

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Service: DTV Call WHSV-TV Channel: 20 (UHF) Facility Sign:

ID:

File 0000036132

Number:

FRN: 0018223693 Date 09/03

> Submitted: /2019

Applicant Information

Applicant Name, Type, and Contact Information

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

Reimbursement Contact Name and Information Reimbursement Contact Information

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

Preparer Contact Information

Preparer Contact Name and Information

| Applicant | Address | Phone | Email |
|----------------------------------|---|-------------------|--------------------------|
| Samuel Hariton Widelity, Inc. | Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 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. | No |
| 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 | Purchase New |
| | Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is this transmitter currently shared with another station? | No |
| | Is this transmitter currently in operating condition? | Yes |
| Existing Transmitter Manufacturer and Type | Manufacturer | |
| | Model | Ultimate /Optimum Dual Drive 5K |
| | Year | 2002 |
| | Туре | Solid State |
| | Solid State Cooling | Air Cooled |
| | Solid State Power Capacity | 5 kW |

Primary Transmitter

New Transmitter Costs

| Section | Question | Response |
|-----------------|---|---|
| New Transmitter | Use | Primary (Main) |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | Yes |
| | Manufacturer | |
| | Model | MPTV- Parallax U8 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 13 kW |
| | Justification for New Transmitter | Existing transmitter cannot be retuned, therefore need a new transmitter. |

Primary Transmitter

Other Transmitter Costs

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

| | Other Electrical Service | Yes |
|---|--|---|
| | Description | Bringing electrical service to the new site for the new transmitter because existing service at new site is insufficient. |
| HVAC Service | Does the replacement transmitter require HVAC Service? | Yes |
| | Туре | Heating and Cooling |
| | Size | 20 tons |
| | 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 Transmittor **Other Transmitter Cost Not Listed**

Transmitter Information not provided.

Antennas

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

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? | No |
| | Is antenna in operating condition? | Yes |
| | Is antenna located on or in close proximity to an antenna farm? | Yes |
| Existing Antenna Manufacturer and Type | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Horizontal |
| | Туре | 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) | 65.0 kW |

| Manufacturer | |
|--------------|---------------------|
| Model | ALP1212- HSOC-49 |
| Year | 2002 |

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? | Yes |
| | Will antenna be located on or in close proximity to an antenna farm? | Yes |
| New Antenna | Class | Full Power |
| Manufacturer and Types | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Elliptical |
| | Туре | Broadband Panel |
| | Number of Stations Supported | 1 |
| | Number of Panels/Bays | 12 |
| | Lower Limit | 470.00 MHz |
| | Upper Limit | 608.00 MHz |
| | Design power capacity in use | 100.0 % |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 271.0 kW |
| | Manufacturer | |
| | | 1 |

| Model | ETU6U4- ESP2C-20 |
|-------------------------------|---|
| Year | 2018 |
| Justification for New Antenna | Existing antenna cannot be retuned and will be used on the existing channel during transition. Antenna provides directional pattern to protect quiet zone Green Bank, WV. |

Other Antenna Costs

| Section | Question | Response |
|--------------------------------|---|----------|
| Combiner for Shared Antenna | Do you need a Combiner for a Shared Antenna? | No |
| | Туре | |
| | Number of channels supported | N/A |
| | Frequencies of channels supported | N/A |
| | Frequency | N/A |
| | Do you need a combiner output splitter /switcher for dual feed lines? | N/A |
| Elbow Complex | Do you require the separate purchase of the Elbow Complex? | No |
| | Broadband or Single Channel? | N/A |
| | Feed Line Size | N/A |

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

Other Antenna Cost Not Listed

Information not provided.

| Transmission ^{Seffien} | Question | Response |
|------------------------------------|---|----------|
| Transmission Line Related Expenses | Do you have transmission line related expenses? | Yes |

Primary Transmission Line

Existing Transmission Line

| on 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 | Manufacturer | |
| Line Manufacturer and Type | Туре | Flexible Air |
| | Diameter | 1 5/8 inches |
| | Other Diameter | N/A |
| | Segment Length | N/A |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 485 feet per run |

New Transmission Line

Primary Transmissio

| on 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? | Yes |
| | Туре | Flexible Air |
| | Diameter | 3 inches |
| | Other Diameter | N/A |
| | Segment Length | N/A |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 95 feet per run |
| | Justification for New Transmission Line | Relocating to a new site, require new line because the existing line will be used with existing antenna during the transition. |

