



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **190915** | Service: **DCA** | Call **WSVF-CD** | Channel:  
ID: | Sign:  
**36 (UHF)** | File **0000028691**  
Number:  
FRN: **0018223693** | Date **06/03**  
Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

| Applicant                            | Address  | Phone             | Email                   | Applicant Type            |
|--------------------------------------|--|-------------------|-------------------------|---------------------------|
| <b>GRAY TELEVISION LICENSEE, LLC</b> | 50 NORTH MAIN STREET<br>HARRISONBURG,<br>VA 22802<br>United States | +1 (540) 433-9191 | robert.folliard@gray.tv | Limited Liability Company |

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

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

## Preparer Contact Information

### Preparer Contact Name and Information

| Applicant                              | Address   | Phone             | Email                    |
|--|---|-------------------|--------------------------|
| <b>Samuel Hariton</b><br><i>Widely</i> | Samuel Hariton<br>4031 University Dr<br>Suite 100<br>Fairfax, VA 22030<br>United States | +1 (339) 222-8107 | sam.hariton@widelity.com |

**Broadcaster  
Information  
and  
Transition  
Plan**

| Question   | Response  |
|--|---|
| Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information. | Yes   |
| Briefly describe transition plan   | The station will be replacing the main antenna and transmission line, retuning the main transmitter, and installing an interim transmitter while the main transmitter is being retuned. |

**Transmitters**

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

**Primary  
Transmitter**

**Existing Transmitter Information**

| Section                                    | Question   | Response        |
|--|--|-----------------|
| Existing Transmitter Description           | Type of change   | Retune Existing |
|  | Use  | Primary (Main)  |
|  | Ownership  | Owned           |
|  | Owner  | 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   | Harris          |
|  | Model  | UAX2000         |
|  |  |                 |

|                            |             |
|----------------------------|-------------|
| Year                       | 2013        |
| Type                       | Solid State |
| Solid State Cooling        | Air Cooled  |
| Solid State Power capacity | 2.2 kW      |

**Primary  
Transmitter**

**Retuning Transmitter Costs**

| Section                | Question                                       | Response |
|------------------------|--|----------|
| <b>New IOT Tubes</b>   | Number of Tubes (including accessories) needed | N/A      |
| <b>New Mask Filter</b> | Power  | Other    |
|                        | Other Power                                    | 2.5 kW   |
| <b>New Exciter</b>     | Is a new exciter needed?                       | No       |

**Primary  
Transmitter**

**Other Transmitter Costs**

| Section                   | Question   | Response |
|---------------------------|--|----------|
| <b>Electrical Service</b> | 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      |
| <b>HVAC Service</b>       | Does the replacement transmitter require HVAC Service? | No       |
|                           | Type   | N/A      |
|                           |  |          |

|  |   |     |
|--|---|-----|
|  | Size  | N/A |
|  | Other Size  | N/A |
| <b>Transmitter Building Addition/Modification or Leasehold Improvement</b> | Does the Transmitter Building require an addition, modification, other leasehold improvement? | No  |
|  | Size  | N/A |
| <b>Channel 14 Costs</b>  | 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**  
Information not provided.

**Interim Transmitter** **New Transmitter Costs**

| Section                | Question                          | Response   |
|------------------------|-----------------------------------|--|
| <b>New Transmitter</b> | Use                               | Interim  |
|                        | Description of Use                | N/A  |
|                        | Change Type                       | Lease New  |
|                        | Manufacturer                      |  |
|                        | Model                             | UAXT-3R37  |
|                        | Transmitter Type                  | Solid State                                      |
|                        | Solid State Cooling               | Air Cooled                                       |
|                        | Solid State Power capacity        | 1.5 kW   |
|                        | Justification for New Transmitter | Renting transmitter while main is being retuned. |

