



(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility **69444** | Service: **DTV** | Call **WUNM-TV** | Channel: **28 (UHF)**
ID: | Sign:
File **0000027173**
Number:
FRN: **0001910066** | Date **07/10**
Submitted: **/2019**

Applicant Information

Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|-------------------------------------|---------------------------|-------------|--------------------------|----------------------|
| University of North Carolina | PO Box 14900 Research | +1 (919) | fcc_notice@unctv. org | Government Entity |
| Doing Business As: | Triangle Park, | 549- | | |
| University of North Carolina | NC 27709 United States | 7000 | | |

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 |
|-------------------------------------|---------------------------------|----------|---------------|
| Donald Smith | Donald Smith | +1 (919) | dsmith@unctv. |
| <i>Director of New Technologies</i> | 10 T.W. Alexander | 549-7025 | org |
| <i>Compliance & Planning</i> | Drive | | |
| <i>University of North Carolina</i> | Research Triangle | | |
| <i>Center for Public Television</i> | Park, NC 27709 United States | | |

**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 | The transition plan is to construct a temporary interim facility at the existing site. The interim facility would be used when operation on the new channel begins. After that the necessary changes would be made to the primary transmission system. |

Transmitters

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

**Auxiliary
Transmitter****Add Transmitter Information**

| Section | Question | Response |
|---|--|-----------------------|
| Existing Transmitter Description | Type of change | Purchase New |
| | Use | Auxiliary (Backup) |
| | Description of Use | Aux |
| | 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 | LU2500ATD |
| | Year | 2008 |
| | Type | Solid State |
| | Solid State Cooling | Air Cooled |
| | Solid State Power Capacity | 2.5 kW |

**Auxiliary
Transmitter**

New Transmitter Costs

| Section | Question | Response |
|------------------------|---|--|
| New Transmitter | Use | Auxiliary (Backup) |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | No |
| | Manufacturer | |
| | Model | ULXTE-10 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 6 kW |
| | Justification for New Transmitter | The transmitter support company has indicated that they may be able to provide re-channelization proposals for some models. At this time they have failed to provide a proposal. See attachment for further details. |

**Auxiliary
Transmitter**

Other Transmitter Costs

| Section | Question | Response |
|---------------------------|---------------------------------------|----------|
| Electrical Service | Service Entrance (3 phases 800A 208V) | No |
| | Switchgear (industrial 800 amp) | No |
| | Transformer (480V) | Yes |
| | | |

| | | |
|--|---|--|
| | Power | 150 kVA |
| | Rigid Conduit and Wiring | Yes |
| | Size | 2 inches |
| | Length | 100.0 feet |
| | Other Electrical Service | Yes |
| | Description | Electrical feed disconnects and other items necessary to meet electrical code requirements |
| HVAC Service | Does the replacement transmitter require HVAC Service? | No |
| | Type | N/A |
| | Size | N/A |
| | Other Size | N/A |
| Transmitter Building Addition/Modification or Leasehold Improvement | Does the Transmitter Building require an addition, modification, other leasehold 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 |

Auxiliary Transmitter **Other Transmitter Cost Not Listed**
Information not provided.

**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 | HP50DDW |
| | Year | 2005 |
| | Type | Inductive Output Tube |
| | IOT Power Type | Two |
| | Power Capacity | 20 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 | ULXTE-50 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 29.6 kW |
| | Justification for New Transmitter | The transmitter support company has indicated the transmitter is obsolete and will not be able to provide re-channelization services for the transmitter. See attached letter. |

**Primary
Transmitter**

Other Transmitter Costs

| Section | Question | Response |
|--------------------|---------------------------------------|----------|
| Electrical Service | Service Entrance (3 phases 800A 208V) | No |
| | Switchgear (industrial 800 amp) | Yes |
| | Transformer (480V) | Yes |
| | Power | 150 kVA |
| | Rigid Conduit and Wiring | Yes |

| | | |
|--|---|--|
| | Size | 2 inches |
| | Length | 100.0 feet |
| | Other Electrical Service | Yes |
| | Description | Electrical feed disconnects and other items necessary to meet electrical code requirements |
| HVAC Service | Does the replacement transmitter require HVAC Service? | No |
| | Type | N/A |
| | Size | N/A |
| | Other Size | N/A |
| Transmitter Building Addition/Modification or Leasehold Improvement | Does the Transmitter Building require an addition, modification, other leasehold improvement? | No |
| | Size | N/A |
| Channel 14 Costs | Is an RF Consulting Engineer needed? | N/A |
| | Is a channel 14 Mask Filer needed? | N/A |
| | Is additional field engineering time needed? | N/A |
| | Number of Days | N/A |

Primary Transmitter **Other Transmitter Cost Not Listed**
Information not provided.

