Approved by OMB (Office of Management and Budget) 3060-1178

Federal Communications Commission

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility ID: **73136** | Service: **DTV** | Call Sign: **WJHG-TV** | Channel: **16 (UHF)**

File Number: **0000028739**

FRN: **0018223693** | Date Submitted: **12/27/2017**

## Applicant Information

### Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|---|---|---|---|---|
| **GRAY TELEVISION LICENSEE, LLC**<br>Doing Business As: GRAY TELEVISION LICENSEE, LLC | Robert Folliard<br>4370 Peachtree Road<br>Atlanta, GA 30319<br>United States | +1 (202) 750-1585 | 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 |
|---|---|---|---|
| **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 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 | See attached narrative |

## 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 | GatesAir |
| | Model | Maxiva ULXT-80AT UHV |
| | Year | 2014 |
| | | |

| | | |
|---|---|---|
| | Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 54.8 kW |

**Primary Transmitter**

### Retuning Transmitter Costs

| Section | Question | Response |
|---|---|---|
| **New IOT Tubes** | Number of Tubes (including accessories) needed | N/A |
| **New Mask Filter** | Power | Other |
| | Other Power | 50 kW |
| **New Exciter** | Is a new exciter needed? | No |

**Primary Transmitter**

### Other Transmitter Costs

| Section | Question | Response |
|---|---|---|
| **Electrical Service** | Service Entrance (3 phases 800A 208V) | No |
| | Switchgear (industrial 800 amp) | No |
| | Transformer (480V) | No |
| | Power | N/A |
| | Rigid Conduit and Wiring | No |
| | Size | N/A |
| | Length | N/A |
| | Other Electrical Service | No |
| | Description | N/A |
| **HVAC Service** | Does the replacement transmitter require HVAC Service? | No |
| | Type | N/A |
| | Size | N/A |

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

## Primary Transmitter

### Other Transmitter Cost Not Listed

Information not provided.

## Interim Transmitter

### New Transmitter Costs

| Section | Question | Response |
|---|---|---|
| **New Transmitter** | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase |
| | Manufacturer | |
| | Model | ULXTE-12 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 6.46 kW |

| | | |
|---|---|---|
| | Justification for New Transmitter | Interim transmitter installed at the alternate transmitter site needed to continue broadcasting through the transition period |

## Interim Transmitter

### Other Transmitter Costs

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

| | | |
|---|---|---|
| **HVAC Service** | Does the replacement transmitter require HVAC Service? | No |
| | Type | N/A |
| | Size | N/A |
| | Other Size | N/A |
| **Transmitter Building Addition/Modification or Leasehold Improvement** | Does the Transmitter Building require an addition, modification, other 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 Transmitter

### Other Transmitter Cost Not Listed

| Name | Description |
|---|---|
| **Microwave Radios** | STL Extension to alternate transmitter site |
| **Monitoring** | Monitoring for Interim transmitter |
| **Concrete Slab** | 10'x10' Slab |
| **Generator Repairs** | It needs to be repaired |
| **Microwave Components** | Microwave Dishes, Line, etc. |

## Antennas

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

## Primary Antenna

### Existing Antenna Information

| Section | Question | Response |
|---|---|---|
| **Existing Antenna Description** | Type of change | Purchase New |
| | Antenna Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is the existing antenna shared with another station or stations? | No |
| | Is the existing antenna directional? | Yes |
| | Is antenna in operating condition? | Yes |
| | Is antenna located on or in close proximity to an antenna farm? | No |
| **Existing Antenna Manufacturer and Type** | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Elliptical |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels | N/A |
| | Design power capacity in use | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 1000.0 kW |
| | | |

| | |
|---|---|
| Manufacturer | |
| Model | TFU-28JSC<br>/VP-R<br>4C140 D18 |
| Year | 2014 |

## Primary Antenna

### New Antenna Costs

| Section | Question | Response |
|---|---|---|
| **New Antenna Description** | 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? | Yes |
| | Will antenna be located on or in close proximity to an antenna farm? | No |
| **New Antenna Manufacturer and Types** | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Elliptical |
| | 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) | 1000.0 kW |
| | Manufacturer | |

| | | |
|---|---|---|
| | Model | TFU-28JSC /VP-R C140 |
| | Year | 2017 |
| | Justification for New Antenna | The existing antenna is for channel 18 only and will not work for the designated re-pack channel 16. |

