

Federal Communications Commission

| ications<br>sion | (REFERENCE C<br>FCC Form |              | Ibmission) | )       |          |  |
|------------------|--------------------------|--------------|------------|---------|----------|--|
|                  | Reimburs                 | ement Re     | quest      |         |          |  |
|                  | Facility 190915          | Service: DCA | Call       | WSVF-CD | Channel: |  |
|                  | ID:                      |              | Sign:      |         |          |  |
|                  | 36 (UHF) File            | 00000286     | 691        |         |          |  |
|                  | Numl                     | per:         |            |         |          |  |
|                  | FRN: 0018223693          | Date         | 09/15      |         |          |  |
|                  |                          | Submitted:   | /2018      |         |          |  |

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

#### Applicant Information

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

#### Reimbursement Contact Name and Information Reimbursement Contact Information

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

# Preparer Preparer Contact Name and Information

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

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

# Primary Existing Transmitter Information

| Filliary   |   |
|------------|---|
| Transmitte | E |

| smitter | Section                             | Question   | Response           |
|---------|-------------------------------------|--|--------------------|
|         | Existing Transmitter<br>Description | Type of change   | Retune<br>Existing |
|         |                                     | Use  | Primary<br>(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   | Harris             |
|         | Manufacturer and Type               | Model  | UAX2000            |

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

#### Primary Transmitter Section

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

# Primary Other Transmitter Costs

| • |   | •• | ••• |   | ۰. | ,  |    |   |
|---|---|----|-----|---|----|----|----|---|
| T | r | a  | n   | S | n  | ni | tt | e |

| er Sec | tion            | Question   | Response |
|--------|-----------------|--|----------|
| Ele    | ctrical Service | Service Entrance (3 phases 800A 208V)                  | No       |
|        |                 | Switchgear (industrial 800 amp)                        | No       |
|        |                 | Transformer (480V)                                     | No       |
|        |                 | Power  | N/A      |
|        |                 | Rigid Conduit and Wiring                               | No       |
|        |                 | Size   | N/A      |
|        |                 | Length   | N/A      |
|        |                 | Other Electrical Service                               | No       |
|        |                 | Description  | N/A      |
| HV     | AC Service      | Does the replacement transmitter require HVAC Service? | No       |
|        |                 | Туре   | N/A      |
|        |                 |  | 1        |

|   | 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 Other Transmitter Cost Not Listed

Transmitter Information not provided.

# Interim New Transmitter Costs

| Transmitter | Section         | Question                          | Response   |
|-------------|-----------------|-----------------------------------|--|
|             | New Transmitter | 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<br>transmitter<br>while main<br>is being<br>retuned. |

| Interim     | Other Transmitter Costs  |  |  |  |
|-------------|--|--|--|--|
| Transmitter | Section  | Question   | Response   |  |
|             | Electrical Service   | Service Entrance (3 phases 800A 208V)  | No   |  |
|             |  | Switchgear (industrial 800 amp)  | No   |  |
|             |  | Transformer (480V)   | No   |  |
|             |  | Power  | N/A  |  |
|             |  | Rigid Conduit and Wiring   | No   |  |
|             |  | Size   | N/A  |  |
|             |  | Length   | N/A  |  |
|             |  | Other Electrical Service   | Yes  |  |
|             |  | Description  | The new<br>transmitter will<br>require<br>reconfiguration<br>of the<br>electrical<br>service on<br>site. The<br>electrical work<br>cost has been<br>estimated<br>based on<br>verbal<br>guidance from<br>local electrical<br>contractors. |  |
|             | HVAC Service   | Does the replacement transmitter require HVAC Service?                                       | No   |  |
|             |  | Туре   | N/A  |  |
|             | Transmitter Building<br>Addition/Modification<br>or Leasehold<br>Improvement | Size   | N/A  |  |
|             |  | Other Size   | N/A  |  |
|             |  | 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 |
| Inside RF System | Is an additional interior RF system required to support this interim transmitter? | No  |

