

(REFERENCE COPY - Not for submission)

## FCC Form 399: Reimbursement Request

Facility 40618 Service: DTV Call WCPB Channel: 16 (UHF)

Sign:

0000027915

Number:

ID:

File

FRN: **0003857380** Date **04/03** 

Submitted: /2018

## Applicant Information

#### **Applicant Name, Type, and Contact Information**

| Applicant  | Address   | Phone                       | Email              | Applicant<br>Type    |
|--|---|-----------------------------|--------------------|----------------------|
| MARYLAND PUBLIC BROADCASTING COMMISSION Doing Business As: MARYLAND PUBLIC BROADCASTING COMMISSION | Larry D. Unger, President & CEO 11767 OWINGS MILLS BOULEVARD OWINGS MILLS, MD 21117 United States | +1<br>(410)<br>356-<br>5600 | lunger@mpt.<br>org | Government<br>Entity |

## 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 ,<br>Jr .<br>Technical Consultant<br>Meintel, Sgrignoli &<br>Wallace | 1282 Smallwood Drive,<br>Suite 372<br>Waldorf, MD 20603<br>United States | +1 (303) 344-<br>8037 | joe.<br>snelson@mswdtv.<br>com |

#### Broadcaster Information and Transition Plan

| Question   | Response  |
|--|---|
| Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information. | No  |
| Briefly describe transition plan   | Current transmission system consists of a transmitter feeding a transmission line which connects to an antenna on the tower. Work includes installing new transmission line, attaching to antenna and connecting to new repack channel transmitter. |

#### **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<br>New                                   |
|                                  | Use  | Auxiliary<br>(Backup)                             |
|                                  | Description of Use   | Auxiliary use in case of main transmitter failure |
|                                  | 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  | TDU2-<br>10K0LV                                   |
|                                  | Year   | 2003  |
|                                  | Туре   | Solid State                                       |
|                                  | Solid State Cooling  | Liquid<br>Cooled                                  |
|                                  | Solid State Power Capacity                                 | 5 kW  |

## Auxiliary Transmitter

#### **New Transmitter Costs**

| Section         | Question                                  | Response   |
|-----------------|---|--|
| New Transmitter | Use                                       | Auxiliary<br>(Backup)  |
|                 | Change Type                               | Purchase New   |
|                 | Is this a request for upgraded equipment? | Yes  |
|                 | Manufacturer                              |  |
|                 | Model                                     | PRLX-U8  |
|                 | Transmitter Type                          | Solid State  |
|                 | Solid State Cooling                       | Liquid Cooled  |
|                 | Solid State Power capacity                | 13 kW  |
|                 | Justification for New Transmitter         | Current transmitter is not supported for a channel change. See attached Transmitter Replace Justification letter from manufacturer. Power upgrade is part of an agreement provided to the FCC to move WCPB to Ch. 16 to accommodate moving WETA to channel 31. |

### 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   | Yes  |
|   | Description  | Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor. |
| HVAC Service  | Does the replacement transmitter require HVAC Service?                                       | No   |
|   | Туре   | N/A  |
|   | Size   | N/A  |
|   | Other Size   | N/A  |
| Transmitter Building<br>Addition/Modification or<br>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  |

## Auxiliary Transmitter

#### **Other Transmitter Cost Not Listed**

| Name                     | Description  |
|--------------------------|--|
| Bag Filter               | Bag type water filtration for heat exchanger system.   |
| Coolant                  | The coolant used for the transmitter heat exchanger is not included in the transmitter price |
| Rigid Coax Line          | Rigid interconnection coax lines from transmitter to filter to antenna switch.               |
| Remote Control Interface | License required to interface transmitter into current remote control system                 |

## Primary Transmitter

### **Existing Transmitter Information**

| Section                                     | Question   | Response          |
|---|--|-------------------|
| Existing Transmitter Description            | Type of change   | Purchase<br>New   |
|   | Use  | Primary<br>(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  | TDU2-<br>10K0LV   |
|   | Year   | 2003              |
|   | Туре   | Solid State       |
|   | Solid State Cooling  | Liquid<br>Cooled  |
|   | Solid State Power Capacity                                 | 5 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                                     | MPTV-PRLX-<br>U8   |
|                 | Transmitter Type                          | Solid State  |
|                 | Solid State Cooling                       | Liquid Cooled  |
|                 | Solid State Power capacity                | 13 kW  |
|                 | Justification for New Transmitter         | Current transmitter is not supported for a channel change. See attached Transmitter Replace Justification letter from manufacturer. Power upgrade is part of an agreement provided to the FCC to move WCPB to Ch. 16 to accommodate moving WETA to channel 31. |