## Primary Antenna

### Other Antenna Costs

| Section | Question | Response |
|---|---|---|
| **Combiner for Shared Antenna** | Do you need a Combiner for a Shared Antenna? | No |
| | Type | |
| | Number of channels supported | N/A |
| | Frequencies of channels supported | N/A |
| | Frequency | N/A |
| | Do you need a combiner output splitter /switcher for dual feed lines? | N/A |
| **Elbow Complex** | Do you require the separate purchase of the Elbow Complex? | Yes |
| | Broadband or Single Channel? | Single Channel |
| | Feed Line Size | 6 1/8 inches inches |
| **Side Mount Brackets** | Do you require the separate purchase of side mount brackets for a high power antenna? | Yes |

| | | |
|---|---|---|
| **Pattern Scatter Analysis** | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | No |
| **Sweep Test** | Do you require the sweep testing of transmission line and antenna? | Yes |

## Primary Antenna

### Other Antenna Cost Not Listed

Information not provided.

## Interim Antenna

### New Antenna Costs

| Section | Question | Response |
|---|---|---|
| **New Antenna Description** | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | No |
| | Is antenna directional? | Yes |
| | Will antenna be located on or in close proximity to an antenna farm? | No |
| **New Antenna Manufacturer and Type** | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Horizontal |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels/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) | 72.0 kW |
| | Manufacturer | |
| | Model | TVP16B |
| | Year | 2017 |

| | | |
|---|---|---|
| | Justification for New Antenna | Interim antenna needed to continue broadcasting through the transition period |

**Interim Antenna**

### Other Antenna Costs

| Section | Question | Response |
|---|---|---|
| **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 an antenna? | Yes |
| **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? | Yes |

**Interim 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

### Existing Transmission Line

| Section | Question | Response |
|---|---|---|
| **Existing Transmission Line Description** | Type of change | Purchase New |
| | Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is 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 | |
| | Type | Rigid |
| | Diameter | 6 1/8 inches |
| | Other Diameter | N/A |
| | Segment Length | 20 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1400 feet per run |

## Primary Transmission Line

### New Transmission Line

| Section | Question | Response |
|---|---|---|
| **New Transmission Line Costs** | Use | Primary (Main) |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | No |
| | Type | Rigid |
| | Diameter | 6 1/8 inches |
| | Other Diameter | N/A |
| | Segment Length | 19 1/2 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1400 feet per run |
| | Justification for New Transmission Line | Sweep on existing line measured 490.460 MHz. Channel 16 needs to be within the range of 482 MHz and 488 MHz, line must be replaced. |

## Primary Transmission Line

### Other Transmission Line Expenses Not Listed

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 Air |
| | Diameter | 3 inches |
| | Segment Length | N/A |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 825 feet per run |
| | Justification for New Transmission Line | Performed Line Sweep on existing 4" Rigid Line and it measured 490 MHz. The range for Channel 16 is 482 MHz - 488 MHz. |

## Interim Transmission Line

### Other Transmission Line Expenses Not Listed

| Name | Description |
|---|---|
| **Sweep Existing Transmission Line** | Sweep test of existing transmission line to determine if it is suitable for use |

## Tower Equipment And Rigging Costs

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

## Auxiliary Tower

### Add Tower

| Section | Question | Response |
|---|---|---|
| **Existing Tower Description** | Type of change | Modify Existing |
| | Tower Use | Auxiliary (Backup) |
| | Description of Use | Alternate Tower Site |
| | Ownership | Owned |
| | Is this tower consider Complex? | No |
| | Is this tower currently shared with any other stations? | Yes |
| | One or more FM, AM or TV radio broadcaster(s) | No |
| | Others Types of Users | Yes |
| | Is tower documented for structural analysis? | No |
| | 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) | 30° 26' 00.1" N- |
| | Longitude (NAD83) | 085° 24' 51.0" W- |
| | Overall Structure Height | 1499.98 feet |
| | Support Structure Height | 1499.98 feet |

| | |
|---|---|
| Ground Elevation Above Mean Sea Level (AMSL) | 138.12 feet |
| Structure Type | TOWER - Free Standing or Guyed Structure |
| Tower Owner | Gray Television Group, Inc. |
| Date Constructed | 01/01/1962 |

### Other Types of Users

| Users |
|---|
| US Customs |

**Auxiliary Tower**

### Tower Modification Costs

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

**Auxiliary Tower**

### Tower Rigging Costs

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

## Auxiliary Tower

### Other Tower Expenses Not Listed

Information not provided.