Antennas

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

Primary Antenna

Existing Antenna Information

| Section | Question | Response |
|---|--|--------------------|
| Existing Antenna Description | Type of change | Purchase New |
| | Antenna Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is the existing antenna shared with another station or stations? | No |
| | Is the existing antenna directional? | Yes |
| | Is antenna in operating condition? | Yes |
| | Is antenna located on or in close proximity to an antenna farm? | No |
| Existing Antenna Manufacturer and Type | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Elliptical |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels | N/A |
| | Design power capacity in use | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 100.0 kW |
| | | |

| | |
|--------------|-------------------------|
| Manufacturer | |
| Model | TFU-14DSC /VP-R P230 |
| Year | 2009 |

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? | Yes |
| | Will antenna be located on or in close proximity to an antenna farm? | No |
| New Antenna Manufacturer and Types | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Elliptical |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels/Bays | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Design power capacity in use | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 700.0 kW |
| | Manufacturer | |
| | | |

| | |
|-------------------------------|--|
| Model | TFU-28DSC /VP-R P230 |
| Year | 2019 |
| Justification for New Antenna | The antenna is a single channel slotted pylon style antenna. It cannot operate on a channel other than what it was designed, channel 19. The only viable option is to replace the antenna. |

Primary Antenna

Other Antenna Costs

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

| | | |
|---------------------------------|---|---------------------------|
| | Feed Line Size | 6 1/8 inches inches |
| Side Mount Brackets | Do you require the separate purchase of side mount brackets for a high power antenna? | Yes |
| Pattern Scatter Analysis | Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna? | Yes |
| Sweep Test | Do you require the sweep testing of transmission line and antenna? | Yes |

**Primary
Antenna**

Other Antenna Cost Not Listed

Information not provided.

**Interim
Antenna**

New Antenna Costs

| Section | Question | Response |
|--|--|--------------------|
| New Antenna Description | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | No |
| | Is antenna directional? | No |
| | Will antenna be located on or in close proximity to an antenna farm? | No |
| New Antenna Manufacturer and Type | Class | Full Power |
| | Mounting | Side Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Horizontal |
| | Type | Broadband Panel |
| | Number of Stations Supported | 1 |
| | Number of Panels/Bays | 8 |
| | Lower Limit | 470.00 MHz |
| | Upper Limit | 698.00 MHz |
| | Design power capacity in use | 15.0 % |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 60.0 kW |
| | Manufacturer | |
| | Model | TUA-O4-2 /8-S |
| | Year | 2001 |

| | | |
|--|-------------------------------|---|
| | Justification for New Antenna | This is an emergency antenna owned by the station. It is on the ground in a protected storage area. |
|--|-------------------------------|---|

**Interim
Antenna**

Other Antenna Costs

| Section | Question | Response |
|---------------------------------|---|----------|
| Elbow Complex | Do you require the separate purchase of the Elbow Complex? | No |
| | Broadband or Single Channel? | N/A |
| | Feed Line Size | N/A |
| Side Mount Brackets | Do you require the separate purchase of side mount brackets for an antenna? | 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 |

**Interim
Antenna**

Other Antenna Cost Not Listed

Information not provided.

