



(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility **71329** | Service: **DTV** | Call **WDBJ** | Channel: **30 (UHF)** |  
ID: | Sign:  
File **0000028727**  
Number:  
FRN: **0018223693** | Date **09/19**  
Submitted: **/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

| Applicant                                | Address  | Phone                | Email                           | Applicant Type                  |
|--|--|----------------------|---------------------------------|---------------------------------|
| <b>GRAY TELEVISION<br/>LICENSEE, LLC</b> | WDBJ<br>4370<br>PEACHTREE<br>ROAD, NE<br>ATLANTA, GA<br>30319<br>United States | +1 (404)<br>266-8333 | robert.<br>folliard@gray.<br>tv | Limited<br>Liability<br>Company |

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

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

## Preparer Contact Information

### Preparer Contact Name and Information

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

**Broadcaster  
Information  
and  
Transition  
Plan**

| Question   |  | Response  |
|--|--|---|
| Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information. |  | No  |
| Briefly describe transition plan   |  | WDBJ will be replacing the existing main transmitter, antenna, and transmission line. |

**Transmitters**

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

**Primary  
Transmitter**

**Existing Transmitter Information**

| Section   | Question   | Response                 |
|---|--|--------------------------|
| <b>Existing Transmitter<br/>Description</b>           | Type of change   | Purchase<br>New          |
|   | Use  | Primary<br>(Main)        |
|   | Description of Use   | N/A                      |
|   | Ownership  | Owned                    |
|   | Owner  | N/A                      |
|   | Site   | N/A                      |
|   | Is this transmitter currently shared with another station? | No                       |
|   | Is this transmitter currently in operating condition?      | Yes                      |
| <b>Existing Transmitter<br/>Manufacturer and Type</b> | Manufacturer   |                          |
|   | Model  | Sigma                    |
|   | Year   | 2000                     |
|   | Type   | Inductive<br>Output Tube |
|   | IOT Power Type   | Two                      |
|   | Power Capacity   | 46 kW                    |

**Primary  
Transmitter**

**New Transmitter Costs**

| Section         | Question                                  | Response  |
|-----------------|---|---|
| New Transmitter | Use                                       | Primary (Main)  |
|                 | Change Type                               | Purchase New  |
|                 | Is this a request for upgraded equipment? | Yes   |
|                 | Manufacturer                              |   |
|                 | Model                                     | HPTV-PRLX-U32   |
|                 | Transmitter Type                          | Solid State   |
|                 | Solid State Cooling                       | Liquid Cooled   |
|                 | Solid State Power capacity                | 55 kW   |
|                 | Justification for New Transmitter         | Harris Sigma series IOT transmitters cannot be retuned, transmitter must be replaced. |

**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               |
| <b>HVAC Service</b>  | Does the replacement transmitter require HVAC Service?  | No                |
|  | Type  | N/A               |
|  | Size  | N/A               |
|  | Other Size  | N/A               |
| <b>Transmitter Building Addition/Modification or Leasehold Improvement</b> | Does the Transmitter Building require an addition, modification, other leasehold improvement? | Yes               |
|  | Size  | 400.0 square feet |
| <b>Channel 14 Costs</b>  | Is an RF Consulting Engineer needed?  | N/A               |
|  | Is a channel 14 Mask Filer needed?  | N/A               |
|  | Is additional field engineering time needed?  | N/A               |
|  | Number of Days  | N/A               |

**Primary Transmitter**

**Other Transmitter Cost Not Listed**

| Name                | Description   |
|---------------------|---|
| <b>Construction</b> | Existing building must be modified for new transmitter. |