| Interim     | Other Transmitter Cost Not Listed |   |  |
|-------------|-----------------------------------|---|--|
| Transmitter | Name                              | Description                             |  |
|             | HVAC                              | Additional HVAC for interim transmitter |  |

| Intennas Section Question |               | Response                              |     |
|---------------------------|---------------|---------------------------------------|-----|
| Antenna Rela              | ated Expenses | Do you have antenna related expenses? | Yes |

| Primary | Existing Antenna Information    |  |                    |  |
|---------|---------------------------------|--|--------------------|--|
| Antenna | Section                         | Question   | Response           |  |
|         | Existing Antenna<br>Description | 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                |  |
|         | Existing Antenna                | Class  | Class A            |  |
|         | Manufacturer and Type           | Mounting   | Side Mount         |  |
|         |                                 | Antenna position in stack  | Not in Stack       |  |
|         |                                 | Polarization   | Horizontal         |  |
|         |                                 | Туре   | 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)                                  | 13.0 kW            |  |

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

| Primary | New Antenna Costs                     |  |                    |  |
|---------|---------------------------------------|--|--------------------|--|
| Antenna | Section                               | Question   | Response           |  |
|         | New Antenna Description               | Use  | Primary<br>(Main)  |  |
|         |                                       | Description of Use   | N/A                |  |
|         |                                       | Change Type  | Purchase<br>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                |  |
|         | New Antenna<br>Manufacturer and Types | Class  | Class A            |  |
|         |                                       | Mounting   | Side Mount         |  |
|         |                                       | Antenna position in stack  | Not in Stack       |  |
|         |                                       | Polarization   | Horizontal         |  |
|         |                                       | Туре   | Slotted<br>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)                                      | 13.0 kW            |  |
|         |                                       | Manufacturer   |                    |  |
|         |                                       | Model  | AL80-36            |  |
|         |                                       |  |                    |  |

| Year                          |
|-------------------------------|
| Justification for New Antenna |

| Primary | Other Antenna Costs            |   |          |  |
|---------|--------------------------------|---|----------|--|
| Antenna | 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   | N/A      |  |
|         |                                | Do you need a combiner output splitter /switcher for dual feed lines?                                       | N/A      |  |
|         | Elbow Complex                  | Do you require the separate purchase of the Elbow Complex?  | No       |  |
|         |                                | Broadband or Single Channel?  | N/A      |  |
|         |                                | Feed Line Size  | N/A      |  |
|         | Side Mount Brackets            | Do you require the separate purchase of side mount brackets for a high power antenna?                       | No       |  |
|         | Pattern Scatter Analysis       | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | No       |  |
|         | Sweep Test                     | Do you require the sweep testing of transmission line and antenna?  | No       |  |

#### **Other Antenna Costs**

Primary Antenna Other Antenna Cost Not Listed

| Transmissior | n Seffien                             | Question  | Response |
|--------------|---------------------------------------|---|----------|
|              | Transmission Line<br>Related Expenses | Do you have transmission line related expenses? | Yes      |

# Add Transmission Line Transmission Line

| nsmissio | n Line<br>Section                         | Question   | Response            |
|----------|---|--|---------------------|
|          | Existing Transmission<br>Line Description | Type of change   | Utilize<br>Existing |
|          |   | Use  | Primary<br>(Main)   |
|          |   | Description of Use   | N/A                 |
|          |   | Ownership  | Owned               |
|          |   | Owner  | N/A                 |
|          |   | Site   | N/A                 |
|          |   | Is this transmission currently shared with any other stations? | No                  |
|          |   | Is Transmission Line in operating condition?                   | Yes                 |
|          | Existing Transmission                     | Manufacturer   | Andrew              |
|          | Line Manufacturer and<br>Type             | Туре   | Flexible<br>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<br>per run |

## Other Transmission Line Expenses Not Listed Transmission to provided.

| Primary     | Existing Transmission Line                             |  |                     |  |
|-------------|--|--|---------------------|--|
| Transmissio | n Section  | Question   | Response            |  |
|             | Existing Transmission<br>Line Description              | Type of change   | Utilize<br>Existing |  |
|             |  | Use  | Primary<br>(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<br>Line Manufacturer and<br>Type | Manufacturer   | Andrew              |  |
|             |  | Туре   | Flexible<br>Foam    |  |
|             |  | Diameter   | 1 5/8<br>inches     |  |
|             |  | Other Diameter   | N/A                 |  |
|             |  | Segment Length   | N/A                 |  |
|             |  | Other Segment Length   | N/A                 |  |
|             |  | Number of parallel runs  | 1                   |  |
|             |  | Length   | 164 feet<br>per run |  |

Other Transmission Line Expenses Not Listed Transmission to provided.

