2,998.80 |

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| Component Description: | Item F - Educate WETA staff on reimbursement procedures and processes |
| Amount: | \$2,760.80 |

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| Component Description: | Item F - Educate WETA staff on reimbursement process & procedure and related |
| Amount: | \$295.80 |

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| Component Description: | Item F - Attorney fees for preparation of Form 399 |
| Amount: | \$2,500.00 |

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| Component Description: | Item F - Attorney fees related to preparation of Form 399 |
| Amount: | \$1,643.90 |

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| Component Description: | Prepare and/or Review Reimbursement Form |
| Amount: | \$238.00 |

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| | Component Description: | WETA-590-Prepare and/or Review Reimbursement Form |
| | Amount: | \$672.00 |
| | Component Description: | Emails with S. Amron |
| | Amount: | \$190.40 |
| Attorney Fees - Negotiation of lease and other matters for shared locations | Component Description: | Attorney Fees- Negotiate Lease and Other Matters |
| | Amount: | \$2,332.40 |
| | Component Description: | Item A - Negotiation with 3rd parties in connection with WETA move to Ch. 31 |
| | Amount: | \$4,700.00 |
| | Component Description: | Item A - Negotiation with 3rd parties for WETA move to Ch. 31 |
| | Amount: | \$12,350.00 |
| | Component Description: | Item A - Attorney fees for various matter relating to channel 14 assignment and channel 31 move |
| | Amount: | \$6,330.80 |

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| Component Description: | Legal services |
| Amount: | \$1,050.00 |

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| Component Description: | Legal services |
| Amount: | \$2,250.00 |

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| Component Description: | Work on WETA repack reimbursement issues |
| Amount: | \$7,327.35 |

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| Component Description: | Work on WETA repack issues regarding combiner replacement |
| Amount: | \$8,704.85 |

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| Component Description: | Negotiating with 3rd parties (interference) for move to Ch. 31 |
| Amount: | \$476.00 |

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| Component Description: | Item A - Negotiate with 3rd parties re: move to Ch. 31 and related |
| Amount: | \$4,093.60 |

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| Component Description: | Legal Services Rendered |
| Amount: | \$6,147.03 |

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| Component Description: | Attorney - Negotiate Lease and Other Matters |
| Amount: | \$1,666.00 |

Component Description: Item A - Attorney fees related to negotiation of WETA move to Ch. 31

Amount: \$17,227.32

Component Description: Legal services
Amount: \$3,189.20

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.

Amount: \$1,190.00

Component Description: Item A - Negotiation of move to Ch. 31 and related issues

Amount: \$20,644.80

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|-------------------------|-------------------------------|---|
| | Component Description: | Legal Services |
| | Amount: | \$1,100.00 |
| | Component Description: | Item A - Attorney fees for exploring and negotiating channel alternatives to Ch. 14 |
| | Amount: | \$5,758.86 |
| | Component Description: | Attorney - Negotiate Lease and Other Matters |
| | Amount: | \$1,047.20 |
| | Component Description: | Legal Services |
| | Amount: | Rendered \$380.80 |
| Site Visits and Surveys | Information not provided. | |

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|-------------------------------|--|-------------------------------|--|----------------|------------|-------------------------------|--|----------------|------------|-------------------------------|-------------------------|----------------|------------|-------------------------------|---|----------------|----------|
| Progress Reporting | <table> <tr> <td data-bbox="687 87 1013 302">Component Description:</td><td data-bbox="1013 87 1426 302">Item G - Preparation of progress report</td></tr> <tr> <td data-bbox="687 302 1013 369">Amount:</td><td data-bbox="1013 302 1426 369">\$47.60</td></tr> <tr> <td data-bbox="687 369 1013 584">Component Description:</td><td data-bbox="1013 369 1426 584">Item G - Prepare progress report</td></tr> <tr> <td data-bbox="687 584 1013 651">Amount:</td><td data-bbox="1013 584 1426 651">\$893.35</td></tr> <tr> <td data-bbox="687 651 1013 866">Component Description:</td><td data-bbox="1013 651 1426 866">Legal Services Rendered</td></tr> <tr> <td data-bbox="687 866 1013 934">Amount:</td><td data-bbox="1013 866 1426 934">\$1,380.40</td></tr> <tr> <td data-bbox="687 934 1013 1122">Component Description:</td><td data-bbox="1013 934 1426 1122">Item G - Preparation and submission of progress reports</td></tr> <tr> <td data-bbox="687 1122 1013 1189">Amount:</td><td data-bbox="1013 1122 1426 1189">\$285.60</td></tr> </table> | Component Description: | Item G - Preparation of progress report | Amount: | \$47.60 | Component Description: | Item G - Prepare progress report | Amount: | \$893.35 | Component Description: | Legal Services Rendered | Amount: | \$1,380.40 | Component Description: | Item G - Preparation and submission of progress reports | Amount: | \$285.60 |
| Component Description: | Item G - Preparation of progress report | | | | | | | | | | | | | | | | |
| Amount: | \$47.60 | | | | | | | | | | | | | | | | |
| Component Description: | Item G - Prepare progress report | | | | | | | | | | | | | | | | |
| Amount: | \$893.35 | | | | | | | | | | | | | | | | |
| Component Description: | Legal Services Rendered | | | | | | | | | | | | | | | | |
| Amount: | \$1,380.40 | | | | | | | | | | | | | | | | |
| Component Description: | Item G - Preparation and submission of progress reports | | | | | | | | | | | | | | | | |
| Amount: | \$285.60 | | | | | | | | | | | | | | | | |
| Channel change | <table> <tr> <td data-bbox="687 1122 1013 1682">Component Description:</td><td data-bbox="1013 1122 1426 1682">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.</td></tr> <tr> <td data-bbox="687 1682 1013 1749">Amount:</td><td data-bbox="1013 1682 1426 1749">\$2,193.75</td></tr> <tr> <td data-bbox="687 1749 1013 2018">Component Description:</td><td data-bbox="1013 1749 1426 2018">Item A - Channel 14 issues and alternatives. SFN research options.</td></tr> <tr> <td data-bbox="687 2018 1013 2134">Amount:</td><td data-bbox="1013 2018 1426 2134">\$4,893.75</td></tr> </table> | 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 A - Channel 14 issues and alternatives. SFN research options. | Amount: | \$4,893.75 | | | | | | | | |
| 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 A - Channel 14 issues and alternatives. SFN research options. | | | | | | | | | | | | | | | | |
| Amount: | \$4,893.75 | | | | | | | | | | | | | | | | |