**Antennas**

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

**Primary  
Antenna**

**Existing Antenna Information**

| Section   | Question   | Response           |
|---|--|--------------------|
| <b>Existing Antenna<br/>Description</b>           | Type of change   | Purchase<br>New    |
|   | Antenna Use  | Primary<br>(Main)  |
|   | Description of Use   | N/A                |
|   | Ownership  | Owned              |
|   | Owner  | N/A                |
|   | Site   | N/A                |
|   | Is the existing antenna shared with another station or stations? | No                 |
|   | Is the existing antenna directional?                             | No                 |
|   | Is antenna in operating condition?                               | Yes                |
|   | Is antenna located on or in close proximity to an antenna farm?  | No                 |
| <b>Existing Antenna<br/>Manufacturer and Type</b> | Class  | Full Power         |
|   | Mounting   | Top Mount          |
|   | Antenna position in stack  | Not in Stack       |
|   | Polarization   | Horizontal         |
|   | Type   | Slotted<br>Coaxial |
|   | Number of Stations Supported                                     | N/A                |
|   | Number of Panels   | N/A                |
|   | Design power capacity in use                                     | N/A                |
|   | Lower Limit  | N/A                |
|   | Upper Limit  | N/A                |
|   | Other Antenna Type   | N/A                |
|   | ERP: (Effective Radiated Power)<br>.....                         | 605.0 kW           |
|   |  |                    |

|              |               |
|--------------|---------------|
| Manufacturer |               |
| Model        | TFU-18GTH-R04 |
| Year         | 1999          |



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?                            | Yes             |
|                                    | Ownership  | Owned           |
|                                    | Owner  | N/A             |
|                                    | Is antenna shared?   | No              |
|                                    | Is antenna directional?  | No              |
|                                    | Will antenna be located on or in close proximity to an antenna farm? | No              |
| New Antenna Manufacturer and Types | Class  | Full Power      |
|                                    | Mounting   | Top 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)<br>.....                             | 1000.0 kW       |
|                                    | Manufacturer   |                 |
|                                    |  |                 |

|                               |  |
|-------------------------------|--|
| Model                         | TFU-29JTH<br>/VP-R 04  |
| Year                          | 2017   |
| Justification for New Antenna | Repack will move WDBJ to channel 30 so the existing channel 18 antenna needs replaced. |

## Primary Antenna

### Other Antenna Costs

| Section                            | Question  | Response       |
|------------------------------------|---|----------------|
| <b>Combiner for Shared Antenna</b> | Do you need a Combiner for a Shared Antenna?  | No             |
|                                    | Type  |                |
|                                    | Number of channels supported  | N/A            |
|                                    | Frequencies of channels supported   | N/A            |
|                                    | Frequency   | N/A            |
|                                    | Do you need a combiner output splitter /switcher for dual feed lines?                 | N/A            |
| <b>Elbow Complex</b>               | Do you require the separate purchase of the Elbow Complex?                            | Yes            |
|                                    | Broadband or Single Channel?  | Single Channel |
|                                    | Feed Line Size  | 7 3/16 inches  |
| <b>Side Mount Brackets</b>         | Do you require the separate purchase of side mount brackets for a high power antenna? | No             |

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

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

| Name                     | Description  |
|--------------------------|--|
| <b>Top Plate Adapter</b> | Adapter for top of tower to match bolts on antenna |

**Transmission Line**

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

**Primary  
Transmission Line**

**Existing Transmission Line**

| Section   | Question   | Response         |
|---|--|------------------|
| <b>Existing Transmission Line Description</b>           | 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              |
| <b>Existing Transmission Line Manufacturer and Type</b> | 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   | 230 feet per run |

**Primary** **New Transmission Line**  
**Transmission Line**

| Section                            | Question                                  | Response  |
|------------------------------------|---|---|
| <b>New Transmission Line Costs</b> | Use                                       | Primary (Main)  |
|                                    | Description of Use                        | N/A   |
|                                    | Change Type                               | Purchase New  |
|                                    | Is this a request for upgraded equipment? | No  |
|                                    | Type                                      | Rigid   |
|                                    | Diameter                                  | 7 3/16 inches   |
|                                    | Other Diameter                            | N/A   |
|                                    | Segment Length                            | 19 1/2 inches   |
|                                    | Other Segment Length                      | N/A   |
|                                    | Number of parallel runs                   | 1   |
|                                    | Length                                    | 230 feet per run  |
|                                    | Justification for New Transmission Line   | Utilizing existing antenna during build-out of new transmitter /antenna system. New transmission line needed. |

**Primary** **Other Transmission Line Expenses Not Listed**  
**Transmission Line**

Information not provided.