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

Other Transmission Line Expenses Not Listed Transmission

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

| Primary | Existing Tower |
|---------|----------------|
|         |                |

| Primary | -   |   |                      |
|---------|---|---|----------------------|
| Tower   | Section   | Question  | Response             |
|         | Existing Tower<br>Description                   | Type of change  | Modify<br>Existing   |
|         |   | Tower Use   | Primary<br>(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<br>Registration        | Do you have a tower registration number?                | No                   |
|         | Registration                                    | ASR Number  |                      |
|         | Coordinates (NAD83 (<br>North American Datum of | Latitude (NAD83)  | 38° 23'<br>34.4" N-  |
|         | 1983))  | Longitude (NAD83)                                       | 078° 46'<br>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 -<br>Free<br>Standing or<br>Guyed<br>Structure |
|--|------------------|--|
|  | Tower Owner      | Rockingham<br>County, VA                             |
|  | Date Constructed | 01/01/1979   |

#### **Other Types of Users**

Users

misc unlicensed

**Emergency Radio** 

WVIR TV Trans

# Primary Tower Modification Costs

### Tower

Tower

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

# Primary Tower Rigging Costs

# SectionQuestionResponseTower Rigging CostsComplex TowerCandelabraHelicopter Services<br/>RequiredAre helicopter services required?No

#### Other Tower Expenses Not Listed

| Primary | C |
|---------|---|
| Tower   | r |

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

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

|                                  | Prepare request for Special Temporary<br>Authority   | Yes                     |
|----------------------------------|--|-------------------------|
|                                  | Quantity   | 1                       |
|                                  | NEPA Section 106 environmental review  | No                      |
|                                  | Environmental Assessment   | No                      |
|                                  | ASR Modification   | No                      |
|                                  | FAA Consultation (including preparation of FAA Form 7460)                                  | No                      |
|                                  | Negotiation of Lease and other Matter for Shared Locations                                 | Yes                     |
|                                  | Prepare or Review FCC Form 399 for Reimbursement   | Yes                     |
|                                  | Address transition timing and coordination issues w/ other stations and wireless providers | Yes                     |
| RF Field Engineering<br>Services | Comprehensive coverage verification via field study  | No                      |
|                                  | RF exposure measurements   | No                      |
|                                  | Additional Field Engineering Service   | Yes                     |
|                                  | Number of Days   | 5                       |
|                                  | Justification  | Yes. NRAO<br>Compliance |

Outside Other Professional Services Expenses Not Listed Professional Services roopstsided.

| Other    | Section                         | Question   | Response |
|----------|---------------------------------|--|----------|
| Expenses | 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   | Yes      |
|          |                                 | BLM or NFS Coordination  | No       |
|          |                                 | FCC Construction Permit Minor Change   | No       |
|          |                                 | FCC License to Cover Application   | Yes      |
|          |                                 | FCC Special Temporary Authority<br>Application   | Yes      |
|          | Other Miscellaneous<br>Expenses | Does this relocation require paying<br>Disposal Costs (for equipment and other<br>waste, net of any salvage value)?        | No       |
|          |                                 | Does this relocation require Equipment<br>Delivery or Handling Charges not otherwise<br>included in individual item costs? | Yes      |
|          |                                 | Does this relocation require Equipment Storage?  | Yes      |
|          |                                 | Does this relocation require the<br>Development and Airing of an<br>Announcement regarding an upcoming<br>channel change?  | Yes      |
|          |                                 | Does this relocation require MVPD<br>Notification of a Channel Change?   | Yes      |

