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

Federal Communications Commission

(REFERENCE COPY - Not for submission)

# FCC Form 399: Reimbursement Request

Facility ID: **51991** | Service: **DTV** | Call Sign: **WPSD-TV** | Channel: **19 (UHF)**

File Number: **0000027228**

FRN: **0003763927** | Date Submitted: **09/27/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

| Applicant | Address | Phone | Email | Applicant Type |
|---|---|---|---|---|
| **WPSD-TV, LLC** Doing Business As: WPSD-TV, LLC | Richard E. Paxton 201 SOUTH 4TH STREET PADUCAH, KY 42002 United States | +1 (202) 662-5120 | RPAXTON@PAXTONMEDIA.COM | Limited Liability Company |

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

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

## Preparer Contact Information

### Preparer Contact Name and Information

| Applicant | Address | Phone | Email |
|---|---|---|---|
| **Dan Wilson** *WPSD Chief Engineer* *WPSD TV, LLC* | 100 Television Lane Paducah , KY 42003 United States | +1 (270) 415-1938 | dwilson@wpsdlocal6.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 | We will install a DTV 32 aux TX in the existing building feeding a side mount antenna with 4" flex @ 800' level with a ERP of 200 kW. Once the aux is online, we will then remove the main DTV 32 TX and install a new DTV 19 TX that will feed a new antenna |

## 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 | CD3200P2-CF |
| | Year | 2003 |
| | Type | Inductive Output Tube |
| | IOT Power Type | Two |
| | Power Capacity | 50 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 72 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 47.2 kW |
| | Justification for New Transmitter | Our existing DTV channel 32 is not tunable or upgradable to channel 19. |

## 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 | 300 kVA |
| | Rigid Conduit and Wiring | No |
| | Size | N/A |
| | Length | N/A |

| | | |
|---|---|---|
| | Other Electrical Service | No |
| | Description | N/A |
| **HVAC Service** | Does the replacement transmitter require HVAC Service? | Yes |
| | Type | Cooling Only |
| | Size | 5 tons |
| | Other Size | N/A |
| **Transmitter Building Addition/Modification or Leasehold Improvement** | Does the Transmitter Building require an addition, modification, other leashold improvement? | Yes |
| | Size | 500.0 square feet |
| **Channel 14 Costs** | Is an RF Consulting Engineer needed? | N/A |
| | Is a channel 14 Mask Filer needed? | N/A |
| | Is additional field engineering time needed? | N/A |
| | Number of Days | N/A |

## Primary Transmitter

### Other Transmitter Cost Not Listed

Information not provided.

## Interim Transmitter

### New Transmitter Costs

| Section | Question | Response |
|---|---|---|
| **New Transmitter** | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase |
| | Manufacturer | |
| | Model | ULXTE-30 |
| | Transmitter Type | Solid State |
| | Solid State Cooling | Liquid Cooled |
| | Solid State Power capacity | 20 kW |
| | Justification for New Transmitter | We will need a temporary TX to operate on ch. 32 while the new main ch. 19 is installed. The TX building doesn't have space or utilities for 2 main TX's to co-exist. There would be enough space for a small temporary TX. |

## Interim 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 | 50.0 feet |
| | Other Electrical Service | Yes |
| | Description | 200A disconnect and distribution panel |
| **HVAC Service** | Does the replacement transmitter require HVAC Service? | No |
| | Type | N/A |
| | Size | N/A |
| | Other Size | N/A |
| **Transmitter Building Addition/Modification or Leasehold Improvement** | Does the Transmitter Building require an addition, modification, other leashold improvement? | No |
| | Size | N/A |
| **Channel 14 Costs** | Is an RF Consulting Engineer needed? | N/A |
| | Is a channel 14 Mask Filer needed? | N/A |
| | Is additional field engineering time needed? | N/A |
| | Number of Days | N/A |
| **Inside RF System** | Is an additional interior RF system required to support this interim transmitter? | Yes |