### Primary Transmitter

#### **Other Transmitter Costs**

| Question | Response |
|----------|----------|
|          | Question |

| 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   | Yes  |
|   | Description  | Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor. |
| HVAC Service  | Does the replacement transmitter require HVAC Service?                                       | No   |
|   | Туре   | N/A  |
|   | Size   | N/A  |
|   | Other Size   | N/A  |
| Transmitter Building<br>Addition/Modification or<br>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  |

## Primary Transmitter

#### **Other Transmitter Cost Not Listed**

| Name                     | Description  |
|--------------------------|--|
| Coolant                  | The coolant used for the transmitter heat exchanger is not included in the transmitter price   |
| 8-Pole Mask Filter       | A more rigid mask filter to protect adjacent land mobile stations on Ch. 17 in Washington DC.  |
| Site Design and Survey   | Incorporates all aspects of the transmitter room design, including power distribution requirements, equipment placement, RF system layout, plumbing, and remote control. |
| Rigid Coax Line          | Rigid interconnection coax lines from transmitter to filter to antenna switch.   |
| Motorized Switch         | Electric actuated switch to switch main /auxiliary transmitters into antenna   |
| Remote Control Interface | License required to interface transmitter into current remote control system   |
| Bag Filter               | Bag type water filtration for heat exchanger system.   |
| CIF Mask filter          | Constant Impedance mask Filter. Station currently utilizes a CIF.  |

#### **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<br>Existing |
|   | Antenna Use  | Primary<br>(Main)  |
|   | Description of Use   | N/A                |
|   | Ownership  | Owned              |
|   | Owner  | N/A                |
|   | Site   | N/A                |
|   | Is the existing antenna shared with another station or stations? | No                 |
|   | Is the existing antenna directional?                             | Yes                |
|   | Is antenna in operating condition?                               | Yes                |
|   | Is antenna located on or in close proximity to an antenna farm?  | No                 |
| Existing Antenna<br>Manufacturer and Type | Class  | Full Power         |
|   | Mounting   | Top Mount          |
|   | Antenna position in stack  | Тор                |
|   | Polarization   | Horizontal         |
|   | Туре   | Broadband<br>Panel |
|   | Number of Stations Supported                                     | 1                  |
|   | Number of Panels   | 16                 |
|   | Design power capacity in use                                     | 50.0 %             |
|   | Lower Limit  | 470.00 MH          |

| Upper Limit                     | 698.00 MHz |
|---------------------------------|------------|
| Other Antenna Type              | N/A        |
| ERP: (Effective Radiated Power) | 132.0 kW   |
| Manufacturer                    | DIE        |
| Model                           | TUP-16-O4- |
| Year                            | 2009       |

#### Primary Antenna

### **Adjustment to Existing Antenna**

| Section                           | Question                                      | Response |
|-----------------------------------|---|----------|
| Sweep Test of Existing<br>Antenna | Do you need a sweep test of existing antenna? | Yes      |

#### Primary Antenna

#### **Other Antenna Costs**

| Section                        | Question                                     | Response |
|--------------------------------|--|----------|
| Combiner for Shared<br>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                                    |          |

#### Primary Antenna

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

| Name               | Description                                     |
|--------------------|---|
| Antenna Optimizing | Optimize match to operate on channel 16 from 28 |

| Transmission Seffien               | Question  | Response |
|------------------------------------|---|----------|
| Transmission Line Related Expenses | Do you have transmission line related expenses? | No       |