Primary
Other Transmission Line Expenses Not Listed
Transmission Line tion 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 | 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 | 1017951 |
| Coordinates (NAD83 (North American Datum of 1983)) | Latitude (NAD83) | 38° 36' 05.0" N- |
| | Longitude (NAD83) | 078° 37' 56.0" W- |
| | Overall Structure Height | 336.94 feet |
| | Support Structure Height | 299.87 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 2956.00 fee |

| Structure Type | TOWER - Free Standing or Guyed Structure |
|------------------|--|
| Tower Owner | Gray Television Group, Inc. |
| Date Constructed | 12/01/1973 |

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 | 100.00 feet |
| | Justification for New Tower | Must change transmitter site to new location per Green Bank (NRAO), new site requires new tower. |

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 |
|--|--|--------------------|
| Services Costs 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 | No |
| | Quantity | N/A |
| | Do you have Distributed Transmission System engineering services? | N/A |
| | Critical Facility | N/A |
| | Terrain-Shielded Facility | N/A |
| Attorney and Other Outside Consulting | Prepare and file Form FCC Construction Permit Application | Yes |
| Services | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare and file Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |

| | Prepare request for Special Temporary Authority | No |
|----------------------------------|--|--|
| | Quantity | N/A |
| | NEPA Section 106 environmental review | Yes |
| | Environmental Assessment | Yes |
| | ASR Modification | Yes |
| | FAA Consultation (including preparation of FAA Form 7460) | Yes |
| | Negotiation of Lease and other Matter for Shared Locations | Yes |
| | Prepare or Review FCC Form 399 for Reimbursement | Yes |
| | Address transition timing and coordination issues w/ other stations and wireless providers | Yes |
| RF Field Engineering Services | Comprehensive coverage verification via field study | No |
| | RF exposure measurements | No |
| | Additional Field Engineering Service | Yes |
| | Number of Days | 10 |
| | Justification | Adjacent to NRAO site, need to address quiet zone issues. |

Outside
Professional Services Expenses Not Listed
Professional Services © pstsided.

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 | Yes |
| | Non-zoning permits | Yes |
| | BLM or NFS Coordination | Yes |
| | FCC Construction Permit Minor Change | No |
| | FCC License to Cover Application | Yes |
| | FCC Special Temporary Authority Application | No |
| 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? | 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 |
|---------------------|--|
| Microwave Equipment | Microwave equipment required to delivery station's signal to new transmitter site. |

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 MPTV- Parallax U8 | \$702,471.97 | \$627,537.07 | | \$590,506.57 | |
| 20 Ton system | \$115,500.00 | \$33,775.00 | Riddleberger Brothers Invoice #113133 | \$33,775.00 | N/A |
| UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW | \$494,500.00 | \$503,190.10 | See manufacturer's quote. | \$502,459.60 | N/A |
| Switchgear - industrial 800 amp | \$38,200.00 | \$36,300.00 | N/A | N/A | N/A |
| Other Electrical Service: Bringing electrical service to the new site for the new transmitter because existing service at new site is insufficient. | \$54,271.97 | \$54,271.97 | See electrical company estimate; GenServ LLC Quote #1326 also TTM invoice 70501 for network cabling | \$54,271.97 | per invoices received |
| Sub-total | \$702,471.97 | \$627,537.07 | N/A | \$590,506.57 | N/A |
| Total for all systems | \$1,905,081.71 | \$1,496,791.37 | N/A | \$1,217,595.80 | N/A |

Components

| Actual Information Description | File Name | |
|---|---------------------------------|--|
| 20 Ton system | Component Description: Amount: | Replace Two (2) 3- ton Units with Two (2) 5-ton Bard Units \$33,775.00 |
| UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW | Component Description: Amount: | System, WHSV PRLX U8 D20 \$25,536.80 |
| | Component Description: Amount: | Primary Transmitter System, WHSV PRLX U8 D20 \$178,757.60 |
| | Component Description: Amount: | Transmitter \$298,165.20 |
| | Component Description: Amount: | Hardware \$730.50 |
| | Component Description: Amount: | Invalid invoice N/A |
| Switchgear - industrial 800 amp | Information not provided. | |

Other Electrical Service:
Bringing electrical service to
the new site for the new
transmitter because existing
service at new site is
insufficient.