## 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? | No |
| | Is this tower currently shared with any other stations? | Yes |
| | One or more FM, AM or TV radio broadcaster(s) | Yes |
| | Others Types of Users | Yes |
| | Is tower documented for structural analysis? | Yes |
| | Is tower compliant with Rev G? | Yes |
| **Existing Tower Structure Registration** | Do you have a tower registration number? | Yes |
| | ASR Number | 1043251 |
| **Coordinates (NAD83 ( North American Datum of 1983))** | Latitude (NAD83) | 30° 21' 09.0" N- |
| | Longitude (NAD83) | 085° 23' 28.0" W- |
| | Overall Structure Height | 1465.53 feet |
| | Support Structure Height | 1403.20 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 78.74 feet |
| | Structure Type | TOWER - Free Standing or Guyed Structure |

| | |
|---|---|
| Tower Owner | Nexstar Broadcasting, Inc. |
| Date Constructed | 08/01/1990 |

### FM, AM or TV radio broadcasters. Facility ID's, Call Signs and Services of other broadcast stations with whom the tower is shared

| Facility ID | Call Sign | Service |
|---|---|---|
| 42372 | WPFM | FM |
| 66398 | WMBB | DTV |

### Other Types of Users

| Users |
|---|
| Verizon |

**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: | Major Reinforcements needed |

**Primary Tower**

### Tower Rigging Costs

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

**Primary Tower**

## Other Tower Expenses Not Listed

| Name | Description |
| --- | --- |
| **Microwave Installation** | Installation of Microwave Gear on towers |

## Outside Professional Services Costs

| Section | Question | Response |
|---|---|---|
| **Outside Project Management Services** | Do you require outside project management services? | Yes |
| | Number of Hours | 900 |
| | Explanation | Strategic Support |
| **Outside RF consulting Engineering Services** | Perform engineering study for new channel assignment and antenna development | Yes |
| | Prepare engineering section of Form FCC Construction Permit Application | Yes |
| | For Auxiliary Facility | 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 |
| **Attorney and Other Outside Consulting Services** | 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 | No |
| | Prepare or Review FCC Form 399 for Reimbursement | Yes |
| | Address transition timing and coordination issues w/ other stations and wireless providers | Yes |
| **RF Field Engineering Services** | Comprehensive coverage verification via field study | No |
| | RF exposure measurements | No |
| | Additional Field Engineering Service | No |
| | Number of Days | N/A |
| | Justification | N/A |

## Outside Professional Services Costs

### Other Professional Services Expenses Not Listed

Information not provided.

## Other Expenses

| Section | Question | Response |
|---|---|---|
| **AM Pattern Disturbance** | Is an Impact Study needed? | No |
| | Is Remediation needed? | No |
| **Facility Expenses** | Name | N/A |
| | Other Distributed Transmission System Expenses Not listed | N/A |
| | Name | N/A |
| | Is Notification of a Medical Facility required as a result of DTV broadcasting? | Yes |
| **Permit and Filing Costs** | Local Zoning | No |
| | Non-zoning permits | No |
| | BLM or NFS Coordination | No |
| | FCC Construction Permit Minor Change | Yes |
| | FCC License to Cover Application | Yes |
| | FCC Special Temporary Authority Application | Yes |
| **Other Miscellaneous Expenses** | Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)? | Yes |
| | Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs? | Yes |
| | Does this relocation require Equipment Storage? | Yes |
| | Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change? | Yes |
| | Does this relocation require MVPD Notification of a Channel Change? | Yes |

## Other Expenses

### Other Expenses Not Listed

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 |
|---|---|---|---|---|---|
| **Interim Transmitter ULXTE-12** | **$420,333.26** | **$449,198.36** | | **$0.00** | |
| UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW | $273,500.00 | $302,365.10 | Quote: GA-00022137 | 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. | ***$2,000.00*** | $2,000.00 | N/A | N/A | N/A |
| Concrete Slab | ***$1,712.00*** | $1,712.00 | N/A | N/A | N/A |
| Microwave Components | ***$21,636.96*** | $21,636.96 | N/A | N/A | N/A |
| Generator Repairs | ***$1,208.20*** | $1,208.20 | N/A | N/A | N/A |
| Monitoring | ***$5,975.00*** | $5,975.00 | N/A | N/A | N/A |
| Microwave Radios | ***$114,301.10*** | $114,301.10 | N/A | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| **Primary Transmitter Maxiva ULXT-80AT UHV** | **$189,071.09** | **$115,053.34** | | **$0.00** | |
| Other 50 kW mask filter | ***$83,871.09*** | $83,871.09 | Includes shipping and state and local taxes | N/A | N/A |
| UHF and VHF - minor banding issues | $105,200.00 | $31,182.25 | GA-00021465 | N/A | N/A |
| **Sub-total** | $609,404.35 | $564,251.70 | N/A | $0.00 | N/A |
| **Total for all systems** | $2,904,114.27 | $2,423,561.39 | N/A | $26,333.75 | 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 Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---|---|---|---|---|---|
| **Interim Antenna TVP16B** | **$119,280.00** | **$32,062.90** | | **$0.00** | |
| UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized | $89,400.00 | $25,662.90 | See attached vendor quote JEHQ1257-01 | N/A | N/A |
| Sweep test of existing antenna | $6,730.00 | $6,400.00 | N/A | N/A | N/A |
| Side mount brackets for high power antennas (if not included in antenna base cost) | $23,150.00 | $0.00 | Included in antenna cost | N/A | N/A |
| **Primary Antenna TFU-28JSC /VP-R C140** | **$290,284.92** | **$254,504.92** | | **$0.00** | |