Tower
Equipment
And
Rigging
Costs

| Section                                     | Question  | Response |
|---|---|----------|
| Tower Equipment or<br>Rigging Costs Changes | Do you have tower equipment or rigging costs changes? | No       |

| Outside      |
|--------------|
| Professional |

|    | Section  | Question   | Response  |
|----|--|--|---|
| al | Services Costs<br>Outside Project<br>Management Services | Do you require outside project management services?                          | Yes   |
|    |  | Number of Hours  | 280   |
|    |  | Explanation  | Applicant has limited internal resources to oversee installing and commissioning this repack project. It will rely on outside services to manage all work required. |
|    | Outside RF consulting<br>Engineering Services            | Perform engineering study for new channel assignment and antenna development | Yes   |
|    |  | Prepare engineering section of Form FCC Construction Permit Application      | Yes   |
|    |  | For Auxiliary Facility   | No  |
|    |  | For Main Facility  | Yes   |
|    |  | Prepare engineering section of Form FCC License to Cover Application         | Yes   |
|    |  | For Auxiliary Facility   | No  |
|    |  | For Main Facility  | Yes   |
|    |  |  |   |

|                                       | Prepare request for Special Temporary Authority  | No  |
|---------------------------------------|--|-----|
|                                       | Quantity   | N/A |
|                                       | 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   | No  |
|                                       | For Main Facility  | Yes |
|                                       | Prepare and file Form FCC License to Cover Application                                     | Yes |
|                                       | For Auxiliary Facility   | No  |
|                                       | For Main Facility  | Yes |
|                                       | Prepare request for Special Temporary<br>Authority   | No  |
|                                       | Quantity   | N/A |
|                                       | 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 | No  |
| RF Field Engineering<br>Services      | Comprehensive coverage verification via field study  | No  |
|                                       |  |     |

| RF exposure measurements             | No   |
|--------------------------------------|--|
| Additional Field Engineering Service | Yes  |
| Number of Days                       | 1  |
| Justification                        | Initial sweep<br>of the antenna<br>to verify if<br>antenna could<br>operate on<br>original repack<br>channel 21. |

#### Outside Professional

## Other Professional Services Expenses Not Listed

| Services Costs   | Description  |
|------------------|--|
| Progress Reports | Prepare and file 8 required progress reports on FCC Form 2100, Schedule 387 on a quarterly basis with the FCC. |

## 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<br>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   | No       |
|                                 | BLM or NFS Coordination  | No       |
|                                 | FCC Construction Permit Minor Change   | No       |
|                                 | FCC License to Cover Application   | No       |
|                                 | FCC Special Temporary Authority Application  | No       |
| Other Miscellaneous<br>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?  | No       |
|                                 | Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?     | No       |
|                                 | Does this relocation require MVPD  Notification of a Channel Change?   | Yes      |

Other Expenses Not Listed

**Expenses** Information not provided.

## **Cost Information**

#### **Transmitters**

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

| Description                                | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification   | Actual<br>Cost | Actual Cost<br>Justification |
|--|--------------------------------|-------------------|--|----------------|------------------------------|
| Primary<br>Transmitter<br>MPTV-<br>PRLX-U8 | \$631,988.50                   | \$607,488.50      |  | \$0.00         |                              |
| CIF Mask<br>filter                         | \$60,207.00                    | \$60,207.00       | Constant Impedance mask Filter. Current mask filter is a CIF.  | N/A            | N/A                          |
| Remote<br>Control<br>Interface             | \$2,197.50                     | \$2,197.50        | License required to interface transmitter into current remote control system. These are in use now on the Comark transmitters. This IS NOT an upgrade.                           | N/A            | N/A                          |
| Motorized<br>Switch                        | \$20,195.00                    | \$20,195.00       | Electric actuated switch to switch main /auxiliary transmitters into antenna. Current transmitter has this capability but switch cannot be moved as it is in pre-repack service. | N/A            | N/A                          |

| Rigid Coax  | \$2,600.00  | \$2,600.00  | Rigid             | N/A | N/A |
|-------------|-------------|-------------|-------------------|-----|-----|
| Line        |             |             | interconnection   |     |     |
|             |             |             | coax lines from   |     |     |
|             |             |             | transmitter to    |     |     |
|             |             |             | filter to         |     |     |
|             |             |             | antenna           |     |     |
|             |             |             | switch. Part of   |     |     |
|             |             |             | the internal RF   |     |     |
|             |             |             | systems and       |     |     |
|             |             |             | will be cut to    |     |     |
|             |             |             | length needed.    |     |     |
|             |             |             | This IS NOT       |     |     |
|             |             |             | an upgrade.       |     |     |
| Site        | \$15,300.00 | \$15,300.00 | Incorporates      | N/A | N/A |
| Design      |             |             | all aspects of    |     |     |
| and Survey  |             |             | the transmitter   |     |     |
|             |             |             | room design,      |     |     |
|             |             |             | including         |     |     |
|             |             |             | power             |     |     |
|             |             |             | distribution      |     |     |
|             |             |             | requirements,     |     |     |
|             |             |             | equipment         |     |     |
|             |             |             | placement, RF     |     |     |
|             |             |             | system layout,    |     |     |
|             |             |             | plumbing, and     |     |     |
|             |             |             | remote control.   |     |     |
| 8-Pole      | \$15,000.00 | \$15,000.00 | A more            | N/A | N/A |
| Mask Filter |             |             | stringent mask    |     |     |
|             |             |             | filter to protect |     |     |
|             |             |             | adjacent land     |     |     |
|             |             |             | mobile stations   |     |     |
|             |             |             | on Ch. 17 in      |     |     |
|             |             |             | Washington        |     |     |
|             |             |             | DC.               |     |     |