**Interim  
Transmitter**

**Other Transmitter Costs**

| Section  | Question  | Response  |
|--|---|---|
| <b>Electrical Service</b>  | 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   | The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors. |
| <b>HVAC Service</b>  | Does the replacement transmitter require HVAC Service?  | No  |
|  | Type  | N/A   |
|  | Size  | N/A   |
|  | Other Size  | N/A   |
| <b>Transmitter Building Addition/Modification or Leasehold Improvement</b> | Does the Transmitter Building require an addition, modification, other leasehold improvement? | No  |
|  | Size  | N/A   |
| <b>Channel 14 Costs</b>  | 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 |
| <b>Inside RF System</b> | Is an additional interior RF system required to support this interim transmitter? | No  |

Interim Transmitter

Other Transmitter Cost Not Listed

| Name |  | Description                             |
|------|--|---|
| HVAC |  | Additional HVAC for interim transmitter |

**Antennas**

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

**Primary  
Antenna**

**Existing Antenna Information**

| Section   | Question   | Response           |
|---|--|--------------------|
| <b>Existing Antenna<br/>Description</b>           | Type of change   | Purchase<br>New    |
|   | 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?  | Yes                |
| <b>Existing Antenna<br/>Manufacturer and Type</b> | Class  | Class A            |
|   | Mounting   | Side Mount         |
|   | Antenna position in stack  | Not in Stack       |
|   | Polarization   | Horizontal         |
|   | Type   | Slotted<br>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)<br>.....                         | 13.0 kW            |
|   |  |                    |



|              |  |
|--------------|--|
| Manufacturer |  |
| Model        | AL80-43<br>(Single<br>Channel<br>with<br>Broadband<br>Nulling<br>System) |
| Year         | 2013   |

**Primary  
Antenna**

**New Antenna Costs**

| Section                                   | Question   | Response        |
|---|--|-----------------|
| <b>New Antenna Description</b>            | Use  | Primary (Main)  |
|   | Description of Use   | N/A             |
|   | Change Type  | Purchase New    |
|   | Is this a request for upgraded equipment?                            | No              |
|   | Ownership  | Owned           |
|   | Owner  | N/A             |
|   | Is antenna shared?   | No              |
|   | Is antenna directional?  | No              |
|   | Will antenna be located on or in close proximity to an antenna farm? | Yes             |
| <b>New Antenna Manufacturer and Types</b> | Class  | Class A         |
|   | 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)<br>.....                             | 13.0 kW         |
|   | Manufacturer   |                 |
|   | Model  | AL80-36         |

|  |                               |                                    |
|--|-------------------------------|------------------------------------|
|  | Year                          | 2012                               |
|  | Justification for New Antenna | Current Antenna cannot be retuned. |

**Primary  
Antenna**

**Other Antenna Costs**

| Section                            | Question  | Response |
|------------------------------------|---|----------|
| <b>Combiner for Shared Antenna</b> | 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      |
| <b>Elbow Complex</b>               | Do you require the separate purchase of the Elbow Complex?  | No       |
|                                    | Broadband or Single Channel?  | N/A      |
|                                    | Feed Line Size  | N/A      |
| <b>Side Mount Brackets</b>         | Do you require the separate purchase of side mount brackets for a high power antenna?                       | No       |
| <b>Pattern Scatter Analysis</b>    | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | No       |
| <b>Sweep Test</b>                  | Do you require the sweep testing of transmission line and antenna?  | No       |

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Transmission Line**

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

**Primary Transmission Line****Add Transmission Line**

| Section  | Question   | Response         |
|--|--|------------------|
| Existing Transmission Line Description           | Type of change   | Utilize Existing |
|  | 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   | Andrew           |
|  | Type   | Flexible Foam    |
|  | Diameter   | 7/8 inches       |
|  | Other Diameter   | N/A              |
|  | Segment Length   | N/A              |
|  | Other Segment Length   | N/A              |
|  | Number of parallel runs  | 1                |
|  | Length   | 164 feet per run |

Primary **Other Transmission Line Expenses Not Listed**  
 Transmission Line Information not provided.