| | | | | | |
|---|---|---|---|---|---|
| UHF - High Power, Side Mount, basic slot antenna, 1000 kW input, directional,, elliptically or circularly polarized | ***$248,104.92*** | $248,104.92 | N/A | N/A | N/A |
| Sweep test of existing antenna | $6,730.00 | $6,400.00 | N/A | N/A | N/A |
| Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed) | $12,300.00 | $0.00 | Included in antenna cost | N/A | N/A |
| Side mount brackets for high power antennas (if not included in antenna base cost) | $23,150.00 | $0.00 | Included in antenna cost | N/A | N/A |
| **Sub-total** | $409,564.92 | $286,567.82 | N/A | $0.00 | N/A |
| **Total for all systems** | $2,904,114.27 | $2,423,561.39 | N/A | $26,333.75 | 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 Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---|---|---|---|---|---|
| **Interim Transmission Line** | **$61,725.00** | **$47,902.66** | | **$0.00** | |
| Sweep Existing Transmission Line | ***$13,050.00*** | $13,050.00 | See vendor invoice | N/A | N/A |
| Flexible Air Transmission Line - dielectric, 3" | $48,675.00 | $34,852.66 | See vendor quote JEHQ1257-01 | N/A | N/A |
| **Primary Transmission Line** | **$282,800.00** | **$263,955.76** | | **$0.00** | |
| Rigid Transmission Line - copper, 6 1/8" | $282,800.00 | $263,955.76 | N/A | N/A | N/A |
| **Sub-total** | $344,525.00 | $311,858.42 | N/A | $0.00 | N/A |
| **Total for all systems** | $2,904,114.27 | $2,423,561.39 | N/A | $26,333.75 | 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** | **$670,300.00** | **$579,880.00** | | **$7,500.00** | |
| Structural engineering tower load study for well documented tower | $12,600.00 | $7,500.00 | N/A | $7,500.00 | N/A |
| Microwave Installation | ***$26,200.00*** | $26,200.00 | N/A | N/A | N/A |
| Tall Tower (greater than 500') | $210,500.00 | $146,180.00 | N/A | N/A | N/A |
| Major tower reinforcement /modifications | $421,000.00 | $400,000.00 | N/A | N/A | N/A |
| **Auxiliary Tower TOWER** | **$644,100.00** | **$473,050.00** | | **$1,750.00** | |
| Structural engineering tower load study for well documented tower | $12,600.00 | $13,250.00 | 2017-Gray-WJHG-AUX-0406-N | $1,750.00 | N/A |
| Tall Tower (greater than 500') | $210,500.00 | $59,800.00 | N/A | N/A | N/A |
| Major tower reinforcement /modifications | $421,000.00 | $400,000.00 | N/A | N/A | N/A |
| **Sub-total** | $1,314,400.00 | $1,052,930.00 | N/A | $9,250.00 | N/A |

| | | | | | |
|---|---|---|---|---|---|
| **Total for all systems** | $2,904,114.27 | $2,423,561.39 | N/A | $26,333.75 | N/A |