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| Component Description: | Item A - Auction repack analysis for new Ch 14 assignment |
| Amount: | \$5,850.00 |

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| 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 |

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|-------------------------------|--|
| Component Description: | Item C - RF sweep at transmitter site and UHF panel testing for new repack channel |
| Amount: | \$1,687.50 |

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|-------------------------------|--|
| Component Description: | Item A - Auction repack analysis related to WETA Ch. 14 |
| Amount: | \$10,743.75 |

| | |
|-------------------------------|--|
| Component Description: | Item B - Land Mobile interference and remediation on Ch. 14 |
| Amount: | \$4,106.25 |

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

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|--|-------------------------------|--|---|
| Architect and Engineering services | Component Description: | | Monthly progress of Architectural and Engineering Design for existing Transmitter Facility alterations. |
| | Amount: | | \$7,061.65 |
| | Component Description: | | Professional Services |
| | Amount: | | \$900.00 |
| | Component Description: | | Monthly progress of Architectural and Engineering Design for existing Transmitter Facility alterations. |
| | Amount: | | \$9,362.29 |
| | Component Description: | | Monthly progress of Architectural and Engineering Design for existing Transmitter Facility alteration for FCC Repack. |
| | Amount: | | \$900.00 |
| | Component Description: | | Professional Services |
| | Amount: | | \$300.00 |
| | | | |
| | | | |
| RF Exposure Measurements | Information not provided. | | |
| Comprehensive coverage verification via field study, if needed | Information not provided. | | |

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|--|---|---|
| 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 - Work related to construction permit application \$476.00 |
| | Component Description: Amount: | Item B - Preparation of construction permit application and related \$1,618.40 |
| | 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 |

| | | | | | | | | | |
|---|---|--|---|--|---|--|--|--|---|
| <p>Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application</p> | <table> <tr> <td data-bbox="697 100 1114 376"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 100 1428 376"> <p>Attorney - Construction Permit Application (Aux)</p> <p>\$333.20</p> </td></tr> <tr> <td data-bbox="697 376 1114 645"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 376 1428 645"> <p>Construction Permit App Aux</p> <p>\$36.55</p> </td></tr> <tr> <td data-bbox="697 645 1114 920"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 645 1428 920"> <p>Item C - Preparation of CP application for aux site</p> <p>\$285.60</p> </td></tr> <tr> <td data-bbox="697 920 1114 1160"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 920 1428 1160"> <p>Attorney - Construction Permit Application (Aux)</p> <p>\$179.35</p> </td></tr> </table> | <p>Component Description:</p> <p>Amount:</p> | <p>Attorney - Construction Permit Application (Aux)</p> <p>\$333.20</p> | <p>Component Description:</p> <p>Amount:</p> | <p>Construction Permit App Aux</p> <p>\$36.55</p> | <p>Component Description:</p> <p>Amount:</p> | <p>Item C - Preparation of CP application for aux site</p> <p>\$285.60</p> | <p>Component Description:</p> <p>Amount:</p> | <p>Attorney - Construction Permit Application (Aux)</p> <p>\$179.35</p> |
| <p>Component Description:</p> <p>Amount:</p> | <p>Attorney - Construction Permit Application (Aux)</p> <p>\$333.20</p> | | | | | | | | |
| <p>Component Description:</p> <p>Amount:</p> | <p>Construction Permit App Aux</p> <p>\$36.55</p> | | | | | | | | |
| <p>Component Description:</p> <p>Amount:</p> | <p>Item C - Preparation of CP application for aux site</p> <p>\$285.60</p> | | | | | | | | |
| <p>Component Description:</p> <p>Amount:</p> | <p>Attorney - Construction Permit Application (Aux)</p> <p>\$179.35</p> | | | | | | | | |
| <p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p> | <p>Information not provided.</p> | | | | | | | | |
| <p>Prepare request for Special Temporary Authorization</p> | <table> <tr> <td data-bbox="697 1355 1114 1666"> <p>Component Description:</p> <p>Amount:</p> </td><td data-bbox="1114 1355 1428 1666"> <p>Item E - Attorney fees related to STA for waiver of repack construction permit app</p> <p>\$328.95</p> </td></tr> </table> | <p>Component Description:</p> <p>Amount:</p> | <p>Item E - Attorney fees related to STA for waiver of repack construction permit app</p> <p>\$328.95</p> | | | | | | |
| <p>Component Description:</p> <p>Amount:</p> | <p>Item E - Attorney fees related to STA for waiver of repack construction permit app</p> <p>\$328.95</p> | | | | | | | | |
| <p>RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application</p> | <p>Information not provided.</p> | | | | | | | | |