Primary **Existing Transmission Line**  
 Transmission Line

| Section  | Question   | Response         |
|--|--|------------------|
| Existing Transmission Line Description           | Type of change   | Utilize Existing |
|  | Use  | Primary (Main)   |
|  | Description of Use   | N/A              |
|  | Ownership  | Owned            |
|  | Owner  | N/A              |
|  | Site   | N/A              |
|  | Is the existing transmission line shared with another station or stations? | No               |
|  | Is Transmission Line in operating condition?                               | Yes              |
| Existing Transmission Line Manufacturer and Type | Manufacturer   | Andrew           |
|  | Type   | Flexible Foam    |
|  | Diameter   | 1 5/8 inches     |
|  | Other Diameter   | N/A              |
|  | Segment Length   | N/A              |
|  | Other Segment Length   | N/A              |
|  | Number of parallel runs  | 1                |
|  | Length   | 164 feet per run |

Primary **Other Transmission Line Expenses Not Listed**  
 Transmission Line Information not provided.

Interim

Transmission Line

### New Transmission Line

| Section                     | Question                                | Response  |
|-----------------------------|---|---|
| New Transmission Line Costs | Use                                     | Interim   |
|                             | Description of Use                      | N/A   |
|                             | Change Type                             | Purchase New  |
|                             | Type                                    | Flexible Foam   |
|                             | Diameter                                | 1 5/8 inches  |
|                             | Segment Length                          | N/A   |
|                             | Other Segment Length                    |   |
|                             | Number of parallel runs                 | 2   |
|                             | Length                                  | 164 feet per run  |
|                             | Justification for New Transmission Line | Required for the new channel 36 antenna while the channel 43 antenna is broadcasting. |

Interim

Transmission Line

### Other Transmission Line Expenses Not Listed

Information not provided.

**Tower Equipment And Rigging Costs**

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

**Primary Tower**

**Existing Tower**

| Section   | Question  | Response          |
|---|---|-------------------|
| Existing Tower Description                          | Type of change  | Modify Existing   |
|   | Tower Use   | Primary (Main)    |
|   | Description of Use                                      | N/A               |
|   | Ownership   | Leased            |
|   | Is this tower consider Complex?                         | Candelabra        |
|   | Is this tower currently shared with any other stations? | Yes               |
|   | One or more FM, AM or TV radio broadcaster(s)           | No                |
|   | Others Types of Users                                   | Yes               |
|   | Is tower documented for structural analysis?            | Yes               |
|   | Is tower compliant with Rev G?                          | No                |
| Existing Tower Structure Registration               | Do you have a tower registration number?                | No                |
|   | ASR Number  |                   |
| Coordinates (NAD83 ( North American Datum of 1983)) | Latitude (NAD83)  | 38° 23' 34.4" N-  |
|   | Longitude (NAD83)                                       | 078° 46' 12.0" W- |
|   | Overall Structure Height                                | 80.00 feet        |
|   | Support Structure Height                                | 80.00 feet        |
|   | Ground Elevation Above Mean Sea Level (AMSL)            | 2921.20 feet      |

|                  |  |
|------------------|--|
| Structure Type   | TOWER - Free Standing or Guyed Structure |
| Tower Owner      | Rockingham County, VA                    |
| Date Constructed | 01/01/1979                               |

### Other Types of Users

| Users           |
|-----------------|
| misc unlicensed |
| Emergency Radio |
| WVIR TV Trans   |

### Primary Tower

### Tower Modification Costs

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

### Primary Tower

### Tower Rigging Costs

| Section                      | Question                          | Response   |
|------------------------------|-----------------------------------|------------|
| Tower Rigging Costs          | Complex Tower                     | Candelabra |
| Helicopter Services Required | Are helicopter services required? | No         |



Primary  
Tower

Other Tower Expenses Not Listed

| Name             | Description                                     |
|------------------|---|
| Moving Equipment | Removing main antenna, installing a new antenna |