Component Description: One Kohler

Generator M #125REOZJG

Amount: \$54,216.86

Component Description: CAT 5 OUTDOOR,

5NF4

Amount: \$55.11

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 |
|--|--------------------------------|-------------------|--|-------------|---------------------|
| Primary Antenna ETU6U4- ESP2C-20 | \$423,230.00 | \$74,642.13 | | \$62,972.70 | |
| UHF - Lower Power Side Mount, One station antenna 200-500 kW, elliptically or circularly polarized | \$227,000.00 | \$42,978.69 | Per DTVPros Quote JEHQ1431- 01 - the previously reimbursed amount of \$25,263.44 has been removed from the previously approved amount of \$68,242.13 | \$31,309.26 | N/A |
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | N/A | \$6,400.00 | N/A |
| UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized | \$189,500.00 | \$25,263.44 | ***System Notice: Estimate adjusted and locked because line has been superseded. ***Per Quote JEHQ1431- 01 | \$25,263.44 | Please deny 174a |
| Sub-total | \$423,230.00 | \$74,642.13 | N/A | \$62,972.70 | N/A |

| Total for all systems | \$1,905,081.71 | \$1,496,791.37 | N/A | \$1,217,595.80 | N/A |
|-----------------------------|----------------|----------------|-----|----------------|-----|
| | | | | | |

Components

| Actual Information Description | File Name | |
|---|--------------------------------|--|
| UHF - Lower Power Side Mount, One station antenna 200-500 kW, elliptically or circularly polarized | Component Description: Amount: | Proposal B18- 1373 \$3,545.00 |
| | Component Description: | UHF-High power broadband side mount, Field |
| | Amount: | engineer, etc. \$12,606.19 |
| | Component Description: | New Primary Antenna |
| | Amount: | \$15,158.07 |

| Sweep test of existing | | |
|---------------------------|--|--------------------------|
| antenna | Component Description: | WHSV-210- |
| | | Primary Antenna |
| | | - Sweep Test |
| | Amount: | \$1,280.00 |
| | | |
| | Component Description: | Sweep Test New |
| | | Primary Antenna |
| | Amount: | \$1,600.00 |
| | | |
| | Component Description: | Sweep Test New |
| | | Primary Antenna |
| | Amount: | \$1,600.00 |
| | | |
| | Component Description: | Sweep Test New |
| | | Primary Antenna |
| | Amount: | \$1,920.00 |
| UHF - Lower Power Side | | |
| Mount, One station - 200- | Component Description: | Primary antenna; |
| 500 kW, horizontally | | UHF-High Power |
| polarized | | broadband side |
| | | mount (200- |
| | | 1000KW) |
| | Amount: | \$12,631.72 |
| | Commonant Description | Diagon de constitui |
| | Component Description: | Please deny this invoice |
| | Amount: | nvoice N/A |
| | Amount. | 1 V / / \ |
| | Component Description: | UHF- High Power |
| | Compension Socompain | Broadband Side |
| | The state of the s | |
| | | Mount |
| | Amount: | Mount \$12,631.72 |

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 | \$5,605.00 | \$9,837.43 | | \$9,837.43 | |
| Flexible Air Transmission Line - dielectric, 3" | \$5,605.00 | \$9,837.43 | See dealer's quote. | \$9,837.43 | Z |
| Sub-total | \$5,605.00 | \$9,837.43 | N/A | \$9,837.43 | N/A |
| Total for all systems | \$1,905,081.71 | \$1,496,791.37 | N/A | \$1,217,595.80 | N/A |

Components

| Actual Information | |
|---------------------------|-----------|
| Description | File Name |

Flexible Air Transmission Line - dielectric, 3"

Component Description: WHSV-310-

Primary

Transmission Line
- 3" Flexible Air

Dielectric

Amount: \$2,810.56

Component Description: New Primary

Transmission Line

Amount: \$1,414.65

Component Description: New Primary

Transmission Line

Amount: \$1,414.65

Component Description: New Primary

Transmission Line

Amount: \$1,697.57

Component Description: Provide One

ASCO 300

Transfer Switch

Amount: \$2,500.00

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 | \$348,559.74 | \$344,359.74 | | \$277,079.73 | |
| New tower | \$264,359.74 | \$264,359.74 | see Estimated Cost Justification WHSV-480- Construct New Tower v1 | \$264,359.73 | N/A |
| Short Tower (less than 500') | \$84,200.00 | \$80,000.00 | N/A | \$12,720.00 | N/A |
| Sub-total | \$348,559.74 | \$344,359.74 | N/A | \$277,079.73 | N/A |
| Total for all systems | \$1,905,081.71 | \$1,496,791.37 | N/A | \$1,217,595.80 | N/A |

Components

| Actual Information Description | File Name | |
|--------------------------------|------------------------|--|
| New tower | | |
| | Component Description: | Reimburse construction costs - Dominion Energy Virginia - Elliott's Knob |
| | Amount: | \$1,531.48 |

Component Description: Underground

conduit for shelter

Amount: \$16,970.00

Component Description: Materials **Amount:** \$45,063.00

Component Description: Removal vegetation

/Ant Mounts REPACK

Amount: \$12,900.00

Component Description: Shenandoah

Tower construction

Amount: \$61,132.67

Component Description: Install new

400amp service for

tower site,

customer installing

conduit.