# Other Expenses Not Listed

**Expenses** Information not provided.

#### Transmitters

#### Cost Information

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

|   | _                              |                   | Estimated   |                |                              |
|---|--------------------------------|-------------------|---|----------------|------------------------------|
| Description   | Predetermined<br>Cost Estimate | Estimated<br>Cost | Cost<br>Justification                                     | Actual<br>Cost | Actual Cost<br>Justification |
| Interim<br>Transmitter<br>UAXT-3R37   | \$136,000.00                   | \$57,664.00       |   | \$0.00         |                              |
| HVAC  | \$5,000.00                     | \$5,000.00        | N/A   | N/A            | N/A                          |
| UHF - Air<br>Cooled Solid<br>State<br>Transmitter 1 -<br>2.5 kW   | \$126,000.00                   | \$47,664.00       | Rental<br>while the<br>transmitter<br>is being<br>retuned | N/A            | N/A                          |
| Other<br>Electrical<br>Service: The<br>new<br>transmitter will<br>require<br>reconfiguration<br>of the<br>electrical<br>service on<br>site. The<br>electrical work<br>cost has been<br>estimated<br>based on<br>verbal<br>guidance from<br>local electrical<br>contractors. | \$5,000.00                     | \$5,000.00        | N/A   | N/A            | N/A                          |
| Primary<br>Transmitter<br>UAX2000   | \$110,556.70                   | \$17,556.60       |   | \$0.00         |                              |
| Other 2.5 kW<br>mask filter   | \$5,356.70                     | \$5,356.70        | See<br>attached<br>GatesAir<br>quote GA-<br>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 |
|--|----------------|--------------|-----|-------------|-----|
| Sub-total                                | \$246,556.70   | \$75,220.60  | N/A | \$0.00      | N/A |
| Total for all systems                    | \$1,083,584.70 | \$515,584.60 | N/A | \$35,384.85 | N/A |

#### Components

#### Antennas

#### Cost Information

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 systems   | \$1,083,584.70                 | \$515,584.60      | N/A                                | \$35,384.85    | N/A                          |

#### Components

#### **Transmission Line**

#### Cost Information

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

| Description  | Predetermined<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 systems  | \$1,083,584.70                 | \$515,584.60      | N/A                                | \$35,384.85    | N/A                          |

#### Components

#### **Tower Equipment and Rigging Costs**

#### Cost Information

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

| Description   | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification                       | Actual<br>Cost | Actual Cost<br>Justification |
|---|--------------------------------|-------------------|--|----------------|------------------------------|
| Primary<br>Tower<br>TOWER   | \$618,160.00                   | \$262,960.00      |  | \$0.00         |                              |
| Moving<br>Equipment   | \$26,560.00                    | \$26,560.00       | See<br>attached<br>Shenandoah<br>Tower quote<br>B17-1358 | N/A            | N/A                          |
| Structural<br>engineering<br>tower load<br>study for well<br>documented<br>tower                              | \$12,600.00                    | \$6,400.00        | N/A  | N/A            | N/A                          |
| Complex<br>Tower<br>(includes, for<br>example,<br>those with<br>candelabras<br>and/or<br>stacked<br>antennas) | \$421,000.00                   | \$80,000.00       | Short tower<br>with<br>candelabra<br>on top              | N/A            | N/A                          |
| Minor tower<br>reinforcement<br>/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  | \$35,384.85    | N/A                          |