**Tower Equipment And Rigging Costs**

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

**Primary Tower**

**Existing Tower**

| Section   | Question  | Response          |
|---|---|-------------------|
| Existing Tower Description                          | Type of change  | Modify Existing   |
|   | Tower Use   | Primary (Main)    |
|   | Description of Use                                      | N/A               |
|   | Ownership   | Owned             |
|   | Is this tower consider Complex?                         | No                |
|   | Is this tower currently shared with any other stations? | No                |
|   | One or more FM, AM or TV radio broadcaster(s)           | N/A               |
|   | Others Types of Users                                   | N/A               |
|   | Is tower documented for structural analysis?            | Yes               |
|   | Is tower compliant with Rev G?                          | No                |
| Existing Tower Structure Registration               | Do you have a tower registration number?                | Yes               |
|   | ASR Number  | 1024378           |
| Coordinates (NAD83 ( North American Datum of 1983)) | Latitude (NAD83)  | 37° 11' 42.0" N-  |
|   | Longitude (NAD83)                                       | 080° 09' 22.0" W- |
|   | Overall Structure Height                                | 148.62 feet       |
|   | Support Structure Height                                | 77.10 feet        |
|   | Ground Elevation Above Mean Sea Level (AMSL)            | 3759.80 feet      |

|  |                  |  |
|--|------------------|--|
|  | Structure Type   | TOWER - Free Standing or Guyed Structure |
|  | Tower Owner      | Gray Television Group, Inc.              |
|  | Date Constructed | 06/01/1965                               |

**Primary Tower**

**Tower Modification Costs**

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

**Primary Tower**

**Tower Rigging Costs**

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

**Primary Tower**

**Other Tower Expenses Not Listed**

Information not provided.



## Primary Tower

### Existing Tower

| Section   | Question  | Response                                 |
|---|---|--|
| Existing Tower Description                          | Type of change  | Construct New                            |
|   | Tower Use   | Primary (Main)                           |
|   | Description of Use                                      | N/A                                      |
|   | Ownership   | Owned                                    |
|   | Is this tower consider Complex?                         | No                                       |
|   | Is this tower currently shared with any other stations? | No                                       |
|   | One or more FM, AM or TV radio broadcaster(s)           | N/A                                      |
|   | Others Types of Users                                   | N/A                                      |
|   | Is tower documented for structural analysis?            | Yes                                      |
|   | Is tower compliant with Rev G?                          | No                                       |
| Existing Tower Structure Registration               | Do you have a tower registration number?                | Yes                                      |
|   | ASR Number  | 1024378                                  |
| Coordinates (NAD83 ( North American Datum of 1983)) | Latitude (NAD83)  | 37° 11' 42.0" N-                         |
|   | Longitude (NAD83)                                       | 080° 09' 22.0" W-                        |
|   | Overall Structure Height                                | 148.62 feet                              |
|   | Support Structure Height                                | 77.10 feet                               |
|   | Ground Elevation Above Mean Sea Level (AMSL)            | 3759.80 feet                             |
|   | Structure Type  | TOWER - Free Standing or Guyed Structure |
|   |   |  |

|                  |                                   |
|------------------|-----------------------------------|
| Tower Owner      | Gray<br>Television<br>Group, Inc. |
| Date Constructed | 06/01/1965                        |

---

Primary  
Tower

Tower Construction Costs

| Section             | Question                                  | Response  |
|---------------------|---|---|
| Construct New Tower | Use                                       | Primary (Main)  |
|                     | Description of Use                        | N/A   |
|                     | Is this a request for upgraded equipment? | No  |
|                     | Height                                    | 92.00 feet  |
|                     | Justification for New Tower               | Existing tower failed structural analysis. It was determined to be more cost effective to construct a new tower rather than reinforce the existing. |

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

Information not provided.