## Interim 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? | No |
| | 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 | Top Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Horizontal |
| | 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) | 906.0 kW |
| | | |

| | |
|---|---|
| Manufacturer | |
| Model | TUV-36GTH /4MR O4 |
| Year | 2003 |

## Primary Antenna

### New Antenna Costs

| Section | Question | Response |
|---|---|---|
| **New Antenna Description** | Use | Primary (Main) |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Is this a request for upgraded equipment? | Yes |
| | Ownership | Owned |
| | Owner | N/A |
| | Is antenna shared? | No |
| | Is antenna directional? | No |
| | Will antenna be located on or in close proximity to an antenna farm? | No |
| **New Antenna Manufacturer and Types** | Class | Full Power |
| | Mounting | Top Mount |
| | Antenna position in stack | Not in Stack |
| | Polarization | Elliptical |
| | Type | Slotted Coaxial |
| | Number of Stations Supported | N/A |
| | Number of Panels/Bays | N/A |
| | Lower Limit | N/A |
| | Upper Limit | N/A |
| | Design power capacity in use | N/A |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 679.0 kW |
| | Manufacturer | |

| | |
|---|---|
| Model | TFU-31JTH /VP-R 04 |
| Year | 2017 |
| Justification for New Antenna | Existing DTV 32 antenna is not tunable and is stacked with a NTSC channel 6. |

## 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? | 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 |

**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 | 473.00 MHz |
| | Upper Limit | 695.00 MHz |
| | Design power capacity in use | 95.0 % |
| | Other Antenna Type | N/A |
| | ERP: (Effective Radiated Power) | 200.0 kW |
| | Manufacturer | |
| | Model | TFU-8WB-C160 |
| | Year | 2017 |

| | | |
|---|---|---|
| | Justification for New Antenna | Needed for continued operation on ch. 32 while the existing main TX 32 is removed and then replaced with the new ch. 19 TX. The temporary TX will be retunable to ch. 19 and then afterward designated as an backup TX. |

**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 |

## Primary Transmission Line

### Existing Transmission Line

| Section | Question | Response |
|---|---|---|
| **Existing Transmission Line Description** | Type of change | Utilize Existing |
| | Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Owner | N/A |
| | Site | N/A |
| | Is the existing transmission line shared with another station or stations? | No |
| | Is Transmission Line in operating condition? | Yes |
| **Existing Transmission Line Manufacturer and Type** | Manufacturer | Dielectric |
| | Type | Rigid |
| | Diameter | 7 3/16 inches |
| | Other Diameter | N/A |
| | Segment Length | 20 inches |
| | Other Segment Length | N/A |
| | Number of parallel runs | 1 |
| | Length | 1650 feet per run |

## Primary Transmission Line

### Other Transmission Line Expenses Not Listed

Information not provided.

## Interim Transmission Line

### New Transmission Line

| Section | Question | Response |
|---|---|---|
| **New Transmission Line Costs** | Use | Interim |
| | Description of Use | N/A |
| | Change Type | Purchase New |
| | Type | Flexible Air |
| | Diameter | 4 inches |
| | Segment Length | N/A |
| | Other Segment Length | |
| | Number of parallel runs | 1 |
| | Length | 900 feet per run |

| | |
|---|---|
| Justification for New Transmission Line | This line will be needed for the temporary or aux TX and antenna which will be installed in the TX building. This TX will be the temporary ch. 32 on air while the existing main TX is removed. The new ch. 19 can then be installed. |

**Interim Transmission Line**

**Other Transmission Line Expenses Not Listed**

Information not provided.

## Tower Equipment And Rigging Costs

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

## Primary Tower

### Existing Tower

| Section | Question | Response |
|---|---|---|
| **Existing Tower Description** | Type of change | Modify Existing |
| | Tower Use | Primary (Main) |
| | Description of Use | N/A |
| | Ownership | Owned |
| | Is this tower consider Complex? | No |
| | Is this tower currently shared with any other stations? | No |
| | One or more FM, AM or TV radio broadcaster(s) | N/A |
| | Others Types of Users | N/A |
| | Is tower documented for structural analysis? | Yes |
| | Is tower compliant with Rev G? | No |
| **Existing Tower Structure Registration** | Do you have a tower registration number? | Yes |
| | ASR Number | 1042698 |
| **Coordinates (NAD83 ( North American Datum of 1983))** | Latitude (NAD83) | 37° 11' 31.2" N- |
| | Longitude (NAD83) | 088° 58' 53.2" W- |
| | Overall Structure Height | 1626.95 feet |
| | Support Structure Height | 1550.83 feet |
| | Ground Elevation Above Mean Sea Level (AMSL) | 361.87 feet |

| | |
|---|---|
| Structure Type | TOWER - Free Standing or Guyed Structure |
| Tower Owner | WPSD-TV, LLC |
| Date Constructed | 04/13/2004 |

**Primary Tower**

### Tower Modification Costs

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

**Primary Tower**

### Tower Rigging Costs

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

**Primary Tower**

### Other Tower Expenses Not Listed

Information not provided.