Transmission Line

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

Interim Transmission Line

New Transmission Line

| Section | Question | Response |
|-----------------------------|-------------------------|------------------|
| New Transmission Line Costs | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Type | Flexible Air |
| | Diameter | 4 inches |
| | Segment Length | N/A |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 600 feet per run |

| | |
|---|---|
| Justification for New Transmission Line | A 2nd antenna installation is required in order to install the new antenna and keep the station on the air. The station owns a broadband panel antenna that can be used but needs transmission line to feed it. |
|---|---|

Interim Transmission Line

Other Transmission Line Expenses Not Listed

| Name | Description |
|---------------------------|---|
| Transmission line hangers | Hanger kits for securing transmission line to tower |
| Grounding kits | Ground Kits |
| Connectors | Connectors for ends of transmission line |
| Hoisting grip kits | Kit to lift line and attach to the tower |

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 | Move Equipment |
| | Tower Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Leased |
| | Is this tower consider Complex? | No |
| | Is this tower currently shared with any other stations? | Yes |
| | One or more FM, AM or TV radio broadcaster(s) | Yes |
| | Others Types of Users | No |
| | Is tower documented for structural analysis? | Unknown |
| | Is tower compliant with Rev G? | Unknown |
| Existing Tower Structure Registration | Do you have a tower registration number? | Yes |
| | ASR Number | 1011271 |
| Coordinates (NAD83 (North American Datum of 1983)) | Latitude (NAD83) | 35° 06' 16.0" N- |
| | Longitude (NAD83) | 077° 20' 11.0" W- |
| | Overall Structure Height | 1988.82 feet |
| | Support Structure Height | 1878.59 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 45.93 feet |
| | Structure Type | TOWER - Free Standing or Guyed Structure |

| | | |
|--|------------------|---|
| | Tower Owner | EASTERN NORTH CAROLINA BROADCASTING CORPORATION |
| | Date Constructed | 01/01/1981 |

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

| Facility ID | Call Sign | Service |
|-------------|-----------|---------|
| 18334 | WCTI-TV | DTV |
| 36950 | WRNS-FM | FM |
| 35582 | WYDO | DTV |

**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 Services Costs**

| Section | Question | Response |
|---|--|--|
| Outside Project Management Services | Do you require outside project management services? | Yes |
| | Number of Hours | 120 |
| | Explanation | Because the transmission site is owned by the State of North Carolina, it is subject to various state construction project rules. One rule is the hiring of a designer to create submittals for project review and approval by the state |
| Outside RF consulting Engineering Services | Perform engineering study for new channel assignment and antenna development | Yes |
| | Prepare engineering section of Form FCC Construction Permit Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare engineering section of Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare request for Special Temporary Authority | Yes |
| | Quantity | 1 |

| | | |
|---|--|-----|
| | Do you have Distributed Transmission System engineering services? | N/A |
| | Critical Facility | N/A |
| | Terrain-Shielded Facility | N/A |
| Attorney and Other Outside Consulting Services | Prepare and file Form FCC Construction Permit Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare and file Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | No |
| | For Main Facility | Yes |
| | Prepare request for Special Temporary Authority | Yes |
| | Quantity | 1 |
| | NEPA Section 106 environmental review | No |
| | Environmental Assessment | No |
| | ASR Modification | No |
| | FAA Consultation (including preparation of FAA Form 7460) | No |
| | Negotiation of Lease and other Matter for Shared Locations | 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 | No |
| | Number of Days | N/A |

| | | |
|--|---------------|-----|
| | Justification | N/A |
|--|---------------|-----|

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

| Name | Description |
|---------------------------|--|
| Additional Legal Expenses | Legal expenses for non-catalog advice and review, including transition status reports and other miscellaneous legal needs. |

Other Expenses

| Section | Question | Response |
|-------------------------------------|--|----------|
| AM Pattern Disturbance | Is an Impact Study needed? | No |
| | Is Remediation needed? | No |
| Facility Expenses | Name | N/A |
| | Other Distributed Transmission System Expenses Not listed | N/A |
| | Name | N/A |
| | Is Notification of a Medical Facility required as a result of DTV broadcasting? | Yes |
| Permit and Filing Costs | Local Zoning | No |
| | Non-zoning permits | No |
| | BLM or NFS Coordination | No |
| | FCC Construction Permit Minor Change | No |
| | FCC License to Cover Application | No |
| | 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 |
| | Information not provided. |