| | |
|---|--|
| 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 | <div> <div> Component Description: </div> <div> Review of Land mobile interference with WETA on Ch. 14 </div> </div> <div> <div> Amount: </div> <div> \$5,000.00 </div> </div> |
| Address transition timing and coordination issues w/ other stations and wireless | Information not provided. |

Project management of the transition

Component Description: Project Management
Amount: \$6,954.05

Component Description: Project Management
Amount: \$3,254.45

Component Description: work related to TV repack rebuild of WETA TV transmitter room
Amount: \$4,050.00

Component Description: Project Management
Amount: \$6,489.15

Component Description: Project Management
Amount: \$1,945.35

Component Description: Project Management
Amount: \$993.75

Cost Information

Other Expenses

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Justification |
|--|-----------------------------|---------------------|---|--------------------|----------------------|
| Other Expenses | \$121,426.00 | \$117,061.00 | | \$19,947.00 | |
| Additional Legal Expenses for Repack | <i>\$0.00</i> | \$0.00 | N/A | N/A | N/A |
| MVPD Notification of Channel Change | <i>\$7,000.00</i> | \$7,000.00 | Estimated cost of using outside firm to contact MVPD's regarding channel change to repack channel. | N/A | N/A |
| Develop and air announcement of upcoming channel change | <i>\$7,500.00</i> | \$7,500.00 | Costs for production and airtime of channel change announcements. | N/A | N/A |
| Equipment Storage | <i>\$10,000.00</i> | \$10,000.00 | See attached Budget Justification: FEES AND MISCELLANEOUS EXPENSES | N/A | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | <i>\$45,681.00</i> | \$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/A |
| DTV Medical Facility Notification | \$11,550.00 | \$7,000.00 | N/A | N/A | N/A |

| | | | | | |
|---|--------------------|----------------|---|----------------|----|
| 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/ |
| 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/ |
| Sub-total | \$121,426.00 | \$117,061.00 | N/A | \$19,947.00 | N/ |
| Total for all systems | \$6,206,314.67 | \$5,463,110.47 | N/A | \$1,146,306.32 | N/ |

Components

| Actual Information | |
|---|---------------------------|
| Description | File Name |
| Additional Legal Expenses for Repack | Information not provided. |
| MVPD Notification of Channel Change | Information not provided. |
| Develop and air announcement of upcoming channel change | Information not provided. |
| Equipment Storage | Information not provided. |

| | |
|--|--|
| Disposal Costs (for equipment and other waste, net of any salvage value) | <p>Component Description:</p> <p>Lump Sum: Decommissioning, Demolition, Transportation and Disposal of IOT Harris Transmission system and Components</p> <p>Amount:</p> <p>\$19,947.00</p> |
| DTV Medical Facility Notification | Information not provided. |
| FCC Filing Fees - Special Temporary Authorization request | Information not provided. |
| Non-zoning permits | Information not provided. |
| Equipment Delivery and Handling Charges | Information not provided. |

**Cost
Information**

Grand Total

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|-----------------------|--------------------------------|----------------|----------------|
| Total for all systems | \$6,206,314.67 | \$5,463,110.47 | \$1,146,306.32 |

Reimbursement Status

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

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

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

| | |
|---|---|
| <p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p> | |
| <p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p> | <p>Sarah Gurfein-Amron <i>Contracts & Regulatory Specialist</i></p> <p>04/12/2019</p> |

| Certification | Section | Question | Response |
|---------------|--|--|----------|
| | Submission of Actual Cost Documentation Statements | <p>WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).</p> | |
| | | <ol style="list-style-type: none"> 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. | |

4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD) .
6. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

| | |
|--|---|
| <p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p> | |
| <p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p> | <p>Sarah Gurfein-Amron <i>Contracts & Regulatory Specialist</i></p> <p>04/12/2019</p> |

Attachments