## Outside Professional Services Costs

| Section | Question | Response |
|---|---|---|
| **Outside Project Management Services** | Do you require outside project management services? | Yes |
| | Number of Hours | 1000 |
| | Explanation | Because of the complexity of our TX site and the age of the tower, we will need severe tower modifications in order to comply with the new G type mods. The last analysis was in 2003 for F type mods. Installing an aux TX will be a needed to stay on air. |
| **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 | Yes |
| | For Main Facility | Yes |
| | Prepare engineering section of Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | Yes |
| | 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 | Yes |
| | For Main Facility | Yes |
| | Prepare and file Form FCC License to Cover Application | Yes |
| | For Auxiliary Facility | Yes |
| | For Main Facility | Yes |
| | Prepare request for Special Temporary Authority | Yes |
| | Quantity | 1 |
| | 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 | No |
| | Prepare or Review FCC Form 399 for Reimbursement | Yes |
| | Address transition timing and coordination issues w/ other stations and wireless providers | Yes |
| **RF Field Engineering Services** | Comprehensive coverage verification via field study | Yes |
| | RF exposure measurements | Yes |
| | Additional Field Engineering Service | No |
| | Number of Days | N/A |

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

## Outside Professional Services Costs

**Other Professional Services Expenses Not Listed**

Information not provided.

## Other Expenses

| Section | Question | Response |
|---|---|---|
| **AM Pattern Disturbance** | Is an Impact Study needed? | No |
| | Is Remediation needed? | No |
| **Facility Expenses** | Name | N/A |
| | Other Distributed Transmission System Expenses Not listed | N/A |
| | Name | N/A |
| | Is Notification of a Medical Facility required as a result of DTV broadcasting? | Yes |
| **Permit and Filing Costs** | Local Zoning | Yes |
| | Non-zoning permits | Yes |
| | BLM or NFS Coordination | Yes |
| | FCC Construction Permit Minor Change | Yes |
| | FCC License to Cover Application | Yes |
| | FCC Special Temporary Authority Application | Yes |
| **Other Miscellaneous Expenses** | Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)? | Yes |
| | Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs? | No |
| | 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 |
|---|---|---|---|---|---|
| **Interim Transmitter ULXTE-30** | **$878,350.00** | **$736,250.00** | | **$661,494.09** | |
| UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW | $684,000.00 | $650,000.00 | N/A | $613,921.87 | N/A |
| Transformer 3 phase /480v - 150 KVA | $25,550.00 | $15,000.00 | N/A | $4,237.03 | N/A |
| 2" Rigid Conduit and Wiring (Cost per foot) | $1,300.00 | $1,250.00 | N/A | N/A | N/A |
| Other Electrical Service: 200A disconnect and distribution panel | ***$20,000.00*** | $20,000.00 | N/A | $11,900.00 | N/A |
| UHF inside RF system including switching | $147,500.00 | $50,000.00 | N/A | $31,435.19 | N/A |
| **Primary Transmitter ULXTE 72** | **$1,583,250.00** | **$1,434,250.00** | | **$939,833.08** | |

| | | | | | |
|---|---|---|---|---|---|
| Other -- Building Addition Size: 500.0 | ***$15,000.00*** | $15,000.00 | N/A | $8,631.00 | N/A |
| 5 Ton system | $20,250.00 | $19,250.00 | N/A | N/A | N/A |
| Transformer 3 phase /480v - 300 KVA | $36,800.00 | $20,000.00 | N/A | $3,792.85 | N/A |
| Switchgear - industrial 800 amp | $38,200.00 | $30,000.00 | N/A | N/A | N/A |
| UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW | $1,473,000.00 | $1,350,000.00 | N/A | $927,409.23 | N/A |
| **Sub-total** | $2,461,600.00 | $2,170,500.00 | N/A | $1,601,327.17 | N/A |
| **Total for all systems** | $4,719,524.89 | $3,927,444.89 | N/A | $2,907,354.81 | N/A |