Cost Information

Transmitters

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|--|-----------------------------|---------------------|---|---------------------|---------------------------|
| Primary Transmitter ULXTE-50 | \$1,028,350.00 | \$430,815.98 | | \$191,333.99 | |
| Other Electrical Service: Electrical feed disconnects and other items necessary to meet electrical code requirements | <i>\$15,000.00</i> | \$15,000.00 | Estimate for non-categorized items necessary to meet electrical code requirements | N/A | N/A |
| 2" Rigid Conduit and Wiring (Cost per foot) | \$2,600.00 | \$2,500.00 | N/A | N/A | N/A |
| Transformer 3 phase /480v - 150 KVA | \$25,550.00 | \$24,300.00 | N/A | \$1,958.60 | N/A |
| Switchgear - industrial 800 amp | \$38,200.00 | \$36,300.00 | N/A | N/A | N/A |

| | | | | | |
|--|---------------------|---------------------|--|--------------------|-----|
| UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW | \$947,000.00 | \$352,715.98 | The estimated cost is for the approved GatesAir ULXTE-30 transmitter. The transmitter purchase has been upgraded to a ULXTE- 50. It is understood that the station is responsible for the upgrade portion of the purchase price. | \$189,375.39 | N/A |
| Auxiliary Transmitter ULXTE-10 | \$326,550.00 | \$201,863.16 | | \$87,478.58 | |
| Other Electrical Service: Electrical feed disconnects and other items necessary to meet electrical code requirements | \$24,900.00 | \$24,900.00 | Estimate for non- categorized items necessary to meet electrical code requirements | N/A | N/A |
| 2" Rigid Conduit and Wiring (Cost per foot) | \$2,600.00 | \$2,500.00 | N/A | N/A | N/A |

| | | | | | |
|---|----------------|----------------|--|--------------|-----|
| Transformer 3 phase /480v - 150 KVA | \$25,550.00 | \$24,300.00 | N/A | \$1,958.60 | N/A |
| UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW | \$273,500.00 | \$150,163.16 | See antenna narrative with quotes | \$85,519.98 | N/A |
| Sub-total | \$1,354,900.00 | \$632,679.14 | N/A | \$278,812.57 | N/A |
| Total for all systems | \$2,064,813.00 | \$1,325,768.14 | N/A | \$477,728.01 | N/A |

Components

| Actual Information | |
|--|--|
| Description | File Name |
| Other Electrical Service: Electrical feed disconnects and other items necessary to meet electrical code requirements | Information not provided. |
| 2" Rigid Conduit and Wiring (Cost per foot) | Information not provided. |
| Transformer 3 phase/480v - 150 KVA | <p>Component Description: 50% Transformer see quote line #16. Purchase Order for all 11 sites.</p> <p>Amount: \$1,958.60</p> |
| Switchgear - industrial 800 amp | Information not provided. |

| | |
|--|---|
| UHF - Liquid Cooled Solid State Transmitter 21 - 31 kW | <p>Component Description: 50% Main Transmitter & Installation. Installation included w /Transmitter on Form 399. Transformer separate 399 line item. Purchase Order for all 11 sites.</p> <p>Amount: \$189,375.39</p> |
| Other Electrical Service: Electrical feed disconnects and other items necessary to meet electrical code requirements | Information not provided. |
| 2" Rigid Conduit and Wiring (Cost per foot) | Information not provided. |
| Transformer 3 phase/480v - 150 KVA | <p>Component Description: 50% Transformer see quote line #16. Purchase Order for all 11 sites.</p> <p>Amount: \$1,958.60</p> |
| UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW | <p>Component Description: 50% Aux Transmitter & Installation. Installation included w /Transmitter on Form 399. Transformer separate 399 line item. Purchase Order for all 11 sites.</p> <p>Amount: \$85,519.98</p> |