**Outside  
Professional**

| Section   | Question   | Response          |
|---|--|-------------------|
| <b>Services Costs<br/>Outside Project<br/>Management Services</b> | Do you require outside project management services?                          | Yes               |
|   | Number of Hours  | 712               |
|   | Explanation  | Strategic Support |
| <b>Outside RF consulting<br/>Engineering Services</b>             | Perform engineering study for new channel assignment and antenna development | Yes               |
|   | Prepare engineering section of Form FCC Construction Permit Application      | Yes               |
|   | For Auxiliary Facility   | No                |
|   | For Main Facility  | Yes               |
|   | Prepare engineering section of Form FCC License to Cover Application         | Yes               |
|   | For Auxiliary Facility   | No                |
|   | For Main Facility  | Yes               |
|   | Prepare request for Special Temporary Authority                              | Yes               |
|   | Quantity   | 1                 |
|   | Do you have Distributed Transmission System engineering services?            | N/A               |
|   | Critical Facility  | N/A               |
|   | Terrain-Shielded Facility  | N/A               |
| <b>Attorney and Other<br/>Outside Consulting<br/>Services</b>     | Prepare and file Form FCC Construction Permit Application                    | Yes               |
|   | For Auxiliary Facility   | No                |
|   | For Main Facility  | Yes               |
|   | Prepare and file Form FCC License to Cover Application                       | Yes               |
|   | For Auxiliary Facility   | No                |
|   | For Main Facility  | Yes               |

|                                      |  |                      |
|--------------------------------------|--|----------------------|
|                                      | Prepare request for Special Temporary Authority  | Yes                  |
|                                      | Quantity   | 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                  |
| <b>RF Field Engineering Services</b> | Comprehensive coverage verification via field study  | No                   |
|                                      | RF exposure measurements   | No                   |
|                                      | Additional Field Engineering Service   | Yes                  |
|                                      | Number of Days   | 5                    |
|                                      | Justification  | Yes. NRAO Compliance |

**Outside Professional Services Costs**      **Other Professional Services Expenses Not Listed**

Services not provided.

## Other Expenses

| Section                             | Question   | Response |
|-------------------------------------|--|----------|
| <b>AM Pattern Disturbance</b>       | Is an Impact Study needed?   | No       |
|                                     | Is Remediation needed?   | No       |
| <b>Facility Expenses</b>            | 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      |
| <b>Permit and Filing Costs</b>      | Local Zoning   | No       |
|                                     | Non-zoning permits   | Yes      |
|                                     | BLM or NFS Coordination  | No       |
|                                     | FCC Construction Permit Minor Change   | No       |
|                                     | FCC License to Cover Application   | Yes      |
|                                     | FCC Special Temporary Authority Application  | Yes      |
| <b>Other Miscellaneous Expenses</b> | Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?        | No       |
|                                     | 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      |

|                       |                                  |
|-----------------------|----------------------------------|
| <b>Other Expenses</b> | <b>Other Expenses Not Listed</b> |
|                       | 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 Cost Estimate | Estimated Cost     | Estimated Cost Justification                  | Actual Cost   | Actual Cost Justification |
|---|-----------------------------|--------------------|---|---------------|---------------------------|
| <b>Interim Transmitter UAXT-3R37</b>  | <b>\$136,000.00</b>         | <b>\$57,664.00</b> |   | <b>\$0.00</b> |                           |
| HVAC  | <i>\$5,000.00</i>           | \$5,000.00         | N/A   | N/A           | N/A                       |
| UHF - Air Cooled Solid State Transmitter 1 - 2.5 kW   | \$126,000.00                | \$47,664.00        | Rental while the transmitter is being retuned | N/A           | N/A                       |
| Other Electrical Service: The new transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors. | <i>\$5,000.00</i>           | \$5,000.00         | N/A   | N/A           | N/A                       |
| <b>Primary Transmitter UAX2000</b>  | <b>\$110,556.70</b>         | <b>\$17,556.60</b> |   | <b>\$0.00</b> |                           |
| Other 2.5 kW mask filter  | <i>\$5,356.70</i>           | \$5,356.70         | See attached GatesAir quote GA-00022587       | N/A           | N/A                       |