Amount: \$222.26

Component Description: Trx #300245; Line

#1

Amount: \$61,132.66

Component Description: Tower analysis

Amount: \$2,800.00

Component Description: Perform structural

inspection in accordance with TIA 222G and document location

of all tower appurtenances

Amount: \$1,475.00

| | Component Description: Amount: | 1/3 Completion of FND \$61,132.66 |
|------------------------------|--------------------------------|---|
| Short Tower (less than 500') | | |
| | Component Description: Amount: | Trx #300244; Line #1 \$12,720.00 |

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 |
|--|-----------------------------|-------------------|------------------------------------|--------------|-------------|
| Outside Professional Services | \$212,430.00 | \$235,575.00 | | \$149,185.56 | |
| Additional Field Engineering Service, 10 Days | \$20,000.00 | \$20,000.00 | N/A | N/A | N/A |
| FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase | \$2,105.00 | \$2,000.00 | N/A | N/A | N/A |
| ASR modification (prepare FCC Form 854) | \$2,105.00 | \$2,000.00 | N/A | N/A | N/A |
| Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet | \$10,520.00 | \$10,000.00 | N/A | \$9,831.16 | N/A |
| NEPA Section 106 environmental review, if needed | \$6,310.00 | \$6,000.00 | N/A | \$1,174.00 | N/A |

| Perform | \$7,360.00 | \$35,500.00 | Quiet zone | \$31,687.50 | Z |
|--|--------------|--------------|--|-------------|-----|
| engineering study for new channel assignment and antenna development | | | Chesapeake RF Consultants invoice | | |
| Project management of the transition | \$142,200.00 | \$135,000.00 | N/A | \$93,021.74 | N/A |
| Prepare and or review reimbursement form | \$2,630.00 | \$2,500.00 | N/A | N/A | N/A |
| Address transition timing and coordination issues w/ other stations and wireless | \$2,630.00 | \$2,500.00 | N/A | \$0.00 | N/A |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | \$3,155.00 | \$7,325.00 | Quiet zone; Chesapeake RF Consultants, LLC Invoice #10267 | \$7,325.00 | N/A |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | \$1,580.00 | \$1,500.00 | N/A | \$0.00 | N/A |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | \$5,260.00 | \$5,000.00 | N/A | \$4,061.00 | N/A |

| Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application | \$2,365.00 | \$2,250.00 | N/A | \$589.50 | N/A |
|---|----------------|----------------|-----|----------------|-----|
| Attorney Fees - Negotiation of lease and other matters for shared locations | \$4,210.00 | \$4,000.00 | N/A | \$1,495.66 | N/A |
| Sub-total | \$212,430.00 | \$235,575.00 | N/A | \$149,185.56 | N/A |
| Total for all systems | \$1,905,081.71 | \$1,496,791.37 | N/A | \$1,217,595.80 | N/A |

Components

| Actual Information Description | File Name |
|--|---|
| Additional Field Engineering Service, 10 Days | Information not provided. |
| FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase | Information not provided. |
| ASR modification (prepare FCC Form 854) | Information not provided. |
| Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet | Component Description: Elliot Knob Biological Assesment \$9,831.16 |

NEPA Section 106 environmental review, if **Component Description:** Research and needed analyze applicability of Forest Service letter to need for environmental review. Amount: \$345.00 **Component Description:** NEPA Section 106 Environmental Review \$829.00 **Amount:** Perform engineering study for new channel **Component Description: Engineering Study** assignment and antenna for New Channel development Assignment Amount: \$325.00 **Component Description: Engineering Study** for New Channel Assignment Amount: \$375.00 **Component Description:**

Engineering Study

for New Channel

Assignment

Amount: \$1,812.50

Component Description: Consulting

> Engineer - J. Davis. Participate in telephone conference call regarding buildout of WHSV-TV

repack facility

\$125.00 **Amount:**

Component Description: Engineering Study

for New Channel Assignment

Amount: \$1,075.00

Component Description: Frequency study

Amount: \$1,425.00

Component Description: Engineering Study

for New Channel
Assignment

Amount: \$2,462.50

Component Description: Consulting

Engineer - J. Davis - Hourly (@ \$250

/hr)