**Cost
Information**

Antennas

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---|--------------------------------|---------------------|---|--------------------|------------------------------|
| Interim Antenna TUA-O4-2/8- S | \$96,130.00 | \$6,400.00 | | \$0.00 | |
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | N/A | N/A | N/A |
| UHF “ Broadband Panel, Side Mount Auxiliary /Interim, 60 horizontally polarized | <i>\$0.00</i> | \$0.00 | N/A | N/A | N/A |
| UHF - Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally polarized | \$89,400.00 | \$0.00 | The antenna in owned by the station and is an antenna to be used in case of antenna system failure. | N/A | N/A |
| Primary Antenna TFU-28DSC /VP-R P230 | \$184,400.00 | \$182,060.00 | | \$77,338.80 | |

| | | | | | |
|--|---------------------|---------------------|--|--------------------|------------|
| UHF - High Power, Side Mount, basic slot antenna, 700 kW input, directional,, elliptically or circularly polarized | \$136,960.00 | \$136,960.00 | See Antenna narrative with attached quotes | \$61,632.00 | N/A |
| Sweep test of existing antenna | \$6,730.00 | \$6,400.00 | N/A | \$2,880.00 | N/A |
| Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed) | \$12,300.00 | \$11,700.00 | N/A | \$4,942.80 | N/A |
| Side mount brackets for high power antennas (if not included in antenna base cost) | \$23,150.00 | \$22,000.00 | N/A | \$7,884.00 | N/A |
| Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost) | \$5,260.00 | \$5,000.00 | N/A | N/A | N/A |
| Sub-total | \$280,530.00 | \$188,460.00 | N/A | \$77,338.80 | N/A |

| | | | | | |
|------------------------------|----------------|----------------|-----|--------------|-----|
| Total for all systems | \$2,064,813.00 | \$1,325,768.14 | N/A | \$477,728.01 | N/A |
|------------------------------|----------------|----------------|-----|--------------|-----|

Components

| Actual Information | |
|--|--|
| Description | File Name |
| Sweep test of existing antenna | Information not provided. |
| UHF â€œ Broadband Panel, Side Mount Auxiliary /Interim, 60 horizontally polarized | Information not provided. |
| UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized | Information not provided. |
| UHF - High Power, Side Mount, basic slot antenna, 700 kW input, directional,, elliptically or circularly polarized | <div> <div>Component Description:</div> <div>See Page 1 Attachment for Detail Invoice, Quote, PO, Payment Responsibility Analysis 45% Due w/Order UHF Hi Power Side Mount w/VP</div> </div> <div> <div>Amount:</div> <div>\$61,632.00</div> </div> |
| Sweep test of existing antenna | <div> <div>Component Description:</div> <div>See Page 1 Attachment for Detail Invoice, Quote, PO, Payment Responsibility Analysis 45% Due w/Order Sweep Test</div> </div> <div> <div>Amount:</div> <div>\$2,880.00</div> </div> |

| | |
|---|--|
| <p>Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)</p> | <p>Component Description: See Page 1 Attachment for Detail Invoice, Quote, PO, Payment Responsibility Analysis 45% Due w/Order Elbow Complex</p> <p>Amount: \$4,942.80</p> |
| <p>Side mount brackets for high power antennas (if not included in antenna base cost)</p> | <p>Component Description: See Page 1 Attachment for Detail Invoice, Quote, PO, Payment Responsibility Analysis 45% Due w/Order Mounting Brackets</p> <p>Amount: \$7,884.00</p> |
| <p>Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)</p> | <p>Information not provided.</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 |
|---|-----------------------------|----------------|-----------------------------------|--------------|---------------------------|
| Interim Transmission Line | \$53,900.00 | \$51,500.00 | | \$0.00 | |
| Hoisting grip kits | <i>\$800.00</i> | \$800.00 | Manufacturer preliminary estimate | N/A | N/A |
| Connectors | <i>\$6,500.00</i> | \$6,500.00 | Manufacturer preliminary estimate | N/A | N/A |
| Grounding kits | <i>\$200.00</i> | \$200.00 | Manufacturer preliminary estimate | N/A | N/A |
| Transmission line hangers | <i>\$2,000.00</i> | \$2,000.00 | Manufacturer preliminary estimate | N/A | N/A |
| Flexible Air Transmission Line - dielectric, 4" | \$44,400.00 | \$42,000.00 | N/A | N/A | N/A |
| Sub-total | \$53,900.00 | \$51,500.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$2,064,813.00 | \$1,325,768.14 | N/A | \$477,728.01 | N/A |

Components

Information not provided.