| Other Electrical Service: Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor. | \$14,200.00  | \$14,200.00  | Electrical contractor to connect transmitter into existing electrical panel and wire heat exchanger into transmitter. Includes material and labor. | N/A | N/A |
|--|--------------|--------------|--|-----|-----|
| UHF -<br>Liquid<br>Cooled<br>Solid State<br>Transmitter<br>8.2 - 13 kW   | \$494,500.00 | \$470,000.00 | N/A  | N/A | N/A |
| Coolant  | \$814.00     | \$814.00     | The coolant used for the transmitter heat exchanger is not included in the transmitter price. See attached coolant quote.                          | N/A | N/A |
| Bag Filter   | \$6,975.00   | \$6,975.00   | Bag type water filtration for heat exchanger system. Current pre-repack cooling system has this filtering. This IS NOT an upgrade.                 | N/A | N/A |

| Auxiliary<br>Transmitter<br>PRLX-U8                                    | \$521,286.50 | \$496,786.50 |  | \$0.00 |     |
|--|--------------|--------------|--|--------|-----|
| Remote<br>Control<br>Interface   | \$2,197.50   | \$2,197.50   | License required to interface transmitter into current remote control system. Current Comark transmitters have this interface. This IS NOT an upgrade.                   | N/A    | N/A |
| Rigid Coax<br>Line   | \$2,600.00   | \$2,600.00   | Rigid interconnection coax lines from transmitter to filter to antenna switch. Part of the internal RF systems and will be cut to length needed. This IS NOT an upgrade. | N/A    | N/A |
| Coolant  | \$814.00     | \$814.00     | The coolant used for the transmitter heat exchanger is not included in the transmitter price. See attached coolant quote.  | N/A    | N/A |
| UHF -<br>Liquid<br>Cooled<br>Solid State<br>Transmitter<br>8.2 - 13 kW | \$494,500.00 | \$470,000.00 | N/A  | N/A    | N/A |

| Total for<br>all | \$1,566,075.00 | \$1,262,645.00 | N/A                      | \$5,111.82 | N/A   |
|------------------|----------------|----------------|--------------------------|------------|-------|
| Sub-total        | \$1,153,275.00 | \$1,104,275.00 | N/A                      | \$0.00     | N/A   |
|                  |                |                | an upgrade.              |            |       |
|                  |                |                | This IS NOT              |            |       |
|                  |                |                | this filtering.          |            |       |
|                  |                |                | system has               |            |       |
|                  |                |                | repack cooling           |            |       |
|                  |                |                | Current pre-             |            |       |
|                  |                |                | system.                  |            |       |
|                  |                |                | exchanger                |            |       |
|                  |                |                | heat                     |            |       |
| - 39             | ψο,ο τοιοο     | ψο,ο / ο.οο    | filtration for           | 1 1// 1    | 14//1 |
| Bag Filter       | \$6,975.00     | \$6,975.00     | Bag type water           | N/A        | N/A   |
| and labor.       |                |                |                          |            |       |
| material         |                |                |                          |            |       |
| Includes         |                |                |                          |            |       |
| transmitter.     |                |                |                          |            |       |
| into             |                |                | electrical quote.        |            |       |
| exchanger        |                |                | attached                 |            |       |
| wire heat        |                |                | labor. See               |            |       |
| panel and        |                |                | material and             |            |       |
| electrical       |                |                | Includes                 |            |       |
| existing         |                |                | transmitter.             |            |       |
| into             |                |                | exchanger into           |            |       |
| transmitter      |                |                | and wire heat            |            |       |
| to connect       |                |                | electrical panel         |            |       |
| contractor       |                |                | existing                 |            |       |
| Electrical       |                |                | transmitter into         |            |       |
| Service:         |                |                | connect                  |            |       |
| Electrical       | \$14,200.00    | \$14,200.00    | Electrical contractor to | N/A        | N/A   |