## Components

| Actual Information Description | File Name | |
|---|---|---|
| UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW | **Component Description:** | Conduit and Unistrut supplies for Aux TX install. |
| | **Amount:** | $94.76 |
| | **Component Description:** | Unistrut and PVC Conduit supplies for Aux TX install. |
| | **Amount:** | $144.12 |

| | |
|---|---|
| **Component Description:** | Unistrut supplies for Aux TX install. |
| **Amount:** | $50.99 |
| **Component Description:** | Down payment for ULXTE-30 transmitter and install. |
| **Amount:** | $203,579.43 |
| **Component Description:** | Payment 2 of 3 due on ULXTE-30 before shipping. |
| **Amount:** | $192,894.66 |
| **Component Description:** | Unistrut and conduit for Aux TX install. |
| **Amount:** | $89.35 |
| **Component Description:** | Final payment on ULXTE-30 including tax and freight. |
| **Amount:** | $217,030.39 |
| **Component Description:** | Oxygen gas for silver soldering transmission line. |
| **Amount:** | $38.17 |

| | | |
|---|---|---|
| Transformer 3 phase/480v - 150 KVA | **Component Description:**<br><br>**Amount:** | Payment 2 of 3 is due for ULXTE-30 electrical equipment before shipping.<br>$1,412.34 |
| | **Component Description:**<br><br>**Amount:** | Final payment on electrical for the ULXTE-30.<br>$1,314.39 |
| | **Component Description:**<br><br>**Amount:** | Down Payment on KVA transformer.<br>$1,510.30 |
| 2" Rigid Conduit and Wiring (Cost per foot) | Information not provided. | |
| Other Electrical Service: 200A disconnect and distribution panel | **Component Description:**<br><br>**Amount:** | For Electrical services and equipment for Aux TX.<br>$9,520.00 |
| | **Component Description:**<br><br>**Amount:** | Final payment for Aux TX electrical installation.<br>$2,380.00 |

| | | |
|---|---|---|
| UHF inside RF system including switching | **Component Description:**<br><br>**Amount:** | Payment for the Change Order #Q-79130 for needed RF supplies during the ULXTE-30 installation.<br>$3,719.70 |
| | **Component Description:**<br><br>**Amount:** | Payment 2 of 3 is due for ULXTE-30 RF equipment before shipping.<br>$9,238.50 |
| | **Component Description:**<br><br>**Amount:** | Final payment on RF System for ULXTE-30.<br>$8,594.81 |
| | **Component Description:**<br><br>**Amount:** | Down payment on RF Systems.<br>$9,882.18 |
| Other -- Building Addition Size: 500.0 | **Component Description:**<br><br>**Amount:** | Building addition for an Ice Shield and Security fencing for the Aux TX.<br>$8,631.00 |
| 5 Ton system | Information not provided. | |
| Transformer 3 phase/480v - 300 KVA | **Component Description:**<br><br>**Amount:** | Down payment on electrical KVA transformer.<br>$3,792.85 |
| Switchgear - industrial 800 amp | Information not provided. | |

| | | |
|---|---|---|
| UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW | **Component Description:** | Remote control system for ULXTE-72 and ULXTE-30. |
| | **Amount:** | $4,485.00 |
| | **Component Description:** | Pre-shipping invoice due for ULXTE-72 transmitter. |
| | **Amount:** | $449,091.25 |
| | **Component Description:** | Remote control system for ULXTE-72 Transmitter to Studio link. |
| | **Amount:** | $6,474.00 |
| | **Component Description:** | Down Payment on ULXTE-72, RF system and install. |
| | **Amount:** | $473,832.98 |