Cost
Information

Tower Equipment and Rigging Costs

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|--------------------------------------|--------------------------------|-------------------|------------------------------------|--------------|------------------------------|
| Primary Tower TOWER | \$210,500.00 | \$200,000.00 | | \$0.00 | |
| Tall Tower (greater than 500') | \$210,500.00 | \$200,000.00 | N/A | N/A | N/A |
| Sub-total | \$210,500.00 | \$200,000.00 | N/A | \$0.00 | N/A |
| Total for all systems | \$2,064,813.00 | \$1,325,768.14 | N/A | \$477,728.01 | N/A |

Components

Information not provided.

Cost Information

Outside Professional Services

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|--|-----------------------------|---------------------|--|--------------------|---------------------------|
| Outside Professional Services | \$78,380.00 | \$172,076.00 | | \$98,747.89 | |
| Project management of the transition | \$18,960.00 | \$119,826.00 | See attachment "WUNM Program Designer - Manager Narrative" for details on estimated cost | \$91,991.76 | N/A |
| Additional Legal Expenses | <i>\$24,500.00</i> | \$24,500.00 | Estimate for legal expenses for non-catalog advice and review including transition status reports and other miscellaneous legal needs. | \$4,068.63 | N/A |
| Attorney Fees - Prepare and File request for Special Temporary Authorization | \$3,680.00 | \$3,500.00 | N/A | N/A | N/A |
| Attorney Fees - Negotiation of lease and other matters for shared locations | \$4,210.00 | \$4,000.00 | 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 | N/A | N/A |
| Prepare request for Special Temporary Authorization | \$2,050.00 | \$1,500.00 | N/A | N/A | N/A |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | \$1,580.00 | \$1,500.00 | N/A | N/A | N/A |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | \$3,155.00 | \$3,000.00 | N/A | \$1,862.50 | N/A |
| Perform engineering study for new channel assignment and antenna development | \$7,360.00 | \$2,000.00 | N/A | \$825.00 | N/A |

| | | | | | |
|--|----------------|----------------|-----|--------------|-----|
| Address transition timing and coordination issues w/ other stations and wireless | \$2,630.00 | \$2,500.00 | N/A | N/A | N/A |
| Prepare and or review reimbursement form | \$2,630.00 | \$2,500.00 | N/A | N/A | N/A |
| Sub-total | \$78,380.00 | \$172,076.00 | N/A | \$98,747.89 | N/A |
| Total for all systems | \$2,064,813.00 | \$1,325,768.14 | N/A | \$477,728.01 | N/A |

Components

| Actual Information | |
|--------------------------------------|---|
| Description | File Name |
| Project management of the transition | <div> <div>Component Description:</div> <div>Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract /Invoice Summary.</div> </div> <div> <div>Amount:</div> <div>\$4,504.97</div> </div> <div> <div>Component Description:</div> <div>Outside Professional Services Project Management See attachment pg. 3 & 4 for Project Summary</div> </div> <div> <div>Amount:</div> <div>\$6,703.50</div> </div> |

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|-------------------------------|--|
| Component Description: | Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract /Invoice Summary. |
| Amount: | \$5,383.09 |

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|-------------------------------|---|
| Component Description: | Outside Professional Services Project Management See attachment pg. 3 & 4 for Project Summary |
| Amount: | \$9,022.50 |

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|-------------------------------|--|
| Component Description: | Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract /Invoice Summary. |
| Amount: | \$12,541.80 |

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|-------------------------------|--|
| Component Description: | Outside Professional Services Project Management of Transition See attachment pg 3-5 for Contract /Invoice Summary. |
| Amount: | \$53,835.90 |

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|---------------------------|--|
| | <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Outside Professional Services Project Management</div> <div>\$9,022.50</div> </div> |
| Additional Legal Expenses | <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Outside Professional Services Additional Legal Expenses</div> <div>\$33.70</div> </div> |
| | <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 572.90/11 equal 52.08 as outlined on page 1 of invoice.</div> <div>\$52.08</div> </div> |
| | <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Outside Professional Services Additional Legal Expenses</div> <div>\$70.00</div> </div> |
| | <div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Outside Professional Services Additional Legal Expenses</div> <div>\$105.00</div> </div> |