**Outside  
Professional**

| Section   | Question   | Response          |
|---|--|-------------------|
| <b>Services Costs<br/>Outside Project<br/>Management Services</b> | Do you require outside project management services?                          | Yes               |
|   | Number of Hours  | 900               |
|   | Explanation  | Strategic Support |
| <b>Outside RF consulting<br/>Engineering Services</b>             | Perform engineering study for new channel assignment and antenna development | Yes               |
|   | Prepare engineering section of Form FCC Construction Permit Application      | Yes               |
|   | For Auxiliary Facility   | No                |
|   | For Main Facility  | Yes               |
|   | Prepare engineering section of Form FCC License to Cover Application         | Yes               |
|   | For Auxiliary Facility   | No                |
|   | For Main Facility  | Yes               |
|   | Prepare request for Special Temporary Authority                              | No                |
|   | Quantity   | N/A               |
|   | Do you have Distributed Transmission System engineering services?            | N/A               |
|   | Critical Facility  | N/A               |
|   | Terrain-Shielded Facility  | N/A               |
| <b>Attorney and Other<br/>Outside Consulting<br/>Services</b>     | Prepare and file Form FCC Construction Permit Application                    | Yes               |
|   | For Auxiliary Facility   | No                |
|   | For Main Facility  | Yes               |
|   | Prepare and file Form FCC License to Cover Application                       | Yes               |
|   | For Auxiliary Facility   | No                |
|   | For Main Facility  | Yes               |

|                                      |  |     |
|--------------------------------------|--|-----|
|                                      | Prepare request for Special Temporary Authority  | No  |
|                                      | Quantity   | N/A |
|                                      | NEPA Section 106 environmental review  | Yes |
|                                      | Environmental Assessment   | Yes |
|                                      | 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 |
| <b>RF Field Engineering Services</b> | 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**

If wireless is not provided.

## Other Expenses

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

**Other  
Expenses**

**Other Expenses Not Listed**

| Name   | Description   |
|--|---|
| <b>Antenna Structure Registration<br/>Announcement</b> | Antenna structure registration<br>announcement in local newspaper |

## Cost Information

### Transmitters

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

| Description  | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost    | Actual Cost Justification |
|--|-----------------------------|----------------|------------------------------|----------------|---------------------------|
| Primary Transmitter HPTV-PRLX-U32                      | \$2,113,176.06              | \$1,708,842.06 |                              | \$1,253,922.24 |                           |
| Other -- Building Addition Size: 400.0                 | \$319,503.22                | \$319,503.22   | Per Blake Construction Quote | \$2,950.00     | N/A                       |
| UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW | \$1,788,000.00              | \$1,383,666.00 | N/A                          | \$1,245,299.40 | N/A                       |
| Construction   | \$5,672.84                  | \$5,672.84     | N/A                          | \$5,672.84     | N/A                       |
| <b>Sub-total</b>                                       | \$2,113,176.06              | \$1,708,842.06 | N/A                          | \$1,253,922.24 | N/A                       |
| <b>Total for all systems</b>                           | \$3,302,918.32              | \$2,755,622.50 | N/A                          | \$1,471,173.49 | N/A                       |

### Components

| Actual Information                     |   |
|--|---|
| Description                            | File Name   |
| Other -- Building Addition Size: 400.0 | <p><b>Component Description:</b> WZBJ Construction quote / Task completed 07/15/19</p> <p><b>Amount:</b> \$2,950.00</p> |