|  |                |              |     |             |     |
|--|----------------|--------------|-----|-------------|-----|
| UHF and VHF<br>- minor<br>banding issues | \$105,200.00   | \$12,199.90  | N/A | N/A         | N/A |
| <b>Sub-total</b>                         | \$246,556.70   | \$75,220.60  | N/A | \$0.00      | N/A |
| <b>Total for all<br/>systems</b>         | \$1,083,584.70 | \$515,584.60 | N/A | \$54,772.80 | N/A |

## Components

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<br>AL80-36  | \$26,300.00                    | \$3,840.00        |                                    | \$0.00         |                              |
| UHF - Lower<br>Power Side<br>Mount, Class<br>A One<br>Station<br>antenna --<br>basic | \$26,300.00                    | \$3,840.00        | N/A                                | N/A            | N/A                          |
| Sub-total  | \$26,300.00                    | \$3,840.00        | N/A                                | \$0.00         | N/A                          |
| Total for all<br>systems   | \$1,083,584.70                 | \$515,584.60      | N/A                                | \$54,772.80    | N/A                          |

Components

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<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification | Actual<br>Cost | Actual Cost<br>Justification |
|--|--------------------------------|-------------------|------------------------------------|----------------|------------------------------|
| Interim<br>Transmission<br>Line                                      | \$7,872.00                     | \$7,544.00        |                                    | \$0.00         |                              |
| Flexible<br>Foam<br>Transmission<br>Line -<br>dielectric, 1 5<br>/8" | \$7,872.00                     | \$7,544.00        | N/A                                | N/A            | N/A                          |
| Primary<br>Transmission<br>Line                                      | \$0.00                         | \$0.00            |                                    | \$0.00         |                              |
| Primary<br>Transmission<br>Line                                      | \$0.00                         | \$0.00            |                                    | \$0.00         |                              |
| Sub-total  | \$7,872.00                     | \$7,544.00        | N/A                                | \$0.00         | N/A                          |
| Total for all<br>systems   | \$1,083,584.70                 | \$515,584.60      | N/A                                | \$54,772.80    | 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 |
|---|-----------------------------|----------------|--|-------------|---------------------------|
| Primary Tower TOWER   | \$618,160.00                | \$262,960.00   |  | \$0.00      |                           |
| Moving Equipment  | <i>\$26,560.00</i>          | \$26,560.00    | See attached Shenandoah Tower quote B17-1358 | N/A         | N/A                       |
| Structural engineering tower load study for well documented tower                     | \$12,600.00                 | \$6,400.00     | N/A  | N/A         | N/A                       |
| Complex Tower (includes, for example, those with candelabras and/or stacked antennas) | \$421,000.00                | \$80,000.00    | Short tower with candelabra on top           | N/A         | N/A                       |
| Minor tower reinforcement /modifications  | \$158,000.00                | \$150,000.00   | N/A  | N/A         | N/A                       |
| Sub-total   | \$618,160.00                | \$262,960.00   | N/A  | \$0.00      | N/A                       |
| Total for all systems   | \$1,083,584.70              | \$515,584.60   | N/A  | \$54,772.80 | N/A                       |