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|-------------------------------|--|
| Component Description: | Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 350.00/11 equal 31.82 as outlined on page 1 of invoice. |
| Amount: | \$31.82 |

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|-------------------------------|--|
| Component Description: | Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 1617.10/11 equal 147.01 as outlined on page 1 of invoice. |
| Amount: | \$147.01 |

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|-------------------------------|---|
| Component Description: | Outside Professional Services Additional Legal Expenses |
| Amount: | \$852.00 |

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|-------------------------------|---|
| Component Description: | Outside Professional Services Additional Legal Expenses |
| Amount: | \$182.50 |

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|-------------------------------|--|
| Component Description: | Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 2594.40/11 equal 235.85 as outlined on page 1 of invoice. |
| Amount: | \$235.85 |

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|-------------------------------|---|
| Component Description: | Outside Professional Services Additional Legal Expenses |
| Amount: | \$105.00 |

| | |
|-------------------------------|---|
| Component Description: | Outside Professional Services Additional Legal Expenses |
| Amount: | \$73.00 |

| | |
|-------------------------------|--|
| Component Description: | Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 2059.90/11 equal 187.26 as outlined on page 1 of invoice. |
| Amount: | \$187.26 |

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|-------------------------------|---|
| Component Description: | Outside Professional Services Additional Legal Expenses |
| Amount: | \$35.00 |

| | |
|-------------------------------|--|
| Component Description: | Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 368.00/11 equal 33.46 as outlined on page 1 of invoice. |
| Amount: | \$33.46 |

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|-------------------------------|---|
| Component Description: | Outside Professional Services Additional Legal Expenses |
| Amount: | \$471.80 |

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|-------------------------------|---|
| Component Description: | Outside Professional Services Additional Legal Expenses |
| Amount: | \$35.00 |

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|-------------------------------|---|
| Component Description: | Outside Professional Services Additional Legal Expenses |
| Amount: | \$175.00 |

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|-------------------------------|---|
| Component Description: | Outside Professional Services Additional Legal Expense Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 168.50/11 equal 15.32 as outlined on page 1 of invoice. |
| Amount: | \$15.32 |

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| Component Description: | Outside Professional Services Additional Legal Expenses |
| Amount: | \$35.00 |

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|-------------------------------|--|
| Component Description: | Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$70.00/11 as indicated on page 1 of Invoice |
| Amount: | \$6.36 |

| | |
|-------------------------------|--|
| Component Description: | Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 175.00/11 equal 15.91 as outlined on page 1 of invoice. |
| Amount: | \$15.91 |

Component Description:

Outside
Professional
Services
Additional Legal
Expenses Legal
services benefit
entire FCC
Repack project
across all 11 Call
Signs/Facility IDs,
315.00/11 equal
28.64 as outlined
on page 1 of
invoice.

Amount:

\$28.64

Component Description:

Outside
Professional
Services
Additional Legal
Expenses Legal
services benefit
entire FCC
Repack project
across all 11 Call
Signs/Facility IDs,
323.00/11 equal
29.36 as outlined
on page 1 of
invoice.

Amount:

\$29.36

| | |
|-------------------------------|--|
| Component Description: | Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 402.00/11 equal 36.55 as outlined on page 1 of invoice. |
| Amount: | \$36.55 |

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|-------------------------------|--|
| Component Description: | Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across 10 of the 11 Call Signs /Facility IDs, 3378.88/10 equal 337.89 as outlined on page 1 of invoice. |
| Amount: | \$337.89 |

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|-------------------------------|---|
| Component Description: | Outside Professional Services Additional Legal Expenses |
| Amount: | \$35.00 |

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|-------------------------------|---|
| Component Description: | Outside Professional Services Additional Legal Expenses |
| Amount: | \$134.90 |

| | |
|-------------------------------|--|
| Component Description: | Outside Professional Services Additional Legal Expenses Invoice applies to all 11 repack stations, amount requested reflects portion payable per Station: \$245.00 /11 as indicated on page 1 of Invoice |
| Amount: | \$22.27 |

| | |
|-------------------------------|--|
| Component Description: | Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 3472.00/11 equal 315.64 as outlined on page 1 of invoice. |
| Amount: | \$315.64 |