## Cost Information

### Antennas

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

| Description | Predetermined Cost Estimate | Estimated Cost | Estimated Cost Justification | Actual Cost | Actual Cost Justification |
|---|---|---|---|---|---|
| **Interim Antenna TFU-8WB-C160** | **$246,609.89** | **$56,779.89** | | **$56,779.89** | |
| UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized | $189,500.00 | $0.00 | N/A | N/A | N/A |
| UHF â€“ Broadband Panel, Side Mount Auxiliary /Interim, 200 horizontally polarized | ***$0.00*** | $0.00 | N/A | N/A | N/A |
| Sweep test of existing antenna | $6,730.00 | $6,400.00 | N/A | $6,400.00 | Dielectric says that the repack sweep expense listed on previous invoices was not for the sweep procedure, but was for other expenses. |

| | | | | | |
|---|---|---|---|---|---|
| UHF – Broadband Panel, Side Mount Auxiliary /Interim, 200 horizontally polarized | ***$50,379.89*** | $50,379.89 | ***System Notice: Estimate adjusted and locked because line has been superseded. *** | $50,379.89 | N/A |
| **Primary Antenna TFU-31JTH /VP-R 04** | **$308,530.00** | **$288,400.00** | | **$114,094.80** | |
| UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized | $289,500.00 | $271,000.00 | N/A | $104,238.00 | 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 | $11,000.00 | N/A | $6,976.80 | N/A |
| **Sub-total** | $555,139.89 | $345,179.89 | N/A | $170,874.69 | N/A |
| **Total for all systems** | $4,719,524.89 | $3,927,444.89 | N/A | $2,907,354.81 | N/A |

## Components

| Actual Information<br>Description | File Name |
| --- | --- |
| UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized | Information not provided. |
| UHF â€“ Broadband Panel, Side Mount Auxiliary/Interim, 200 horizontally polarized | Information not provided. |
| Sweep test of existing antenna | **Component Description:** For Repack Sweep of Aux line and Antenna.<br>**Amount:** $640.00<br><br>**Component Description:** 45% Down payment on RF sweep.<br>**Amount:** $2,880.00<br><br>**Component Description:** 45% Due for RF Sweep Prior to Shipping Aux Antenna.<br>**Amount:** $2,880.00<br><br>**Component Description:** 45% Down Payment on RF Sweep of Aux Antenna.<br>**Amount:** $2,880.00 |

| | | |
|---|---|---|
| UHF – Broadband Panel, Side Mount Auxiliary/Interim, 200 horizontally polarized | **Component Description:**<br><br>**Amount:** | 45% Payment Due Prior to Shipping Aux Antenna.<br>$20,216.25 |
| | **Component Description:**<br><br>**Amount:** | 45% Down Payment on Aux Antenna.<br>$20,216.25 |
| | **Component Description:**<br><br>**Amount:** | Angle iron metal for Aux Antenna mounting.<br>$118.72 |
| | **Component Description:**<br><br>**Amount:** | 45% Down payment on Aux antenna.<br>$20,216.25 |
| | **Component Description:**<br><br>**Amount:** | Final payment on antenna.<br>$9,828.67 |
| UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized | **Component Description:**<br><br>**Amount:** | 45% Down payment on main high power UHF antenna less the V Pol option.<br>$104,238.00 |
| Sweep test of existing antenna | **Component Description:**<br><br>**Amount:** | 45% Down payment on RF sweep test for main antenna.<br>$2,880.00 |

| | | |
|---|---|---|
| Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed) | **Component Description:**<br><br><br><br><br>**Amount:** | 45% Down payment on elbow complex and reducers for main antenna.<br>$6,976.80 |

## 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** | **$66,600.00** | **$55,000.00** | | **$52,866.45** | |
| Flexible Air Transmission Line - dielectric, 4" | $66,600.00 | $55,000.00 | N/A | $52,866.45 | The freight part of order #930003 for the RF Line and the order#1504002 RF Line Extension added to the cost. |
| **Primary Transmission Line** | **$0.00** | **$0.00** | | **$0.00** | |
| **Sub-total** | $66,600.00 | $55,000.00 | N/A | $52,866.45 | N/A |
| **Total for all systems** | $4,719,524.89 | $3,927,444.89 | N/A | $2,907,354.81 | N/A |