#### Components

#### **Outside Professional Services**

#### Cost Information

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

| Description  | Predetermined<br>Cost Estimate | Estimated<br>Cost | Estimated<br>Cost<br>Justification | Actual<br>Cost | Actual Cost<br>Justification |
|--|--------------------------------|-------------------|------------------------------------|----------------|------------------------------|
| Outside<br>Professional<br>Services  | \$152,416.00                   | \$142,550.00      |                                    | \$35,384.85    |                              |
| Perform<br>engineering<br>study for new<br>channel<br>assignment<br>and antenna<br>development | \$7,360.00                     | \$7,000.00        | N/A                                | \$3,812.50     | N/A                          |
| Project<br>management<br>of the transition   | \$112,496.00                   | \$106,800.00      | N/A                                | \$30,350.85    | N/A                          |
| Additional<br>Field<br>Engineering<br>Service, 5<br>Days                                       | \$5,000.00                     | \$5,000.00        | N/A                                | N/A            | N/A                          |
| Attorney Fees<br>- Prepare and<br>File request<br>for Special<br>Temporary<br>Authorization    | \$3,680.00                     | \$3,500.00        | N/A                                | N/A            | N/A                          |
| Attorney Fees<br>- Negotiation<br>of lease and<br>other matters<br>for shared<br>locations     | \$4,210.00                     | \$2,000.00        | N/A                                | N/A            | N/A                          |

| Attorney Fees -<br>Prepare and<br>File FCC Form<br>2100 (main),<br>License to<br>Cover<br>Application     | \$2,365.00 | \$2,250.00 | N/A | N/A        | N/A |
|---|------------|------------|-----|------------|-----|
| Attorney Fees<br>- Prepare and<br>File FCC Form<br>2100 (main),<br>Construction<br>Permit<br>Application  | \$5,260.00 | \$5,000.00 | N/A | \$196.50   | N/A |
| Prepare<br>request for<br>Special<br>Temporary<br>Authorization   | \$2,050.00 | \$1,500.00 | N/A | N/A        | N/A |
| Prepare<br>engineering<br>section of FCC<br>Form 2100<br>(main),<br>License to<br>Cover<br>Application    | \$1,580.00 | \$1,500.00 | N/A | N/A        | N/A |
| Prepare<br>engineering<br>section of FCC<br>Form 2100<br>(main),<br>Construction<br>Permit<br>Application | \$3,155.00 | \$3,000.00 | N/A | \$1,025.00 | N/A |
| Address<br>transition<br>timing and<br>coordination<br>issues w/<br>other stations<br>and wireless        | \$2,630.00 | \$2,500.00 | N/A | N/A        | N/A |

| Prepare and<br>or review<br>reimbursement<br>form | \$2,630.00     | \$2,500.00   | N/A | N/A         | N/A |
|---|----------------|--------------|-----|-------------|-----|
| Sub-total   | \$152,416.00   | \$142,550.00 | N/A | \$35,384.85 | N/A |
| Total for all systems                             | \$1,083,584.70 | \$515,584.60 | N/A | \$35,384.85 | N/A |

#### Components

| Actual Information<br>Description   | File Name              |   |
|---|------------------------|---|
| Perform engineering study<br>for new channel<br>assignment and antenna<br>development | Component Description: | Provide NRAO<br>Quiet Zone<br>interference office<br>with specifications<br>of substitute<br>directional antenna  |
|   | Amount:                | \$550.00  |
|   | Component Description: | Engineering for<br>statement of<br>consent application<br>/new channel study  |
|   | Amount:                | \$1,562.50  |
|   | Component Description: | Respond to query<br>from NRAO Quiet<br>Zone interference<br>office for add'l detail<br>of 11.4 kW 90 day<br>facility. On receipt<br>from NRAO,<br>prepare<br>amendment to<br>pending 90 day |
|   | Amount:                | FCC CP application.<br>\$437.50   |
|   |                        |   |

|                                      | Component Description:<br>Amount: | Perform<br>engineering study<br>for new channel<br>assignment<br>\$325.00  |
|--------------------------------------|-----------------------------------|--|
|                                      | Component Description:<br>Amount: | Perform<br>engineering study<br>for new channel<br>assignment<br>\$250.00  |
|                                      | Component Description:            | Review<br>correspondence re:<br>predicted<br>interference to 11<br>GHz microwave<br>system from Rural<br>Broadband<br>application,<br>facilitate<br>interference<br>analysis, discuss<br>with counsel, assist<br>with prep of<br>objections.<br>\$687.50 |
| Project management of the transition | Component Description:<br>Amount: | Project<br>Management<br>\$988.95  |
|                                      | Component Description:<br>Amount: | Project<br>Management<br>\$1,743.75  |
|                                      | Component Description:<br>Amount: | Project<br>Management<br>\$1,938.10  |