## Components

| Actual Information Description | File Name | |
|---|---|---|
| Structural engineering tower load study for well documented tower | **Component Description:**<br><br>**Amount:**<br><br>**Component Description:**<br>**Amount:** | Structural engineering Tower Load study<br>$3,750.00<br><br>Tower Mapping<br>$3,750.00 |
| Microwave Installation | Information not provided. | |
| Tall Tower (greater than 500') | Information not provided. | |
| Major tower reinforcement /modifications | Information not provided. | |
| Structural engineering tower load study for well documented tower | **Component Description:**<br><br>**Amount:** | Structural engineering Tower Load study<br>$1,750.00 |
| Tall Tower (greater than 500') | Information not provided. | |
| Major tower reinforcement /modifications | 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 |
|---|---|---|---|---|---|
| **Outside Professional Services** | **$172,910.00** | **$163,750.00** | | **$17,083.75** | |
| Attorney Fees - Prepare and File request for Special Temporary Authorization | $3,680.00 | $3,500.00 | 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 | N/A | N/A |
| Prepare request for Special Temporary Authorization | $2,050.00 | $1,500.00 | N/A | N/A | N/A |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | $1,580.00 | $1,500.00 | N/A | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | $3,155.00 | $3,000.00 | N/A | $1,350.00 | N/A |
| Perform engineering study for new channel assignment and antenna development | $7,360.00 | $7,000.00 | N/A | $1,487.50 | 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 and or review reimbursement form | $2,630.00 | $2,500.00 | N/A | N/A | N/A |
| Project management of the transition | $142,200.00 | $135,000.00 | N/A | $14,246.25 | N/A |
| **Sub-total** | $172,910.00 | $163,750.00 | N/A | $17,083.75 | N/A |
| **Total for all systems** | $2,904,114.27 | $2,423,561.39 | N/A | $26,333.75 | N/A |

## Components

| Actual Information Description | File Name |
|---|---|
| Attorney Fees - Prepare and File request for Special Temporary Authorization | Information not provided. |

| | |
|---|---|
| Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application | Information not provided. |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | Information not provided. |
| Prepare request for Special Temporary Authorization | Information not provided. |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | Information not provided. |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | **Component Description:** Develop final ERP and parameters for initial CP application<br>**Amount:** $1,350.00 |
| Perform engineering study for new channel assignment and antenna development | **Component Description:** Perform engineering study for new channel assignment<br>**Amount:** $800.00<br><br>**Component Description:** Perform engineering study for new channel assignment<br>**Amount:** $687.50 |
| Address transition timing and coordination issues w/ other stations and wireless | Information not provided. |
| Prepare and or review reimbursement form | Information not provided. |
| Project management of the transition | |

| | |
|---|---|
| **Component Description:** | Project Management |
| **Amount:** | $868.30 |
| **Component Description:** | Project management |
| **Amount:** | $1,853.55 |
| **Component Description:** | Project Management |
| **Amount:** | $1,856.30 |
| **Component Description:** | Project Management |
| **Amount:** | $802.25 |
| **Component Description:** | Project management |
| **Amount:** | $2,442.65 |
| **Component Description:** | Project Management |
| **Amount:** | $2,556.05 |
| **Component Description:** | Transition Related Project Management Costs |
| **Amount:** | $2,850.00 |
| **Component Description:** | Project Management |
| **Amount:** | $988.95 |
| **Component Description:** | Project Management |
| **Amount:** | $28.20 |

## 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 |
|---|---|---|---|---|---|
| **Other Expenses** | **$53,310.00** | **$44,203.45** | | **$0.00** | |
| Equipment Storage | ***$6,650.00*** | $6,650.00 | N/A | N/A | N/A |
| DTV Medical Facility Notification | $11,550.00 | $2,498.45 | N/A | N/A | N/A |
| FCC Filing Fees - Form 2100 minor change CP application | $1,110.00 | $1,070.00 | 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 |
| Disposal Costs (for equipment and other waste, net of any salvage value) | ***$20,000.00*** | $20,000.00 | For main and alternate sites | N/A | N/A |
| Equipment Delivery and Handling Charges | ***$2,400.00*** | $2,400.00 | Main and alternate sites | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| Develop and air announcement of upcoming channel change | ***$10,000.00*** | $10,000.00 | N/A | N/A | N/A |
| MVPD Notification of Channel Change | ***$1,070.00*** | $1,070.00 | N/A | N/A | N/A |
| **Sub-total** | $53,310.00 | $44,203.45 | N/A | $0.00 | N/A |
| **Total for all systems** | $2,904,114.27 | $2,423,561.39 | N/A | $26,333.75 | N/A |

## Components

Information not provided.

## Cost Information

### Grand Total

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|---|---|---|---|
| **Total for all systems** | $2,904,114.27 | $2,423,561.39 | $26,333.75 |

## 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** | WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT. | |
| | 1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.<br>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.<br>3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. | |

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

| | | |
|---|---|---|
| | 8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested. | |
| | I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above. | **Robert Folliard**<br>*Assistant Secretary*<br><br>12/27/2017 |

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

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

| | | |
|---|---|---|
| | 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.<br>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested. | |
| | I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above. | **Robert Folliard**<br>*Assistant Secretary*<br><br>12/27/2017 |

## Attachments