### Components

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

| | | |
|---|---|---|
| Flexible Air Transmission Line - dielectric, 4" | **Component Description:** | This is for the 70 foot Line extension between the tower and building. |
| | **Amount:** | $9,205.89 |
| | **Component Description:** | 45% Down payment on 4" by 800' aux antenna flexible line. |
| | **Amount:** | $18,950.28 |
| | **Component Description:** | 45% Due for Flexible Line Prior to Shipping Aux Antenna. |
| | **Amount:** | $18,950.28 |
| | **Component Description:** | 45% Down Payment for Flexible Line for Aux Antenna. |
| | **Amount:** | $18,950.28 |
| | **Component Description:** | Amount due for RF Line. |
| | **Amount:** | $5,760.00 |

## 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** | **$1,275,100.00** | **$1,242,000.00** | | **$1,053,600.00** | |
| Serious tower reinforcement /modifications | $1,052,000.00 | $898,000.00 | N/A | $759,896.00 | N/A |
| Tall Tower (greater than 500') | $210,500.00 | $334,000.00 | Estimated cost for installing the auxillary and main antenna. | $285,064.00 | N/A |
| Structural engineering tower load study for well documented tower | $12,600.00 | $10,000.00 | N/A | $8,640.00 | N/A |
| **Sub-total** | $1,275,100.00 | $1,242,000.00 | N/A | $1,053,600.00 | N/A |
| **Total for all systems** | $4,719,524.89 | $3,927,444.89 | N/A | $2,907,354.81 | N/A |

### Components

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

| | | |
|---|---|---|
| Serious tower reinforcement /modifications | **Component Description:** | Completion of Phase 1 with a change order for six weather days. |
| | **Amount:** | $88,040.00 |
| | **Component Description:** | Down payment for severe tall tower mods. |
| | **Amount:** | $419,910.00 |
| | **Component Description:** | Second payment Due on Tower Mods. |
| | **Amount:** | $251,946.00 |
| Tall Tower (greater than 500') | **Component Description:** | Second payment due on tower antenna services, plumb and tension services. |
| | **Amount:** | $106,899.00 |
| | **Component Description:** | Down payment on Antenna services, tower plumb and tension. |
| | **Amount:** | $178,165.00 |
| Structural engineering tower load study for well documented tower | **Component Description:** | Tall Tower study for repack. |
| | **Amount:** | $8,640.00 |

## 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 Justification |
|---|---|---|---|---|---|
| **Outside Professional Services** | **$322,895.00** | **$83,250.00** | | **$20,396.50** | |
| RF Exposure Measurements | $21,050.00 | $20,000.00 | N/A | N/A | N/A |
| Comprehensive coverage verification via field study, if needed | $84,200.00 | $0.00 | 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 | $0.00 | 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 | $5,000.00 | N/A | $0.00 | N/A |

| | | | | | |
|---|---|---|---|---|---|
| NEPA Section 106 environmental review, if needed | $6,310.00 | $0.00 | N/A | N/A | 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 - 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 - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application | $4,210.00 | $4,000.00 | 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 engineering section of FCC Form 2100 (main), License to Cover Application | $1,580.00 | $1,500.00 | N/A | N/A | N/A |
| Project management of the transition | $158,000.00 | $20,000.00 | N/A | $17,329.00 | 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 | N/A | N/A |
| Perform engineering study for new channel assignment and antenna development | $7,360.00 | $7,000.00 | N/A | $1,777.50 | N/A |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | $3,155.00 | $3,000.00 | N/A | $1,290.00 | N/A |
| RF Consulting Engineer Fees-Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application | $2,105.00 | $2,000.00 | N/A | N/A | N/A |
| RF Consulting Engineer Fees-Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application | $1,580.00 | $1,500.00 | N/A | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| Prepare request for Special Temporary Authorization | $2,050.00 | $1,500.00 | N/A | N/A | N/A |
| **Sub-total** | $322,895.00 | $83,250.00 | N/A | $20,396.50 | N/A |
| **Total for all systems** | $4,719,524.89 | $3,927,444.89 | N/A | $2,907,354.81 | N/A |