### Components

| Actual Information Description | File Name                 |
|--------------------------------|---------------------------|
| CIF Mask filter                | Information not provided. |
| Remote Control Interface       | Information not provided. |
| Motorized Switch               | Information not provided. |
| Rigid Coax Line                | Information not provided. |

| Site Design and Survey   |                           |                                   |
|--|---------------------------|-----------------------------------|
|  | Component Description:    | Expenses for all 6 locations site |
|  |                           | surverys                          |
|  | Amount:                   | \$2,111.82                        |
| 8-Pole Mask Filter   | 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. | Information not provided. |                                   |
| UHF - Liquid Cooled Solid<br>State Transmitter 8.2 - 13 kW   | Information not provided. |                                   |
| Coolant  | Information not provided. |                                   |
| Bag Filter   | Information not provided. |                                   |
| Remote Control Interface   | Information not provided. |                                   |
| Rigid Coax Line  | Information not provided. |                                   |
| Coolant  | Information not provided. |                                   |
| UHF - Liquid Cooled Solid<br>State Transmitter 8.2 - 13 kW   | 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. | Information not provided. |                                   |
| Bag Filter   | Information not provided. |                                   |

## **Cost** Information

#### **Antennas**

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

| Description   | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification                                  | Actual<br>Cost | Actual Cost<br>Justification |
|---|--------------------------------|-------------------|---|----------------|------------------------------|
| Primary<br>Antenna TUP-<br>16-O4-1  | \$256,730.00                   | \$9,400.00        |   | \$3,000.00     |                              |
| UHF - High<br>Power Top<br>Mount (200-<br>1000 kW),<br>One station<br>antenna,<br>horizontally<br>polarized | \$247,000.00                   | \$0.00            | N/A   | N/A            | N/A                          |
| Sweep test of existing antenna  | \$6,730.00                     | \$6,400.00        | N/A   | \$3,000.00     | N/A                          |
| Antenna<br>Optimizing   | \$3,000.00                     | \$3,000.00        | Optimize<br>antenna<br>match from<br>channel 28<br>to channel<br>16 | N/A            | N/A                          |
| Sub-total   | \$256,730.00                   | \$9,400.00        | N/A   | \$3,000.00     | N/A                          |
| Total for all systems   | \$1,566,075.00                 | \$1,262,645.00    | N/A   | \$5,111.82     | N/A                          |

### Components

| Actual Information Description   | File Name                 |
|--|---------------------------|
| UHF - High Power Top Mount<br>(200-1000 kW), One station<br>antenna, horizontally<br>polarized | Information not provided. |

| Sweep test of existing antenna | Component Description:  Amount: | Sweep of<br>existing system<br>at WCPB<br>salisbury<br>\$3,000.00 |  |
|--------------------------------|---------------------------------|---|--|
| Antenna Optimizing             | Information not provided.       |   |  |

## Cost Transmission Line

**Information** Information not provided.

## Cost Tower Equipment and Rigging Costs

**Information** Information not provided.

## **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<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification   | Actual<br>Cost | Actual Cost<br>Justification |
|---|--------------------------------|-------------------|--|----------------|------------------------------|
| Outside<br>Professional<br>Services   | \$105,200.00                   | \$102,650.00      |  | \$0.00         |                              |
| Progress<br>Reports   | \$28,000.00                    | \$28,000.00       | Prepare and file 8 required progress reports on FCC Form 2100, Schedule 387 on a quarterly basis with the FCC. | N/A            | N/A                          |
| Additional Field Engineering Service, 1 Days  | \$6,400.00                     | \$6,400.00        | Initial sweep<br>of antenna to<br>evaluate<br>operation on<br>channel 21<br>from channel<br>28.                | N/A            | N/A                          |
| Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application | \$2,365.00                     | \$2,250.00        | N/A  | N/A            | N/A                          |

| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | \$5,260.00 | \$5,000.00 | 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 |
| 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 | \$7,000.00 | N/A | N/A | N/A |
| Prepare and or review reimbursement form   | \$2,630.00 | \$2,500.00 | N/A | N/A | N/A |

| Attorney Fees                              | \$4,210.00     | \$5,000.00     | Fees related   | N/A        | N/A |
|--|----------------|----------------|----------------|------------|-----|
| - Negotiation                              |                |                | to multi-party |            |     |
| of lease and                               |                |                | resolution     |            |     |
| other matters                              |                |                | agreement      |            |     |
| for shared                                 |                |                | with Maryland  |            |     |
| locations                                  |                |                | Public TV,     |            |     |
|  |                |                | WETA and       |            |     |
|  |                |                | HME Equity     |            |     |
|  |                |                | Fund II, LLC.  |            |     |
|  |                |                | Involved       |            |     |
|  |                |                | several        |            |     |
|  |                |                | stations       |            |     |
|  |                |                | moving         |            |     |
|  |                |                | channels to    |            |     |
|  |                |                | accommodate    |            |     |
|  |                |                | WETA           |            |     |
|  |                |                | moving from    |            |     |
|  |                |                | ch 14 to 31.   |            |     |
| Project<br>management<br>of the transition | \$44,240.00    | \$42,000.00    | N/A            | N/A        | N/A |
| Sub-total                                  | \$105,200.00   | \$102,650.00   | N/A            | \$0.00     | N/A |
| Total for all systems                      | \$1,566,075.00 | \$1,262,645.00 | N/A            | \$5,111.82 | N/A |

#### Components

Information not provided.

## **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<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification  | Actual<br>Cost | Actual Cost<br>Justification |
|--|--------------------------------|-------------------|---|----------------|------------------------------|
| Other<br>Expenses                            | \$50,870.00                    | \$46,320.00       |   | \$0.00         |                              |
| MVPD<br>Notification<br>of Channel<br>Change | \$1,000.00                     | \$1,000.00        | Notification will need to be made to MVPD's as required. Applicant to explore using an outside firm to determine which facilities will need to be notified and send the appropriate notification letters. | N/A            | N/A                          |
| Equipment Delivery and Handling Charges      | \$18,320.00                    | \$18,320.00       | Transmitter shipping shown as options on attached quotes.   | N/A            | N/A                          |

| Disposal      | \$20,000.00    | \$20,000.00    | Applicant       | N/A        | N/A |
|---------------|----------------|----------------|-----------------|------------|-----|
| Costs (for    |                |                | will be         |            |     |
| equipment     |                |                | required to     |            |     |
| and other     |                |                | dispose of      |            |     |
| waste, net    |                |                | the current     |            |     |
| of any        |                |                | transmission    |            |     |
| salvage       |                |                | line and        |            |     |
| value)        |                |                | transmitter     |            |     |
|               |                |                | and heavy       |            |     |
|               |                |                | oil filled high |            |     |
|               |                |                | voltage         |            |     |
|               |                |                | power           |            |     |
|               |                |                | supplies.       |            |     |
|               |                |                | These           |            |     |
|               |                |                | cannot be       |            |     |
|               |                |                | disposed of     |            |     |
|               |                |                | in a typical    |            |     |
|               |                |                | landfill.       |            |     |
| OTV           | \$11,550.00    | \$7,000.00     | N/A             | N/A        | N/A |
| Medical       |                |                |                 |            |     |
| acility       |                |                |                 |            |     |
| Notification  |                |                |                 |            |     |
| Sub-total     | \$50,870.00    | \$46,320.00    | N/A             | \$0.00     | N/A |
| Total for all | \$1,566,075.00 | \$1,262,645.00 | N/A             | \$5,111.82 | N/A |

#### Components

Information not provided.

## Cost Information

#### **Grand Total**

|                       | Predetermined<br>Cost Estimate | Estimated Cost | Actual Cost |
|-----------------------|--------------------------------|----------------|-------------|
| Total for all systems | \$1,566,075.00                 | \$1,262,645.00 | \$5,111.82  |

| Reimbursem | envestiatus  | Response |
|------------|--|----------|
|            | The facility has ceased operating on its pre-<br>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       |

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.
- 2. 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. Holly
Davenport
Fiscal
Accounts
Clerk

04/03/2018

#### **Attachments**