**Component Description:** Project management \$2,614.40 Amount: **Component Description:** Project Management Amount: \$1,328.55 **Component Description:** Project Management Amount: \$1,697.55 **Component Description:** Project Management \$2,406.05 Amount: **Component Description:** Transition Related Project Management Costs Amount: \$1,500.00 **Component Description:** Project Management \$1,863.20 Amount: **Component Description:** Project Management Amount: \$1,958.85 **Component Description:** Project management Amount: \$2,592.65 **Component Description:** Project Management Amount: \$2,017.75

|   | Component Description:<br>Amount: | Project<br>Management<br>\$802.25   |
|---|-----------------------------------|-------------------------------------|
|   | Component Description:<br>Amount: | Project<br>Management<br>\$2,262.90 |
|   | Component Description:<br>Amount: | Project<br>Management<br>\$2,176.30 |
|   | Component Description:<br>Amount: | Project<br>Management<br>\$28.20    |
|   | Component Description:<br>Amount: | Project<br>Management<br>\$733.30   |
|   | Component Description:<br>Amount: | Project<br>Management<br>\$1,698.10 |
| Additional Field<br>Engineering Service, 5<br>Days                                    | Information not provided.         |                                     |
| Attorney Fees - Prepare<br>and File request for<br>Special Temporary<br>Authorization | Information not provided.         |                                     |
| Attorney Fees -<br>Negotiation of lease and<br>other matters for shared<br>locations  | Information not provided.         |                                     |

| Attorney Fees -Prepare<br>and File FCC Form 2100<br>(main), License to Cover<br>Application     | Information not provided.         |   |
|---|-----------------------------------|---|
| Attorney Fees - Prepare<br>and File FCC Form 2100<br>(main), Construction<br>Permit Application | Component Description:<br>Amount: | Professional<br>services: complete<br>and file Repack<br>Application for<br>WSVF-CD<br>\$196.50 |
| Prepare request for<br>Special Temporary<br>Authorization                                       | Information not provided.         |   |
| Prepare engineering<br>section of FCC Form 2100<br>(main), License to Cover<br>Application      | Information not provided.         |   |
| Prepare engineering<br>section of FCC Form 2100<br>(main), Construction<br>Permit Application   | Component Description:<br>Amount: | Perform<br>engineering and<br>develop exhibits fo<br>CP application<br>\$1,025.00               |
| Address transition timing<br>and coordination issues w/<br>other stations and wireless          | Information not provided.         |   |
| Prepare and or review reimbursement form  | Information not provided.         |   |

#### **Other Expenses**

#### Cost Information

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

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

| Sub-total             | \$32,280.00    | \$23,470.00  | N/A | \$0.00      | N/A |
|-----------------------|----------------|--------------|-----|-------------|-----|
| Total for all systems | \$1,083,584.70 | \$515,584.60 | N/A | \$35,384.85 | N/A |

#### Components

| Grand Total           |                                |                                |   |  |
|-----------------------|--------------------------------|--------------------------------|---|--|
|                       | Predetermined<br>Cost Estimate | Estimated Cost                 | Actual Cost                                   |  |
| Total for all systems | \$1,083,584.70                 | \$515,584.60                   | \$35,384.85                                   |  |
|                       |                                | Predetermined<br>Cost Estimate | Predetermined<br>Cost Estimate Estimated Cost |  |

| Reimbursem | entestatus   | 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<br>submitted no further costs are expected to<br>be incurred. Note this will lock the Form 399<br>from further editing and begin close-out<br>procedures with the Fund Administrator. | No       |