Components

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 Cost Estimate | Estimated Cost      | Estimated Cost Justification | Actual Cost        | Actual Cost Justification |
|--|-----------------------------|---------------------|------------------------------|--------------------|---------------------------|
| <b>Outside Professional Services</b>   | <b>\$152,416.00</b>         | <b>\$142,550.00</b> |                              | <b>\$54,772.80</b> |                           |
| Additional Field Engineering Service, 5 Days   | <i>\$5,000.00</i>           | \$5,000.00          | N/A                          | N/A                | N/A                       |
| Attorney Fees - Prepare and File request for Special Temporary Authorization           | \$3,680.00                  | \$3,500.00          | N/A                          | N/A                | N/A                       |
| Attorney Fees - Negotiation of lease and other matters for shared locations            | \$4,210.00                  | \$2,000.00          | N/A                          | 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                          | \$196.50           | 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        |
| Perform engineering study for new channel assignment and antenna development         | \$7,360.00          | \$7,000.00          | N/A        | \$3,812.50         | N/A        |
| Prepare and or review reimbursement form   | \$2,630.00          | \$2,500.00          | N/A        | N/A                | N/A        |
| Address transition timing and coordination issues w/ other stations and wireless     | \$2,630.00          | \$2,500.00          | N/A        | N/A                | N/A        |
| Prepare request for Special Temporary Authorization                                  | \$2,050.00          | \$1,500.00          | N/A        | N/A                | N/A        |
| Project management of the transition   | \$112,496.00        | \$106,800.00        | N/A        | \$48,438.80        | N/A        |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | \$3,155.00          | \$3,000.00          | N/A        | \$2,325.00         | N/A        |
| <b>Sub-total</b>   | <b>\$152,416.00</b> | <b>\$142,550.00</b> | <b>N/A</b> | <b>\$54,772.80</b> | <b>N/A</b> |

|                              |                |              |     |             |     |
|------------------------------|----------------|--------------|-----|-------------|-----|
| <b>Total for all systems</b> | \$1,083,584.70 | \$515,584.60 | N/A | \$54,772.80 | N/A |
|------------------------------|----------------|--------------|-----|-------------|-----|

## Components

| <b>Actual Information</b>  |   |
|--|---|
| <b>Description</b>   | <b>File Name</b>  |
| Additional Field Engineering Service, 5 Days   | Information not provided.   |
| Attorney Fees - Prepare and File request for Special Temporary Authorization           | Information not provided.   |
| Attorney Fees - Negotiation of lease and other matters for shared locations            | Information not provided.   |
| Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application     | Information not provided.   |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | <div> <b>Component Description:</b> Professional services: complete and file Repack Application for WSVF-CD </div> <div> <b>Amount:</b> \$196.50 </div> |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application      | Information not provided.   |
| Perform engineering study for new channel assignment and antenna development           |   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Respond to query from NRAO Quiet Zone interference office for add'l detail of 11.4 kW 90 day facility. On receipt from NRAO, prepare amendment to pending 90 day FCC CP application. |
| <b>Amount:</b>                | \$437.50   |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Provide NRAO Quiet Zone interference office with specifications of substitute directional antenna |
| <b>Amount:</b>                | \$550.00  |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Engineering for statement of consent application /new channel study |
| <b>Amount:</b>                | \$1,562.50  |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Review correspondence re: predicted interference to 11 GHz microwave system from Rural Broadband application, facilitate interference analysis, discuss with counsel, assist with prep of objections. |
| <b>Amount:</b>                | \$687.50  |

|  |                               |  |  |
|--|-------------------------------|--|--|
|  | <b>Component Description:</b> |  | Perform engineering study for new channel assignment |
|  | <b>Amount:</b>                |  | \$250.00   |
|  | <b>Component Description:</b> |  | Perform engineering study for new channel assignment |
|  | <b>Amount:</b>                |  | \$325.00   |
| Prepare and or review reimbursement form   | Information not provided.     |  |  |
| Address transition timing and coordination issues w/ other stations and wireless | Information not provided.     |  |  |
| Prepare request for Special Temporary Authorization                              | Information not provided.     |  |  |
| Project management of the transition   | <b>Component Description:</b> |  | Cost Reconciliation                                  |
|  | <b>Amount:</b>                |  | \$2,450.45   |
|  | <b>Component Description:</b> |  | Project Management                                   |
|  | <b>Amount:</b>                |  | \$2,262.90   |
|  | <b>Component Description:</b> |  | Project Management                                   |
|  | <b>Amount:</b>                |  | \$1,863.20   |
|  | <b>Component Description:</b> |  | Project management                                   |
|  | <b>Amount:</b>                |  | \$2,592.65   |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$1,743.75         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,406.05         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$28.20            |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$1,698.10         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$802.25           |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,067.45         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$1,328.55         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$1,938.10         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$1,978.20         |