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|-------------------------------|---|
| Component Description: | Outside Professional Services Additional Legal Expenses |
| Amount: | \$67.40 |

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|-------------------------------|--|
| Component Description: | Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 67.40/11 equal 6.13 as outlined on page 1 of invoice. |
| Amount: | \$6.13 |

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|-------------------------------|--|
| Component Description: | Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 765.00/11 equal 69.55 as outlined on page 1 of invoice. |
| Amount: | \$69.55 |

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| | <p>Component Description:</p> <p>Outside Professional Services Additional Legal Expenses Legal services benefit entire FCC Repack project across all 11 Call Signs/Facility IDs, 959.50/11 equal 87.23 as outlined on page 1 of invoice.</p> <p>Amount:</p> <p>\$87.23</p> |
| Attorney Fees - Prepare and File request for Special Temporary Authorization | Information not provided. |
| Attorney Fees - Negotiation of lease and other matters for shared locations | Information not provided. |
| Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application | Information not provided. |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | Information not provided. |
| Prepare request for Special Temporary Authorization | Information not provided. |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | Information not provided. |

| | |
|--|--|
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | <p>Component Description:</p> <p>Outside Professional Services Engineering Section FCC Form 2100 Construction Permit Application Primary/Main</p> <p>Amount:</p> <p>\$1,862.50</p> |
| Perform engineering study for new channel assignment and antenna development | <p>Component Description:</p> <p>Outside Professional Services Engineering Study New Channel Assignment Antenna Development</p> <p>Amount:</p> <p>\$825.00</p> |
| Address transition timing and coordination issues w/ other stations and wireless | Information not provided. |
| Prepare and or review reimbursement form | Information not provided. |

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 | \$86,603.00 | \$81,053.00 | | \$22,828.75 | |
| MVPD Notification of Channel Change | <i>\$5,500.00</i> | \$5,500.00 | Preliminary estimate for service | N/A | N/A |
| Develop and air announcement of upcoming channel change | <i>\$2,000.00</i> | \$2,000.00 | Preliminary estimate | N/A | N/A |
| Equipment Delivery and Handling Charges | <i>\$6,000.00</i> | \$6,000.00 | Preliminary estimate | N/A | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | <i>\$61,553.00</i> | \$61,553.00 | Quotes attached | \$19,878.75 | N/A |
| DTV Medical Facility Notification | \$11,550.00 | \$6,000.00 | Preliminary estimate for service | \$2,950.00 | N/A |
| Sub-total | \$86,603.00 | \$81,053.00 | N/A | \$22,828.75 | N/A |
| Total for all systems | \$2,064,813.00 | \$1,325,768.14 | N/A | \$477,728.01 | N/A |

Components

Actual Information

| Description | File Name |
|-------------|-----------|
|-------------|-----------|

| | |
|--|--|
| MVPD Notification of Channel Change | Information not provided. |
| Develop and air announcement of upcoming channel change | Information not provided. |
| Equipment Delivery and Handling Charges | Information not provided. |
| Disposal Costs (for equipment and other waste, net of any salvage value) | <div> <div> Component Description: </div> <div> 50% Transmitter Removal. Purchase Order for all 11 sites. </div> </div> <div> <div> Amount: </div> <div> \$19,878.75 </div> </div> |
| DTV Medical Facility Notification | <div> <div> Component Description: </div> <div> Medical Notification, PO /Quote for multiple call /locations. </div> </div> <div> <div> Amount: </div> <div> \$2,950.00 </div> </div> |

**Cost
Information****Grand Total**

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|------------------------------|--|-----------------------|--------------------|
| Total for all systems | \$2,064,813.00 | \$1,325,768.14 | \$477,728.01 |

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"> 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.

| | |
|---|---|
| <p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p> | |
| <p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p> | <p>Donald Smith <i>Director of New Technologies Compliance & Planning</i></p> <p>07/10/2019</p> |

| 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"> 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. 2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct. 3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. | |

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

| | |
|--|---|
| <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>Robert Levin <i>Director of Finance and Administration</i></p> <p>07/10/2019</p> |

Attachments