|  |  |                               |   |                |              |                               |                                   |                |              |
|--|--|-------------------------------|---|----------------|--------------|-------------------------------|-----------------------------------|----------------|--------------|
| UHF - Liquid Cooled Solid<br>State Transmitter 52 - 61<br>kW | <table> <tr> <td data-bbox="695 98 1114 360"> <b>Component Description:</b> </td><td data-bbox="1114 98 1426 360"> SYSTEM, WDBJ<br/>U32 D30<br/>INSTALLATION 29-<br/>50KW (TWO<br/>CABINETS) </td></tr> <tr> <td data-bbox="695 360 1114 472"> <b>Amount:</b> </td><td data-bbox="1114 360 1426 472"> \$761,016.30 </td></tr> <tr> <td data-bbox="695 472 1114 584"> <b>Component Description:</b> </td><td data-bbox="1114 472 1426 584"> 1st Primary<br/>Transmitter System </td></tr> <tr> <td data-bbox="695 584 1114 685"> <b>Amount:</b> </td><td data-bbox="1114 584 1426 685"> \$484,283.10 </td></tr> </table>  | <b>Component Description:</b> | SYSTEM, WDBJ<br>U32 D30<br>INSTALLATION 29-<br>50KW (TWO<br>CABINETS)   | <b>Amount:</b> | \$761,016.30 | <b>Component Description:</b> | 1st Primary<br>Transmitter System | <b>Amount:</b> | \$484,283.10 |
| <b>Component Description:</b>                                | SYSTEM, WDBJ<br>U32 D30<br>INSTALLATION 29-<br>50KW (TWO<br>CABINETS)  |                               |   |                |              |                               |                                   |                |              |
| <b>Amount:</b>   | \$761,016.30   |                               |   |                |              |                               |                                   |                |              |
| <b>Component Description:</b>                                | 1st Primary<br>Transmitter System  |                               |   |                |              |                               |                                   |                |              |
| <b>Amount:</b>   | \$484,283.10   |                               |   |                |              |                               |                                   |                |              |
| Construction   | <table> <tr> <td data-bbox="695 685 1114 1323"> <b>Component Description:</b> </td><td data-bbox="1114 685 1426 1323"> Transmitter building<br/>project: Complete<br/>interior and exterior<br/>measurements of<br/>existing Facility.<br/>These docs will be<br/>used for Permits<br/>needed for<br/>renovations to<br/>construct New<br/>Transmitter Room. </td></tr> <tr> <td data-bbox="695 1323 1114 1435"> <b>Amount:</b> </td><td data-bbox="1114 1323 1426 1435"> \$3,366.86 </td></tr> <tr> <td data-bbox="695 1435 1114 1512"> <b>Component Description:</b> </td><td data-bbox="1114 1435 1426 1512"> Transmitter building<br/>project. </td></tr> <tr> <td data-bbox="695 1512 1114 1512"> <b>Amount:</b> </td><td data-bbox="1114 1512 1426 1512"> \$2,305.98 </td></tr> </table> | <b>Component Description:</b> | Transmitter building<br>project: Complete<br>interior and exterior<br>measurements of<br>existing Facility.<br>These docs will be<br>used for Permits<br>needed for<br>renovations to<br>construct New<br>Transmitter Room. | <b>Amount:</b> | \$3,366.86   | <b>Component Description:</b> | Transmitter building<br>project.  | <b>Amount:</b> | \$2,305.98   |
| <b>Component Description:</b>                                | Transmitter building<br>project: Complete<br>interior and exterior<br>measurements of<br>existing Facility.<br>These docs will be<br>used for Permits<br>needed for<br>renovations to<br>construct New<br>Transmitter Room.  |                               |   |                |              |                               |                                   |                |              |
| <b>Amount:</b>   | \$3,366.86   |                               |   |                |              |                               |                                   |                |              |
| <b>Component Description:</b>                                | Transmitter building<br>project.   |                               |   |                |              |                               |                                   |                |              |
| <b>Amount:</b>   | \$2,305.98   |                               |   |                |              |                               |                                   |                |              |

## 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 |
|--|-----------------------------|---------------------|------------------------------|---------------------|---------------------------|
| <b>Primary Antenna TFU-29JTH /VP-R 04</b>  | <b>\$364,130.00</b>         | <b>\$303,739.00</b> |                              | <b>\$116,409.85</b> |                           |
| Top Plate Adapter  | <i>\$54,000.00</i>          | \$54,000.00         | DTVPros quote JEHQ1247-04    | N/A                 | N/A                       |
| Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)                    | \$13,900.00                 | \$15,264.00         | DTVPros quote JEHQ1247-04    | \$3,816.00          | N/A                       |
| UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized | \$289,500.00                | \$228,075.00        | DTVPros quote JEHQ1247-04    | \$110,993.85        | N/A                       |
| Sweep test of existing antenna   | \$6,730.00                  | \$6,400.00          | N/A                          | \$1,600.00          | N/A                       |
| <b>Sub-total</b>   | <b>\$364,130.00</b>         | <b>\$303,739.00</b> | <b>N/A</b>                   | <b>\$116,409.85</b> | <b>N/A</b>                |