|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,017.75         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,176.30         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$733.30           |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project management |
| <b>Amount:</b>                | \$2,614.40         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$988.95           |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,904.40         |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Transition Related Project Management Costs |
| <b>Amount:</b>                | \$1,500.00                                  |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,048.35         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$1,907.30         |

|  |   |   |
|--|---|---|
|  | <b>Component Description:</b><br><b>Amount:</b> | Project Management<br>\$2,233.15  |
|  | <b>Component Description:</b><br><b>Amount:</b> | Project Management<br>\$2,498.65  |
|  | <b>Component Description:</b><br><b>Amount:</b> | Project Management<br>\$1,697.55  |
|  | <b>Component Description:</b><br><b>Amount:</b> | Project Management<br>\$1,958.85  |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | <b>Component Description:</b><br><b>Amount:</b> | Perform engineering and develop exhibits for CP application<br>\$1,025.00 |
|  | <b>Component Description:</b><br><b>Amount:</b> | Consulting Engineer<br>\$1,300.00   |

## Cost Information

### Other Expenses

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

| Description   | Predetermined Cost Estimate | Estimated Cost     | Estimated Cost Justification | Actual Cost   | Actual Cost Justification |
|---|-----------------------------|--------------------|------------------------------|---------------|---------------------------|
| <b>Other Expenses</b>                                     | <b>\$32,280.00</b>          | <b>\$23,470.00</b> |                              | <b>\$0.00</b> |                           |
| Develop and air announcement of upcoming channel change   | <i>\$3,000.00</i>           | \$3,000.00         | N/A                          | N/A           | N/A                       |
| Equipment Delivery and Handling Charges                   | <i>\$5,000.00</i>           | \$5,000.00         | N/A                          | N/A           | N/A                       |
| Non-zoning permits  | <i>\$6,000.00</i>           | \$6,000.00         | N/A                          | N/A           | N/A                       |
| Equipment Storage   | <i>\$5,000.00</i>           | \$5,000.00         | N/A                          | N/A           | N/A                       |
| DTV Medical Facility Notification                         | \$11,550.00                 | \$2,755.00         | N/A                          | N/A           | N/A                       |
| FCC Filing Fees - Form 2100 license to cover application  | \$335.00                    | \$325.00           | N/A                          | N/A           | N/A                       |
| FCC Filing Fees - Special Temporary Authorization request | \$195.00                    | \$190.00           | N/A                          | N/A           | N/A                       |
| MVPD Notification of Channel Change                       | <i>\$1,200.00</i>           | \$1,200.00         | N/A                          | N/A           | N/A                       |

|                              |                |              |     |             |     |
|------------------------------|----------------|--------------|-----|-------------|-----|
| <b>Sub-total</b>             | \$32,280.00    | \$23,470.00  | N/A | \$0.00      | N/A |
| <b>Total for all systems</b> | \$1,083,584.70 | \$515,584.60 | N/A | \$54,772.80 | N/A |

## Components

Information not provided.

|                  |                       |                             |                |
|------------------|-----------------------|-----------------------------|----------------|
| Cost Information | Grand Total           |                             |                |
|                  |                       | Predetermined Cost Estimate | Estimated Cost |
|                  |                       |                             | Actual Cost    |
|                  | Total for all systems | \$1,083,584.70              | \$515,584.60   |
|                  |                       |                             | \$54,772.80    |

|                      |  |          |
|----------------------|--|----------|
| 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"> <li>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.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>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.</li> </ol> |          |

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><b>Robert J. Folliard , III</b><br/> .<br/> <i>Assistant Secretary</i></p> <p>06/03/2019</p> |



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

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><b>Robert J. Folliard , III</b><br/>.<br/><i>Assistant Secretary</i></p> <p>06/03/2019</p> |

## Attachments