Amount: \$250.00

Component Description: Provide NRAO

Quiet Zone

interference office with tech specs; discuss with FCC staff the coverage extension into loss area that will be

created

Amount: \$2,775.00

Component Description: Engineering Study

for New Channel Assignment

\$4,687.50

Component Description: Engineering Study

for New Channel

Assignment

Amount: \$250.00

Amount:

Component Description: Consulting

Engineer - J. Davis

- Hourly

Amount: \$1,050.00

Component Description: Re: prospective

digital replacement translators ar 4 sites, continued review of antenna vendor responses and discussions.

Amount: \$375.00

Component Description: Engineering Study

for New Channel

Assignment

Amount: \$3,475.00

Component Description: Prepare site

location map; provide NRAO Quiet Zone

interference office w/ specs of substitute

directional antenna.

Amount: \$2,125.00

Component Description: Engineering Study

for New Channel Assignment

Amount: \$1,287.50

Component Description: Develop final

technical
parameters for
prospective
displacement
facilities - re: 4
digital replacement

translators

Amount: \$5,662.50

Amount:

Amount:

Component Description: Engineering Study

for New Channel

Assignment \$1,125.00

Component Description: Provide coverage

contour map of WHSV-TV's repack facility and planned

translators.

Amount: \$587.50

Component Description: Engineering Study

for New Channel Assignment

\$437.50

Project management of the transition

Component Description: Project

Management

Amount: \$3,395.10

Component Description: Project

Management

Amount: \$6,234.80

Component Description: Project

Management

Amount: \$1,668.10

Component Description: Project

Management

Amount:

\$733.30

Component Description: Project

Management

Amount:

\$802.25

Component Description:

Project

Management

Amount:

\$951.45

Component Description:

Project

Amount:

Management \$3,545.70

Component Description:

Project

Amount:

Management \$2,962.20

Project

Component Description:

Management

Amount:

\$4,946.30

Component Description:

Amount:

Cost Reconciliation

\$8,285.45

Component Description:

Project

Amount:

Management

\$28.20

Component Description:

Project

Amount:

Management

\$2,231.90

Component Description: Project

Management

Amount:

\$1,916.50

Component Description:

Project

Amount:

Management \$4,093.05

Component Description:

Project

Amount:

Management \$1,856.30

Project

Component Description:

Management

Amount:

\$4,100.40

Component Description:

Project

Amount:

Management \$1,500.00

Component Description: Reference WHSV-

510-Project

Management
Widelity, Inc. GRY-

WHSV-TV-010

Amount: \$1,822.50

Component Description:

Professional

Services

Amount: \$

\$236.44

Component Description:

Project

Management

Amount: \$1,723.55

Component Description: Project

Management

Amount:

\$1,328.55

Component Description:

Project Management

Amount:

\$4,749.40

Component Description:

Project

Amount:

Management \$1,861.40

Component Description: Project

Management

Amount:

\$2,367.65

Component Description:

Project

Management

Amount:

\$7,014.40

Component Description:

Project

Amount:

Management \$2,022.90

Component Description:

Project

Amount:

Management \$4,977.10

Component Description:

Project

Amount:

Management \$1,795.60

Component Description:

Project

Amount:

Management

\$5,090.60

| | Component Description: Amount: | Project Management \$3,737.70 |
|---|---------------------------------|--|
| | Component Description: Amount: | Project Management \$5,042.95 |
| Prepare and or review reimbursement form | Information not provided. | |
| Address transition timing and coordination issues w/ other stations and wireless | Information not provided. | |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | Component Description: Amount: | RF Eng - Construction Permit Application (Main) \$3,000.00 |
| | Component Description: Amount: | RF Eng - Construction Permit Application (Main) \$275.00 |
| | Component Description: Amount: | Consulting Engineer \$4,050.00 |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | Information not provided. | |

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application

Component Description: Prepare and File

Construction
Permit Application

(Main)

Amount: \$851.50

Component Description: Attorney Fees

Prepare and File Construction

Permit Application

Amount: \$524.00

Component Description: Prepare and File

Construction
Permit Application

(Main)