|                              |                |                |     |                |     |
|------------------------------|----------------|----------------|-----|----------------|-----|
| <b>Total for all systems</b> | \$3,302,918.32 | \$2,755,622.50 | N/A | \$1,471,173.49 | N/A |
|------------------------------|----------------|----------------|-----|----------------|-----|

## Components

| Actual Information   |   |
|--|---|
| Description  | File Name   |
| Top Plate Adapter  | Information not provided.   |
| Elbow complex, single channel, at antenna input, per 7 3/16. feedline (if needed)                    | <p><b>Component Description:</b> WDBJ-210-Elbow complex New Primary Antenna</p> <p><b>Amount:</b> \$3,816.00</p>  |
| UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized | <p><b>Component Description:</b> UHF-HIGH POWER TOP MOUNT (200-1000KW)</p> <p><b>Amount:</b> \$50,451.75</p> <p><b>Component Description:</b> UHF-HIGH POWER TOP MOUNT (200-1000KW)</p> <p><b>Amount:</b> \$60,542.10</p> |
| Sweep test of existing antenna   | <p><b>Component Description:</b> WDBJ-210-Sweep test New Primary Antenna</p> <p><b>Amount:</b> \$1,600.00</p>   |

Cost  
Information

Transmission Line

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

| Description                               | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost    | Actual Cost Justification |
|---|-----------------------------|----------------|------------------------------|----------------|---------------------------|
| Primary Transmission Line                 | \$66,700.00                 | \$66,310.30    |                              | \$16,577.57    |                           |
| Rigid Transmission Line - copper, 7 3/16" | \$66,700.00                 | \$66,310.30    | DTVPros quote JEHQ1247-06    | \$16,577.57    | N/A                       |
| Sub-total                                 | \$66,700.00                 | \$66,310.30    | N/A                          | \$16,577.57    | N/A                       |
| Total for all systems                     | \$3,302,918.32              | \$2,755,622.50 | N/A                          | \$1,471,173.49 | N/A                       |

Components

| Actual Information                        |   |
|---|---|
| Description                               | File Name   |
| Rigid Transmission Line - copper, 7 3/16" | <div>Component Description: WDBJ-310-New Primary Transmission Line</div> <div>Amount: \$16,577.57</div> |

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   | \$0.00                      | \$0.00         |   | \$0.00         |                           |
| Primary Tower TOWER   | \$0.00                      | \$0.00         |   | \$0.00         |                           |
| Primary Tower   | \$543,077.78                | \$490,414.66   |   | \$3,000.00     |                           |
| New tower   | <i>\$446,277.78</i>         | \$446,277.78   | Per Blake Construction Quote  | N/A            | N/A                       |
| Short Tower (less than 500')                                      | \$84,200.00                 | \$41,136.88    | Per Blake Construction Quote - Demo 3 Legged Tower                                      | N/A            | N/A                       |
| Structural engineering tower load study for well documented tower | \$12,600.00                 | \$3,000.00     | ***System Notice: Estimate adjusted and locked because line has been superseded.<br>*** | \$3,000.00     | N/A                       |
| Sub-total   | \$543,077.78                | \$490,414.66   | N/A   | \$3,000.00     | N/A                       |
| Total for all systems   | \$3,302,918.32              | \$2,755,622.50 | N/A   | \$1,471,173.49 | N/A                       |

Components

| Actual Information  |  |
|---|--|
| Description   | File Name  |
| New tower   | Information not provided.  |
| Short Tower (less than 500')                                      | Information not provided.  |
| Structural engineering tower load study for well documented tower | <div> <div>Component Description:</div> <div>AST to perform analysis on (1) 60' SS Tower utilizing VA PE</div> <div>Amount:</div> <div>\$3,000.00</div> </div> |