## Components

| Actual Information Description | File Name |
|---|---|
| RF Exposure Measurements | Information not provided. |
| Comprehensive coverage verification via field study, if needed | 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 | Information not provided. |
| NEPA Section 106 environmental review, if needed | Information not provided. |
| Attorney Fees - Prepare and File request for Special Temporary Authorization | Information not provided. |
| Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application | Information not provided. |

| | |
|---|---|
| Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application | Information not provided. |
| Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application | Information not provided. |
| Prepare engineering section of FCC Form 2100 (main), License to Cover Application | Information not provided. |
| Project management of the transition | **Component Description:** Cost for site survey and transmission line check for the repack.<br>**Amount:** $17,329.00<br><br>**Component Description:** Cost for Site Survey and Line test for Repack.<br>**Amount:** $17,329.00 |
| Prepare and or review reimbursement form | Information not provided. |
| Address transition timing and coordination issues w/ other stations and wireless | Information not provided. |

| | | |
|---|---|---|
| Perform engineering study for new channel assignment and antenna development | **Component Description:**<br><br>**Amount:** | Engineering study for new channel assignment and antenna development.<br>$1,777.50 |
| | **Component Description:**<br><br>**Amount:** | For engineering studies for new repack channel.<br>$1,777.50 |
| Prepare engineering section of FCC Form 2100 (main), Construction Permit Application | **Component Description:**<br><br>**Amount:** | For preparing engineering section on FCC Form 2100.<br>$1,290.00 |
| | **Component Description:**<br><br>**Amount:** | Preparation for the Form 2100 construction permit.<br>$1,290.00 |
| RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application | Information not provided. | |
| RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application | Information not provided. | |
| Prepare request for Special Temporary Authorization | 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** | **$38,190.00** | **$31,515.00** | | **$8,290.00** | |
| DTV Medical Facility Notification | $11,550.00 | $6,000.00 | N/A | $4,992.00 | N/A |
| FCC Filing Fees - Form 2100 minor change CP application | $1,110.00 | $0.00 | N/A | N/A | N/A |
| FCC Filing Fees - Form 2100 license to cover application | $335.00 | $325.00 | N/A | N/A | N/A |
| FCC Filing Fees - Special Temporary Authorization request | $195.00 | $190.00 | N/A | N/A | N/A |
| Local Zoning | ***$2,000.00*** | $2,000.00 | N/A | N/A | N/A |
| Non-zoning permits | ***$2,000.00*** | $2,000.00 | N/A | N/A | N/A |
| BLM or NFS Coordination | ***$10,000.00*** | $10,000.00 | N/A | N/A | N/A |
| Disposal Costs (for equipment and other waste, net of any salvage value) | ***$5,000.00*** | $5,000.00 | N/A | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| Develop and air announcement of upcoming channel change | ***$2,000.00*** | $2,000.00 | N/A | N/A | N/A |
| MVPD Notification of Channel Change | ***$4,000.00*** | $4,000.00 | N/A | $3,298.00 | N/A |
| **Sub-total** | $38,190.00 | $31,515.00 | N/A | $8,290.00 | N/A |
| **Total for all systems** | $4,719,524.89 | $3,927,444.89 | N/A | $2,907,354.81 | N/A |

## Components

| Actual Information Description | File Name |
|---|---|
| DTV Medical Facility Notification | **Component Description:** Medical Facility notification of frequency and antenna pattern change to the new RF channel.<br>**Amount:** $4,992.00 |
| FCC Filing Fees - Form 2100 minor change CP application | Information not provided. |
| FCC Filing Fees - Form 2100 license to cover application | Information not provided. |
| FCC Filing Fees - Special Temporary Authorization request | Information not provided. |
| Local Zoning | Information not provided. |
| Non-zoning permits | Information not provided. |
| BLM or NFS Coordination | Information not provided. |

| | | |
|---|---|---|
| Disposal Costs (for equipment and other waste, net of any salvage value) | Information not provided. | |
| Develop and air announcement of upcoming channel change | Information not provided. | |
| MVPD Notification of Channel Change | **Component Description:**<br><br><br><br><br>**Amount:** | Notification of Cable Satellite MVPD providers of new channel change.<br>$3,298.00 |

## Cost Information

### Grand Total

| | Predetermined Cost Estimate | Estimated Cost | Actual Cost |
|---|---|---|---|
| **Total for all systems** | $4,719,524.89 | $3,927,444.89 | $2,907,354.81 |

## Reimbursement Status

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

## Certification

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

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

| | | |
|---|---|---|
| | 8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested. | |
| | I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above. | **Bill Evans**<br>*Vice President and General Manager*<br><br>09/27/2019 |

## Attachments