| Certification | Section  | Question  | Response |
|---------------|--|---|----------|
|               | Submission of Estimated<br>Expenses Statements | WILLFUL FALSE STATEMENTS ON THIS<br>FORM ARE PUNISHABLE BY FINE AND<br>/OR IMPRISONMENT (U.S. CODE, TITLE<br>18, SECTION 1001), AND/OR<br>REVOCATION OF ANY STATION<br>LICENSE OR CONSTRUCTION PERMIT<br>(U.S. CODE, TITLE 47, SECTION 312(a)<br>(1), AND/OR FORFEITURE (U.S. CODE,<br>TITLE 47, SECTION 503), AND ANY<br>FALSE STATEMENTS COULD SUBJECT<br>THIS ENTITY TO LIABILITY UNDER THE<br>FALSE CLAIMS ACT. |          |
|               |  | <ol> <li>The Authorized<br/>Person signing<br/>below certifies that he<br/>/she is authorized to<br/>submit this TV<br/>Broadcaster<br/>Relocation Fund<br/>Reimbursement<br/>Form on behalf of<br/>the above-named<br/>entity.</li> <li>The above-named</li> </ol>   |          |
|               |  | entity acknowledges<br>that all certifications<br>and attached<br>documentation are<br>considered material<br>representations.  |          |
|               |  | 3. The above-named<br>entity acknowledges<br>the submission of the<br>information herein<br>creates no obligation<br>on the part of the<br>government to pay<br>any amount.   |          |
|               |  |   |          |

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

| 8. The above-named<br>entity certifies that it<br>is in full compliance<br>with all statutes,<br>rules, regulations<br>and governmental<br>requirements for<br>which compliance is<br>a pre-requisite for<br>obtaining the<br>payments herein<br>requested. |  |
|---|--|
| I declare, under penalty of perjury, that I am<br>an authorized representative of the above-<br>named applicant for the Authorization(s)<br>specified above.  | Robert<br>Folliard<br>Assistant<br>Secretary<br>09/15/2018 |

| Certification | Section  | Question   | Response |
|---------------|--|--|----------|
|               | Submission of Actual<br>Cost Documentation<br>Statements | WILLFUL FALSE, FRAUDULENT, OR<br>FICTITIOUS STATEMENTS ON THIS<br>FORM ARE PUNISHABLE BY FINE AND<br>/OR IMPRISIONMENT (U.S. CODE, TITLE<br>18, SECTION 1001), AND/OR<br>REVOCATION OF ANY STATION<br>LICENSE OR CONSTRUCTION PERMIT<br>(U.S. CODE, TITLE 47, SECTION 312(a)<br>(1), AND/OR FORFEITURE (U.S. CODE,<br>TITLE 47, SECTION 503), AND ANY<br>FALSE AND/OR FRAUDULENT<br>STATEMENTS COULD SUBJECT THIS<br>ENTITY TO LIABILITY UNDER THE<br>FALSE CLAIMS ACT (U.S. CODE, TITLE<br>31, SECTIONS 3729-3733). |          |
|               |  | <ol> <li>The Authorized<br/>Person signing<br/>below certifies and<br/>represents that he<br/>/she is authorized to<br/>submit this TV<br/>Broadcaster<br/>Relocation Fund<br/>Reimbursement<br/>Form on behalf of<br/>the above-named<br/>entity.</li> </ol>  |          |
|               |  | 2. The above-named<br>entity certifies that<br>the statements in this<br>form and attached<br>documentation are<br>true, complete, and<br>correct.   |          |
|               |  | 3. The above-named<br>entity acknowledges<br>that all certifications<br>and attached<br>documentation are<br>considered material<br>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).
- 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.

|               | The above-named<br>entity acknowledges<br>that overpayments or<br>payments in error<br>must be promptly<br>refunded to the<br>Commission.<br>The above-named<br>entity certifies that it<br>is in full compliance<br>with all statutes,<br>rules, regulations<br>and governmental<br>requirements for<br>which compliance is<br>a prerequisite for<br>obtaining the<br>payments herein<br>requested. |  |
|---------------|--|--|
| an au<br>name | are, under penalty of perjury, that I am<br>thorized representative of the above-<br>d applicant for the Authorization(s)<br>ied above.  | Robert<br>Folliard<br>Assistant<br>Secretary |
|               |  | 09/15/2018                                   |

#### Attachments