## Cost Information

### Outside Professional Services

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

| Description   | Predetermined Cost Estimate | Estimated Cost      | Estimated Cost Justification | Actual Cost        | Actual Cost Justification |
|---|-----------------------------|---------------------|------------------------------|--------------------|---------------------------|
| <b>Outside Professional Services</b>  | <b>\$184,010.00</b>         | <b>\$161,750.00</b> |                              | <b>\$80,929.35</b> |                           |
| Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet | \$10,520.00                 | \$2,000.00          | N/A                          | N/A                | N/A                       |
| NEPA Section 106 environmental review, if needed  | \$6,310.00                  | \$1,000.00          | N/A                          | N/A                | N/A                       |
| Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application                       | \$2,365.00                  | \$2,250.00          | N/A                          | N/A                | N/A                       |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application                    | \$5,260.00                  | \$5,000.00          | N/A                          | \$982.50           | N/A                       |

|  |                |                |     |                |     |
|--|----------------|----------------|-----|----------------|-----|
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application    | \$1,580.00     | \$1,500.00     | N/A | N/A            | N/A |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | \$3,155.00     | \$3,000.00     | N/A | \$2,062.50     | N/A |
| Perform engineering study for new channel assignment and antenna development         | \$7,360.00     | \$7,000.00     | N/A | \$5,300.00     | N/A |
| Address transition timing and coordination issues w/ other stations and wireless     | \$2,630.00     | \$2,500.00     | N/A | \$962.00       | 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 | \$71,622.35    | N/A |
| <b>Sub-total</b>   | \$184,010.00   | \$161,750.00   | N/A | \$80,929.35    | N/A |
| <b>Total for all systems</b>   | \$3,302,918.32 | \$2,755,622.50 | N/A | \$1,471,173.49 | N/A |

## Components



| Actual Information  |   |
|---|---|
| Description   | File Name   |
| Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet | Information not provided.   |
| NEPA Section 106 environmental review, if needed  | Information not provided.   |
| Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application                        | Information not provided.   |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application                    | <div> <div> <b>Component Description:</b><br/> <b>Amount:</b> </div> <div> Repack CP application<br/> \$786.00 </div> </div> <div> <div> <b>Component Description:</b><br/> <b>Amount:</b> </div> <div> Complete and file first priority window construction permit filing for pop loss<br/> \$196.50 </div> </div> |
| 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                      | <div> <div> <b>Component Description:</b><br/> <b>Amount:</b> </div> <div> Prepared engineering section for CP application<br/> \$2,062.50 </div> </div>  |
| Perform engineering study for new channel assignment and antenna development                              |   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Regarding repack Ch-30, review planned antenna specifications, provide comments and inquiry regarding tower height under construction. |
| <b>Amount:</b>                | \$175.00   |

|                               |  |
|-------------------------------|--|
| <b>Component Description:</b> | Consulting Engineer - J. Davis. Develop technical parameters for interim antenna on repack Ch-30 for use during transition |
| <b>Amount:</b>                | \$1,400.00   |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Conduct channel study of post-auction CH 30 for expansion created by increased ERP. Prep of engineering portions of FCC CP-MOD application. |
| <b>Amount:</b>                | \$1,375.00  |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Conduct review of repacked channel assignment and implementation with prospective antenna, discuss results. |
| <b>Amount:</b>                | \$1,875.00  |

|  |  |   |
|--|--|---|
|  | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>Perform engineering study for new channel assignment</p> <p>\$475.00</p>   |
| Address transition timing and coordination issues w/ other stations and wireless | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>Review linked set for WDBJ; work on coordination with linked group for transition logistics.</p> <p>\$962.00</p> |
| Prepare and or review reimbursement form   | Information not provided.                                  |   |
| Project management of the transition   | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>Project Management</p> <p>\$2,152.35</p>   |
|  | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>Project Management</p> <p>\$1,931.30</p>   |
|  | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>Project Management</p> <p>\$3,324.40</p>   |
|  | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>Project Management</p> <p>\$3,020.65</p>   |
|  | <p><b>Component Description:</b></p> <p><b>Amount:</b></p> | <p>Project Management</p> <p>\$2,076.05</p>   |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$3,081.30         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$5,064.45         |

|                               |             |
|-------------------------------|-------------|
| <b>Component Description:</b> | Project mgt |
| <b>Amount:</b>                | \$4,982.95  |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,373.10         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$1,630.60         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,314.90         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,071.20         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project management |
| <b>Amount:</b>                | \$2,831.90         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$1,863.20         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,322.15         |