Amount: \$1,637.50

Component Description: FCC Filing fees for

modified CP and construction waiver

request

Amount: \$1,048.00

Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application

Component Description: Professional

services: Complete and file WHSV

Repack

construction permit application. Call re: WHSV quiet zone concerns; email with FCC staff re:

same

Amount: \$589.50

Attorney Fees - Negotiation of lease and other matters for shared locations

Component Description:

Component Description:

Amount:

Legal services

\$123.00

Component Description: Prepare pro hac

vice motion

Amount: \$291.37

Total professional

services, total

Disbursements

Amount: \$697.00

Component Description: Professional

Services Rendered

through December

31, 2018

Amount: \$384.29

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 | \$212,785.00 | \$204,840.00 | | \$128,013.81 | |
| DTV Medical Facility Notification | \$11,550.00 | \$3,227.50 | N/A | N/A | N/A |
| Local Zoning | \$2,000.00 | \$2,000.00 | N/A | N/A | N/A |
| FCC Filing Fees - Form 2100 license to cover application | \$335.00 | \$712.50 | Chesapeake RF Consultants Invoice #4869 and Wiley Rein, LLP, Invoice #1479797 | \$712.50 | N/A |
| Non-zoning permits | \$6,325.00 | \$6,325.00 | N/A | \$6,325.00 | N/A |
| BLM or NFS Coordination | \$30,000.00 | \$30,000.00 | NFS coordination. | N/A | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | \$15,375.00 | \$15,375.00 | N/A | \$8,975.00 | N/A |
| Equipment Delivery and Handling Charges | \$20,000.00 | \$20,000.00 | N/A | \$8,276.40 | N/A |
| Develop and air announcement of upcoming channel change | \$5,000.00 | \$5,000.00 | N/A | N/A | N/A |

| Total for all systems | \$1,905,081.71 | \$1,496,791.37 | N/A | \$1,217,595.80 | N/A |
|--|----------------|----------------|-----------|----------------|-----|
| Sub-total | \$212,785.00 | \$204,840.00 | N/A | \$128,013.81 | N/A |
| Microwave Equipment | \$120,200.00 | \$120,200.00 | STL link. | \$101,724.91 | N/A |
| MVPD Notification of Channel Change | \$2,000.00 | \$2,000.00 | N/A | \$2,000.00 | N/A |

Components

| Actual Information Description | File Name | |
|--|---------------------------|--|
| DTV Medical Facility Notification | Information not provided. | |
| Local Zoning | Information not provided. | |
| FCC Filing Fees - Form 2100 license to cover application | Component Description: | Filing Fees- license to cover |
| | Amount: | \$190.00 |
| | Component Description: | WHSV-610-FCC Filing Fee - License to Cover |
| | Amount: | \$335.00 |
| | Component Description: | Regarding repack Ch-20 buildout at Elliott Knob, preparation and review of engineering portions of FCC application for license to cover. |
| | Amount: | \$187.50 |

| Non-zoning permits | | |
|--|---------------------------------|--|
| | Component Description: Amount: | Permit drawings \$6,325.00 |
| BLM or NFS Coordination | Information not provided. | |
| Disposal Costs (for equipment and other waste, net of any salvage value) | Component Description: Amount: | Disposal Costs \$8,975.00 |
| Equipment Delivery and Handling Charges | Component Description: Amount: | Equipment Delivery and Handling Charges \$8,276.40 |
| Develop and air announcement of upcoming channel change | Information not provided. | |
| MVPD Notification of | | |
| Channel Change | Component Description: | Prepare MVPD notification letters (Repack) |
| | Amount: | \$2,000.00 |
| Microwave Equipment | | |
| | Component Description: | Antenna Mounts and Waveguide |
| | Amount: | \$38,617.88 |
| | Component Description: | SW-16pt Netgear GIG SMRT GS716 |
| | Amount: | \$193.00 |
| | Component Description: | Microwave |
| | | system on-site installation |
| | Amount: | \$62,914.03 |

Cost Information

Grand Total

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|-----------------------|--------------------------------|----------------|----------------|
| Total for all systems | \$1,905,081.71 | \$1,496,791.37 | \$1,217,595.80 |

| Reimbursem | envestiatus | 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 |

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.
- 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.
- 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 abovenamed applicant for the Authorization(s) specified above. Robert Folliard , III

Assistant Secretary

09/03/2019

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.
- The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.
- The above-named entity acknowledges that all certifications and attached documentation are considered material representations.

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

- 8. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
- 9. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the abovenamed applicant for the Authorization(s) specified above. Robert Folliard , III

Assistant Secretary

09/03/2019

Attachments