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

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project management |
| <b>Amount:</b>                | \$2,116.05         |

|                               |   |
|-------------------------------|---|
| <b>Component Description:</b> | Transition Related Project Management Costs |
| <b>Amount:</b>                | \$3,300.00                                  |

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

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,654.70         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,536.05         |

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

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$913.95           |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,019.15         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$1,895.60         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$2,157.60         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$1,616.50         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project management |
| <b>Amount:</b>                | \$2,397.65         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$1,668.75         |

|                               |                    |
|-------------------------------|--------------------|
| <b>Component Description:</b> | Project Management |
| <b>Amount:</b>                | \$5,742.10         |

---

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  | \$31,824.48                 | \$24,566.48    |   | \$334.48    |                           |
| Antenna Structure Registration Announcement               | \$334.48                    | \$334.48       | Antenna structure registration announcement in local paper. | \$334.48    | N/A                       |
| MVPD Notification of Channel Change                       | \$1,500.00                  | \$1,500.00     | N/A   | N/A         | N/A                       |
| Develop and air announcement of upcoming channel change   | \$5,000.00                  | \$5,000.00     | N/A   | N/A         | N/A                       |
| DTV Medical Facility Notification                         | \$11,550.00                 | \$4,347.00     | 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                       |

|   |                   |                |     |                |     |
|---|-------------------|----------------|-----|----------------|-----|
| Non-zoning permits                      | <b>\$5,000.00</b> | \$5,000.00     | N/A | N/A            | N/A |
| Equipment Delivery and Handling Charges | <b>\$6,800.00</b> | \$6,800.00     | N/A | N/A            | N/A |
| <b>Sub-total</b>                        | \$31,824.48       | \$24,566.48    | N/A | \$334.48       | N/A |
| <b>Total for all systems</b>            | \$3,302,918.32    | \$2,755,622.50 | N/A | \$1,471,173.49 | N/A |

## Components

| Actual Information  |  |
|---|--|
| Description   | File Name  |
| Antenna Structure Registration Announcement               | <p><b>Component Description:</b> Antenna structure registration. Gives notice that on 09 /13/2017, it filed an application with the FCC</p> <p><b>Amount:</b> \$334.48</p> |
| MVPD Notification of Channel Change                       | Information not provided.  |
| Develop and air announcement of upcoming channel change   | Information not provided.  |
| DTV Medical Facility Notification                         | Information not provided.  |
| FCC Filing Fees - Form 2100 minor change CP application   | Information not provided.  |
| FCC Filing Fees - Form 2100 license to cover application  | Information not provided.  |
| FCC Filing Fees - Special Temporary Authorization request | Information not provided.  |



|   |                           |
|---|---------------------------|
| Non-zoning permits                      | Information not provided. |
| Equipment Delivery and Handling Charges | Information not provided. |

**Cost  
Information**

**Grand Total**

|                       | Predetermined<br>Cost Estimate | Estimated Cost | Actual Cost    |
|-----------------------|--------------------------------|----------------|----------------|
| Total for all systems | \$3,302,918.32                 | \$2,755,622.50 | \$1,471,173.49 |

**Reimbursement Status**

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

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

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

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 , III**  
.  
*Assistant  
Secretary*

09/19/2019

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

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

|  |  |
|--|--|
| <p>8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.</p> <p>9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.</p> |  |
| <p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>  | <p><b>Robert Folliard , III</b><br/>.<br/><i>Assistant Secretary</i></p> <p>09/19/2019</p> |

## Attachments